CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

DOCUMENT SOM01.2

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and Laboratory Control Samples, if applicable. The sample data package consists of the following:

A. SDG Narrative

B. Traffic Report/Chain of Custody Records (TR/COC)

C. Volatiles Data

D. Semivolatiles Data

E. Pesticides Data

F. Aroclors Data

LAB CODE: LIBRTY CONTRACT #: EPW05028

CASE #: 36678 SDG #: Y3ES6

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
CASE # 36678
SDG # Y3ES6
SOW: SOM01.2
CONTRACT # EPW05028
MODIFICATION REFERENCE # 1391.1

SAMPLE IDENTIFICATIONS: Y3ES6, Y3ES7, Y3ES8, Y3ES9, Y3ET0, Y3ET2, Y3ET2MS, Y3ET2MSD, Y3ET3, Y3ET4, Y3ET5, Y3ET6, Y3ET7, Y3ET8, Y3ET9, YETW0, Y3EW1, and Y3ET1

The 16 aqueous samples listed above (not including the duplicate matrix spikes Y3ET2MS and Y3ET2MSD) were received intact, properly refrigerated at 3.6-4.9°C, in sealed shipping containers, on August 21, 22, 23, and 28, 2007, with proper documentation, but with the exceptions noted in the email located behind the traffic report. Sample Y3EW1 was listed on the TR/COC, but we received a sample labeled Y3EW6. The station location, sampling date, and sampling time matched the sample Y3EW1. As per Region 9, this sample is being reported as Y3EW1. Sample Y3ET1 was listed on the TR/COC for samples received on August 22, 2007, but we did not receive this sample on August 22, 2007. This sample was received on August 28, 2007 and no TR/COC was sent with the sample. No temperature blank was present in the cooler for the samples received on August 23, 2007. The temperature was recorded at a 3.6° C with an IR GUN using sample containers. No sample tags were received with the samples.

All samples in this SDG were scheduled for the requested analysis of the volatile fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Multi-Media, Multi-Concentration Statement of Work (SOW), Document SOM01.2 Trace analysis, with Modification Reference Number 1391.1. All pertinent Quality Assurance Notices are included in the narrative section.

Volatiles

Analysis holding time requirements were met for all of these samples.

The pH value was one (1) for samples Y3ES6, Y3ES7, Y3ES8, Y3ES9, Y3ET0, Y3ET2, Y3ET2MS, Y3ET2MSD, Y3ET3, Y3ET4, Y3ET5, Y3ET6, Y3ET7, Y3ET8, Y3ET9, YETW0, Y3EW1, and Y3ET1.

Samples Y3ET8 and Y3ET9 were each, run at a 2.5x dilution, based on the screen data. The screen Reconstructed Ion Chromatogram (RIC) is found immediately following the reportable runs RIC.

One or more volatile target analytes were identified above the Contract Required Quantitation Limit (CRQL) in samples Y3ES7, Y3ES9, Y3ET5, Y3ET6, Y3ET7, Y3ET8, Y3ET9, YETW0, and Y3EW1.

One or two Tentatively Identified Compounds (TICs) were found samples Y3ES6, Y3ES7, Y3ES9, Y3ET0, Y3ET2, Y3ET3, Y3ET4, Y3ET5, Y3ET6, Y3ET7, Y3ET8, Y3ET9, Y3EW1, and Y3ET1. Total Alkanes were not found in any of these samples.

Manual quantitations were performed on the process files associated with this SDG, including the initial calibration files GS070912B73, GT070912B73, GU070912B73, GV070912B73, GS070823A90, GT070823A90, GU070823A90, GV070823A90, and GW070823A90, the continuing calibration files GZ070823A90, GS070824A90, GZ070824A90, GS070827A90, GZ070827A90, and GS070829A90, GZ070829A90, and sample Y3ES7. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

In a response to a Statement of Work Interpretation, the Organic Contract Laboratory Program Office stated that if the mass spectral interpretation specialist determines a TIC to be a laboratory artifact (including artifacts from the DMC solution), there is no need to report it. However, all TICs not reported due to a mass spectral interpretation specialist's assessment should be noted in the SDG Narrative. There are laboratory artifacts (including artifacts from the DMC solution) not reported on the Forms IJ. Their approximate retention times are as follows:

4.256 min.	Laboratory artifact
4.829 min.	Laboratory artifact
4.981 min.	Laboratory artifact
13.761 min.	Laboratory artifact
13.790 min.	Laboratory artifact

These peaks are present in the standards, blanks, and samples.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples, with the exception of the recovery of trans-1,3-Dichloropropene-d4 in samples Y3ET1, Y3ET5, and Y3ET8 and the recovery of 1,2-Dichlorobenzene-d4 in sample Y3ET6.

All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks and the storage blank met all quality control criteria.

The duplicate matrix spikes Y3ET2MS and Y3ET2MSD met all accuracy and precision criteria.

As per the SOW, an example calculation is attached. The example given is for Vinyl chloride-d_3 in sample Y3ES6.

I certify that this Sample 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 Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

S. A Parikh

Saroj A. Parikh
GC/MS Case Reviewer
September 17, 2007

CASE: 36678
SDG: Y3ES6

Example Calculation for the Volatile Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Vinyl chloride-d3 from GW070823A90

Ax=	113501
Ais=	373743
Cis=	125
Cx=	125
RRF=	0.304

Mean RRF from ICAL 0.314

Concentration Calculation

Concentration(ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Vinyl chloride-d3 from Y3ES6

Ax=	117465
Ais=	341235
Is=	125
Mean RRF=	0.314
Vo=	25
Df=	1

Concentration(ug/L)= 5.5

Request for Quote (RFQ) for Modified Analysis

Date: July 27, 2007

Subject: Modification Reference Number: 1391.1
Title: R9-TertButylAlcohol
Sample Matrix: Water
Fraction Affected: TVOA
Statement of Work: SOM01.X

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Organic Statement of Work (SOW) SOM01.X, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW SOM01.X remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW SOM01.X.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

The requirements in the RFQ are as stated and any defects will be assessed by SMO per the laboratory contract. The Laboratory should take this into account when submitting their quote.

Notice to Contractors: Acceptance of Modified Analysis samples will not count against the monthly capacity.

Modification to the SOW Specifications:

SOW SOM01.X requires Laboratories to analyze water samples for volatile organic compounds through the protocol outlined in Exhibit D, Trace Volatile method. Specific Trace Volatile target analytes and their associated Contract Required Quantitation Limits (CRQLs) are listed in Exhibit C, Section 1.0 pages C-5 and C-6 of SOW SOM01.X. The proposed modification will require the Laboratory to analyze samples for the same target analytes listed in Section 1.0 on pages C-5 and C-6, with the following additional requirements.

One additional analyte shall be added to the target analyte list: tertiary butyl alcohol (CAS # 75-65-0). This additional analyte shall have a CRQL of 5 ug/L.

If tertiary butyl alcohol is undetected, the Laboratory shall report at the CRQL specified in this modified analysis, even if the Laboratory is able to achieve a lower limit.

For initial calibration, opening and closing continuing calibration purposes, the additional analyte may either be added to the original calibration standards or may be analyzed as a single analyte. Of the 5 initial calibration standards and the opening and closing continuing calibration standards, the lowest calibration standard shall have a concentration at or below the CRQL.

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW SOM01.X. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via e-mail at CCSSupport@fedcsc.com for resolution.

All samples and/or fractions assigned to an SDG shall be analyzed under the same Modified Analysis requirements as established in this memorandum. The Laboratory shall not include data from multiple Modified Analyses in one SDG.

The Laboratory shall include the Modification Reference Number 1391.1 on each hardcopy data form under the "Mod. Ref. No." header appearing on each form as well as the data element "ServicesID" under the "SamplePlusMethod" node of the EDD. This should be done for the fractions affected by the modified analysis only. The "ServicesID" field should remain blank for all other fractions reported in the SDG. The Laboratory shall also document the Modification Reference Number and the Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name: LIBRTY
Laboratory Comments:

GC and GC/MS Column and Trap Specifications Table

SDG #:	Y3E56

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
	Restek	clpest	0.32	0.5	30
	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
✓	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
✓	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 22

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches $\geq$ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Revision 11 (08-17-2007)

B. Traffic Report/Chain of Custody Records (TR/COC)

The contractor shall include a copy of the TR/COCs for all of the samples in the SDG. The TR/COCs shall be arranged in increasing EPA sample number order, considering both letters and numbers.

In any instance where samples from more than one multi-sample TR/COC are in the same data package, the Contractor shall submit a copy of the SDG cover sheet with copies of the TR/COCs.

CompuChem
a division of Liberty Analytical Corp.

Sample Delivery Group (SDG)
Cover Sheet

ORIGINAL

SDG Number Y3ES6

MA 1391.91 9.12.07
TRACE VOA

Laboratory Name CompuChem Laboratory Code LIBRTY

Contract No. EPW05028 Case No. 36678

Analysis Price NA SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1)	Y3ES6	7)	Y3ET2	13)	Y3ET8	19)	
2)	Y3ES7	8)	Y3ET3	14)	Y3ET9	20)	
3)	Y3ES8	9)	Y3ET4	15)	Y3EW0	21)	
4)	Y3ES9	10)	Y3ET5	16)	Y3EW1	22)	
5)	Y3ET0	11)	Y3ET6	17)	Y3ET2MS	23)	
6)	Y3ET1	12)	Y3ET7	18)	Y3ET2MSD	24)	

Y3ES6
First Sample in SDG

Y3ET1
Last Sample in SDG

8/21/2007
First Sample Receipt Date

8/28/2007
Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Joan Purdie Date 08/27/07

4
1B
9.18.07

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36678
DAS No:
SDG No: Y3ES6

Date Shipped:	8/20/2007	**Chain of Custody Record**	Sampler Signature:
Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Airbill:	799696515519	1 5.20.07 1500	8.21.07 9:00
Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
		3	
		4	

For Lab Use Only
Lab Contract No: EPW05028
Unit Price: NA
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3ES6	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	1	S: 8/20/2007	10:40		
Y3ES7	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	2	S: 8/20/2007	11:40		
Y3ES8	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	3	S: 8/20/2007	12:50		
Y3ES9	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	4	S: 8/20/2007	14:00		
Y3ET0	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	5	S: 8/20/2007	13:45		

COPY
ORIGINAL DOCUMENTS INCLUDED IN CASE Y3ES6
SIGNATURE J. Purdee DATE 8/31/07

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.9°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
VOA = CLP TCL Volatiles				

TR Number: 9-530112900-082007-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36678
DAS No:
SDG No: Y3ES6

E

Date Shipped:	8/21/2007
Carrier Name:	FedEx
Airbill:	791745150110
Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	8/21/07 1300	Jean Purdie 8.22.07 855
2		
3		
4		

Sampler Signature:

For Lab Use Only

Lab Contract No: EP005028
Unit Price: NA
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3ET1	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	6	S: 8/21/2007	8:45		Did not rec. 8.22.07
Y3ET2	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (6)	7	S: 8/21/2007	9:35		Good
Y3ET3	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	8	S: 8/21/2007	10:40		
Y3ET4	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	9	S: 8/21/2007	11:10		
Y3ET5	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	10	S: 8/21/2007	12:30		

COPY
ORIGINAL DOCUMENTS INCLUDED IN CASE Y3ES
SIGNATURE J. Purdie DATE 8.31.07

Sample Y3ET1 was sent on 8.28.07
8.28.07
No TR/COC was sent with sample on 8.28.07

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
N	Y3ET2		3.9°C	

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?	Shipment Iced?
VOA = CLP TCL Volatiles				

TR Number: 9-530112900-082107-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36678
DAS No:
SDG No: Y3ES6

Date Shipped:	8/22/2007	Chain of Custody Record		Sampler Signature:	For Lab Use Only
Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: EPW06028
Airbill:	792401812713	1	8/22/07 1500	Joan Purdee	8.23.07 1015	Unit Price: N.A. 8.23.07
Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2				Transfer To:
		3				Lab Contract No:
		4				Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3ET6	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	11	S: 8/22/2007	8:50		Good
Y3ET7	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	12	S: 8/22/2007	9:40		
Y3ET8	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	13	S: 8/22/2007	10:25		
Y3ET9	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	14	S: 8/22/2007	10:45		
Y3EW0	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	15	S: 8/22/2007	11:25		
Y3EW1	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	16	S: 8/22/2007	12:00		

ALL DOCUMENTS INCLUDED IN CSF Y3ES6
SIGNATURE J. Purdee 8.31.07

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.6	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?	Shipment Iced?
VOA = CLP TCL Volatiles					

TR Number: 9-530112900-082207-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

Request for Quote (RFQ) for Modified Analysis

Date: July 27, 2007

Subject: Modification Reference Number: 1391.1
Title: R9-TertButylAlcohol
Sample Matrix: Water
Fraction Affected: TVOA
Statement of Work: SOM01.X

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Organic Statement of Work (SOW) SOM01.X, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW SOM01.X remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW SOM01.X.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

The requirements in the RFQ are as stated and any defects will be assessed by SMO per the laboratory contract. The Laboratory should take this into account when submitting their quote.

Notice to Contractors: Acceptance of Modified Analysis samples will not count against the monthly capacity.

Modification to the SOW Specifications:

SOW SOM01.X requires Laboratories to analyze water samples for volatile organic compounds through the protocol outlined in Exhibit D, Trace Volatile method. Specific Trace Volatile target analytes and their associated Contract Required Quantitation Limits (CRQLs) are listed in Exhibit C, Section 1.0 pages C-5 and C-6 of SOW SOM01.X. The proposed modification will require the Laboratory to analyze samples for the same target analytes listed in Section 1.0 on pages C-5 and C-6, with the following additional requirements.

One additional analyte shall be added to the target analyte list: tertiary butyl alcohol (CAS # 75-65-0). This additional analyte shall have a CRQL of 5 ug/L.

If tertiary butyl alcohol is undetected, the Laboratory shall report at the CRQL specified in this modified analysis, even if the Laboratory is able to achieve a lower limit.

For initial calibration, opening and closing continuing calibration purposes, the additional analyte may either be added to the original calibration standards or may be analyzed as a single analyte. Of the 5 initial calibration standards and the opening and closing continuing calibration standards, the lowest calibration standard shall have a concentration at or below the CRQL.

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW SOM01.X. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via e-mail at CCSSupport@fedcsc.com for resolution.

All samples and/or fractions assigned to an SDG shall be analyzed under the same Modified Analysis requirements as established in this memorandum. The Laboratory shall not include data from multiple Modified Analyses in one SDG.

The Laboratory shall include the Modification Reference Number 1391.1 on each hardcopy data form under the "Mod. Ref. No." header appearing on each form as well as the data element "ServicesID" under the "SamplePlusMethod" node of the EDD. This should be done for the fractions affected by the modified analysis only. The "ServicesID" field should remain blank for all other fractions reported in the SDG. The Laboratory shall also document the Modification Reference Number and the Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name: LIBRTY
Laboratory Comments:

Joan Purdie

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Friday, August 24, 2007 12:58 PM
To: cdover@compuchemlabs.com; aevans@compuchemlabs.com; bmeierer@compuchemlabs.com; jpurdie@compuchemlabs.com
Cc: R9RSCC@epamail.epa.gov; Kramer, Caroline
Subject: Region 09 | Case 36678 | Lab LIBRTY | Issue Samples listed on TR/COC but not received at laboratory | FINAL

36678-08-22-0 7.PDF

Joan,

Caroline is out of the office. This is Gale.

Summary Start
Issue: Sample Y3ET1 was listed on the TR/COC, but was not received by the laboratory.
Resolution: Per Region 9, PLEASE NOTE THIS IN THE SDG NARRATIVE AND PROCEED WITH THE ANALYSIS. SAMPLER NOTIFIED.
Summary End

Please let me know if you have any questions.

Gale E. Maruska
Environmental Scientist
Computer Sciences Corporation
Ph: 703-818-4125
Fax: 703-818-4601

-----Original Message-----
From: Odonnell.Mary@epamail.epa.gov [mailto:Odonnell.Mary@epamail.epa.gov] On Behalf Of R9RSCC@epamail.epa.gov
Sent: Friday, August 24, 2007 12:16 PM
To: Kramer, Caroline
Cc: mike.palm@ch2m.com
Subject: Re: (8-21) | Case 36678 | Lab LIBRTY | Issue Sample listed on TR/COC but not received at laboratory

PLEASE SEE BELOW.

MIke, FYI.....please send any response directly to Caroline Kramer with cc to r9rscc@epa.gov

Thanks,

Mary

****
Mary O'Donnell
Region 9 RSCC
EPA Region 9 Laboratory
Office: 510-412-2389
Fax: 510-412-2302
email: R9RSCC@epa.gov
****

"Kramer, Caroline" <ckramer5@fedcsc To

.com>

Mary ODonnell/R9/USEPA/US@EPA, R9RSCC@EPA

08/22/2007 11:07 AM

cc

Subject

(8-21) | Case 36678 | Lab LIBRTY | Issue Sample listed on TR/COC but not received at laboratory

Mary,
LIBRTY is reporting the following issue regarding Case 36678. Please advise on how the lab should proceed.

Issue: Sample Y3ET1 was listed on the TR/COC, but was not received by the laboratory.

PLEASE NOTE THIS IN THE SDG NARRATIVE AND PROCEED WITH THE ANALYSIS. SAMPLER NOTIFIED.

Please let me know if you have any questions or problems.
thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: jpurdie@compuchemlabs.com [mailto:jpurdie@compuchemlabs.com]
Sent: Wednesday, August 22, 2007 1:21 PM
To: Kramer, Caroline
Subject: REGION 9|C#36678|ISSUE

Caroline,
I did not receive sample id Y3ET1 that is listed on the TR/COC. See attached.
<<36678-08-22-07.PDF>>

Thank you,
Joan Purdie
Contract Co-ordinator
CompuChem/Liberty
919-379-4081
jpurdie@compuchemlabs.com

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(See attached file: 36678-08-22-07.PDF)

Joan Purdie

From: Kramer, Caroline [ckramer5@fedcsc.com]
Sent: Tuesday, August 28, 2007 4:16 PM
To: jpurdie@compuchemlabs.com
Cc: Mary O'Donnell; R9
Subject: Region 09 | Case 36678 | Lab LIBRTY | Issue Multiple | FINAL

Joan,
Summary Start
-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC list Y3EW1 but the lab received a sample labeled Y3EW6. The station location, sampling date, and sampling time matches
Y3EW1.
Resolution 1: Per Region 9, the laboratory should report the samples as Y3EW1, note the issue in the SDG Narrative and proceed with the analysis of the sample.

-Missing temperature blank-
Issue 2: there was no temperature blank received with the samples, the temperature was determined to be 3.6C using an IR gun.
Resolution 2: In accordance with previous direction from Region 9, the laboratory will note the issue, and the method used to determine the temperature in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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From: Benjamin.Lechler@ch2m.com [mailto:Benjamin.Lechler@ch2m.com]
Sent: Tuesday, August 28, 2007 4:08 PM
To: Bauer.Richard@epamail.epa.gov
Cc: Kramer, Caroline
Subject: RE: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Hi All, Please report these as Y3EW1. Sorry for the confusion. - BJ

Benjamin J. Lechler, P.G.
Associate Hydrogeologist
CH2M HILL/SCO
(direct) 714-435-6283
(cell) 714-697-4203
(fax) 714-424-2233

From: Bauer.Richard@epamail.epa.gov [mailto:Bauer.Richard@epamail.epa.gov]
Sent: Tuesday, August 28, 2007 12:49 PM
To: Lechler, Benjamin/SCO
Cc: ckramer5@fedcsc.com
Subject: Fw: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Hi BJ:

Should Alhambra sample #16 (collected 8/22/07 at 12:00) be reported as Y3EW6 or as Y3EW1. COC says one thing and vials say the other. Please let me know ASAP.

****
Richard Bauer
U.S. EPA Region 9 Laboratory
1337 South 46th Street, Bldg 201
Richmond, CA 94804
(510) 412-2312
****

---- Forwarded by Richard Bauer/R9/USEPA/US on 08/28/2007 12:05 PM ----

"Kramer, Caroline" <ckramer5@fedcsc.com>

08/28/2007 09:02 AM

To Mary ODonnell/R9/USEPA/US@EPA, R9RSCC@EPA

cc

Subject FW: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Rich,
This issue is still outstanding; could you please provide a resolution for issue 1 when you get a chance?
Thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, August 23, 2007 11:28 AM
To: Mary O'Donnell; R9
Subject: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Mary,
LIBRTY is reporting the following issues regarding Case 36678. Issue 2 can be resolved using a standard answer, however please advise on how the lab should proceed for issue 1.

-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC list Y3EW1 but the lab received a sample labeled Y3EW6. The station location, sampling date, and sampling time matches Y3EW1 (see attached TR).

-Missing temperature blank-
Issue 2: there was no temperature blank received with the samples, the temperature was determined to be 3.6C using an IR gun.

Resolution 2: In accordance with previous direction from Region 9, the laboratory will note the issue, and the method used to determine the temperature in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any question or problems.
thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: jpurdie@compuchemlabs.com [mailto:jpurdie@compuchemlabs.com]
Sent: Thursday, August 23, 2007 11:03 AM
To: Kramer, Caroline
Subject: REGION 9|C#36678|ISSUE

Caroline,
The TR/COC list Y3EW1 but I received a sample labeled Y3EW6. The station location,sampling date, and sampling time matches Y3EW1. See attached. No temperature blank is present in cooler 3.6 degrees was determined using
IR GUN and containers as all temperatures have been determined since this
Case started on 8/21/07.

<<36678-08-23-07.PDF>>

Thank you,
Joan Purdie
Contract Co-ordinator
CompuChem/Liberty
919-379-4081
jpurdie@compuchemlabs.com

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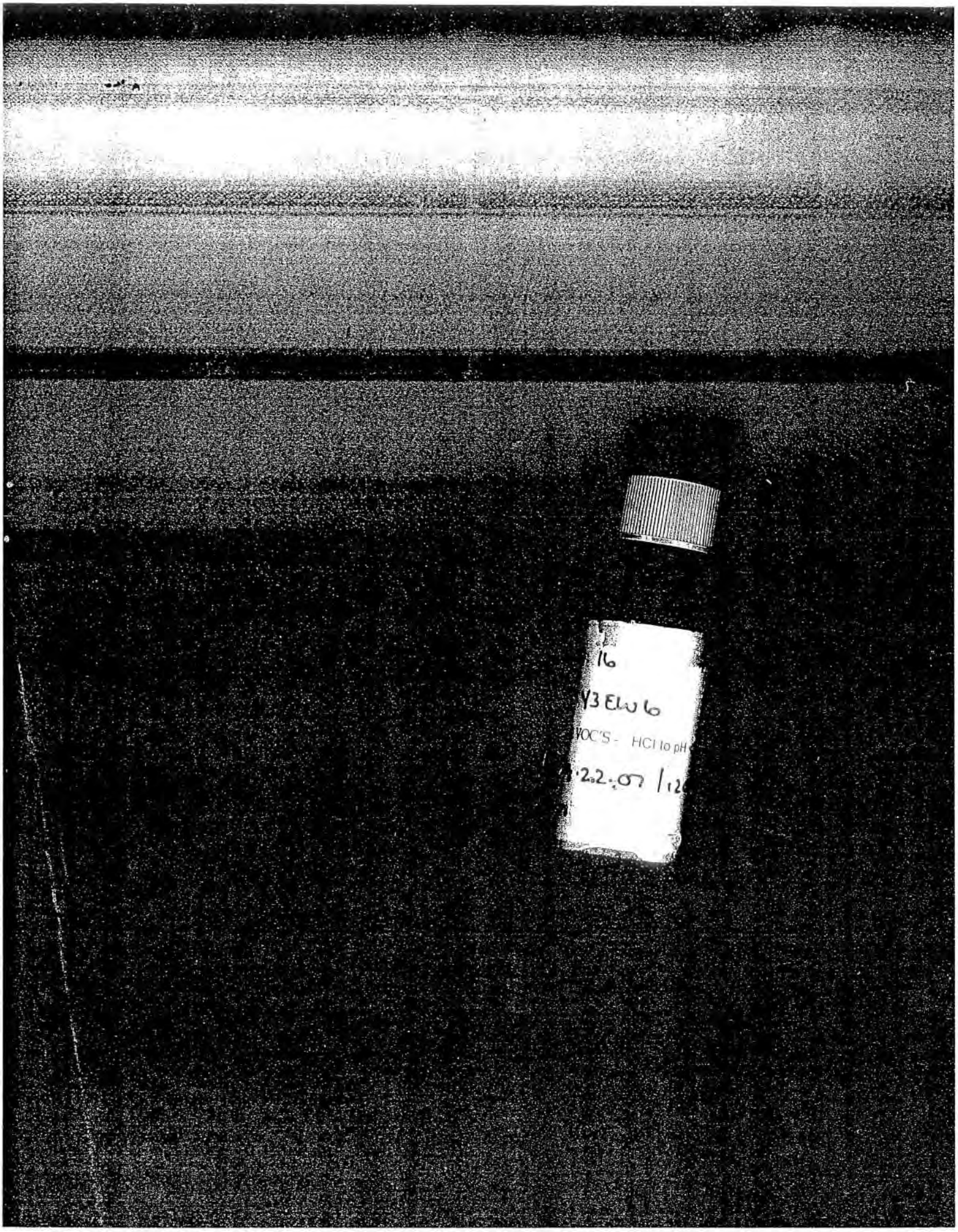
16
Y3 EW 6
VOC'S - HCl to pH
2.2.07 12

C. Volatile Data

1. Q C Summary
2. Sample Data
3. Standards Data
4. Raw Q C Data
5. Trace SIM Data (Optional)

LAB CODE: LIBRTY CONTRACT #: EPW05028

CASE #: 36678 SDG #: Y3ES6

1. Q C Summary

a. Deuterated Monitoring Compound (DMC) Recovery
(Form II VOA)

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III VOA)

c. Method Blank Summary
(Form IV VOA)

d. GC/MS Instrument Performance Check
(Form V VOA)

e. Internal Standard Area and RT Summary
(Form VIII VOA)

a. Deuterated Monitoring Compound (DMC) Recovery (Form II VOA)

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKRR	106	108	81	84	102	104	110
02	VBLKRT	103	103	79	81	101	101	106
03	VBLKRV	101	103	76	73	101	98	108
04	VBLKRX	125	130	95	67	121	111	116
05	VBLKUT	79	96	70	89	96	98	99
06	VHBLKYE	91	98	75	92	102	101	101
07	Y3ES6	109	111	88	80	105	103	110
08	Y3ES7	111	85	65	74	89	91	88
09	Y3ES8	104	107	83	82	105	105	106
10	Y3ES9	121	96	73	80	98	99	98
11	Y3ET0	87	92	69	80	91	95	92
12	Y3ET1	113	119	88	65	113	102	106
13	Y3ET2	95	105	79	81	100	101	100
14	Y3ET2MS	102	107	101	85	105	106	103
15	Y3ET2MSD	96	102	101	81	100	102	97
16	Y3ET3	96	105	79	82	99	102	101
17	Y3ET4	95	105	78	81	103	105	101
18	Y3ET5	88	99	72	71	95	96	95
19	Y3ET6	83	87	65	75	88	90	89
20	Y3ET7	92	101	74	84	97	98	96
21	Y3ET8	88	101	72	67	96	93	99
22	Y3ET9	101	108	82	75	104	103	102
23	Y3EW0	102	109	80	80	107	106	104
24	Y3EW1	110	114	82	79	108	106	107
25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d_3	(65-131)
VDMC2 (CLA) = Chloroethane-d_5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d_2	(55-104)
VDMC4 (BUT) = 2-Butanone-d_5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d_4	(78-129)
VDMC7 (BEN) = Benzene-d_6	(77-124)

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

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: SDG No.: Y3ES6

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKRR	103	106	94	87		98	98	0
02	VBLKRT	100	104	86	84		96	96	0
03	VBLKRV	101	104	80	77		93	97	0
04	VBLKRX	107	113	74	76		99	94	0
05	VBLKUT	95	95	94	86		97	97	0
06	VHBLKYE	96	98	91	85		94	93	0
07	Y3ES6	104	110	87	82		96	96	0
08	Y3ES7	87	86	75	75		84	81	0
09	Y3ES8	101	103	86	80		97	93	0
10	Y3ES9	95	95	82	77		91	89	0
11	Y3ET0	89	88	80	81		90	82	0
12	Y3ET1	96	101	70*	72		94	84	1
13	Y3ET2	98	98	85	82		93	89	0
14	Y3ET2MS	102	101	87	89		99	94	0
15	Y3ET2MSD	96	95	81	82		93	90	0
16	Y3ET3	96	98	79	85		95	87	0
17	Y3ET4	100	98	80	83		96	88	0
18	Y3ET5	93	92	71*	75		89	81	1
19	Y3ET6	88	86	74	78		88	79*	1
20	Y3ET7	95	91	78	81		93	86	0
21	Y3ET8	93	94	71*	68		82	84	1
22	Y3ET9	97	97	74	74		91	88	0
23	Y3EW0	102	97	79	82		98	86	0
24	Y3EW1	106	103	78	81		99	88	0
25									
26									
27									
28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d_6	(79-124)
VDMC9 (TOL) = Toluene-d_8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d_4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d_5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d_8	
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d_2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d_4	(80-131)

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

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III VOA)

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Matrix Spike - EPA Sample No.: Y3ET2 Level (TRACE or LOW/MED) TRACE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC #	QC. LIMITS REC.
1,1-Dichloroethene	5.0	0.0	4.2	83	61-145
Trichloroethene	5.0	0.0	4.8	97	71-120
Benzene	5.0	0.0	4.9	97	76-127
Toluene	5.0	0.0	5.1	101	76-125
Chlorobenzene	5.0	0.0	5.0	101	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	5.0	4.5	90	7	0-14	61-145
Trichloroethene	5.0	4.9	98	1	0-14	71-120
Benzene	5.0	5.0	100	3	0-11	76-127
Toluene	5.0	5.2	103	2	0-13	76-125
Chlorobenzene	5.0	5.1	103	2	0-13	75-130

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

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Comments: _____

c. Method Blank Summary (Form IV VOA)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKRR

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Lab File ID: 149330A90 Lab Sample ID: 149330A90.d

Instrument ID: 5973HP90

Matrix: (SOIL/SED/WATER) Water Date Analyzed: 08/23/2007

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 14:15

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y3ES6	1363701	1363701A90	14:51
02	Y3ES7	1363702	1363702A90	15:20
03	Y3ES8	1363703	1363703A90	15:49
04	Y3ES9	1363704	1363704A90	16:17
05	Y3ET0	1363705	1363705A90	16:46
06	Y3ET2	1363708	1363708A90	17:15
07	Y3ET2MS	1363709	1363709A90	17:44
08	Y3ET2MSD	1363710	1363710A90	18:13
09	Y3ET3	1363711	1363711A90	18:41
10	Y3ET4	1363712	1363712A90	19:10
11	Y3ET5	1363713	1363713A90	19:39
12				
13				
14				
15				
16				
17				
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30				

Comments: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKRT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Lab File ID: 149518A90 Lab Sample ID: 149518A90.d

Instrument ID: 5973HP90

Matrix: (SOIL/SED/WATER) Water Date Analyzed: 08/24/2007

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 10:41

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y3ET6	1363714	1363714A90	11:26
02	Y3ET7	1363715	1363715A90	11:55
03	Y3EW1	1363719	1363719A90	13:50
04				
05				
06				
07				
08				
09				
10				
11				
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Comments: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKRV

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Lab File ID: 149670A90 Lab Sample ID: 149670A90.d

Instrument ID: 5973HP90

Matrix: (SOIL/SED/WATER) Water Date Analyzed: 08/27/2007

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 10:54

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y3ET8	1363716	1363716DA90	11:39
02	Y3ET9	1363717	1363717DA90	12:08
03	Y3EW0	1363718	1363718RA90	12:37
04				
05				
06				
07				
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Comments: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKRX

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Lab File ID: 149929RA90 Lab Sample ID: 149929RA90.d

Instrument ID: 5973HP90

Matrix: (SOIL/SED/WATER) Water Date Analyzed: 08/29/2007

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 13:06

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y3ET1	1363720	1363720A90	14:09
02				
03				
04				
05				
06				
07				
08				
09				
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Comments: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKUT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Lab File ID: 150443B73 Lab Sample ID: 150443B73.d

Instrument ID: 5972HP73

Matrix: (SOIL/SED/WATER) Water Date Analyzed: 09/12/2007

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 23:11

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKYE	1363706	1363706B73	23:48
02				
03				
04				
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09				
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Comments: _____

d. GC/MS Instrument Performance Check (Form V VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBUT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Lab File ID: BG070912B73 BFB Injection Date: 09/12/2007

Instrument ID: 5972HP73 BFB Injection Time: 19:11

GC Column: SPB-624 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 80.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120% of mass 95	87.7
175	5.0 - 9.0% of mass 174	6.2 (7.1)1
176	95.0 - 101% of mass 174	85.0 (96.9)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.5UT	GS070912B73	GS070912B73	09/12/2007	20:37
02	VSTD001UT	GT070912B73	GT070912B73	09/12/2007	21:07
03	VSTD020UT	GU070912B73	GU070912B73	09/12/2007	21:37
04	VSTD010UT	GV070912B73	GV070912B73	09/12/2007	22:06
05	VSTD005UT	GW070912B73	GW070912B73	09/12/2007	22:36
06	VBLKUT	150443	150443B73	09/12/2007	23:11
07	VHBLKYE	1363706	1363706B73	09/12/2007	23:48
08	VSTD005UT	GZ070912B73	GZ070912B73	09/13/2007	00:23
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBRR

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Lab File ID: BF070823A90 BFB Injection Date: 08/23/2007

Instrument ID: 5973HP90 BFB Injection Time: 11:28

GC Column: SPB-624 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	55.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120% of mass 95	81.1
175	5.0 - 9.0% of mass 174	5.9 (7.3)1
176	95.0 - 101% of mass 174	78.0 (96.2)1
177	5.0 - 9.0% of mass 176	5.5 (7.1)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001RR	GS070823A90	GS070823A90	08/23/2007	11:51
02	VSTD0.5RR	GT070823A90	GT070823A90	08/23/2007	12:20
03	VSTD020RR	GU070823A90	GU070823A90	08/23/2007	12:49
04	VSTD010RR	GV070823A90	GV070823A90	08/23/2007	13:17
05	VSTD005RR	GW070823A90	GW070823A90	08/23/2007	13:46
06	VBLKRR	149330	149330A90	08/23/2007	14:15
07	Y3ES6	1363701	1363701A90	08/23/2007	14:51
08	Y3ES7	1363702	1363702A90	08/23/2007	15:20
09	Y3ES8	1363703	1363703A90	08/23/2007	15:49
10	Y3ES9	1363704	1363704A90	08/23/2007	16:17
11	Y3ET0	1363705	1363705A90	08/23/2007	16:46
12	Y3ET2	1363708	1363708A90	08/23/2007	17:15
13	Y3ET2MS	1363709	1363709A90	08/23/2007	17:44
14	Y3ET2MSD	1363710	1363710A90	08/23/2007	18:13
15	Y3ET3	1363711	1363711A90	08/23/2007	18:41
16	Y3ET4	1363712	1363712A90	08/23/2007	19:10
17	Y3ET5	1363713	1363713A90	08/23/2007	19:39
18	VSTD005RS	GZ070823A90	GZ070823A90	08/23/2007	20:37
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBRT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Lab File ID: BF070824A90 BFB Injection Date: 08/24/2007

Instrument ID: 5973HP90 BFB Injection Time: 09:34

GC Column: SPB-624 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 80.0% of mass 95	53.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	95.0 - 101% of mass 174	78.5 (97.5)1
177	5.0 - 9.0% of mass 176	5.2 (6.6)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005RT	GS070824A90	GS070824A90	08/24/2007	10:04
02	VBLKRT	149518	149518A90	08/24/2007	10:41
03	Y3ET6	1363714	1363714A90	08/24/2007	11:26
04	Y3ET7	1363715	1363715A90	08/24/2007	11:55
05	Y3EW1	1363719	1363719A90	08/24/2007	13:50
06	VSTD005RU	GZ070824A90	GZ070824A90	08/24/2007	18:37
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBRV

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Lab File ID: BF070827A90 BFB Injection Date: 08/27/2007

Instrument ID: 5973HP90 BFB Injection Time: 09:48

GC Column: SPB-624 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 80.0% of mass 95	52.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120% of mass 95	84.2
175	5.0 - 9.0% of mass 174	6.1 (7.3)1
176	95.0 - 101% of mass 174	82.8 (98.3)1
177	5.0 - 9.0% of mass 176	5.6 (6.7)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005RV	GS070827A90	GS070827A90	08/27/2007	10:16
02	VBLKRV	149670	149670A90	08/27/2007	10:54
03	Y3ET8	1363716	1363716DA90	08/27/2007	11:39
04	Y3ET9	1363717	1363717DA90	08/27/2007	12:08
05	Y3EW0	1363718	1363718RA90	08/27/2007	12:37
06	VSTD005RW	GZ070827A90	GZ070827A90	08/27/2007	14:36
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBRX

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Lab File ID: BF070829A90 BFB Injection Date: 08/29/2007

Instrument ID: 5973HP90 BFB Injection Time: 10:44

GC Column: SPB-624 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	55.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120% of mass 95	79.7
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	95.0 - 101% of mass 174	77.5 (97.2)1
177	5.0 - 9.0% of mass 176	5.5 (7.1)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005RX	GS070829A90	GS070829A90	08/29/2007	11:15
02	VBLKRX	149929	149929RA90	08/29/2007	13:06
03	Y3ET1	1363720	1363720A90	08/29/2007	14:09
04	VSTD005RY	GZ070829A90	GZ070829A90	08/29/2007	16:53
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06					
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e. Internal Standard Area and RT Summary (Form VIII VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 09/12/2007 09/12/2007

EPA Sample No. (VSTD#####): VSTD005UT Date Analyzed: 09/12/2007

Lab File ID (Standard): GW070912B73 Time Analyzed: 22:36

Instrument ID: 5972HP73 Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	145928		12.32		175279		9.86		72521		14.11	
	UPPER LIMIT	204299		12.65		245391		10.19		101529		14.44	
	LOWER LIMIT	87557		11.99		105167		9.53		43513		13.78	
	EPA SAMPLE NO.												
01	VBLKUT	138232		12.32		168085		9.86		60182		14.11	
02	VHBLKYE	131187		12.32		160435		9.86		57796		14.11	
03													
04													
05													
06													
07													
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21													
22													

IS1 (CBZ) = Chlorobenzene-d_5
IS2 (DFB) = 1,4 Difluorobenzene
IS3 (DCB) = 1,4 Dichlorobenzene-d_4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT
Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RR Date Analyzed: 08/23/2007

Lab File ID (Standard): GW070823A90 Time Analyzed: 13:46

Instrument ID: 5973HP90 Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	337930		12.34		373743		9.84		180225		14.13	
	UPPER LIMIT	473102		12.67		523240		10.17		252315		14.46	
	LOWER LIMIT	202758		12.01		224246		9.51		108135		13.80	
	EPA SAMPLE NO.												
01	VBLKRR	318882		12.34		361027		9.84		165098		14.13	
02	Y3ES6	306813		12.34		341235		9.84		163907		14.13	
03	Y3ES7	317440		12.34		347672		9.84		167716		14.13	
04	Y3ES8	315822		12.34		345472		9.84		171900		14.13	
05	Y3ES9	315460		12.34		344341		9.84		167402		14.13	
06	Y3ET0	335096		12.34		362242		9.84		181190		14.13	
07	Y3ET2	318738		12.34		345210		9.84		173154		14.13	
08	Y3ET2MS	338101		12.35		362317		9.84		177441		14.13	
09	Y3ET2MSD	336875		12.35		351876		9.84		177184		14.13	
10	Y3ET3	328126		12.34		352571		9.84		178348		14.13	
11	Y3ET4	330157		12.35		350697		9.84		178886		14.13	
12	Y3ET5	333055		12.34		359503		9.84		182843		14.13	
13													
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22													

IS1 (CBZ) = Chlorobenzene-d_5
IS2 (DFB) = 1,4 Difluorobenzene
IS3 (DCB) = 1,4 Dichlorobenzene-d_4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT
Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RT Date Analyzed: 08/24/2007

Lab File ID (Standard): GS070824A90 Time Analyzed: 10:04

Instrument ID: 5973HP90 Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	386712		12.34		416549		9.84		202605		14.13	
	UPPER LIMIT	541397		12.67		583169		10.17		283647		14.46	
	LOWER LIMIT	232027		12.01		249929		9.51		121563		13.80	
	EPA SAMPLE NO.												
01	VBLKRT	371350		12.34		411355		9.84		196959		14.13	
02	Y3ET6	360992		12.34		394746		9.84		192820		14.13	
03	Y3ET7	364209		12.34		386490		9.84		197001		14.13	
04	Y3EW1	357362		12.34		374631		9.84		192226		14.13	
05													
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22													

IS1 (CBZ) = Chlorobenzene-d_5
IS2 (DFB) = 1,4 Difluorobenzene
IS3 (DCB) = 1,4 Dichlorobenzene-d_4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT
Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RV Date Analyzed: 08/27/2007

Lab File ID (Standard): GS070827A90 Time Analyzed: 10:16

Instrument ID: 5973HP90 Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	411946	12.35	448167	9.84	222021	14.14
	UPPER LIMIT	576724	12.68	627434	10.17	310829	14.47
	LOWER LIMIT	247168	12.02	268900	9.51	133213	13.81
	EPA SAMPLE NO.						
01	VBLKRV	389716	12.34	429677	9.84	205519	14.13
02	Y3ET8	368034	12.34	398982	9.84	194044	14.13
03	Y3ET9	377144	12.34	387508	9.84	201088	14.13
04	Y3EW0	373240	12.34	388006	9.84	210170	14.13
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22							

IS1 (CBZ) = Chlorobenzene-d_5
IS2 (DFB) = 1,4 Difluorobenzene
IS3 (DCB) = 1,4 Dichlorobenzene-d_4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT
Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RX Date Analyzed: 08/29/2007

Lab File ID (Standard): GS070829A90 Time Analyzed: 11:15

Instrument ID: 5973HP90 Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	327888		12.34		337231		9.84		186663		14.14	
	UPPER LIMIT	459043		12.67		472123		10.17		261328		14.47	
	LOWER LIMIT	196733		12.01		202339		9.51		111998		13.81	
	EPA SAMPLE NO.												
01	VBLKRX	300527		12.34		317343		9.84		171749		14.13	
02	Y3ET1	292000		12.34		303285		9.84		167345		14.13	
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (CBZ) = Chlorobenzene-d_5
IS2 (DFB) = 1,4 Difluorobenzene
IS3 (DCB) = 1,4 Dichlorobenzene-d_4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT
Column used to flag values outside QC limits with an asterisk.

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I, VOA-1, VOA-2 and Form I VOA-TIC), followed by the raw data for volatile samples. These sample packets shall be placed in increasing EPA Sample ID number order, considering both letters and numbers.

a. Target Compound Results
(Form I, VOA-1, VOA-2)
Tabulated results (identification and quantitation) shall be included.

b. Tentatively Identified Compounds (Form I VOA-TIC)
Lists up to 30 organic compounds that are not target compounds, DMCs or internal standard compounds, or alkanes and are not listed on the volatile and semivolatile target compound list. This form shall be included even if no compounds are found.

c. Reconstructed Total Ion Chromatograms
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: EPA Sample Number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

d. Quantitation Report showing calculations for TCL analytes
- Include a printout of the EICP for all manual changes to all compounds, internal standards, and system monitoring compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of TCL analytes identified in the sample.
- The spectra shall include the following information: EPA Sample Number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

f. Quantitation Report showing calculations for TICs

g. Copies of mass spectra of organic compounds not listed in Exhibit C with associated best-match spectra.

Spectra shall be labeled as follows: EPA Sample ID number, lab file ID, date and time of analysis, and instrument ID. The compound name must be clearly marked.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363701

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363701A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.15	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363701

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363701A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ES6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363701

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363701A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. _____ Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

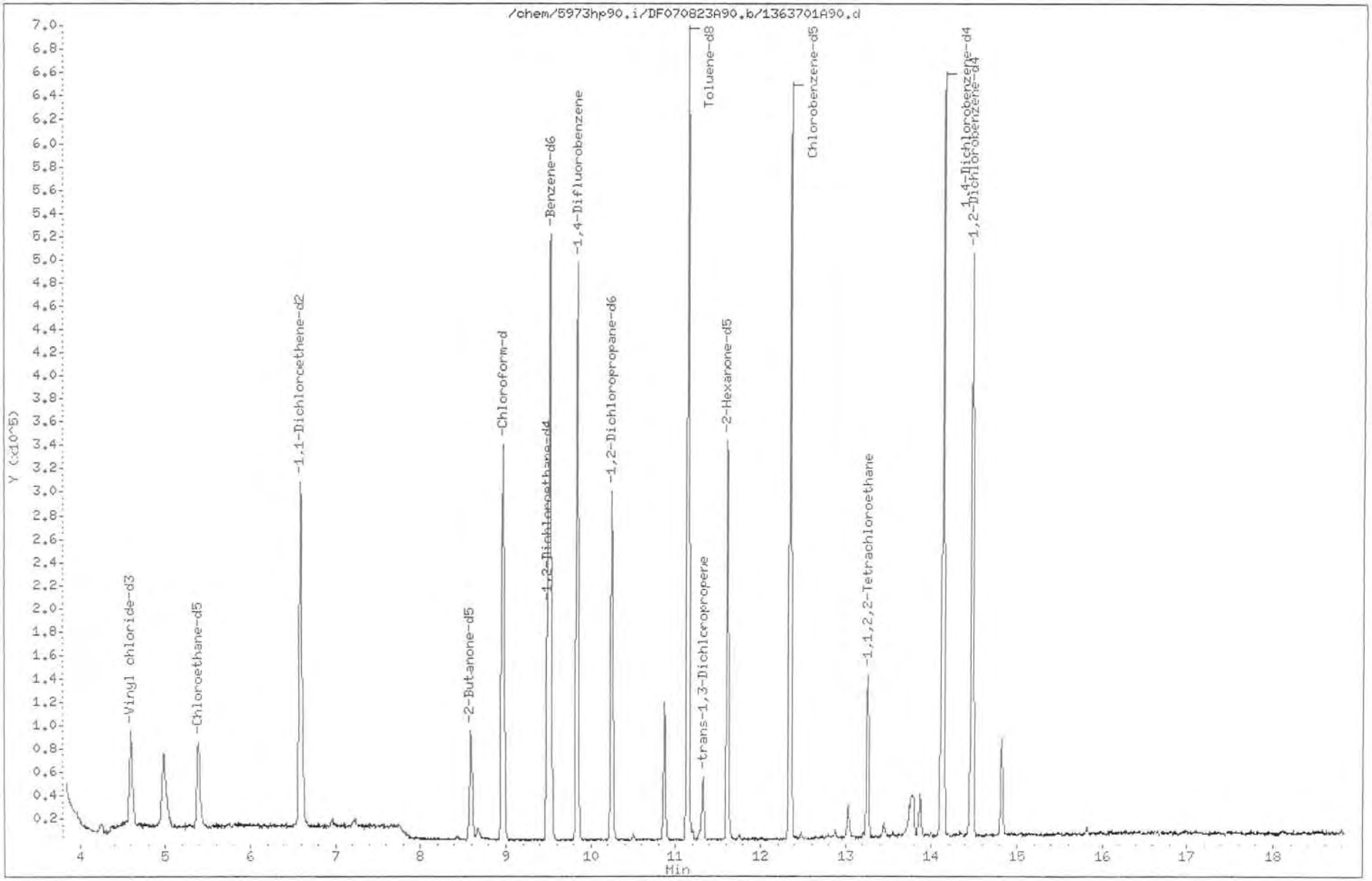
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	14.82	0.67	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Date : 23-AUG-2007 14:51
Client ID: Y3ES6
Instrument: 5973hp90.i
Sample Info: 1363701:2481
Purge Volume: 25.0
Operator: 2481
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Report Date: 03-Sep-2007 10:01

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Lab Smp Id: 1363701 Client Smp ID: Y3ES6
Inj Date : 23-AUG-2007 14:51
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363701:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Difluorobenzene	114	9.838	9.841	(1.000)	341235	125.000	
*	2 Chlorobenzene-d5	117	12.344	12.341	(1.000)	306813	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.133	14.130	(1.000)	163907	125.000	
$	4 Vinyl chloride-d3	65	4.600	4.597	(0.468)	117465	136.853	5.5
$	5 Chloroethane-d5	69	5.391	5.388	(0.548)	100048	138.793	5.6
$	6 1,1-Dichloroethene-d2	63	6.595	6.599	(0.670)	257407	110.441	4.4
$	7 2-Butanone-d5	46	8.591	8.588	(0.873)	128886	1004.41	40
$	8 Chloroform-d	84	8.968	8.965	(0.912)	306228	131.422	5.3
$	9 1,2-Dichloroethane-d4	65	9.491	9.494	(0.965)	137367	128.854	5.2
$	10 Benzene-d6	84	9.522	9.519	(0.771)	443586	137.438	5.5
$	11 1,2-Dichloropropane-d6	67	10.252	10.249	(0.830)	119992	130.584	5.2
$	12 Toluene-d8	98	11.146	11.143	(0.903)	439498	137.113	5.5
$	13 trans-1,3-Dichloropropene-d4	79	11.322	11.325	(0.917)	32360	109.008	4.4
$	14 2-Hexanone-d5	63	11.608	11.611	(0.940)	103269	1028.73	41
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.257	13.260	(1.074)	63629	120.184	4.8
$	17 1,2-Dichlorobenzene-d4	152	14.473	14.471	(1.024)	132547	119.391	4.8
	18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Report Date: 03-Sep-2007 10:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.228	7.225	(0.735)	4229	3.75502	0.15(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Report Date: 03-Sep-2007 10:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d

Date : 23-AUG-2007 14:51

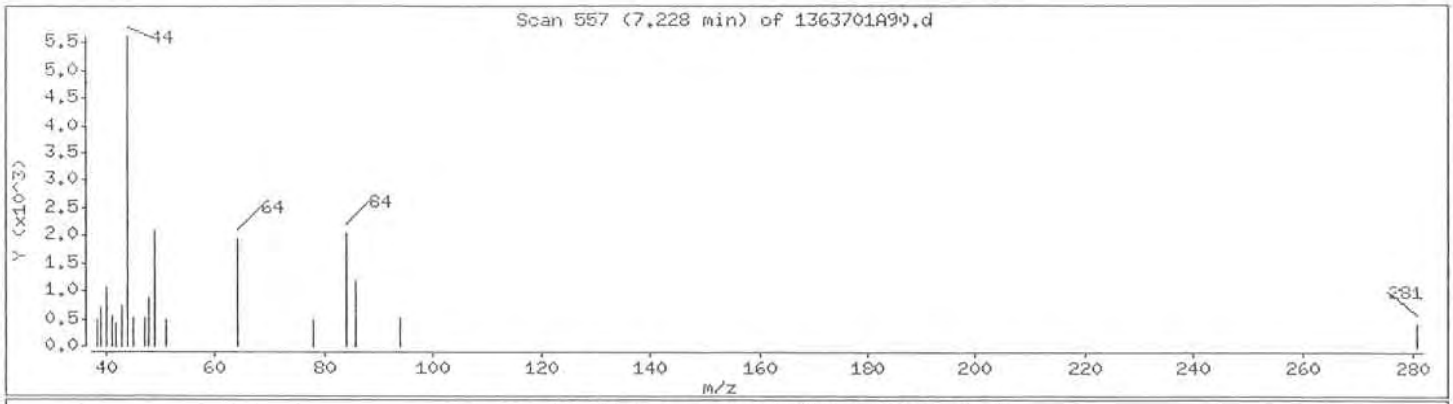
Client ID: Y3ES6 Instrument: 5973hp90.i

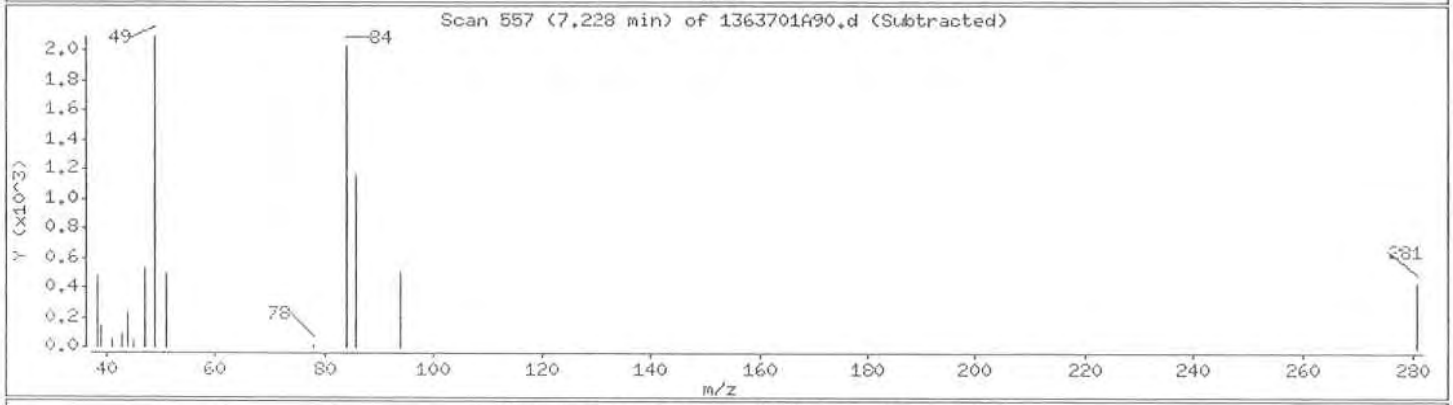
Sample Info: 1363701;2481

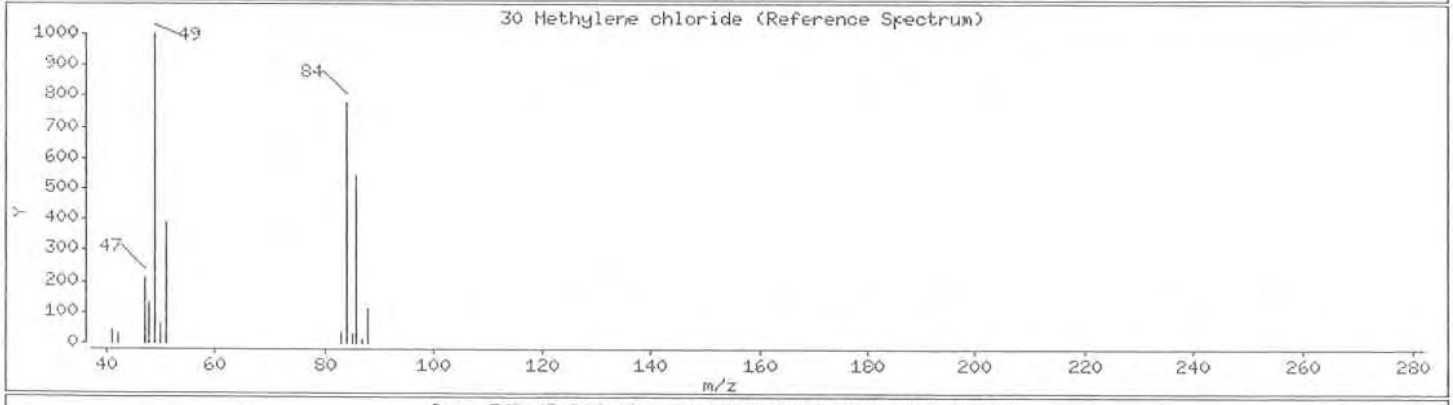
Purge Volume: 25.0 Operator: 2481

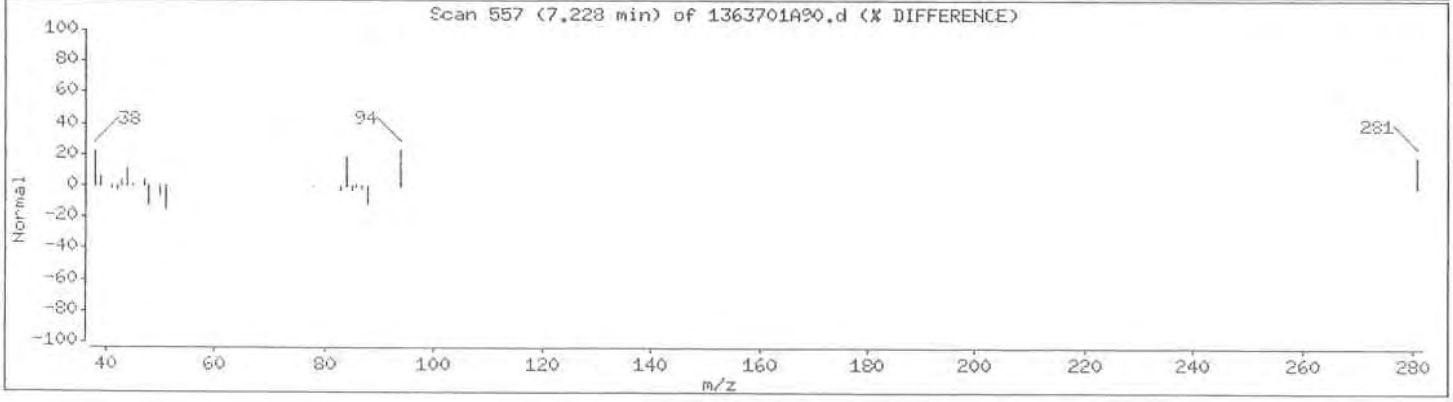
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.15 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Report Date: 03-Sep-2007 10:01

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363701A90.d
Lab Smp Id: 1363701 Client Smp ID: Y3ES6
Inj Date : 23-AUG-2007 14:51
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363701:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 3 1,4-Dichlorobenzene-d4	14.133	1292330	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
14.820	172447	16.6798658	0.67	0		0	3

Data File: /chem/5973hp90.i/DF070823A90.b/1363701A90.d

Date : 23-AUG-2007 14:51

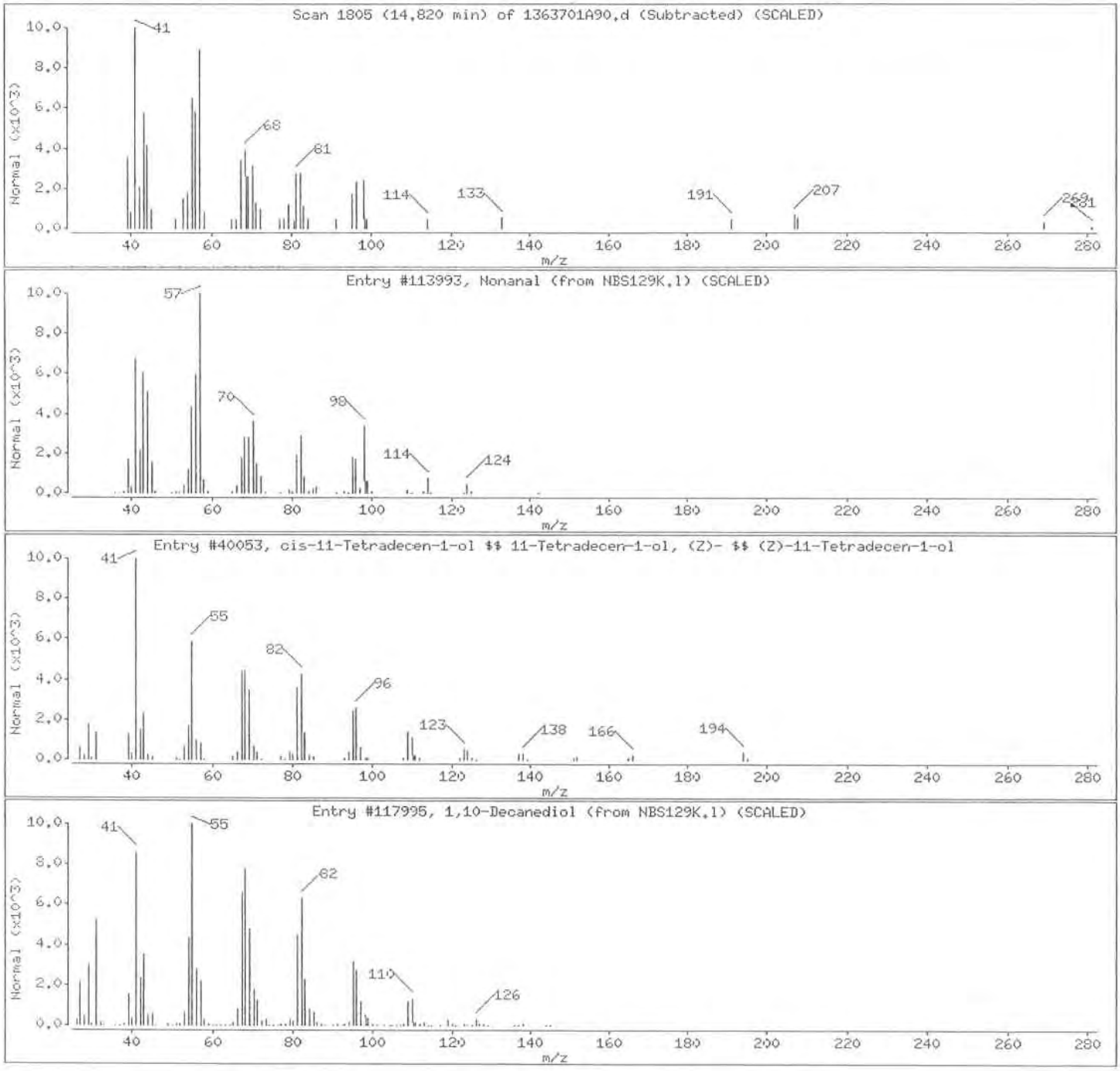
Client ID: Y3ES6 Instrument: 5973hp90.i

Sample Info: 1363701:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Nonanal	124-19-6	NBS129K.l	113993	72	C9H18O	142
cis-11-Tetradecen-1-ol $$ 11-Tetradecen-	34010-15-6	NBS129K.l	40053	27	C14H28O	212
1,10-Decanediol	112-47-0	NBS129K.l	117995	27	C10H22O2	174



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363702

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363702A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	3.6	J
75-15-0	Carbon disulfide	0.79	
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.28	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.16	J
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363702

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363702A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.12	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.15	J
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ES7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363702

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363702A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

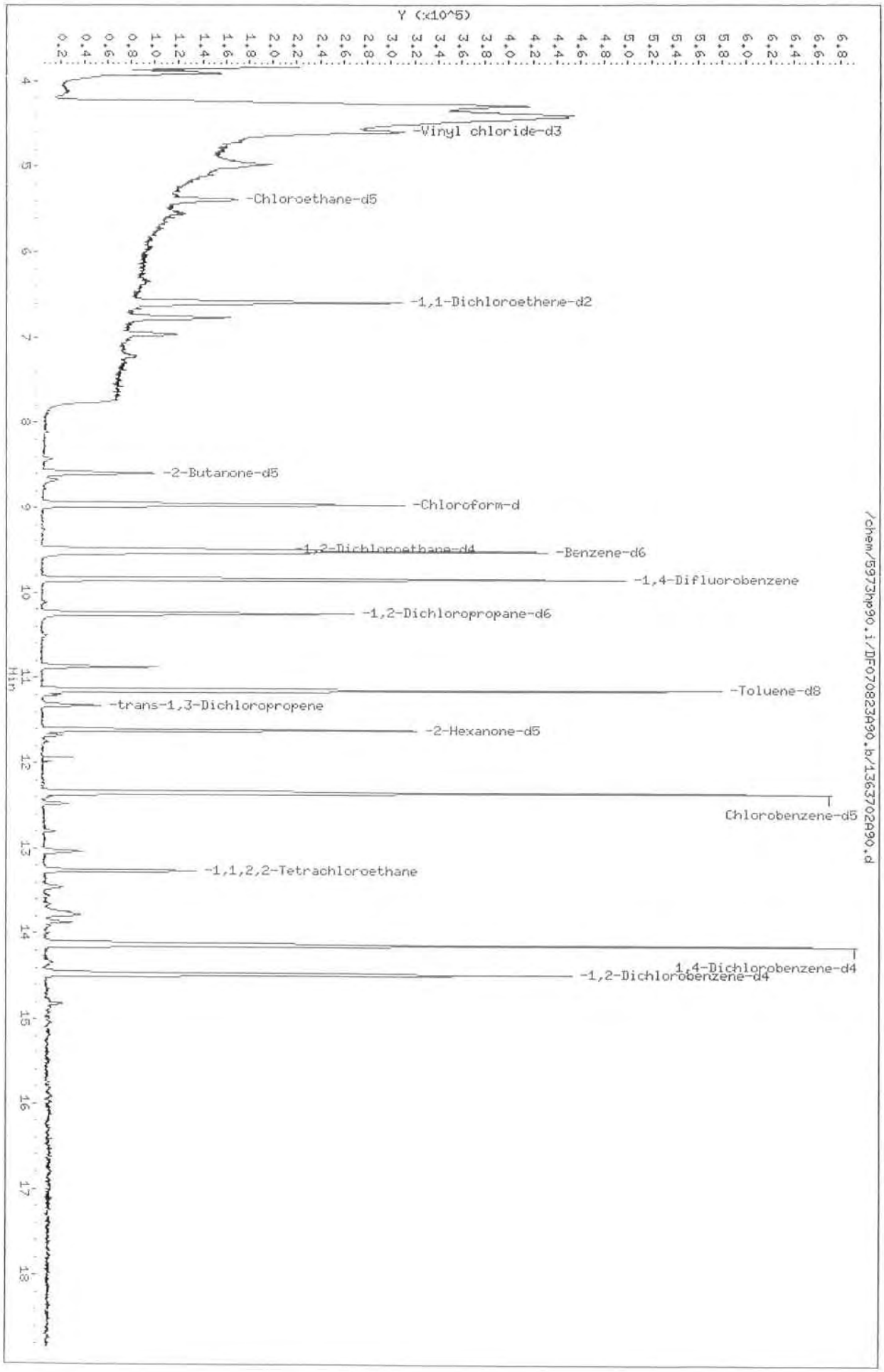
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.41	110	J
02	75-18-3	Dimethyl sulfide	6.76	5.9	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.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Client ID: Y3E97
Sample Info: 1363702;2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-Toluene-d8
-trans-1,3-Dichloropropene
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
/chem/5973hp90.i/DF070823A90.b/1363702A90.d
Min

Data File: /chem/5973hp90.i/DF070823A90.b/1363702A90.d
Report Date: 03-Sep-2007 10:03

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363702A90.d
Lab Smp Id: 1363702 Client Smp ID: Y3ES7
Inj Date : 23-AUG-2007 15:20
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363702:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.842	9.841	(1.000)	347672	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.341	(1.000)	317440	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	167716	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.597	(0.467)	121309	138.715	5.5
$ 5	Chloroethane-d5	69	5.395	5.388	(0.548)	78299	106.610	4.3
$ 6	1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	192711	81.1520	3.2
$ 7	2-Butanone-d5	46	8.595	8.588	(0.873)	120834	924.230	37
$ 8	Chloroform-d	84	8.966	8.965	(0.911)	264821	111.548	4.5
$ 9	1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	124211	114.356	4.6
$ 10	Benzene-d6	84	9.519	9.519	(0.771)	367441	110.035	4.4
$ 11	1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	103890	109.275	4.4
$ 12	Toluene-d8	98	11.144	11.143	(0.903)	357026	107.655	4.3
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	28673	93.3542	3.7
$ 14	2-Hexanone-d5	63	11.612	11.611	(0.941)	97605	939.755	38
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	57801	105.521	4.2
$ 17	1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	114856	101.106	4.0
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363702A90.d
Report Date: 03-Sep-2007 10:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	6.660	6.653	(0.677)	7035	90.1510	3.6(aM)
27 Carbon disulfide	76	6.970	6.970	(0.708)	84570	19.7782	0.79
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.232	7.225	(0.735)	8008	6.97882	0.28(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	9.562	9.561	(0.775)	13887	4.02246	0.16(a)
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	11.198	11.204	(0.907)	11227	2.92213	0.12(a)
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	11.679	11.678	(0.946)	3260	3.74657	0.15(a)
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

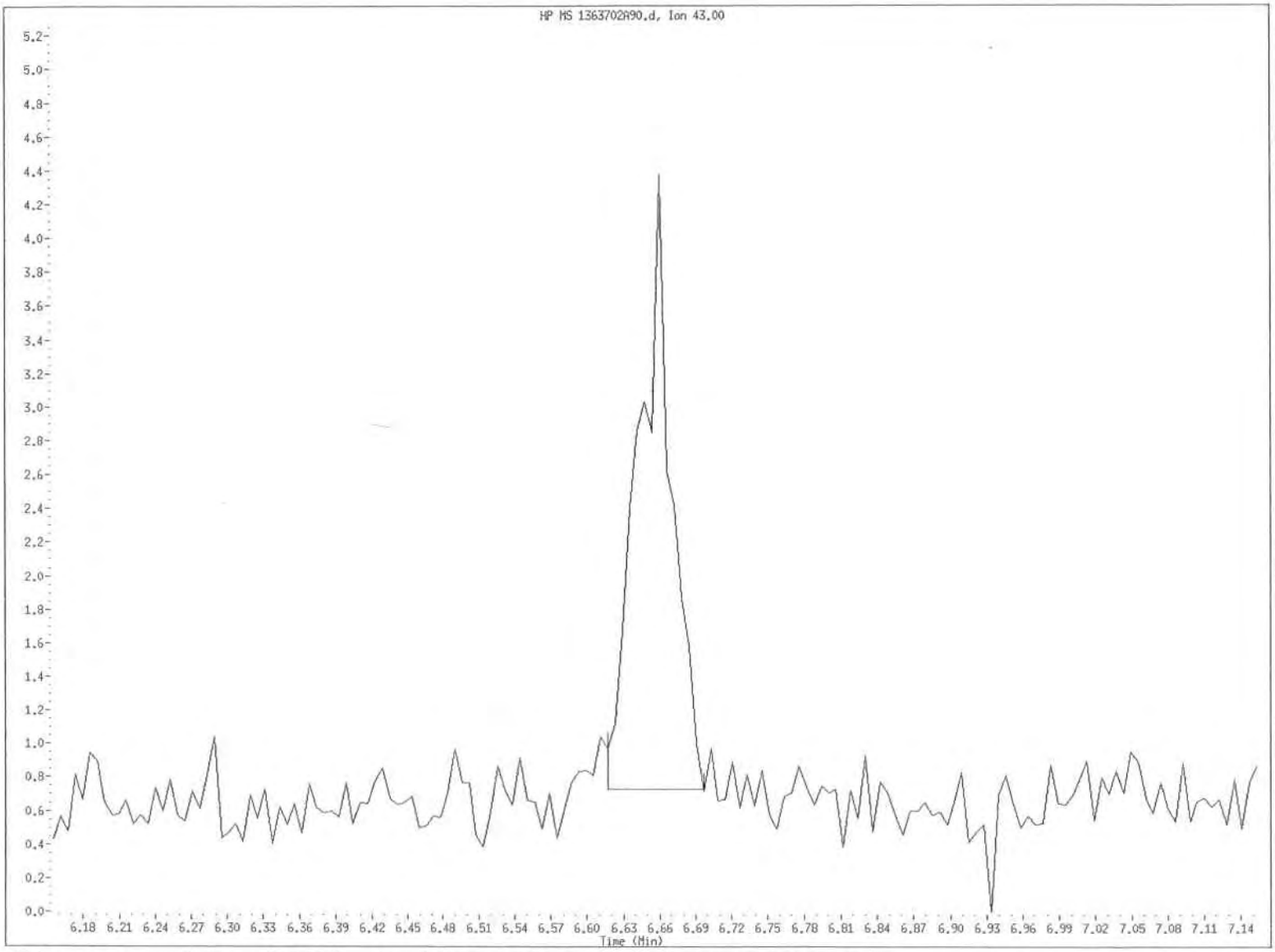
Data File: /chem/5973hp90.i/DF070823A90.b/1363702A90.d
Report Date: 03-Sep-2007 10:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

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

Acetone CAS Number 67-64-1 Area = 7035 Manually integrated



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Client ID: Y3ES7
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 15:20
Retention Time: 6.66
Operator ID: 2481

Data File: /chem/5973hp90.i/DF070823A90.b/1363702A90.d

Date : 23-AUG-2007 15:20

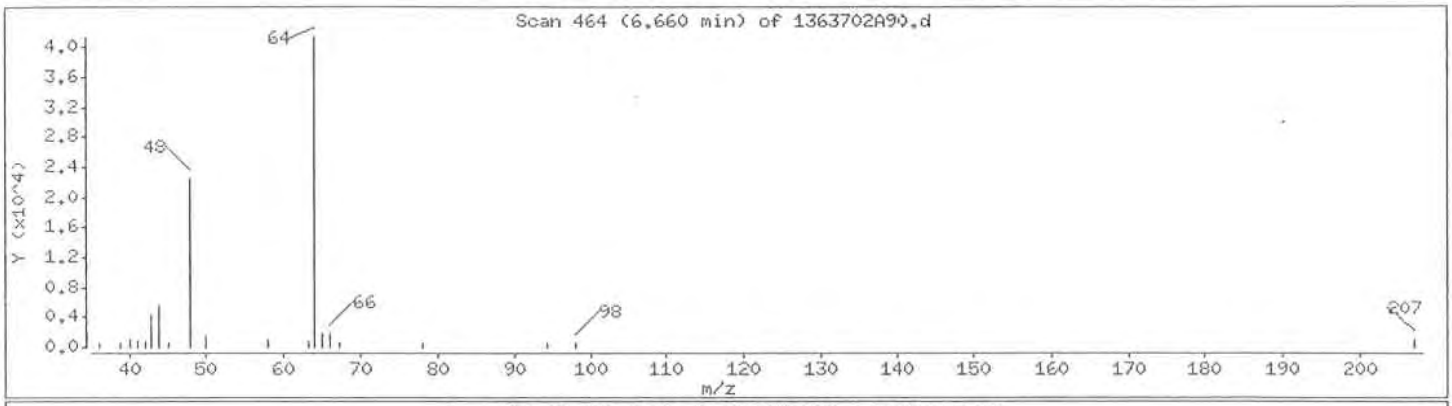
Client ID: Y3ES7 Instrument: 5973hp90.i

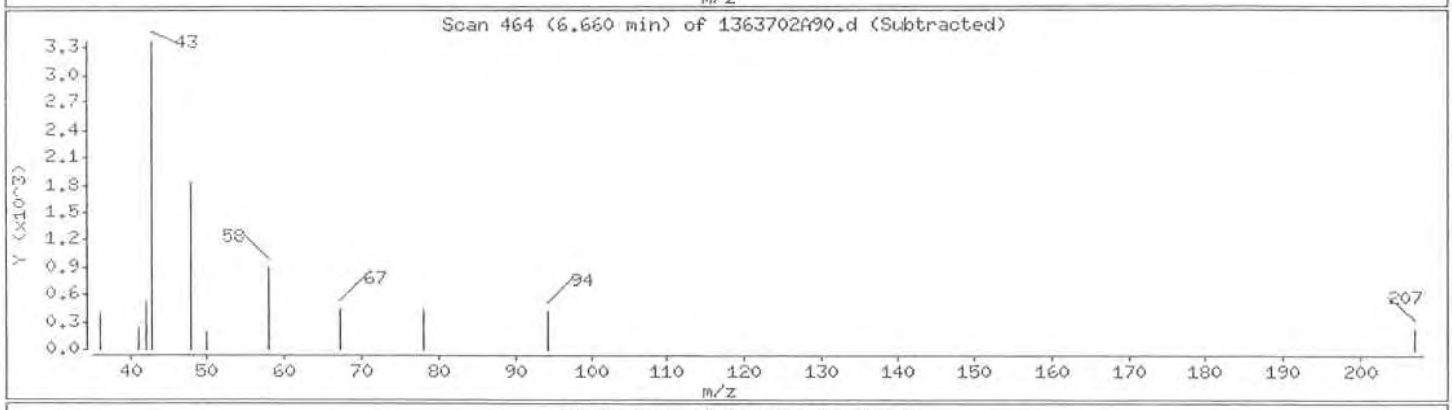
Sample Info: 1363702:2481

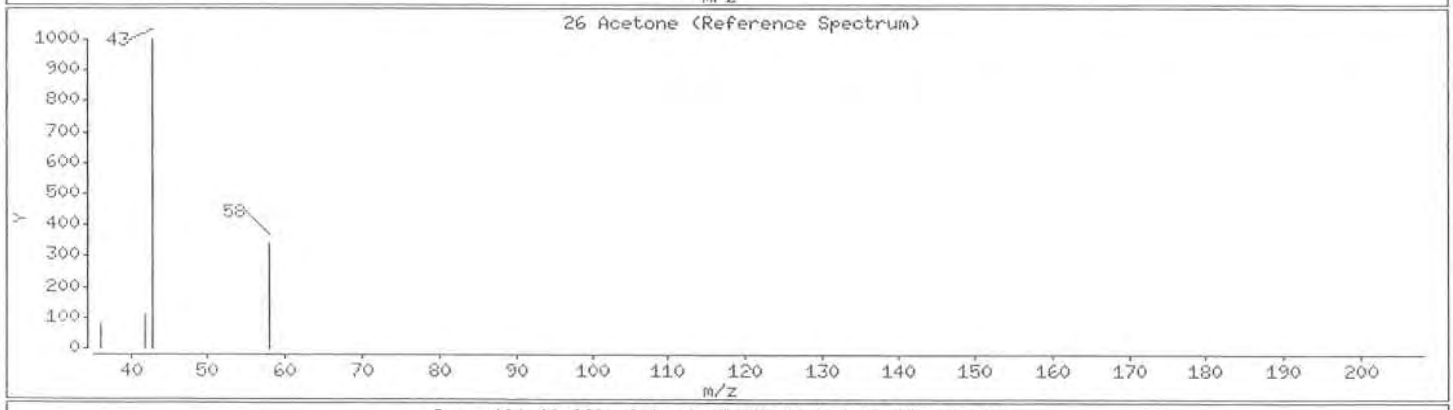
Purge Volume: 25.0 Operator: 2481

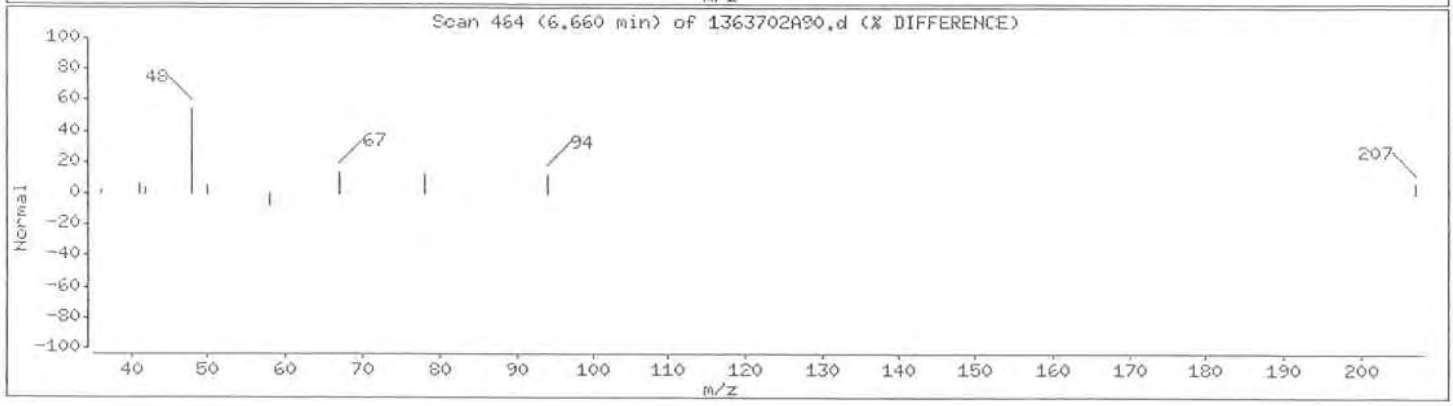
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 3.6 ug/L









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Date : 23-AUG-2007 15:20

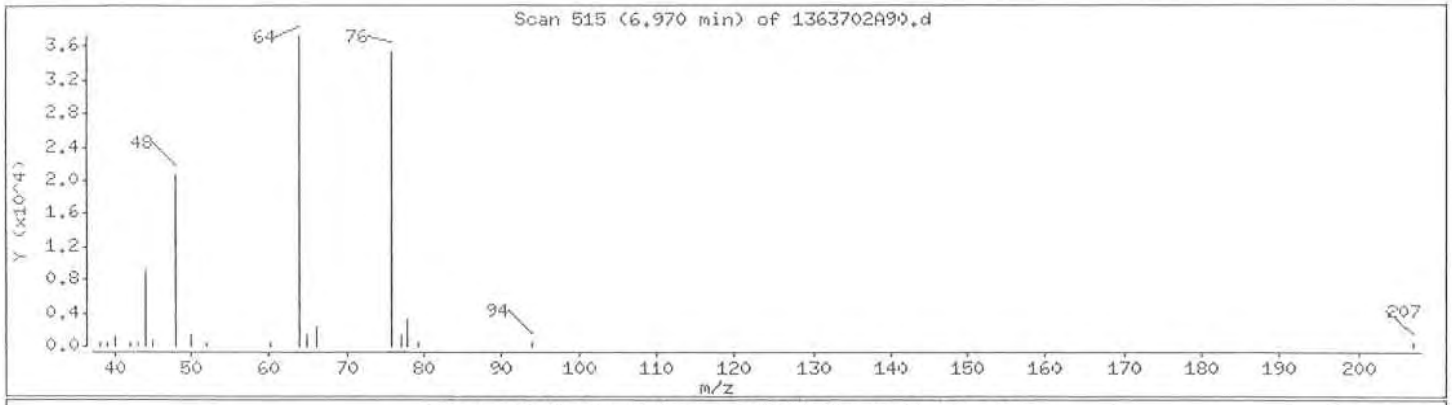
Client ID: Y3ES7 Instrument: 5973hp90.i

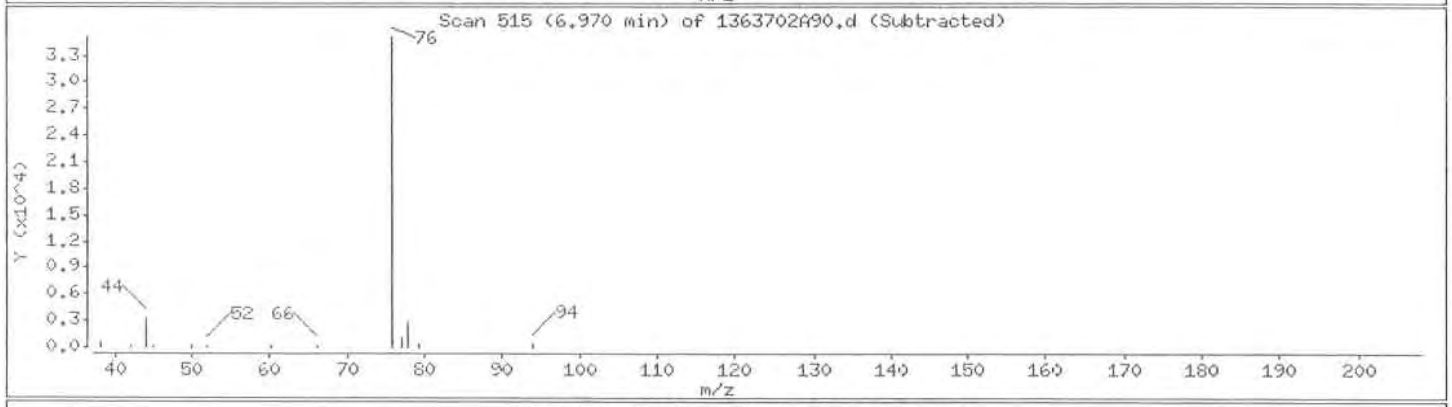
Sample Info: 1363702:2481

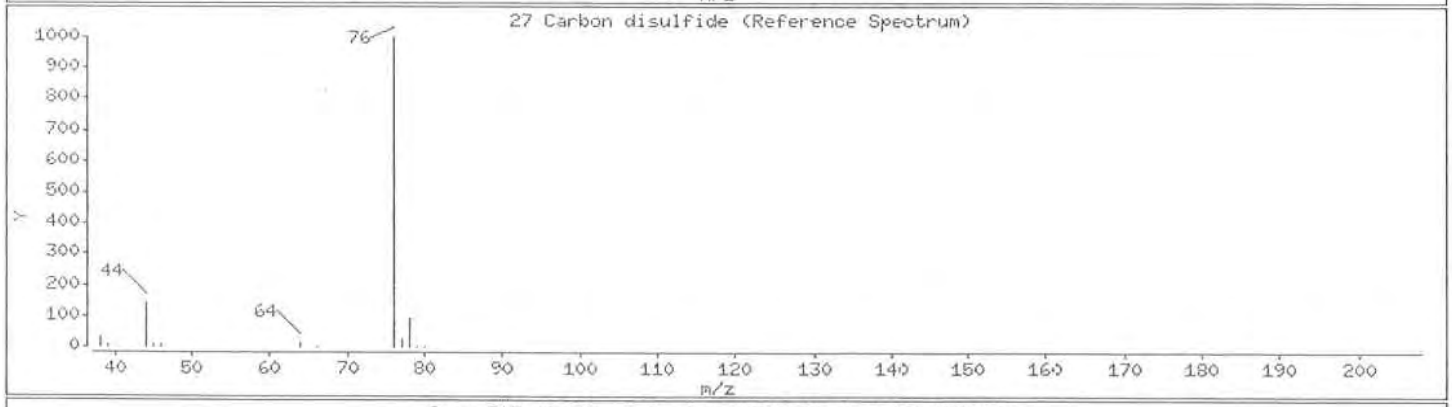
Purge Volume: 25.0 Operator: 2481

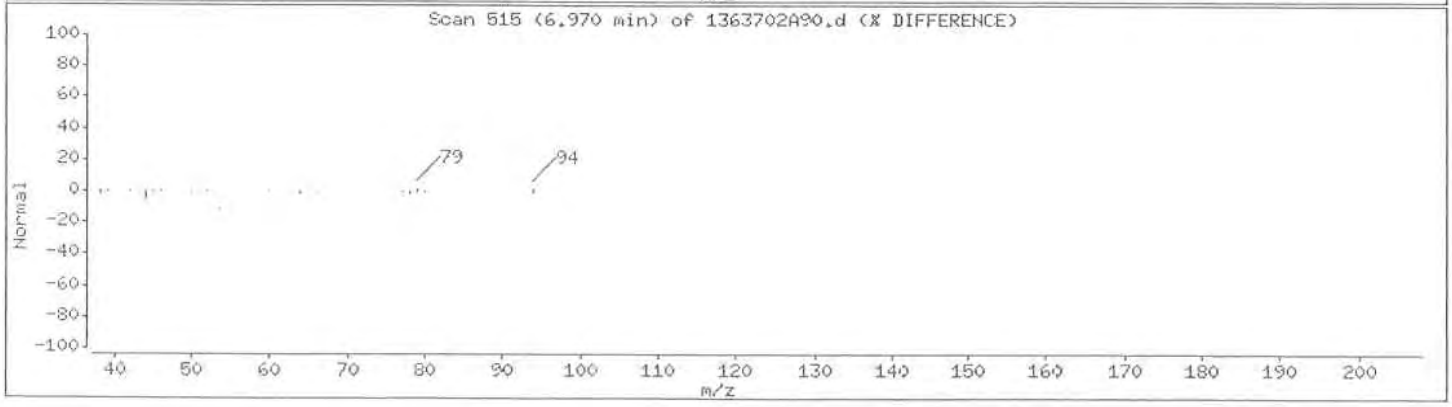
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.79 ug/L









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Date : 23-AUG-2007 15:20

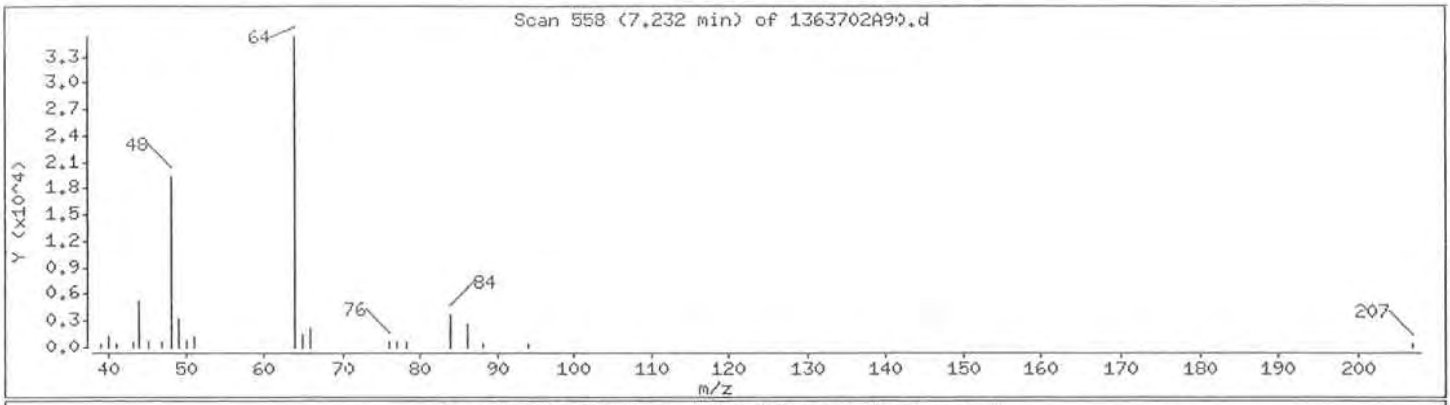
Client ID: Y3ES7 Instrument: 5973hp90.i

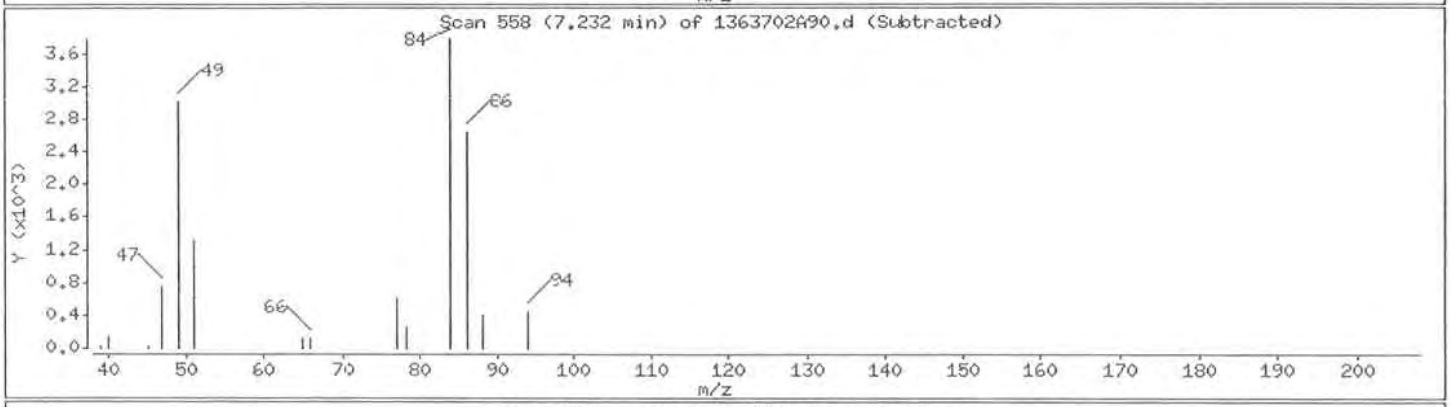
Sample Info: 1363702:2481

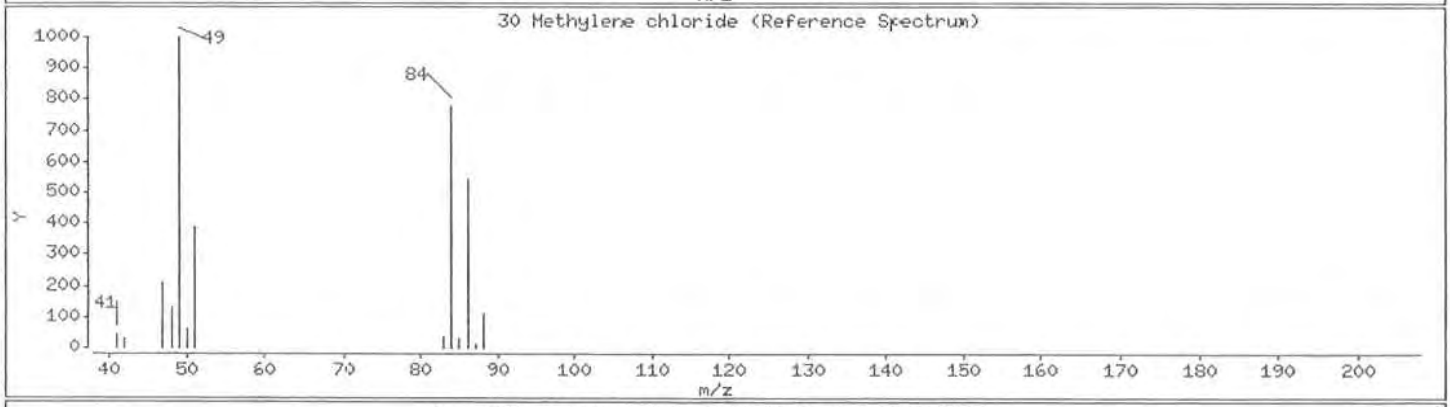
Purge Volume: 25.0 Operator: 2481

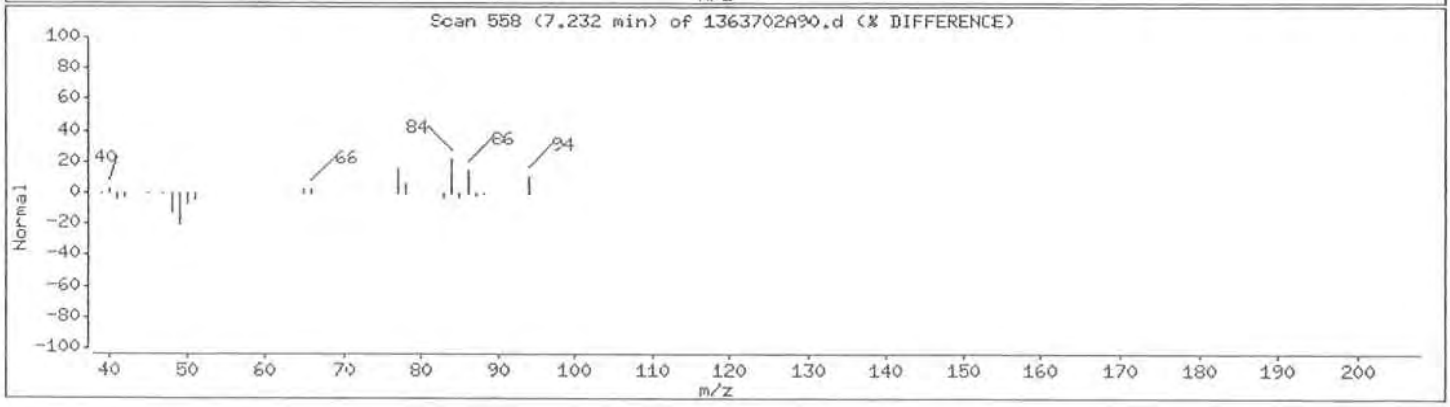
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.28 ug/L









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Date : 23-AUG-2007 15:20

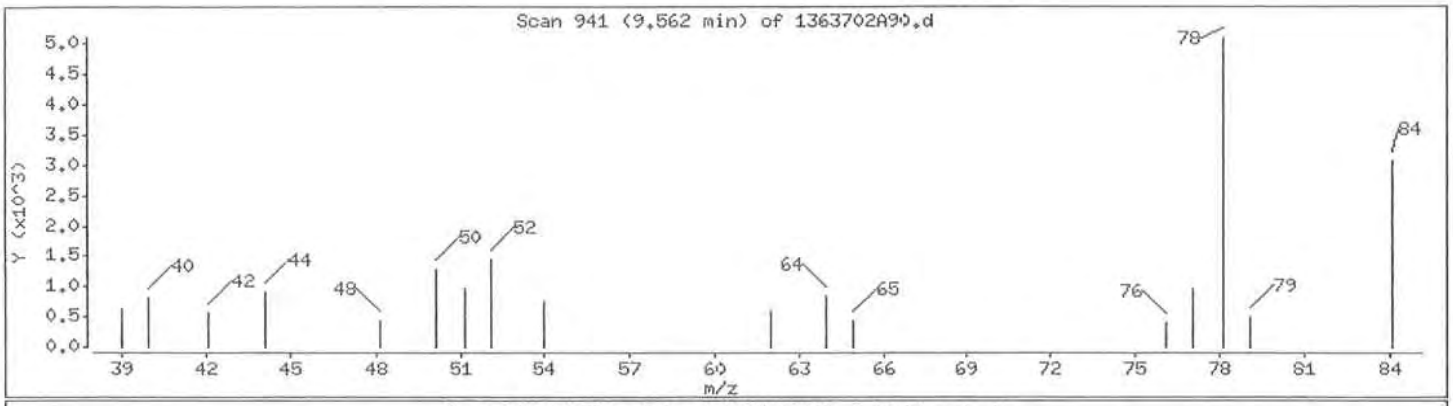
Client ID: Y3ES7 Instrument: 5973hp90.i

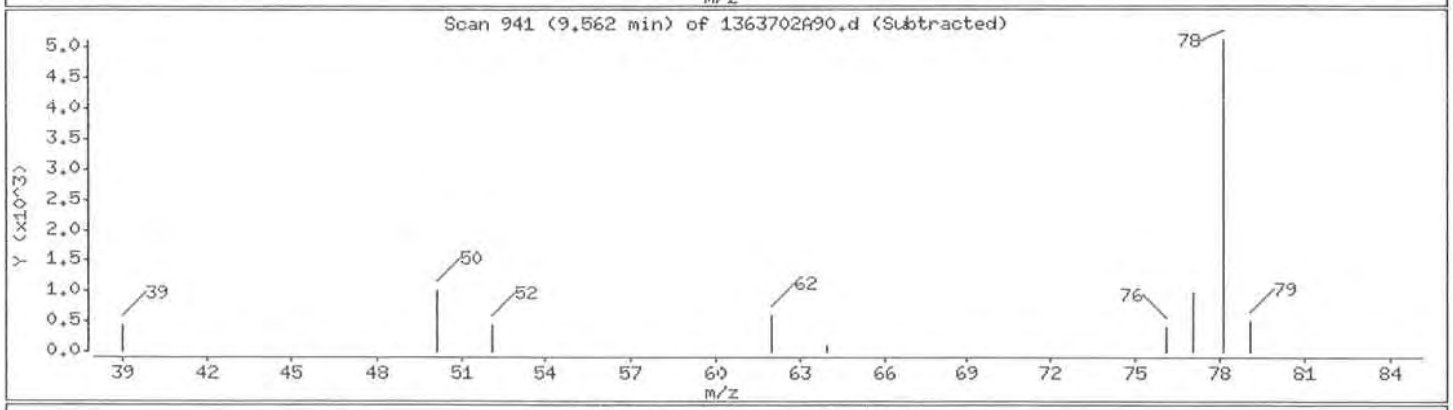
Sample Info: 1363702:2481

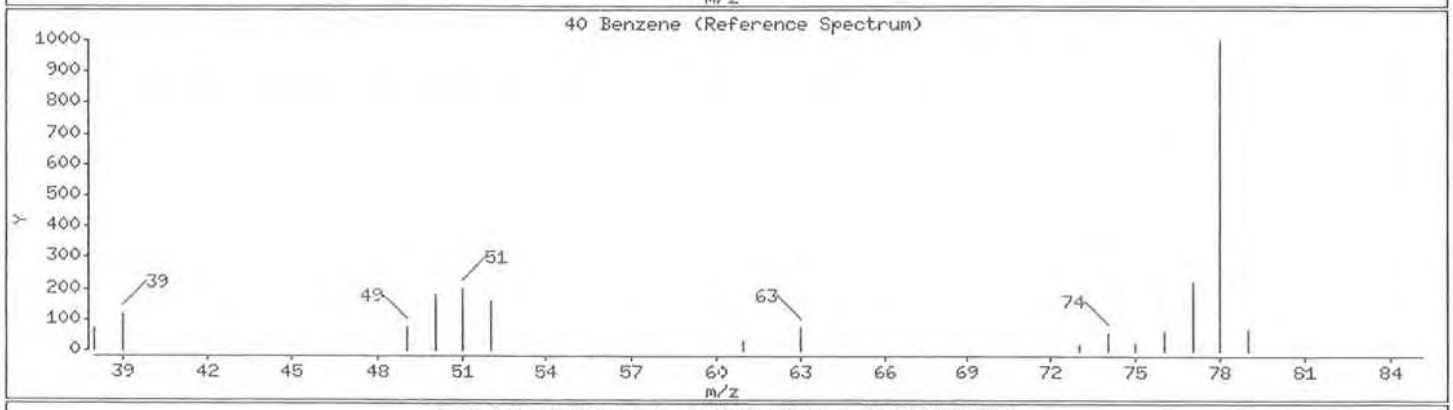
Purge Volume: 25.0 Operator: 2481

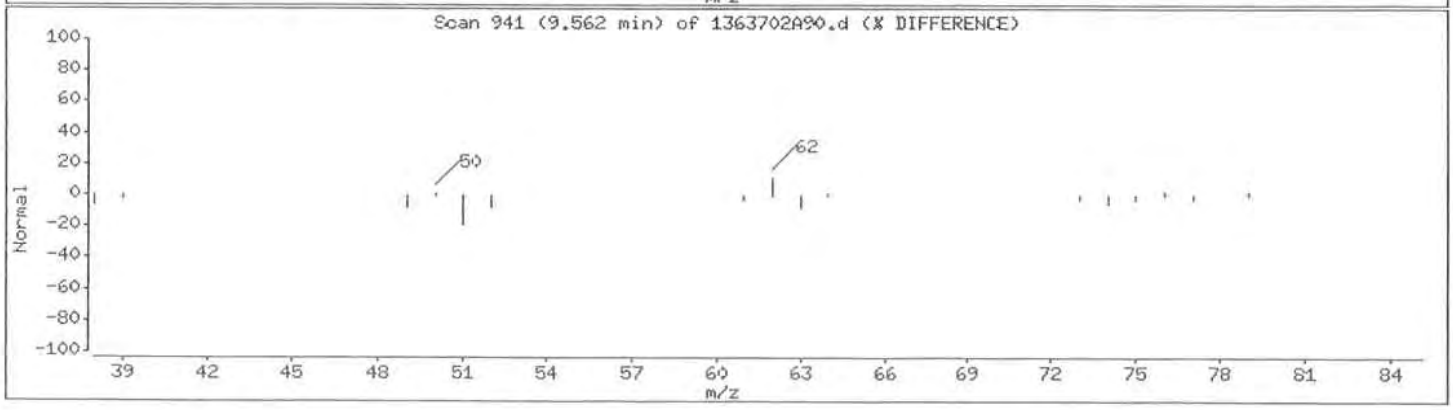
Column phase: SPB-624 Column diameter: 0.32

40 Benzene Concentration: 0.16 ug/L









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Date : 23-AUG-2007 15:20

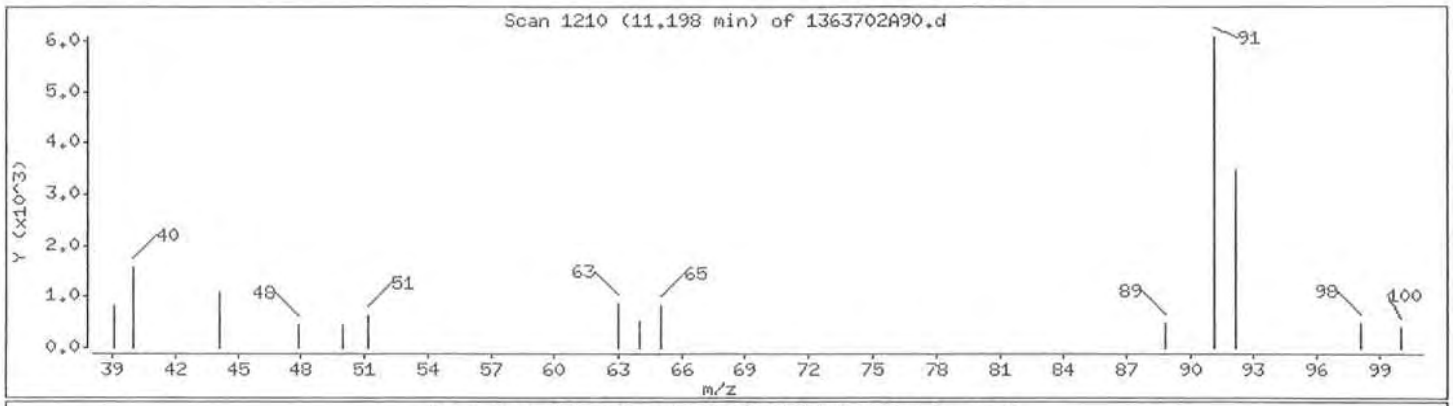
Client ID: Y3ES7 Instrument: 5973hp90.i

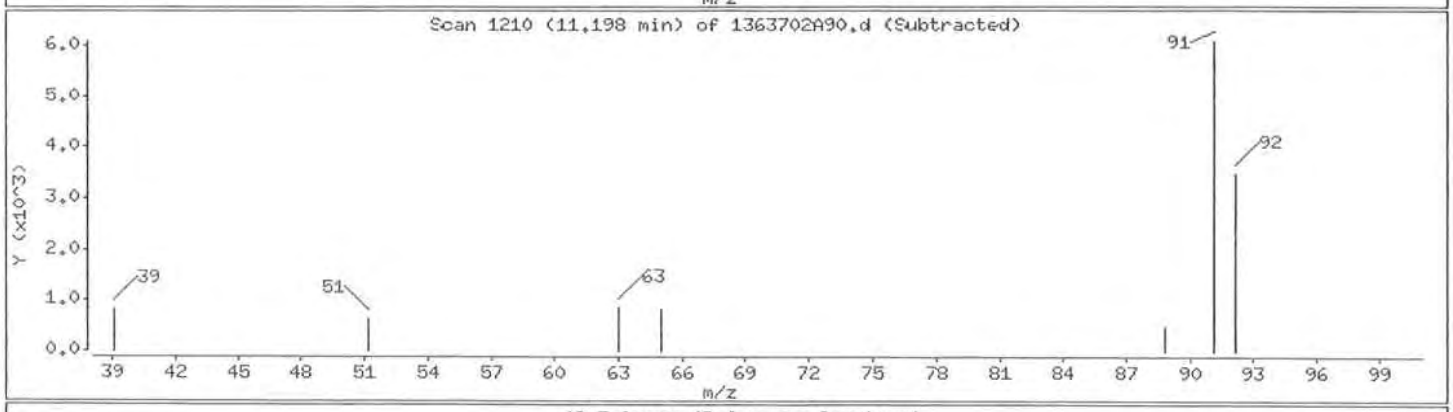
Sample Info: 1363702:2481

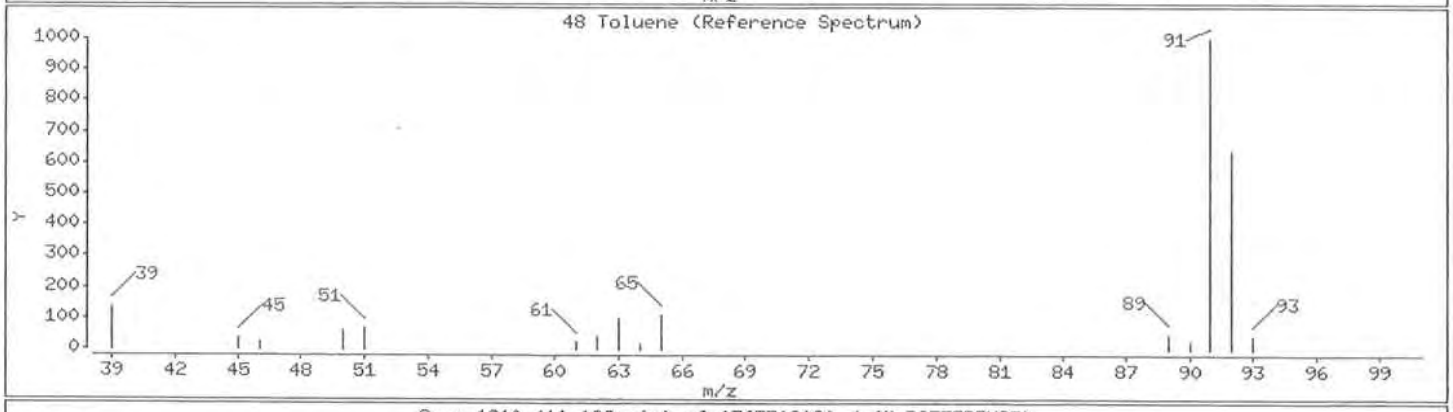
Purge Volume: 25.0 Operator: 2481

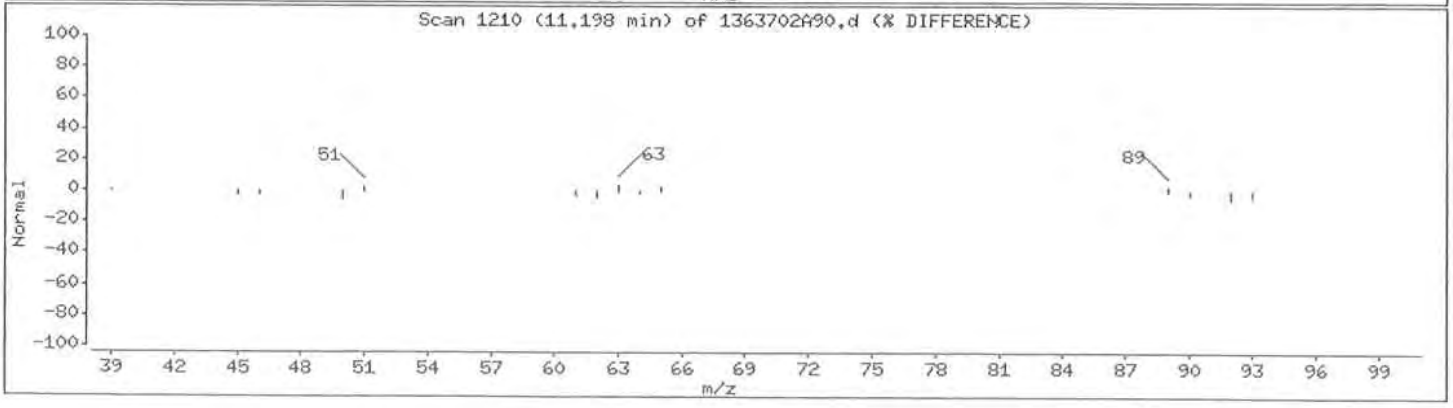
Column phase: SPB-624 Column diameter: 0.32

48 Toluene Concentration: 0.12 ug/L









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Date : 23-AUG-2007 15:20

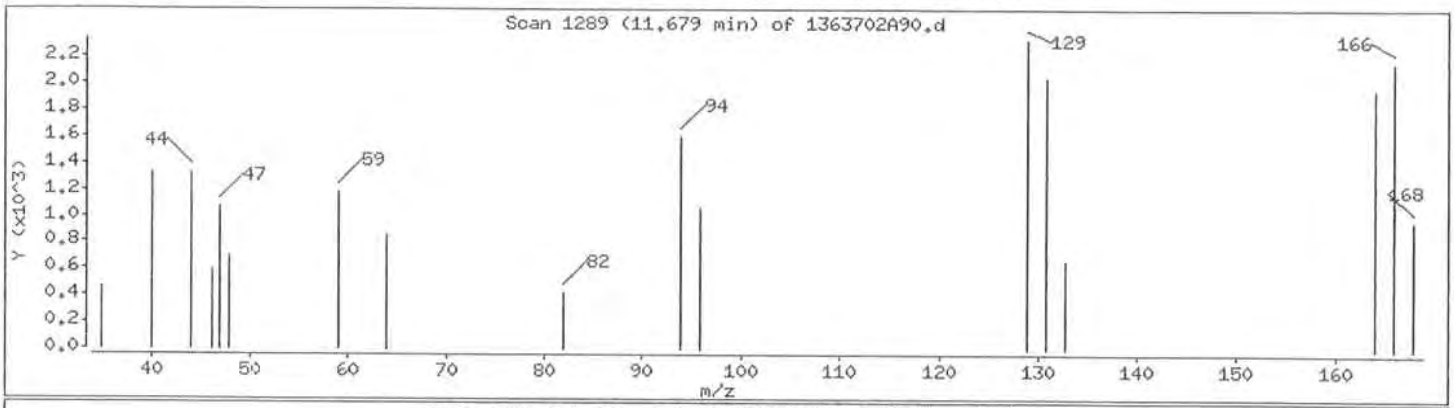
Client ID: Y3ES7 Instrument: 5973hp90.i

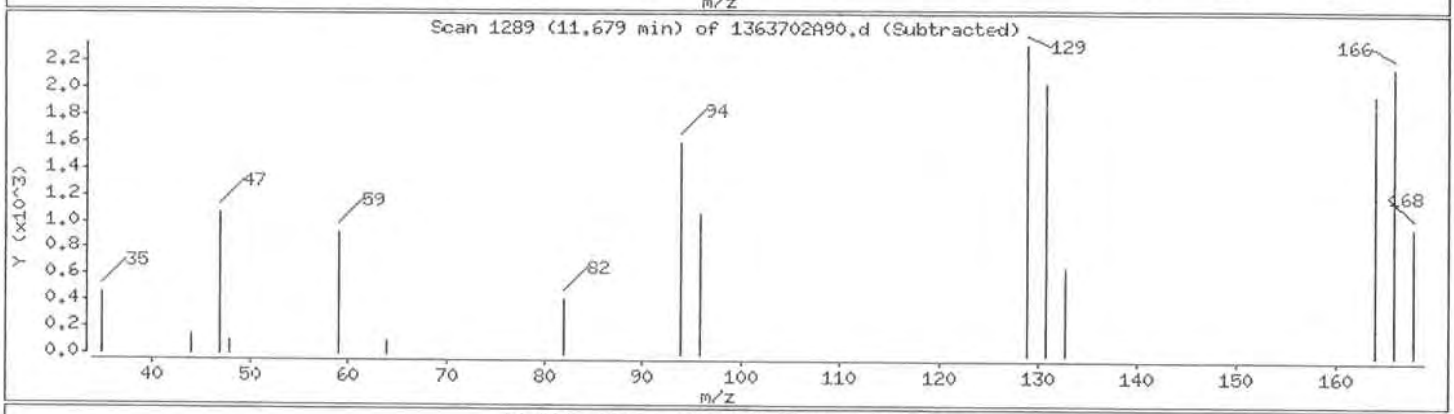
Sample Info: 1363702:2481

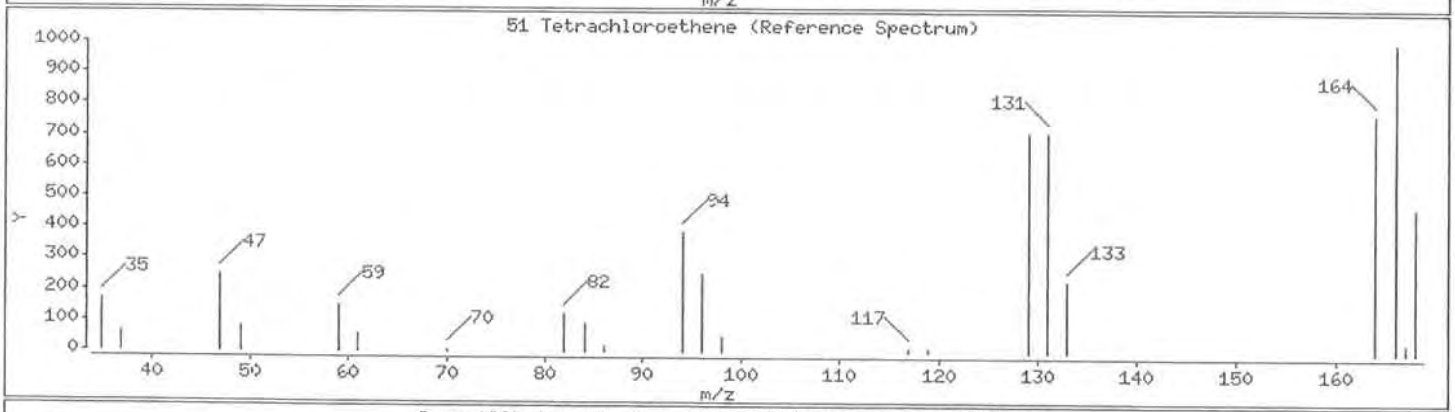
Purge Volume: 25.0 Operator: 2481

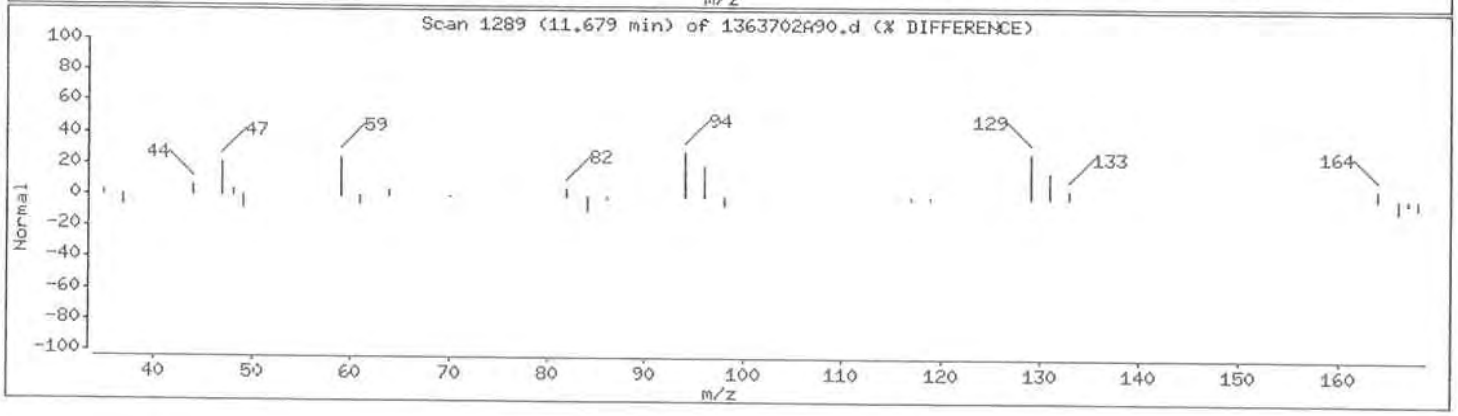
Column phase: SPB-624 Column diameter: 0.32

51 Tetrachloroethene Concentration: 0.15 ug/L









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Report Date: 03-Sep-2007 10:03

CompuChem

OLC03 QUANT AND RATIO REPORT

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Inj Date : 23-AUG-2007 15:20
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363702:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	917261	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.409	20108480	2740.28796	110	0		0	1
Dimethyl sulfide			CAS #: 75-18-3				
6.764	1080561	147.253755	5.9	90	NBS129K.1	108070	1

Data File: /chem/5973hp90.i/DF070823A90.b/1363702A90.d

Date : 23-AUG-2007 15:20

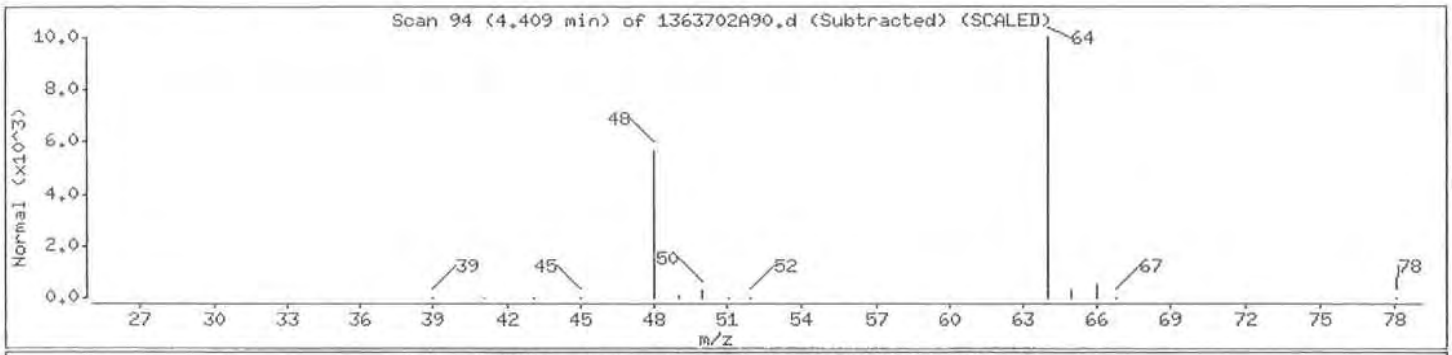
Client ID: Y3ES7 Instrument: 5973hp90.i

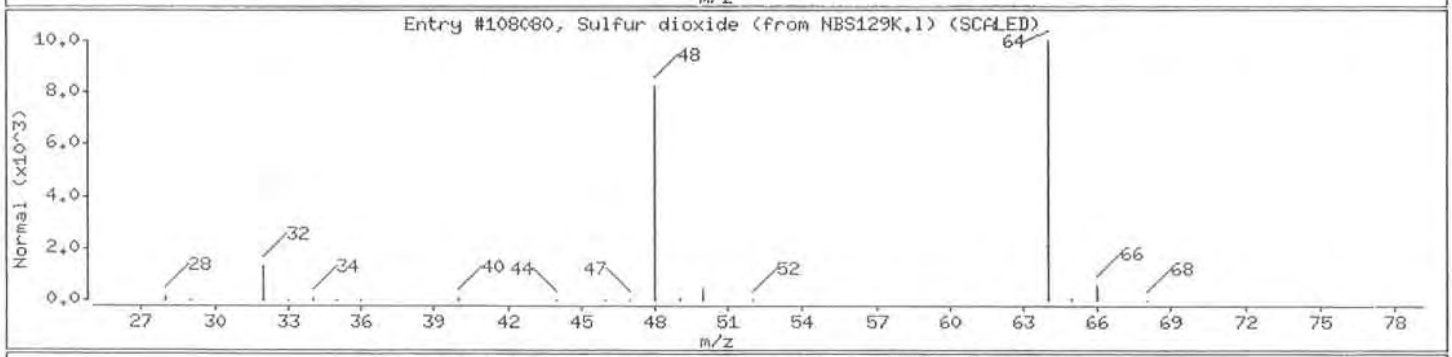
Sample Info: 1363702:2481

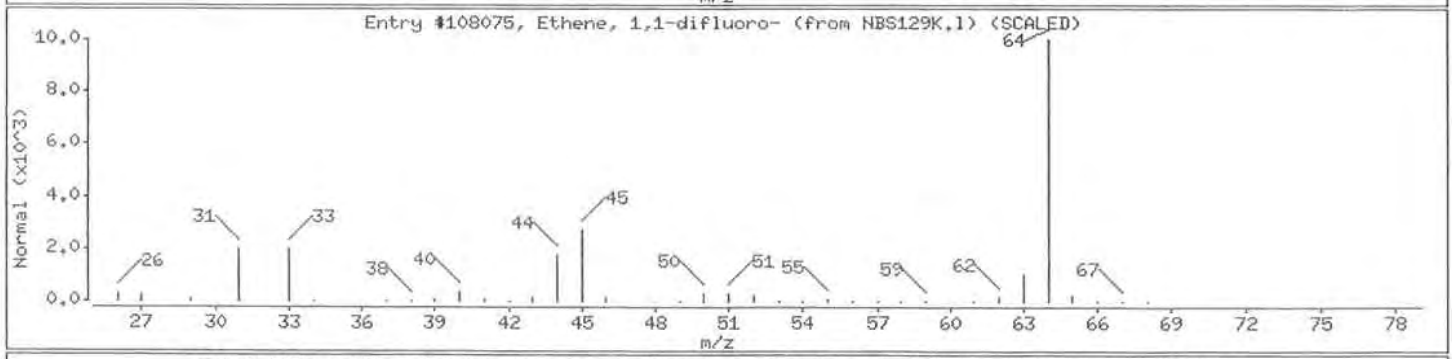
Purge Volume: 25.0 Operator: 2481

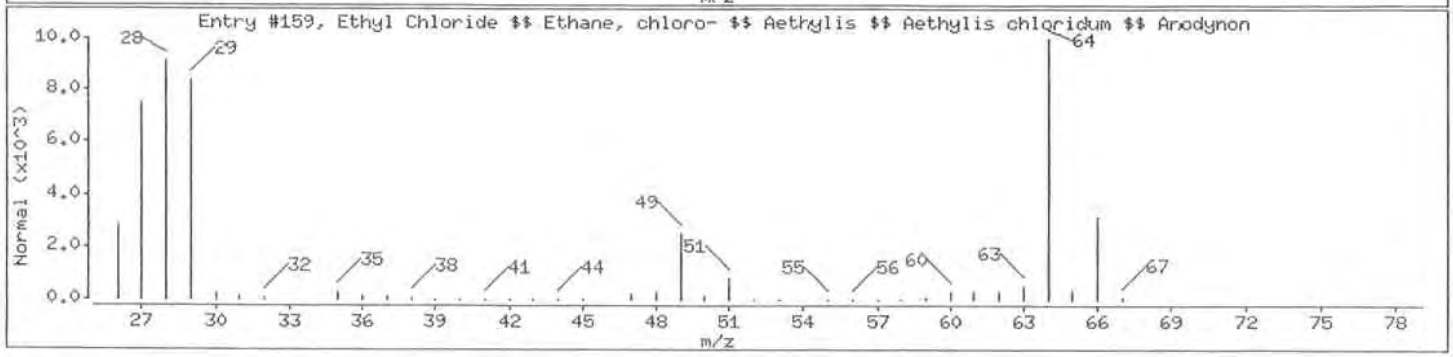
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sulfur dioxide	7446-09-5	NBS129K.l	108080	83	O2S	64
Ethene, 1,1-difluoro-	75-38-7	NBS129K.l	108075	5	C2H2F2	64
Ethyl Chloride $$ Ethane, chloro- $$ Aet	75-00-3	NBS129K.l	159	4	C2H5Cl	64









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Date : 23-AUG-2007 15:20

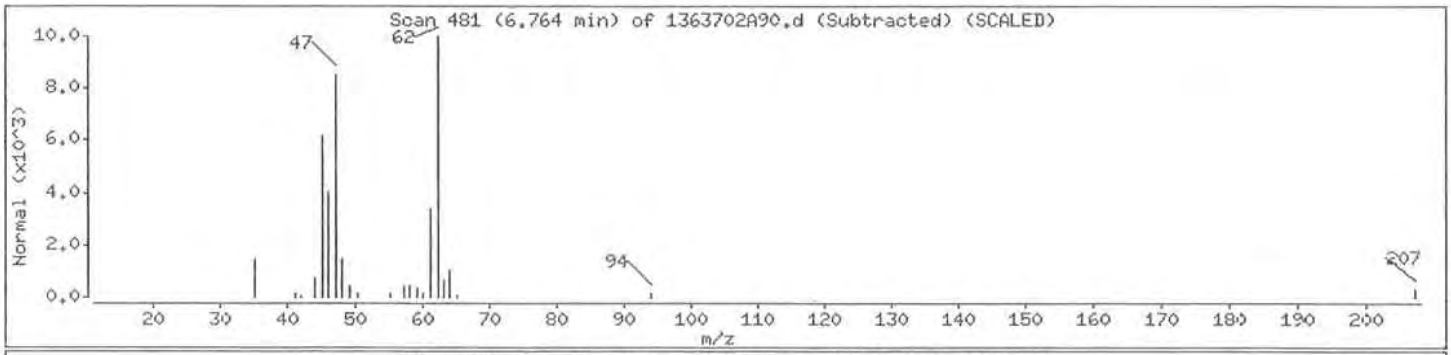
Client ID: Y3ES7 Instrument: 5973hp90.i

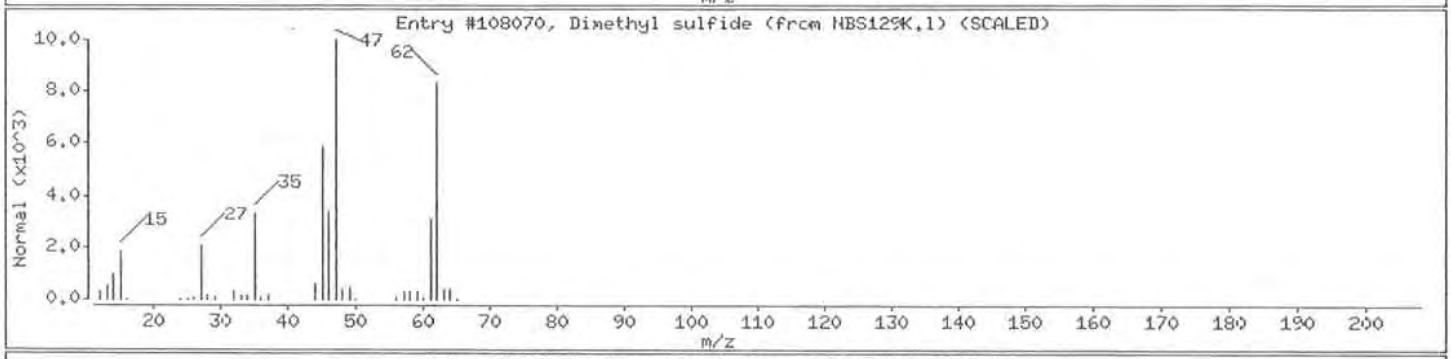
Sample Info: 1363702:2481

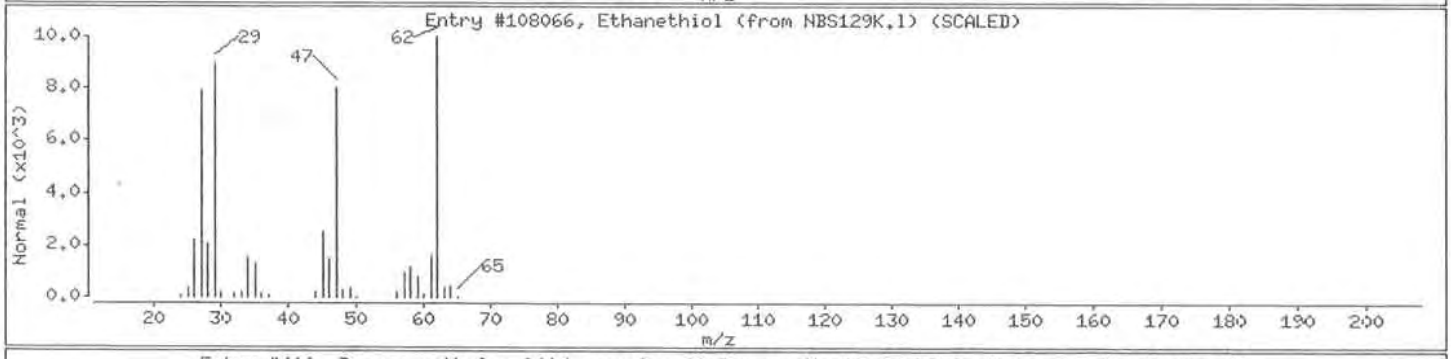
Purge Volume: 25.0 Operator: 2481

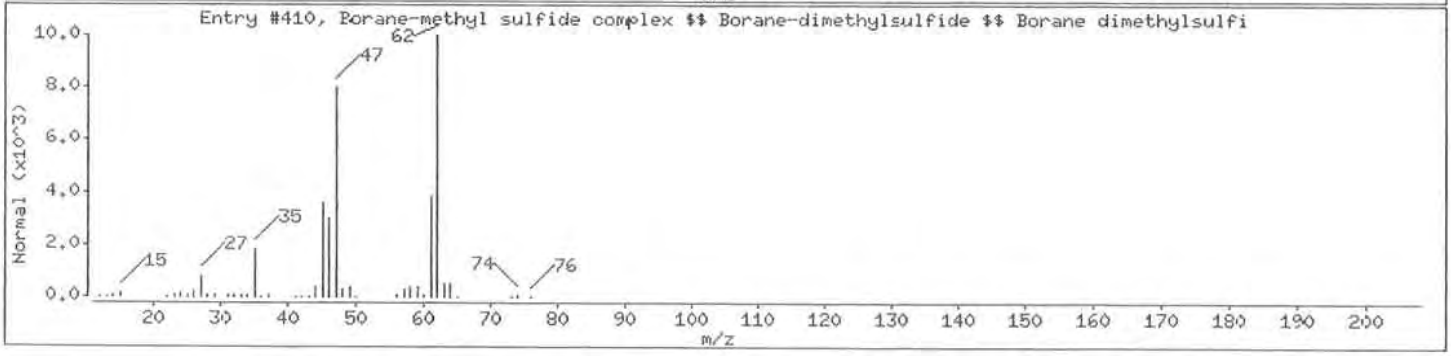
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dimethyl sulfide	75-18-3	NBS129K.l	108070	90	C2H6S	62
Ethanethiol	75-08-1	NBS129K.l	108066	80	C2H6S	62
Borane-methyl sulfide complex $$ Borane-	13292-87-0	NBS129K.l	410	78	C2H9BS	76









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363703

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363703A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.38	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.25	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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	0.13	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363703

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363703A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.31	J
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ES8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363703

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363703A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

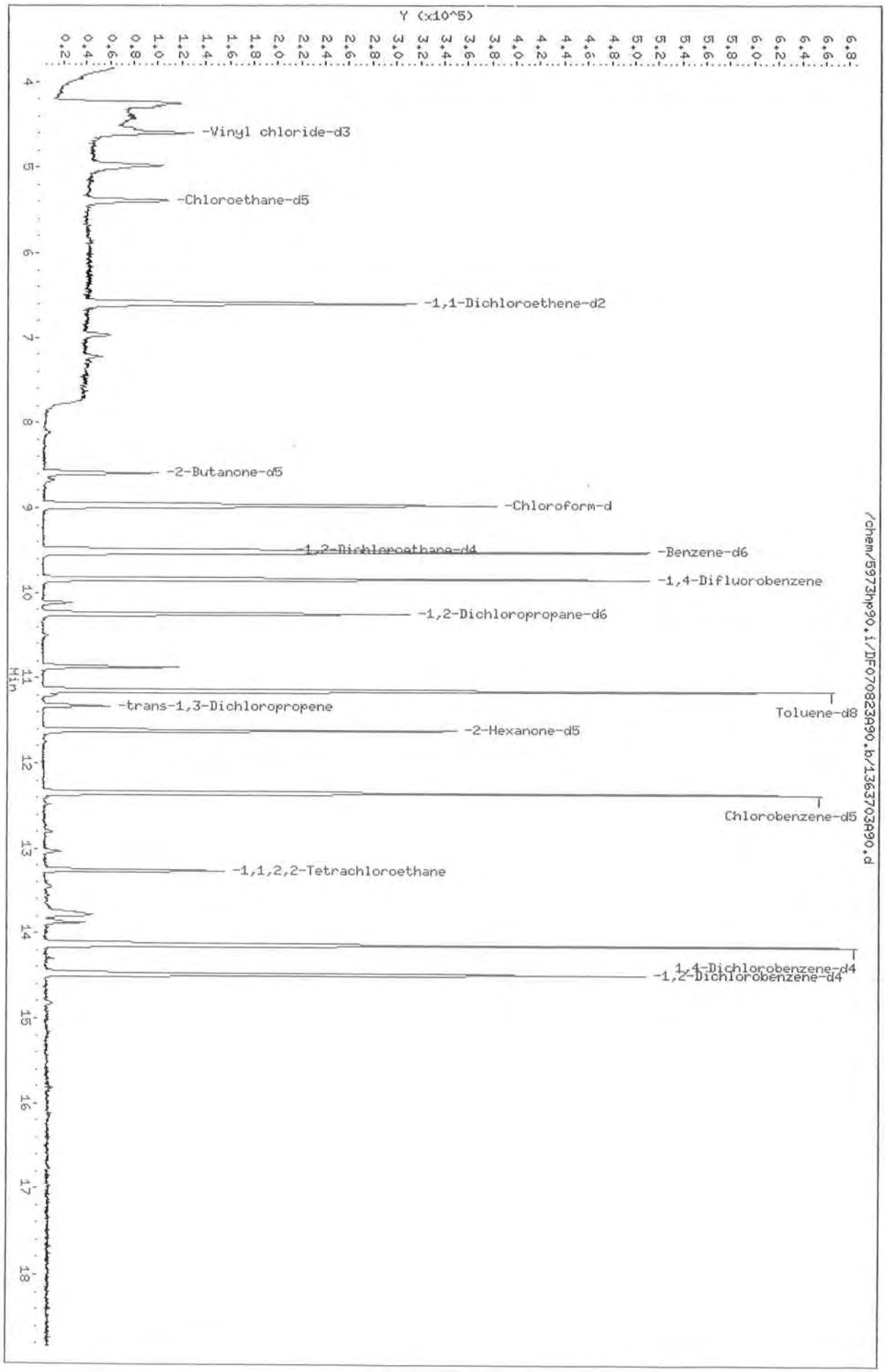
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.


Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Date : 23-AUG-2007 15:49
Client ID: Y3ES8
Sample Info: 1363703;2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-trans-1,3-Dichloropropene
Toluene-d8
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
/chem/5973hp90.i/DF070823A90.b/1363703A90.d
Min

Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Report Date: 03-Sep-2007 10:06

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Lab Smp Id: 1363703 Client Smp ID: Y3ES8
Inj Date : 23-AUG-2007 15:49
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363703:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.838	9.841	(1.000)	345472	125.000	
* 2	Chlorobenzene-d5	117	12.345	12.341	(1.000)	315822	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.133	14.130	(1.000)	171900	125.000	
$ 4	Vinyl chloride-d3	65	4.600	4.597	(0.468)	113225	130.296	5.2
$ 5	Chloroethane-d5	69	5.397	5.388	(0.549)	97162	133.136	5.3
$ 6	1,1-Dichloroethene-d2	63	6.596	6.599	(0.670)	245151	103.892	4.2
$ 7	2-Butanone-d5	46	8.591	8.588	(0.873)	132823	1022.40	41
$ 8	Chloroform-d	84	8.968	8.965	(0.912)	309415	131.161	5.2
$ 9	1,2-Dichloroethane-d4	65	9.491	9.494	(0.965)	141675	131.265	5.3
$ 10	Benzene-d6	84	9.522	9.519	(0.771)	438752	132.063	5.3
$ 11	1,2-Dichloropropane-d6	67	10.246	10.249	(0.830)	119239	126.063	5.0
$ 12	Toluene-d8	98	11.146	11.143	(0.903)	426237	129.183	5.2
$ 13	trans-1,3-Dichloropropene-d4	79	11.323	11.325	(0.917)	32916	107.718	4.3
$ 14	2-Hexanone-d5	63	11.608	11.611	(0.940)	103493	1001.55	40
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.257	13.260	(1.074)	65965	121.042	4.8
$ 17	1,2-Dichlorobenzene-d4	152	14.474	14.471	(1.024)	135680	116.531	4.7
18	Dichlorodifluoromethane	85	Compound Not Detected.					

9.707

Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Report Date: 03-Sep-2007 10:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	Compound Not Detected.					
27	Carbon disulfide	76	6.967	6.970	(0.708)	40319	9.48936	0.38(a)
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	7.228	7.225	(0.735)	7009	6.14711	0.25(a)
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	8.980	8.983	(0.913)	7044	3.23577	0.13(a)
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	10.118	10.121	(0.820)	8751	7.74511	0.31(a)
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Report Date: 03-Sep-2007 10:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d

Date : 23-AUG-2007 15:49

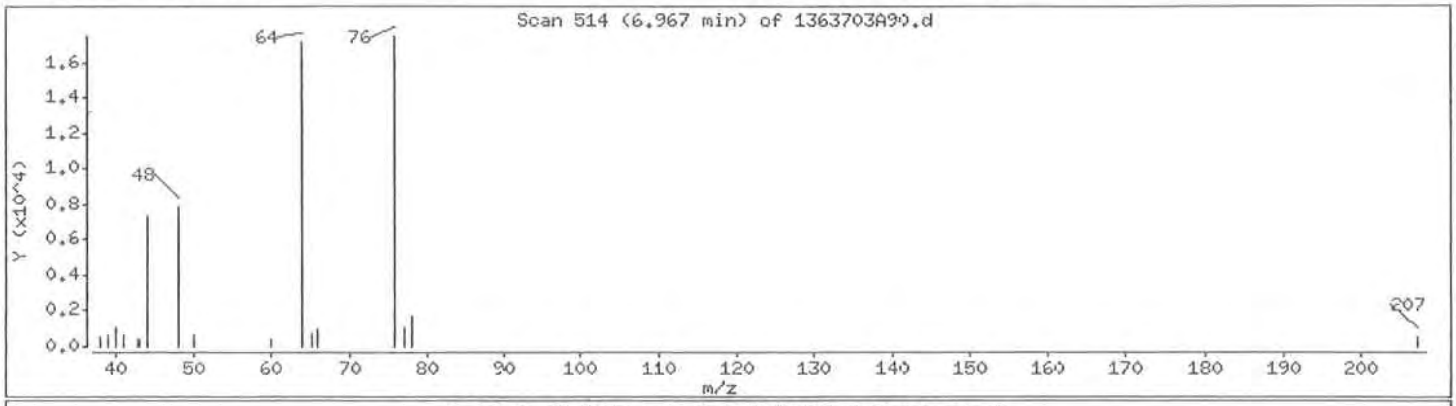
Client ID: Y3ES8 Instrument: 5973hp90.i

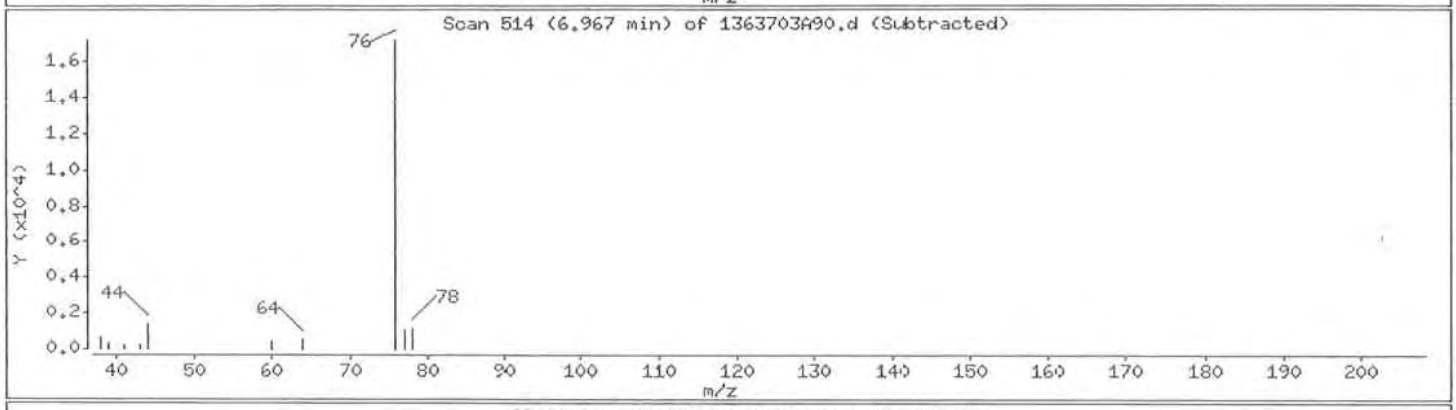
Sample Info: 1363703;2481

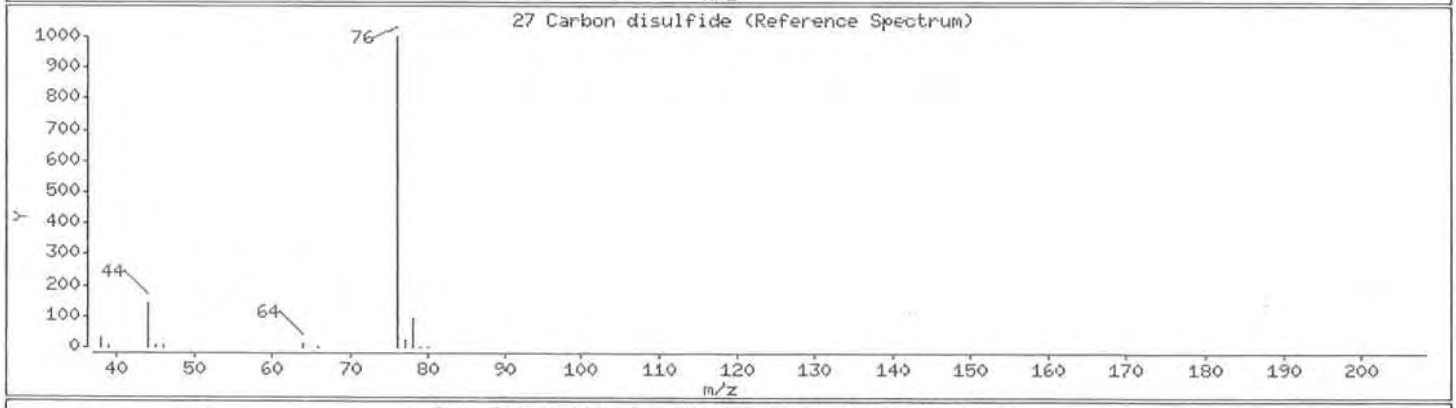
Purge Volume: 25.0 Operator: 2481

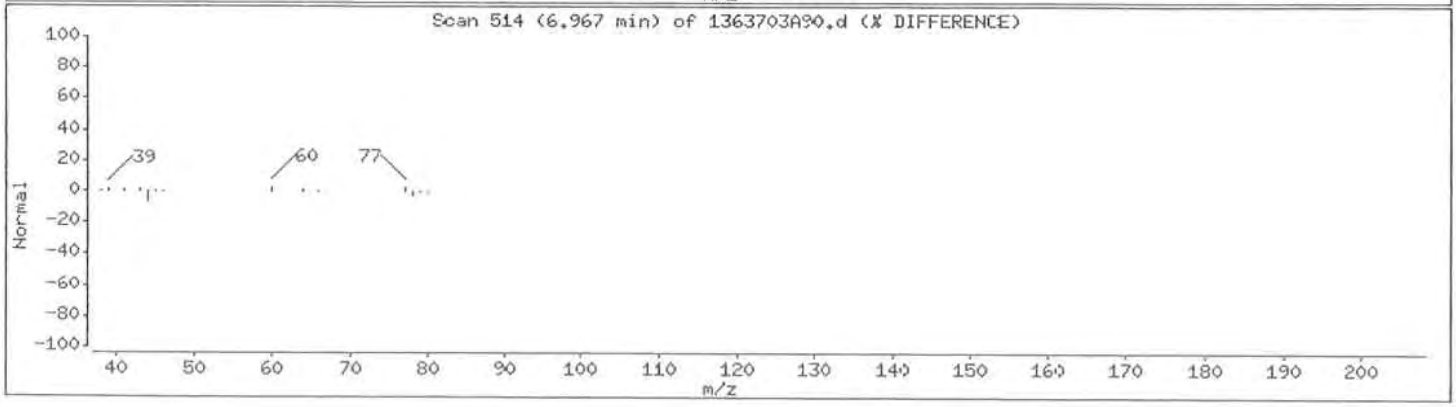
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.38 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d

Date : 23-AUG-2007 15:49

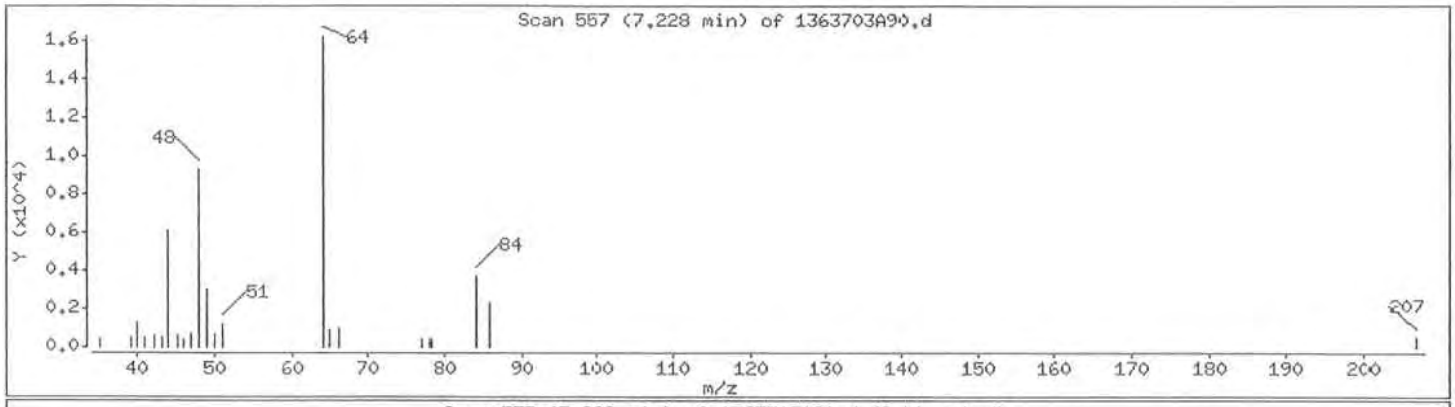
Client ID: Y3ES8 Instrument: 5973hp90.i

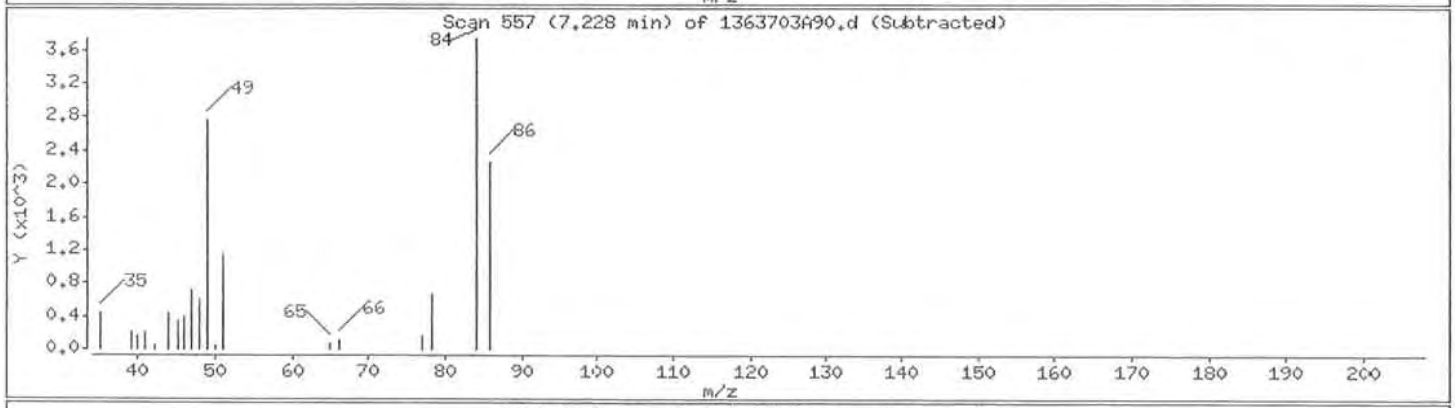
Sample Info: 1363703:2481

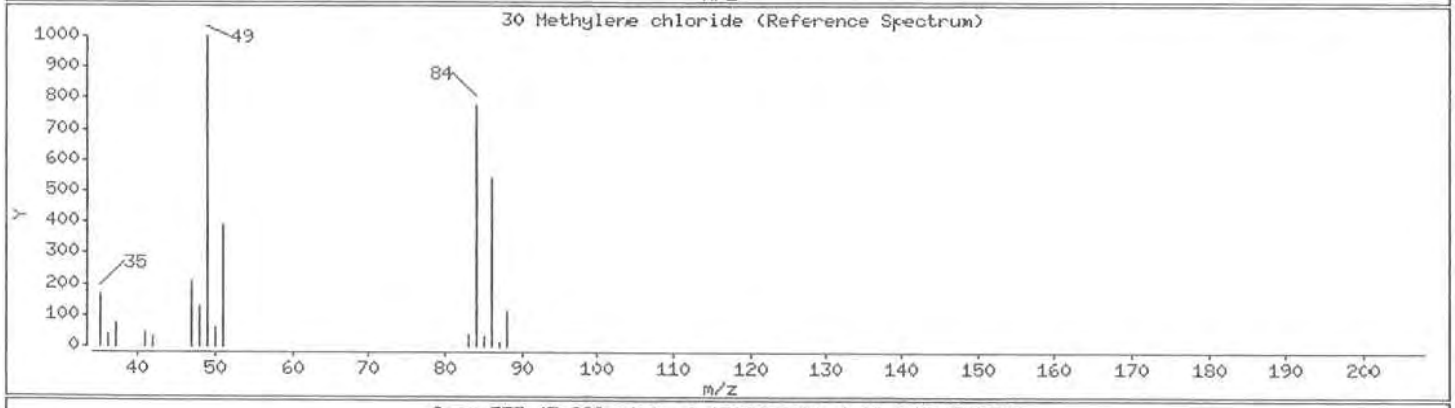
Purge Volume: 25.0 Operator: 2481

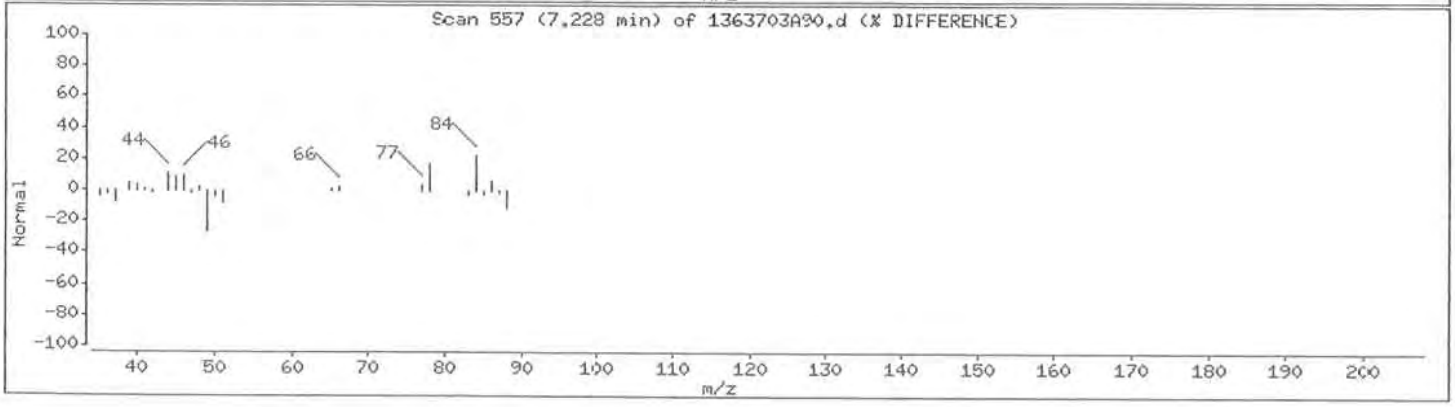
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.25 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d

Date : 23-AUG-2007 15:49

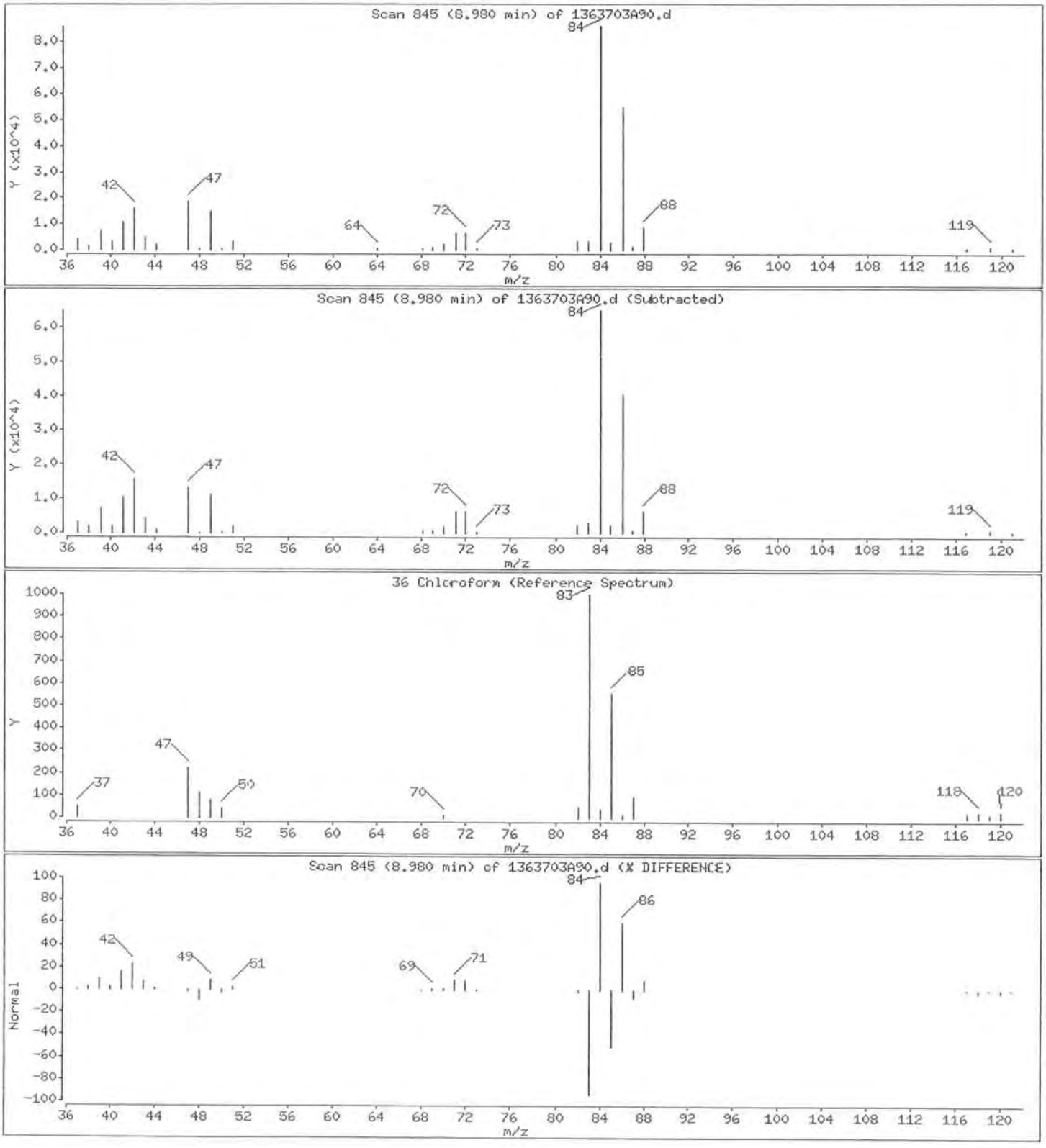
Client ID: Y3ES8 Instrument: 5973hp90.i

Sample Info: 1363703:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

36 Chloroform Concentration: 0.13 ug/L



Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d

Date : 23-AUG-2007 15:49

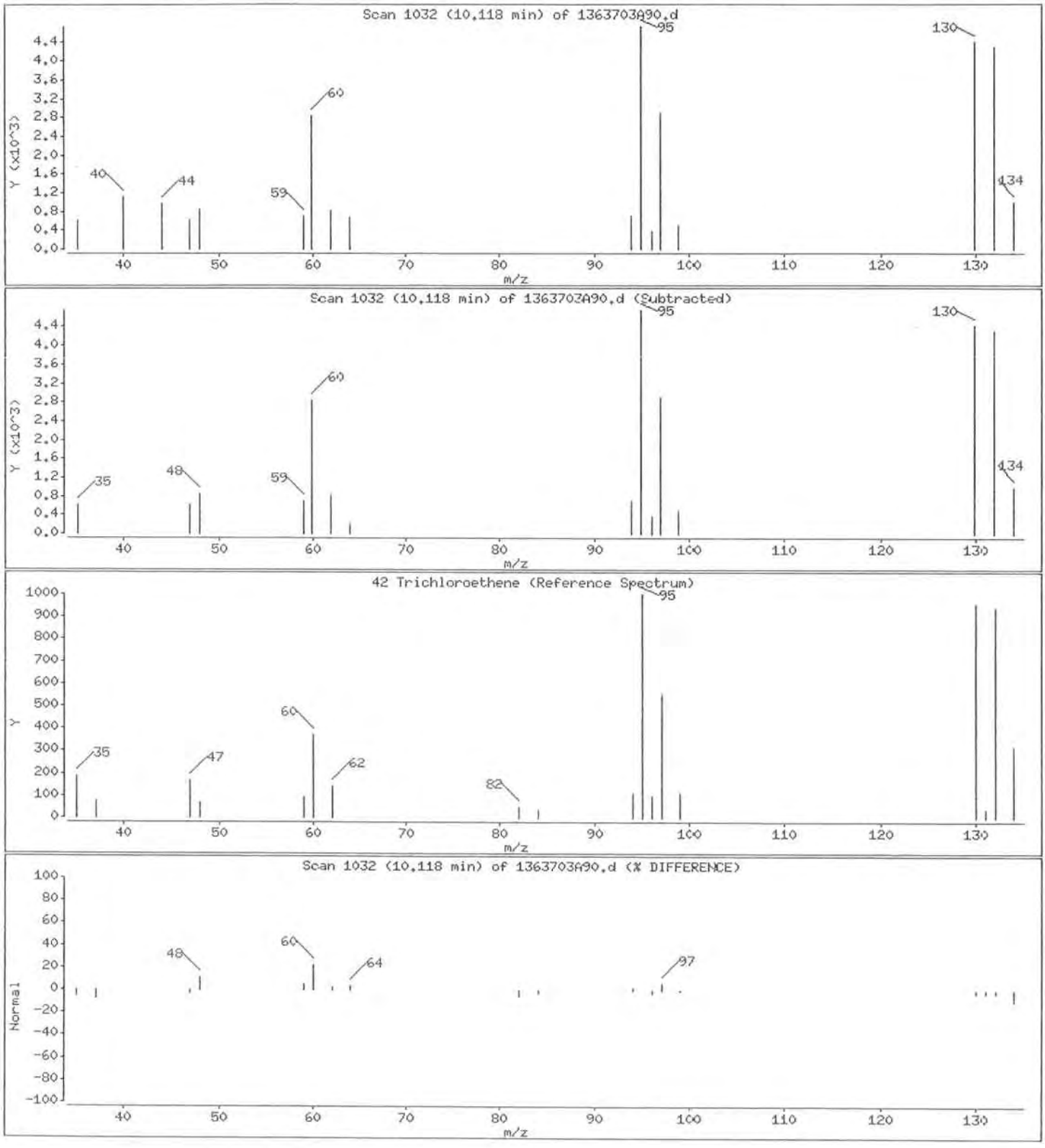
Client ID: Y3ES8 Instrument: 5973hp90.i

Sample Info: 1363703:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

42 Trichloroethene Concentration: 0.31 ug/L



Data File: /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Report Date: 03-Sep-2007 10:06

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363703A90.d
Lab Smp Id: 1363703 Client Smp ID: Y3ES8
Inj Date : 23-AUG-2007 15:49
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363703:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363704

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363704A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	4.5	J
75-15-0	Carbon disulfide	0.60	
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.30	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.14	J
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363704

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363704A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.12	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ES9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363704

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363704A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

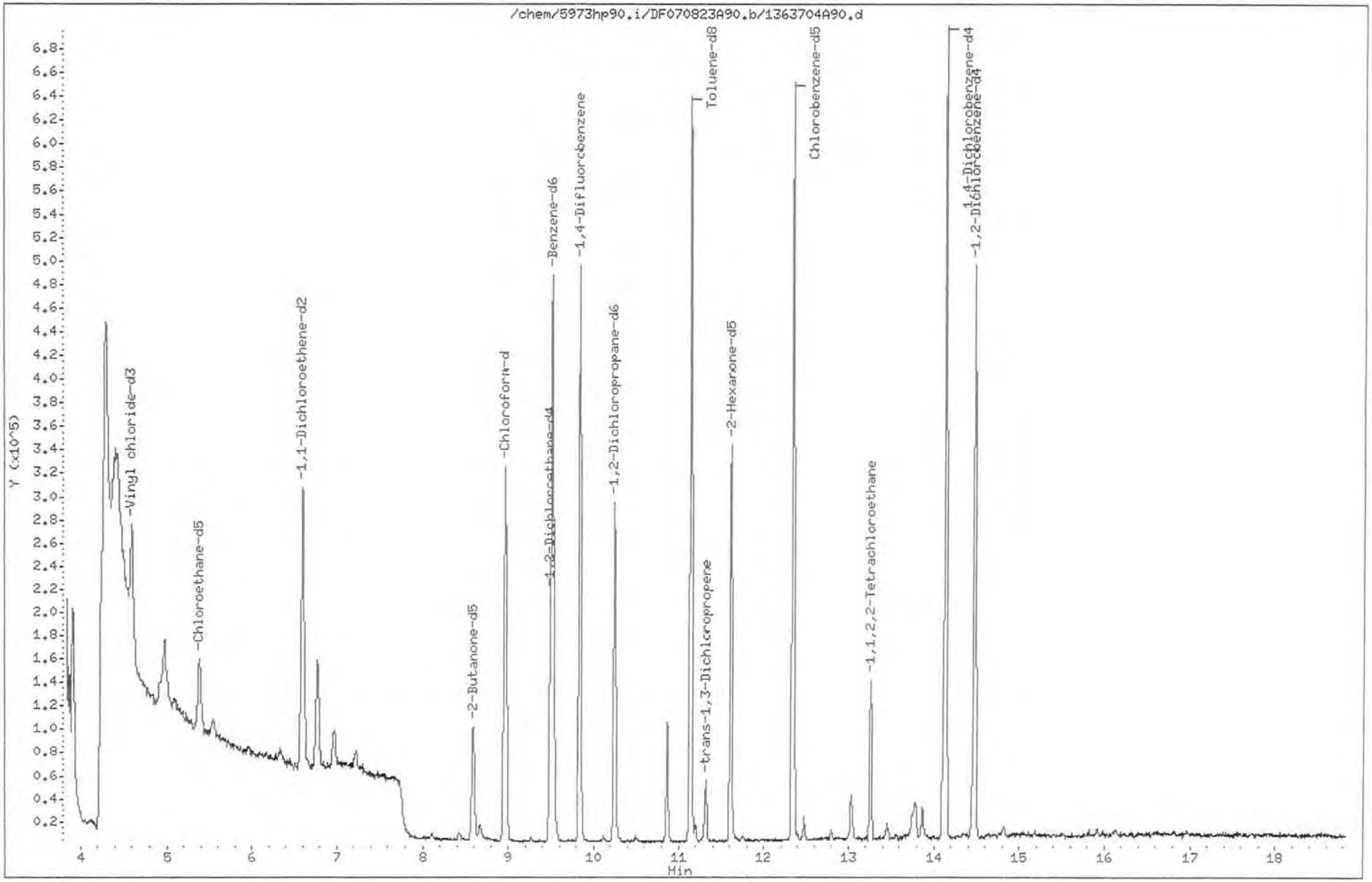
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.29	65	J
02		Unknown	6.77	23	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Date : 23-AUG-2007 16:17
Client ID: Y3ES9
Instrument: 5973hp90.i
Sample Info: 1363704:2481
Purge Volume: 25.0
Operator: 2481
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Report Date: 03-Sep-2007 10:07

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Lab Smp Id: 1363704 Client Smp ID: Y3ES9
Inj Date : 23-AUG-2007 16:17
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363704:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.841	9.841	(1.000)	344341	125.000	
* 2	Chlorobenzene-d5	117	12.341	12.341	(1.000)	315460	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.130	14.130	(1.000)	167402	125.000	
$ 4	Vinyl chloride-d3	65	4.597	4.597	(0.467)	130924	151.158	6.0
$ 5	Chloroethane-d5	69	5.388	5.388	(0.547)	87562	120.376	4.8
$ 6	1,1-Dichloroethene-d2	63	6.592	6.599	(0.670)	215382	91.5763	3.7
$ 7	2-Butanone-d5	46	8.588	8.588	(0.873)	130284	1006.15	40
$ 8	Chloroform-d	84	8.965	8.965	(0.911)	287579	122.306	4.9
$ 9	1,2-Dichloroethane-d4	65	9.494	9.494	(0.965)	132738	123.389	4.9
$ 10	Benzene-d6	84	9.518	9.519	(0.771)	408117	122.983	4.9
$ 11	1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	112778	119.369	4.8
$ 12	Toluene-d8	98	11.143	11.143	(0.903)	392457	119.081	4.8
$ 13	trans-1,3-Dichloropropene-d4	79	11.325	11.325	(0.918)	31248	102.377	4.1
$ 14	2-Hexanone-d5	63	11.611	11.611	(0.941)	98798	957.212	38
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.260	13.260	(1.074)	62204	114.272	4.6
$ 17	1,2-Dichlorobenzene-d4	152	14.470	14.471	(1.024)	126588	111.643	4.5
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Report Date: 03-Sep-2007 10:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	6.653	6.653	(0.676)	8702	112.592	4.5(a)
27 Carbon disulfide	76	6.970	6.970	(0.708)	63073	14.8934	0.60
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.231	7.225	(0.735)	8397	7.38862	0.30(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	9.561	9.561	(0.775)	11629	3.38956	0.14(a)
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	11.210	11.204	(0.908)	11187	2.92999	0.12(a)
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Report Date: 03-Sep-2007 10:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d

Date : 23-AUG-2007 16:17

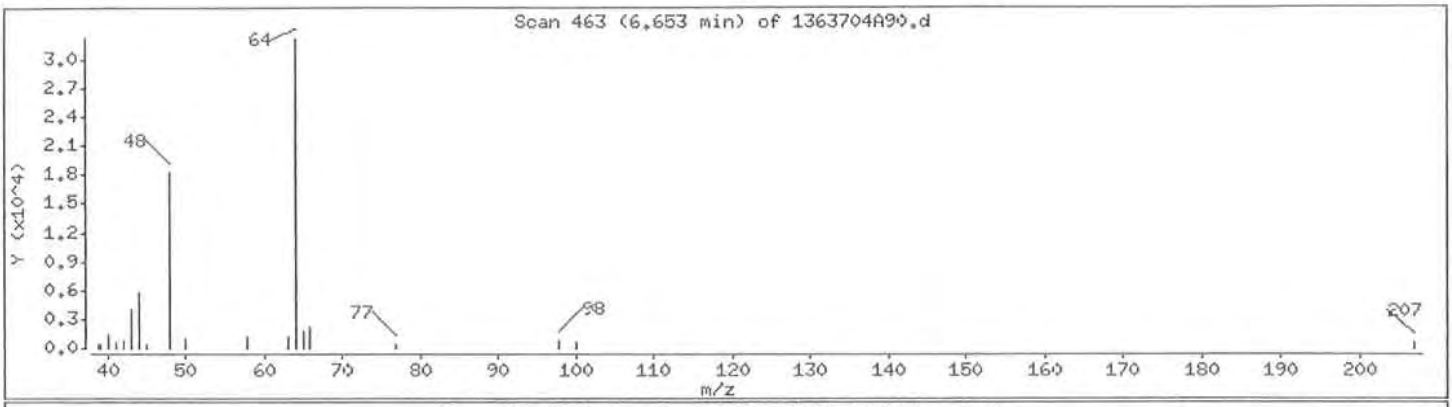
Client ID: Y3ES9 Instrument: 5973hp90.i

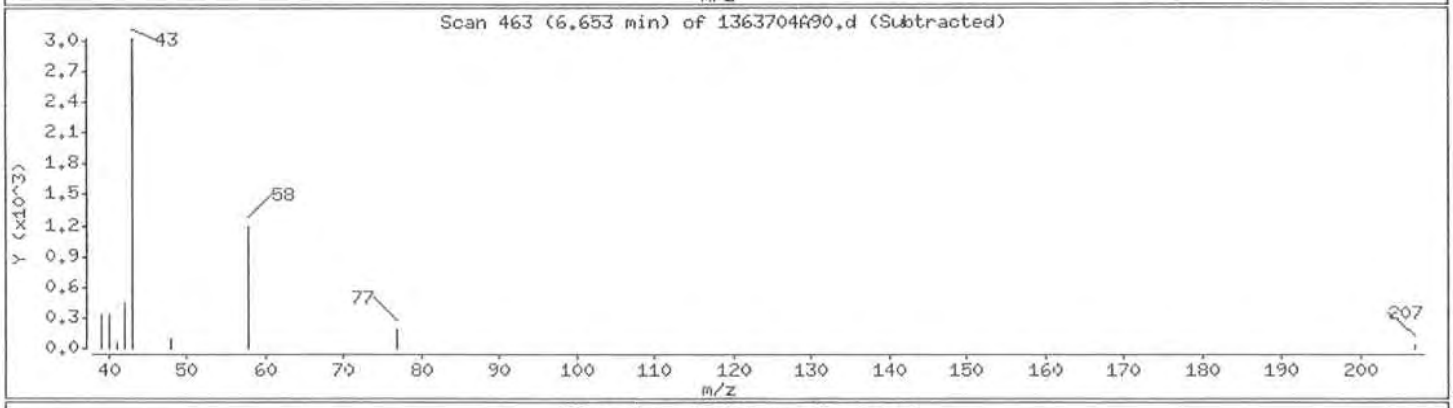
Sample Info: 1363704:2481

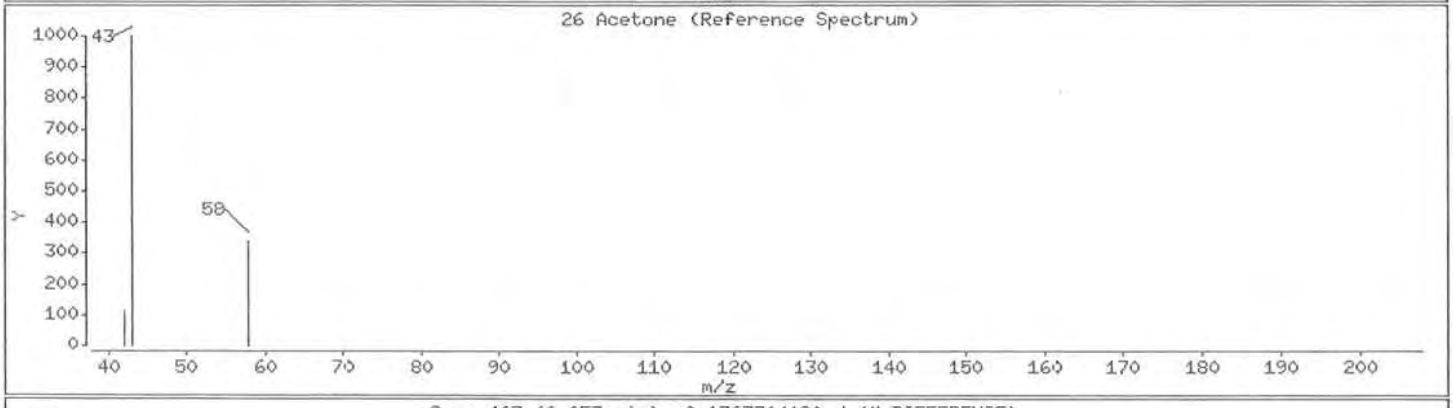
Purge Volume: 25.0 Operator: 2481

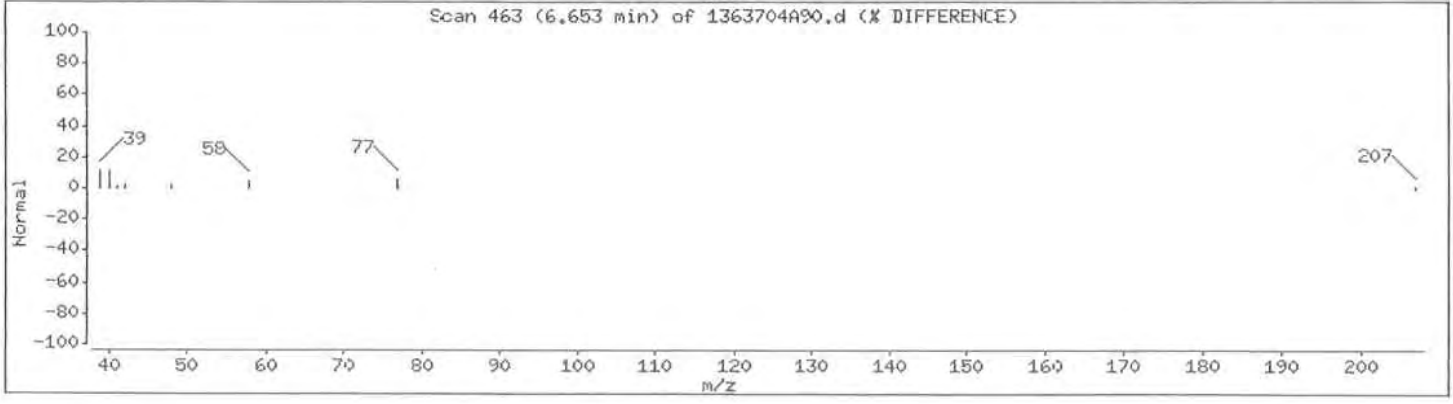
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 4.5 ug/L









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Date : 23-AUG-2007 16:17

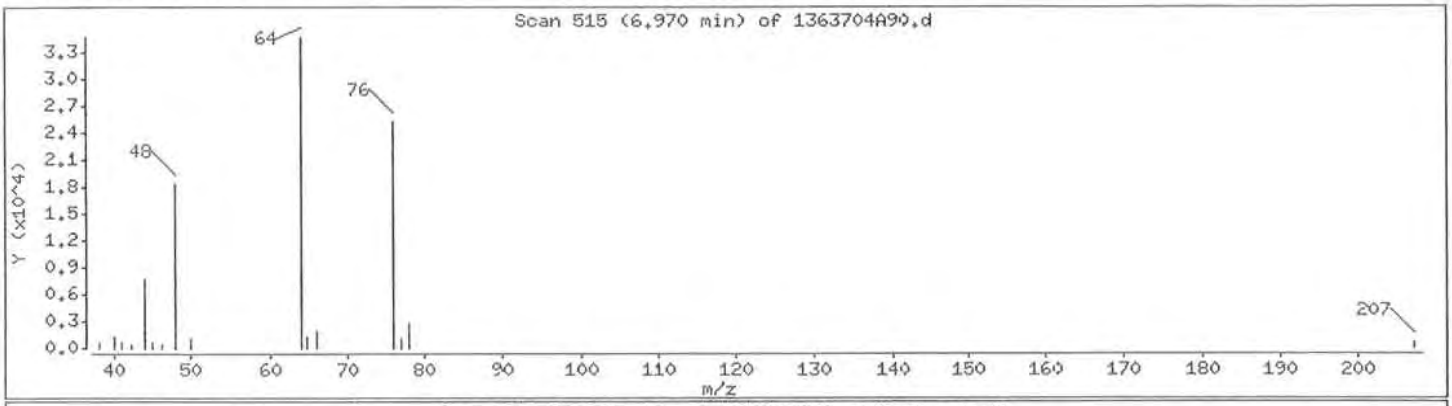
Client ID: Y3ES9 Instrument: 5973hp90.i

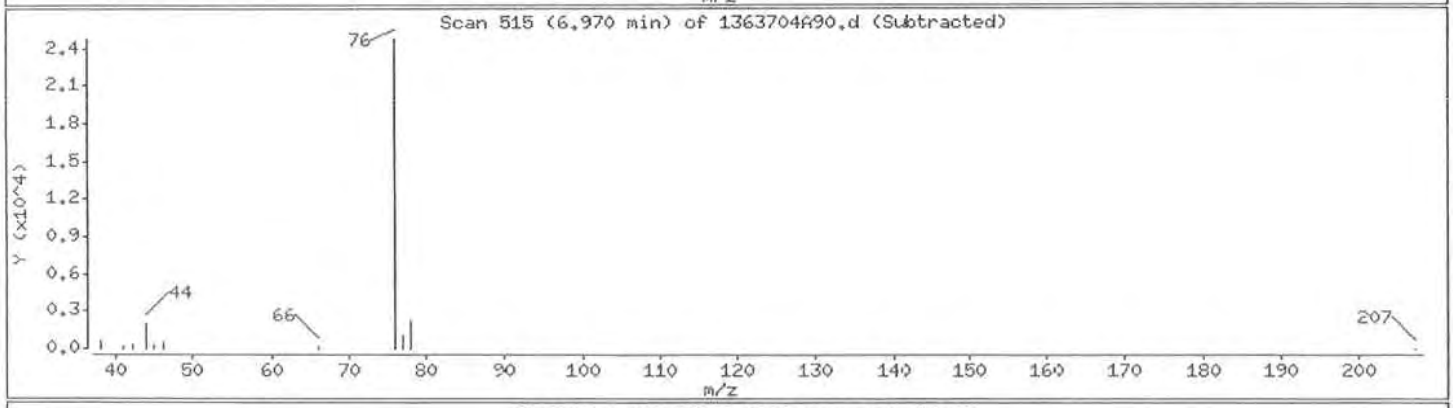
Sample Info: 1363704:2481

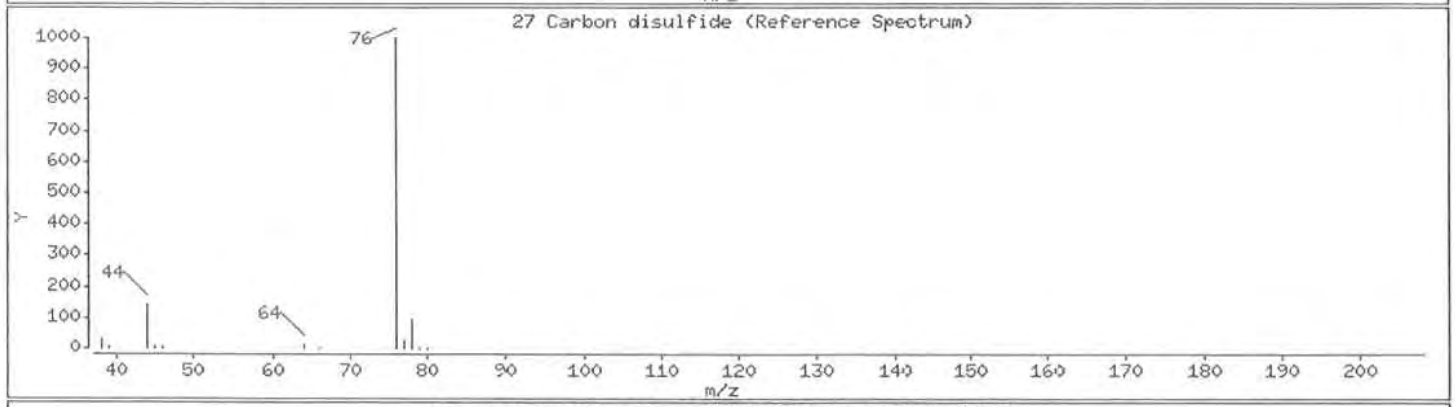
Purge Volume: 25.0 Operator: 2481

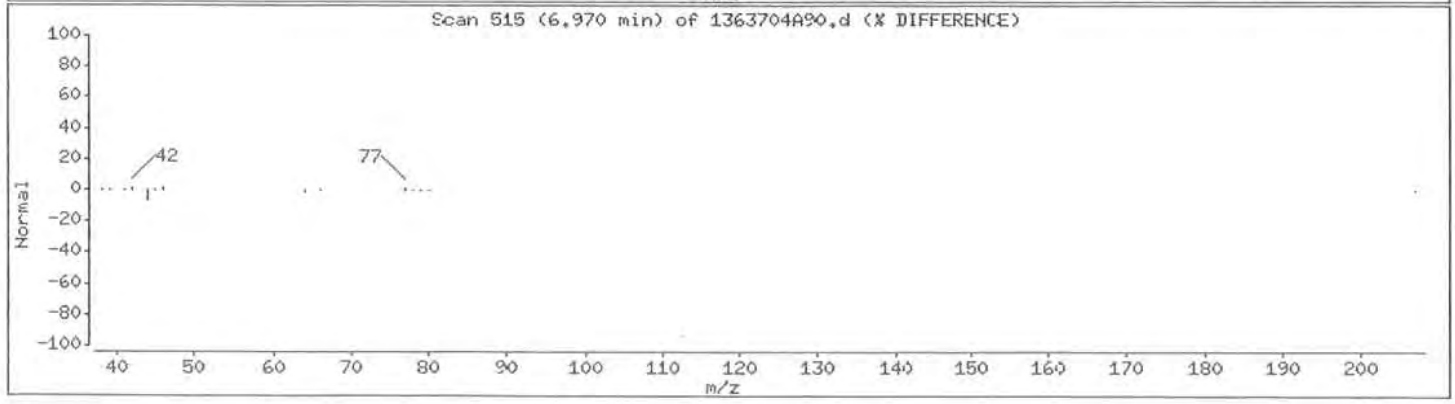
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.60 ug/L









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Date : 23-AUG-2007 16:17

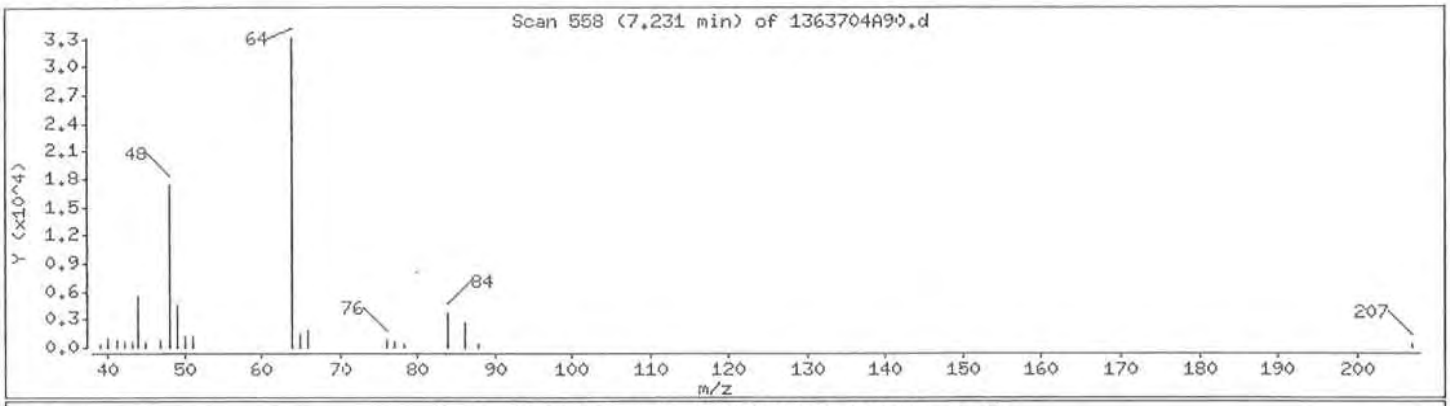
Client ID: Y3ES9 Instrument: 5973hp90.i

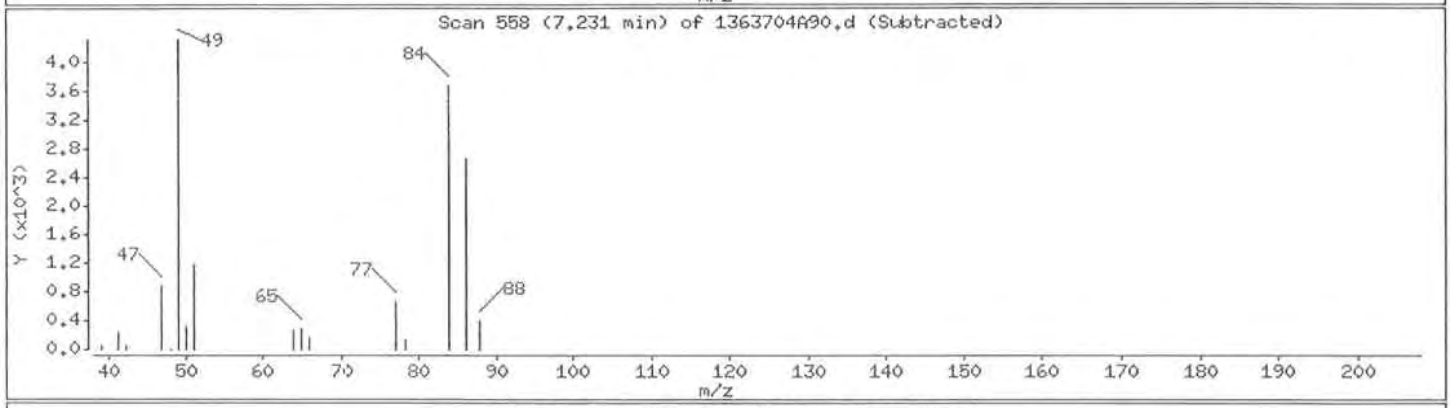
Sample Info: 1363704:2481

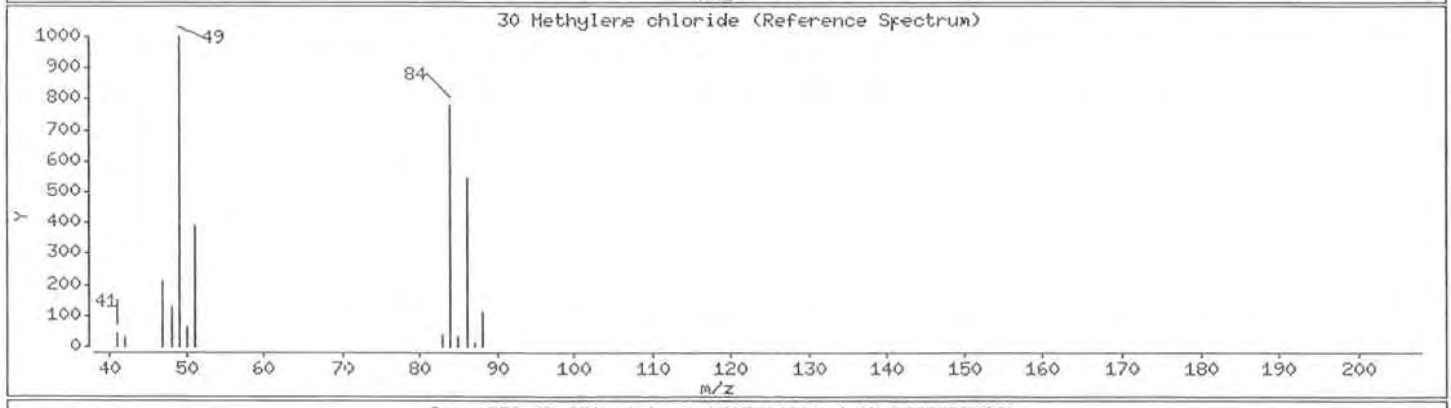
Purge Volume: 25.0 Operator: 2481

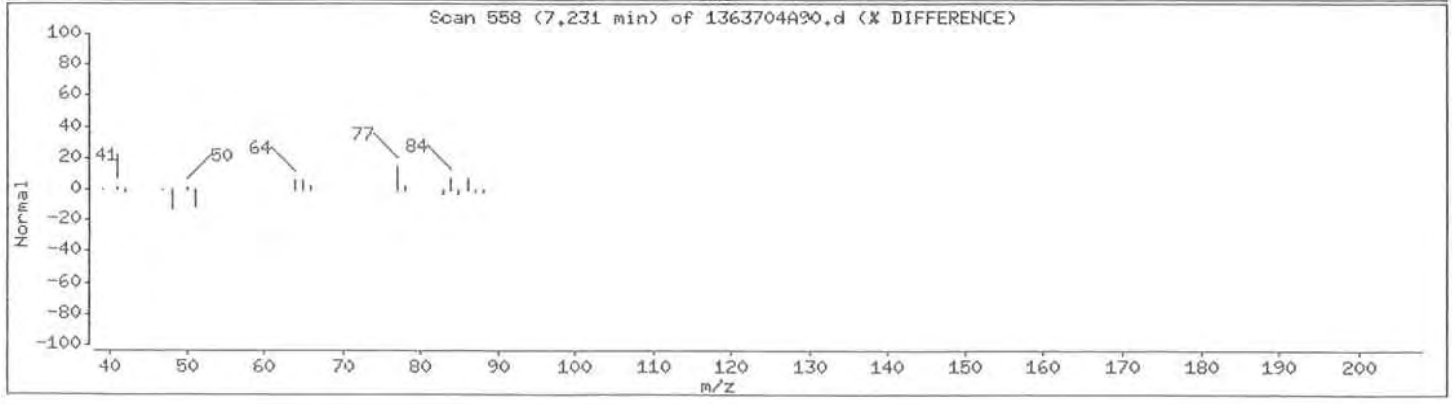
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.30 ug/L









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Date : 23-AUG-2007 16:17

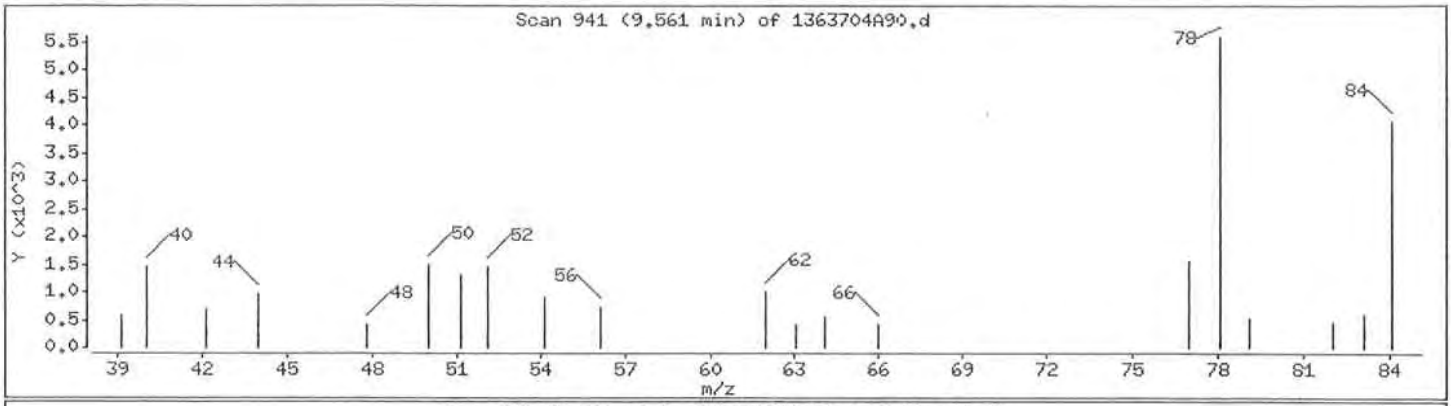
Client ID: Y3ES9 Instrument: 5973hp90.i

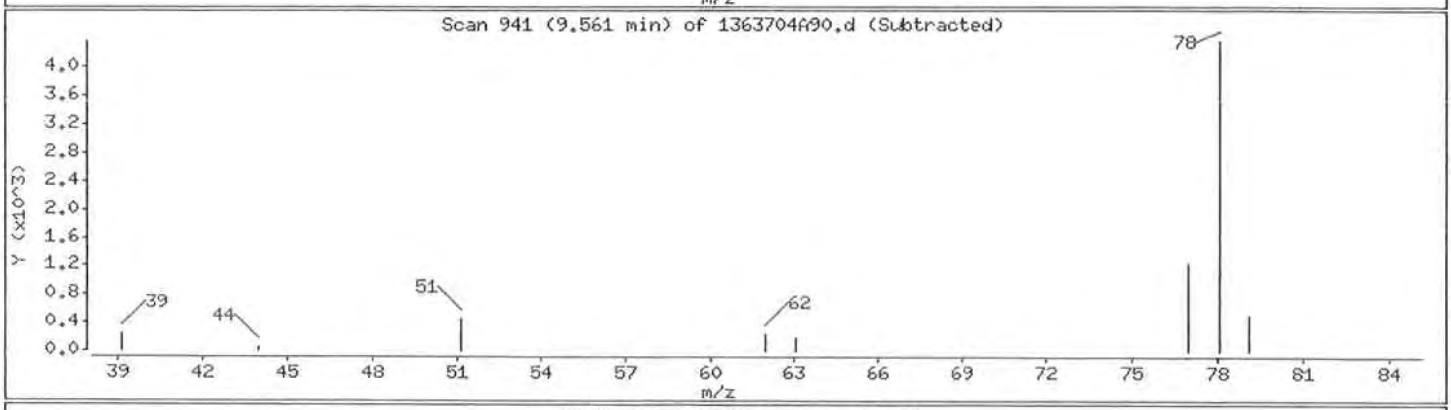
Sample Info: 1363704:2481

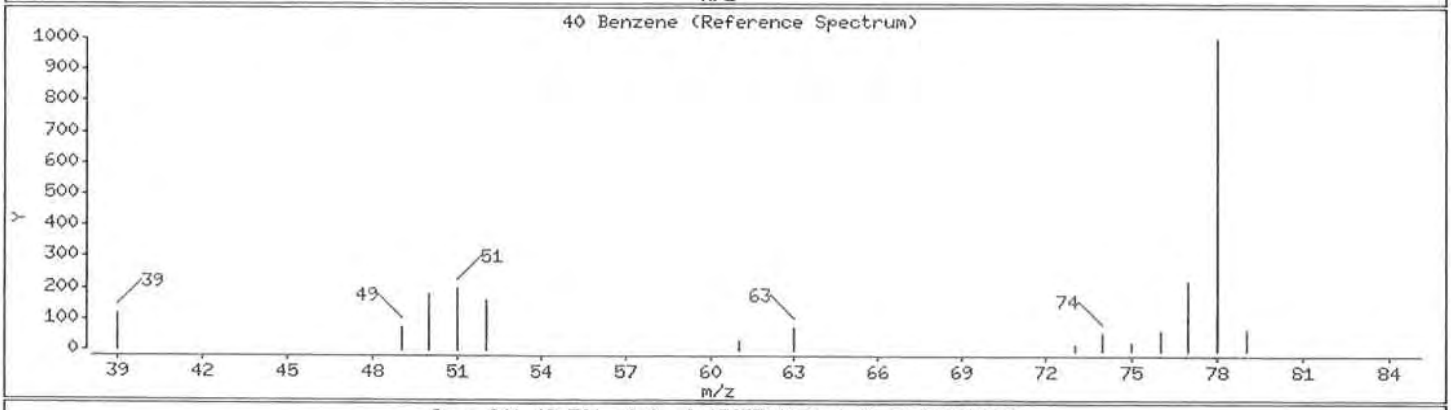
Purge Volume: 25.0 Operator: 2481

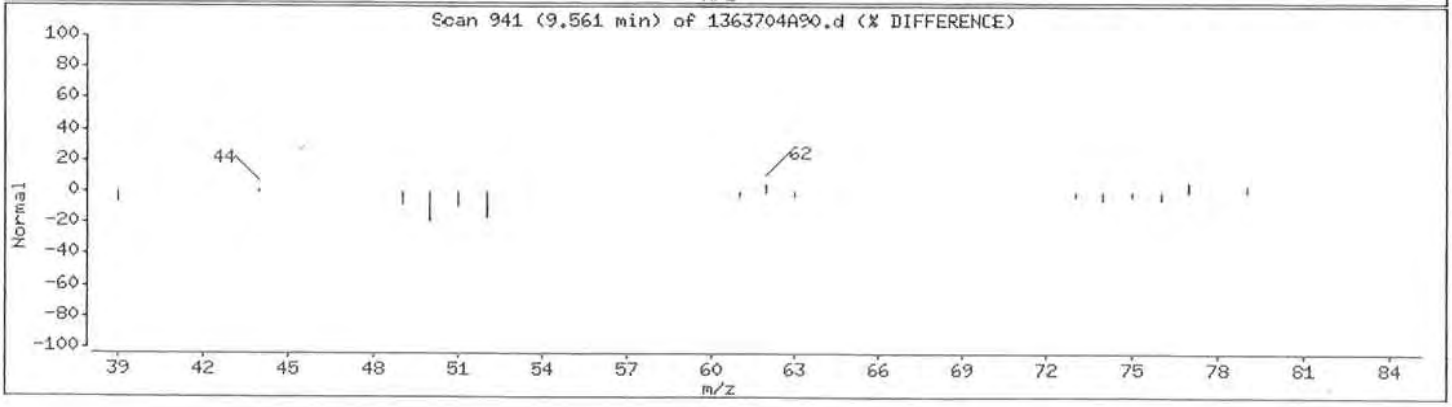
Column phase: SPB-624 Column diameter: 0.32

40 Benzene Concentration: 0.14 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d

Date : 23-AUG-2007 16:17

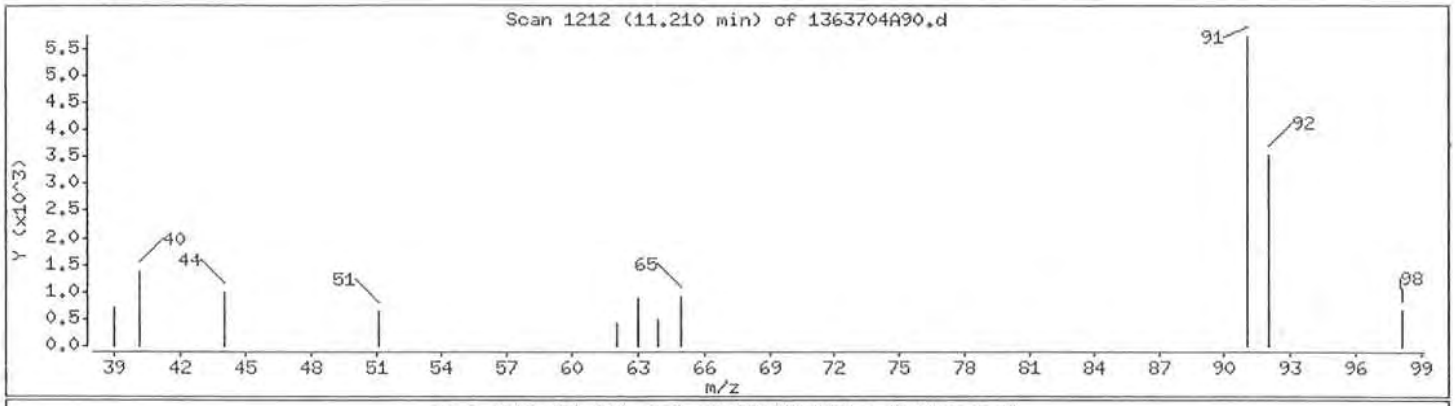
Client ID: Y3ES9 Instrument: 5973hp90.i

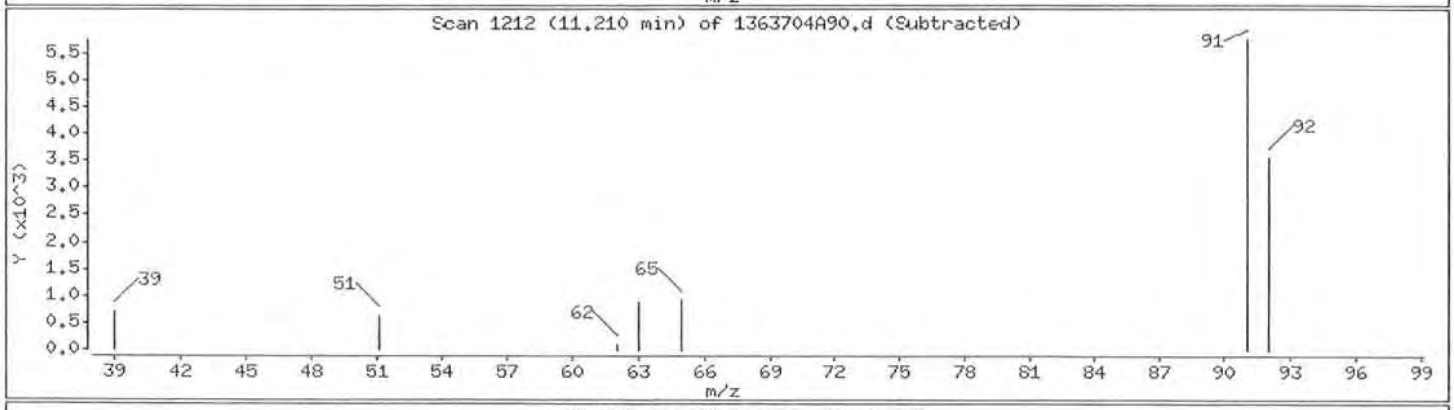
Sample Info: 1363704;2481

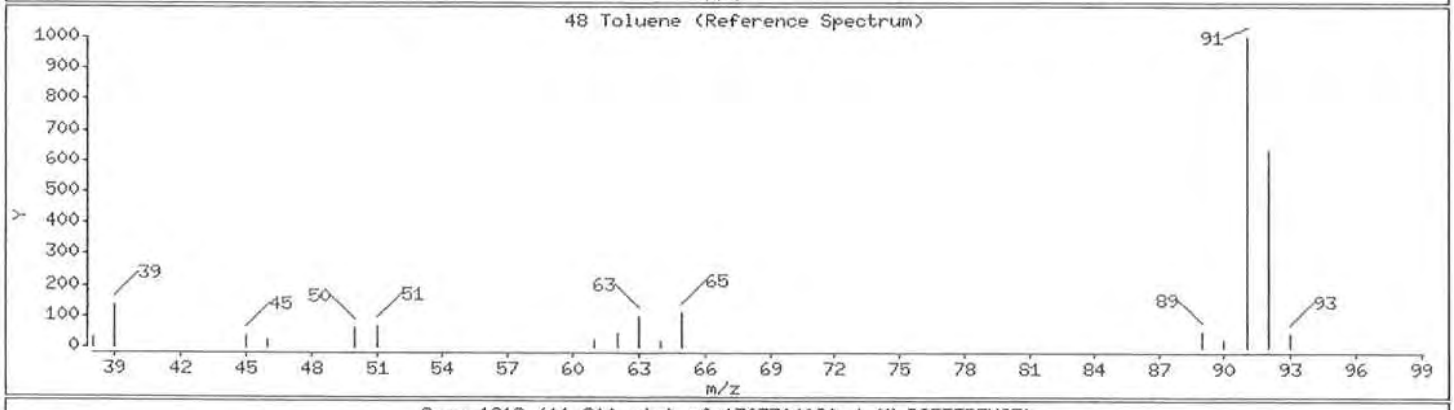
Purge Volume: 25.0 Operator: 2481

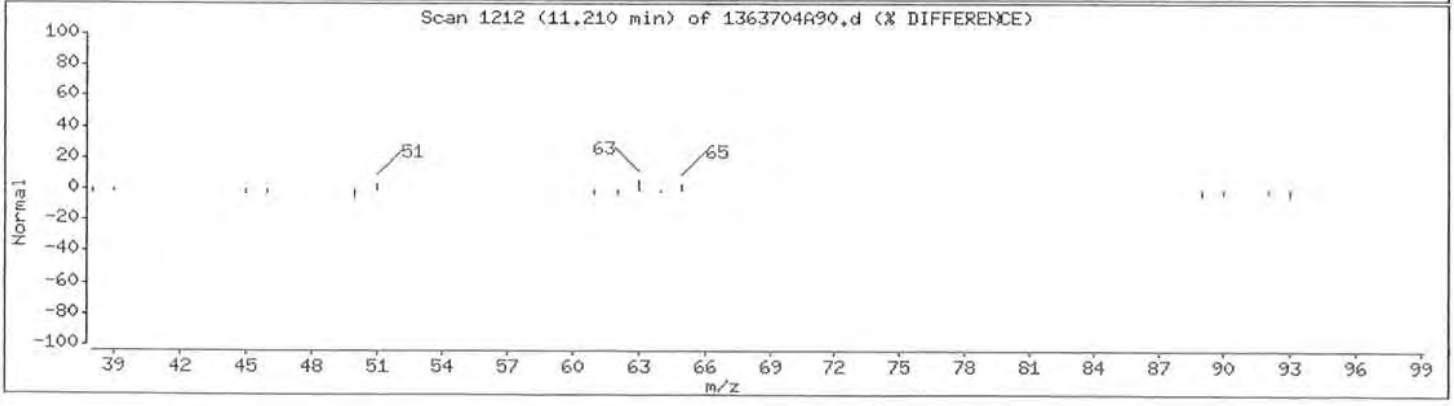
Column phase: SPB-624 Column diameter: 0.32

48 Toluene Concentration: 0.12 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Report Date: 03-Sep-2007 10:07

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363704A90.d
Lab Smp Id: 1363704 Client Smp ID: Y3ES9
Inj Date : 23-AUG-2007 16:17
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363704:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.841	922954	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.293	11962246	1620.10286	65	0		0	1
Unknown			CAS #:				
6.769	4156138	562.885143	23	0		0	1

Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d

Date : 23-AUG-2007 16:17

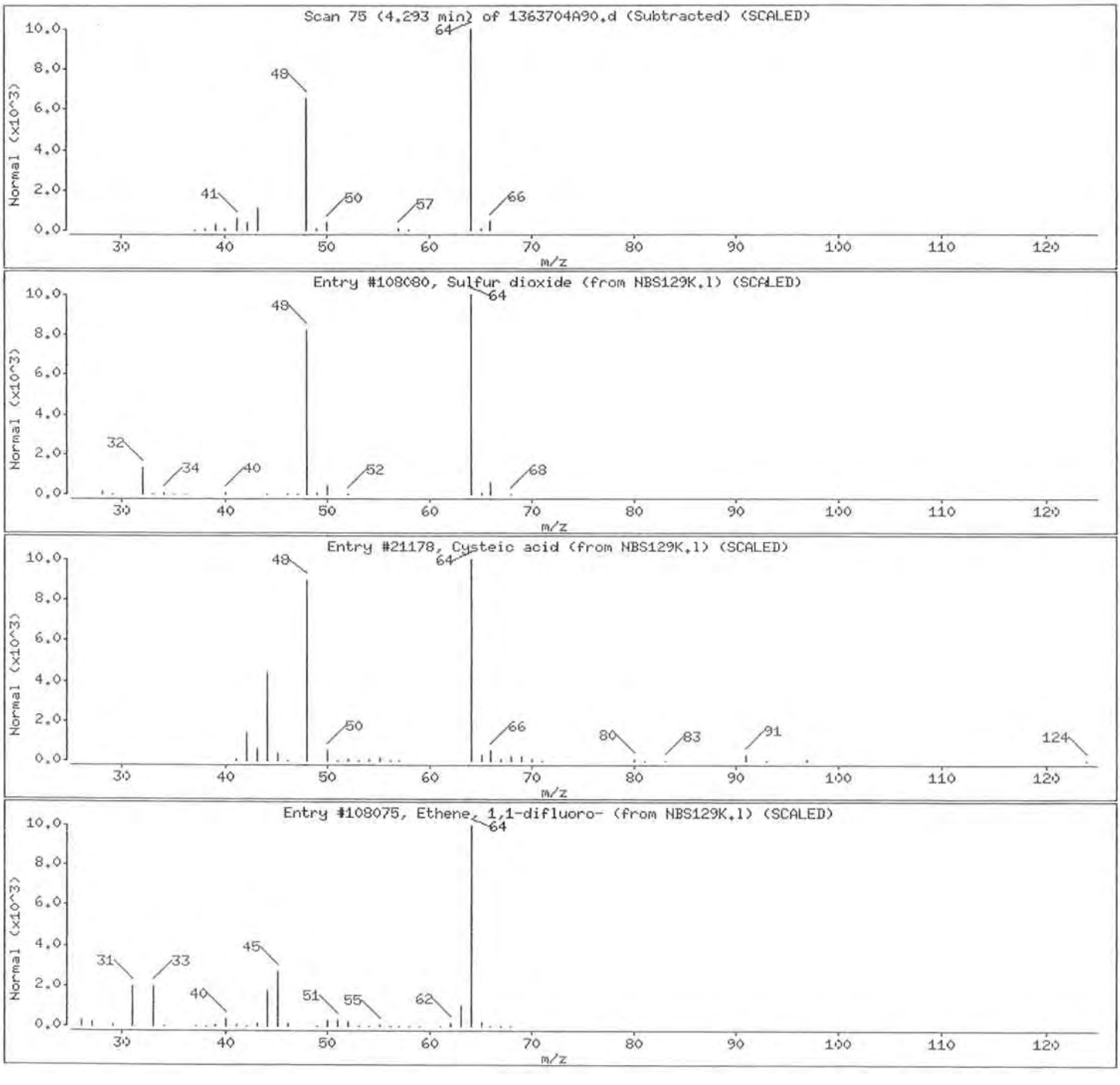
Client ID: Y3ES9 Instrument: 5973hp90.i

Sample Info: 1363704;2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sulfur dioxide	7446-09-5	NBS129K.l	108080	83	O2S	64
Cysteic acid	0-00-0	NBS129K.l	21178	64	C3H7NO5S	169
Ethene, 1,1-difluoro-	75-38-7	NBS129K.l	108075	4	C2H2F2	64



Data File: /chem/5973hp90.i/DF070823A90.b/1363704A90.d

Date : 23-AUG-2007 16:17

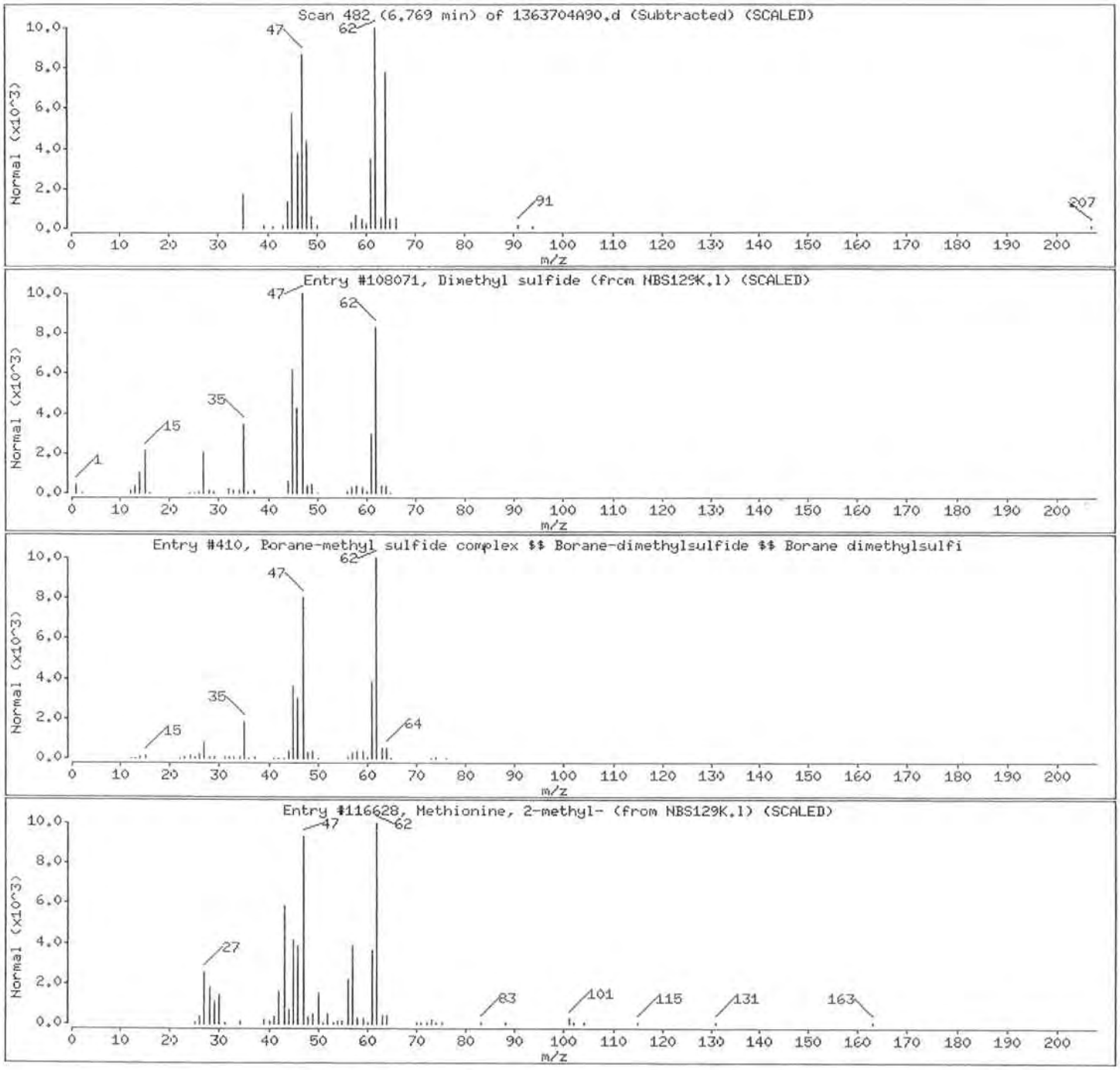
Client ID: Y3ES9 Instrument: 5973hp90.i

Sample Info: 1363704:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dimethyl sulfide	75-18-3	NBS129K.l	108071	55	C2H6S	62
Borane-methyl sulfide complex $$ Borane-	13292-87-0	NBS129K.l	410	43	C2H9BS	76
Methionine, 2-methyl-	562-48-1	NBS129K.l	116628	43	C6H13NO2S	163



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET0

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363705

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363705A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	2.8	J
75-15-0	Carbon disulfide	0.18	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.15	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET0

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363705

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363705A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.18	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET0

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363705

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363705A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

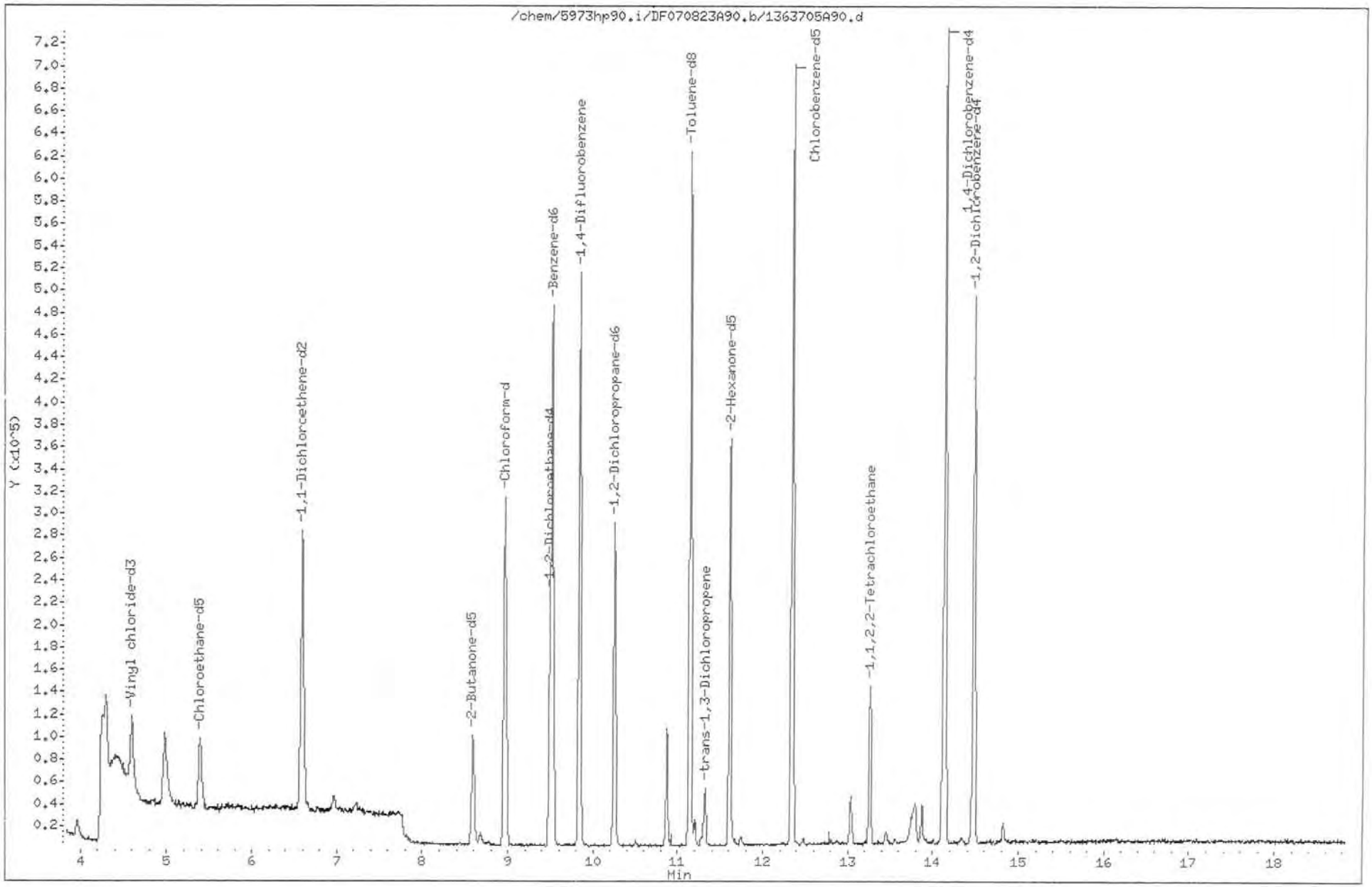
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.29	8.6	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Date : 23-AUG-2007 16:46
Client ID: Y3ET0
Sample Info: 1363705:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Report Date: 03-Sep-2007 10:09

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Lab Smp Id: 1363705 Client Smp ID: Y3ET0
Inj Date : 23-AUG-2007 16:46
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363705:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Difluorobenzene	114	9.842	9.841	(1.000)	362242	125.000	
*	2 Chlorobenzene-d5	117	12.342	12.341	(1.000)	335096	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	181190	125.000	
$	4 Vinyl chloride-d3	65	4.598	4.597	(0.467)	99263	108.940	4.4
$	5 Chloroethane-d5	69	5.395	5.388	(0.548)	87695	114.601	4.6
$	6 1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	212877	86.0384	3.4
$	7 2-Butanone-d5	46	8.589	8.588	(0.873)	135425	994.170	40
$	8 Chloroform-d	84	8.966	8.965	(0.911)	282289	114.123	4.6
$	9 1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	134680	119.007	4.8
$	10 Benzene-d6	84	9.520	9.519	(0.771)	405769	115.110	4.6
$	11 1,2-Dichloropropane-d6	67	10.250	10.249	(0.830)	112060	111.659	4.5
$	12 Toluene-d8	98	11.144	11.143	(0.903)	385384	110.083	4.4
$	13 trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	32428	100.017	4.0
$	14 2-Hexanone-d5	63	11.612	11.611	(0.941)	110809	1010.67	40
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.261	13.260	(1.074)	65132	112.639	4.5
$	17 1,2-Dichlorobenzene-d4	152	14.472	14.471	(1.024)	126541	103.109	4.1
	18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Report Date: 03-Sep-2007 10:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	6.654	6.653	(0.676)	5713	70.2654	2.8(a)
27 Carbon disulfide	76	6.971	6.970	(0.708)	20445	4.58911	0.18(a)
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.226	7.225	(0.734)	4511	3.77313	0.15(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	11.205	11.204	(0.908)	18116	4.46673	0.18(a)
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Report Date: 03-Sep-2007 10:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65	1,2-Dichlorobenzene	146	Compound Not Detected.					
66	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d

Date : 23-AUG-2007 16:46

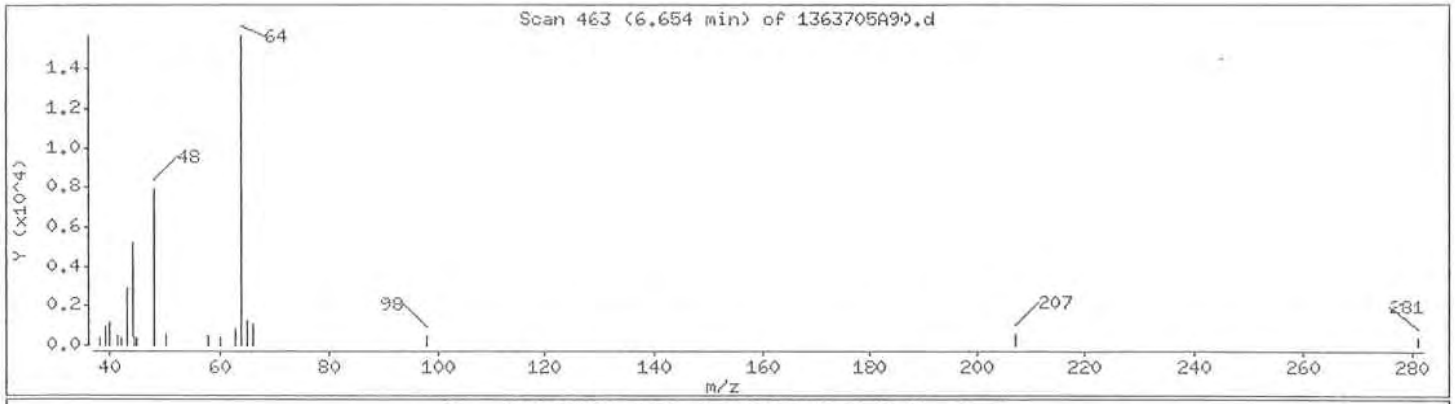
Client ID: Y3ET0 Instrument: 5973hp90.i

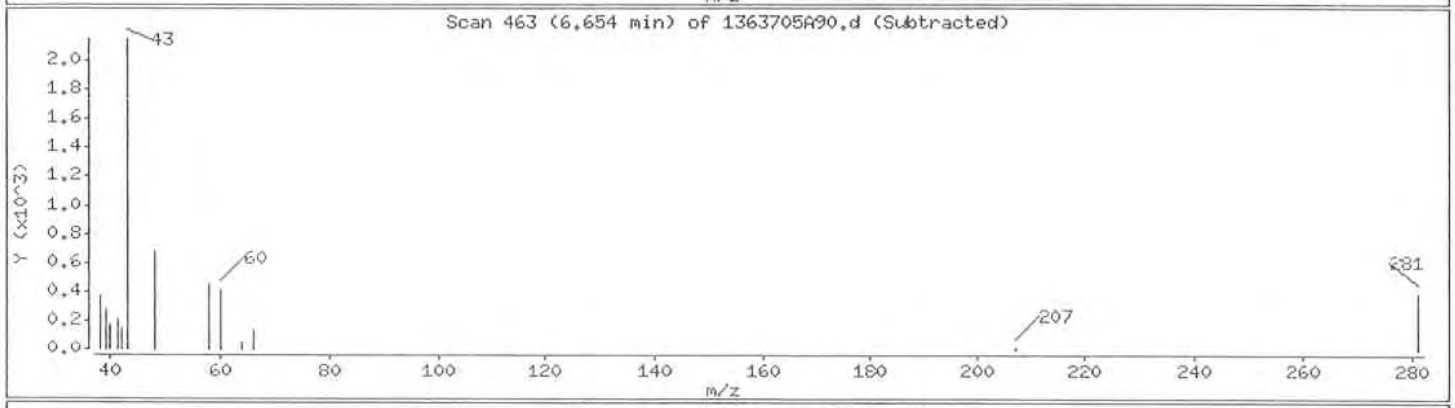
Sample Info: 1363705:2481

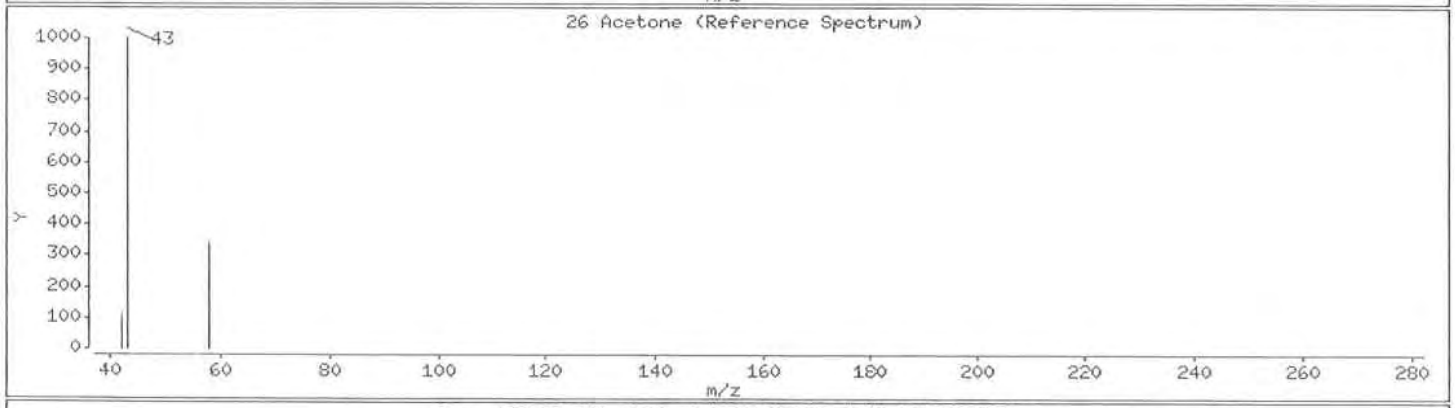
Purge Volume: 25.0 Operator: 2481

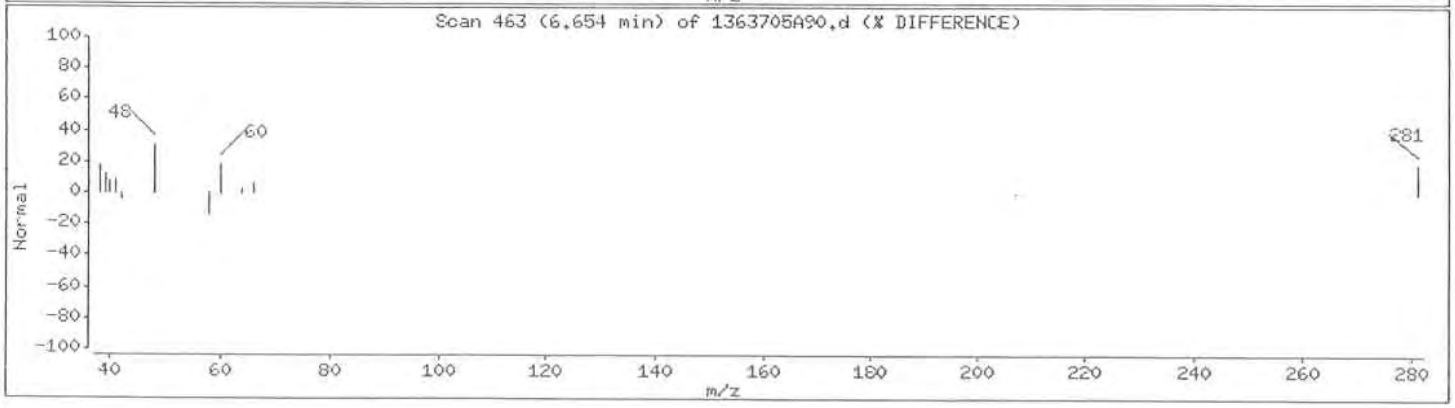
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 2.8 ug/L









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Date : 23-AUG-2007 16:46

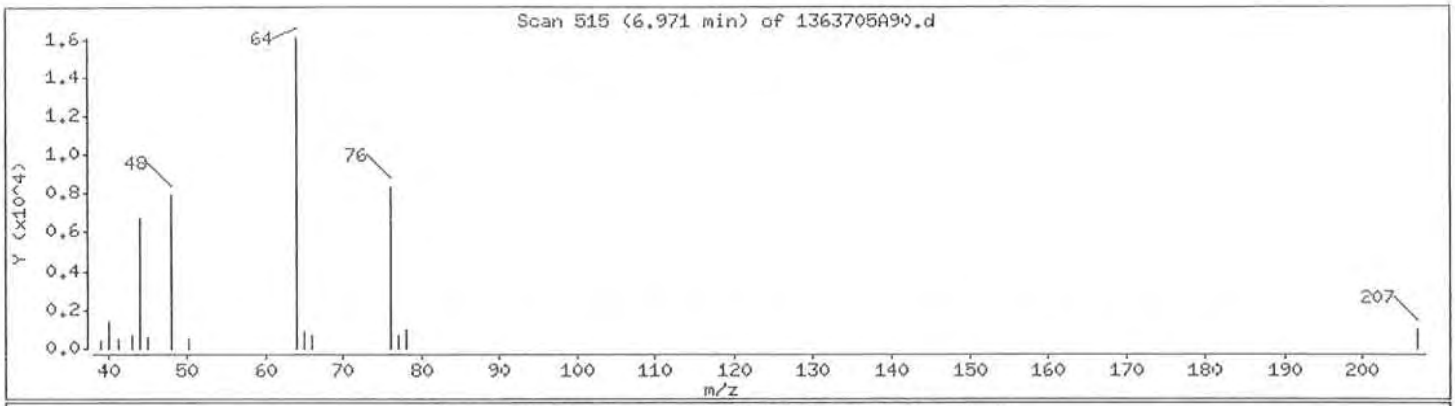
Client ID: Y3ET0 Instrument: 5973hp90.i

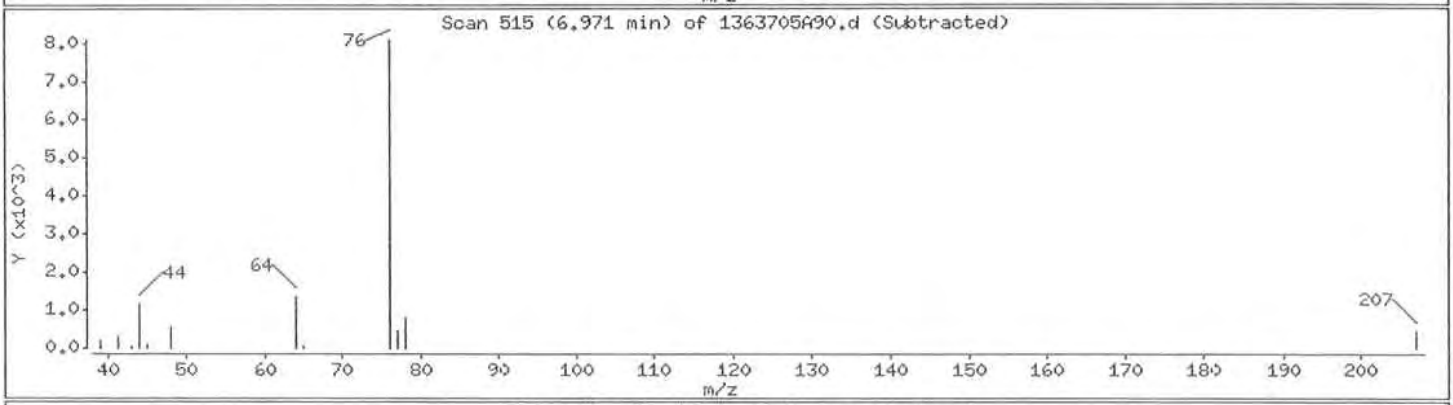
Sample Info: 1363705:2481

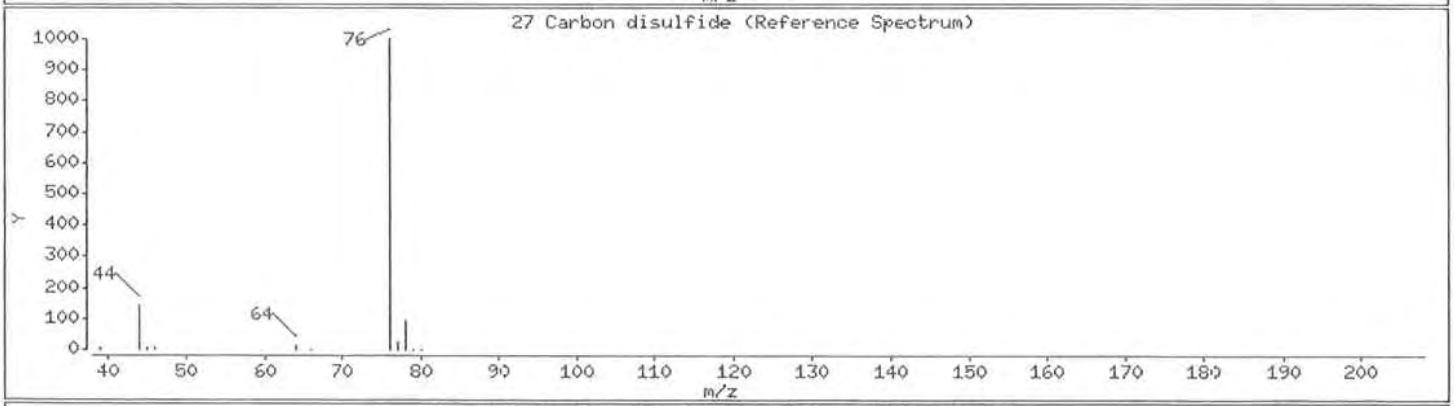
Purge Volume: 25.0 Operator: 2481

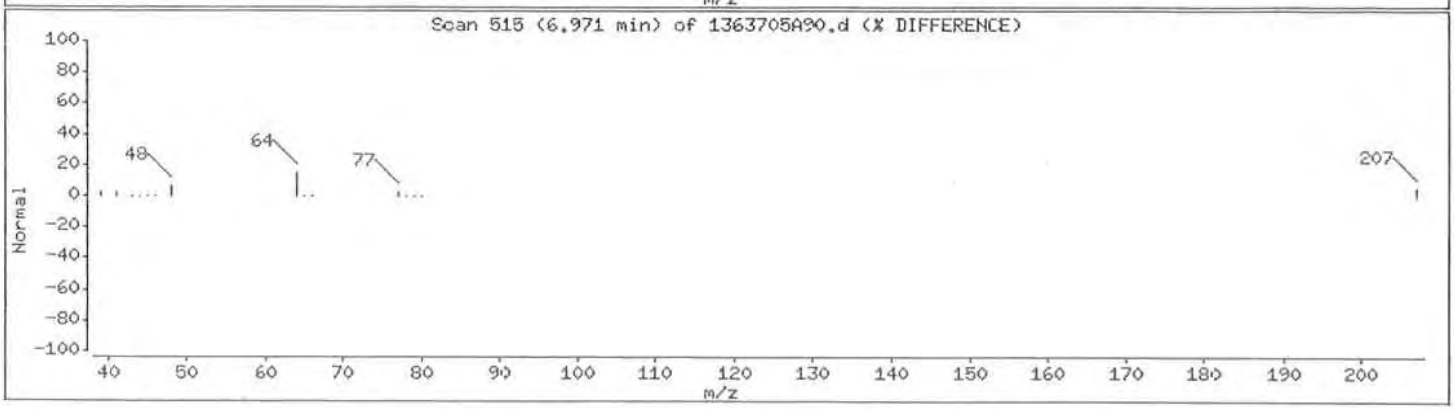
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.18 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d

Date : 23-AUG-2007 16:46

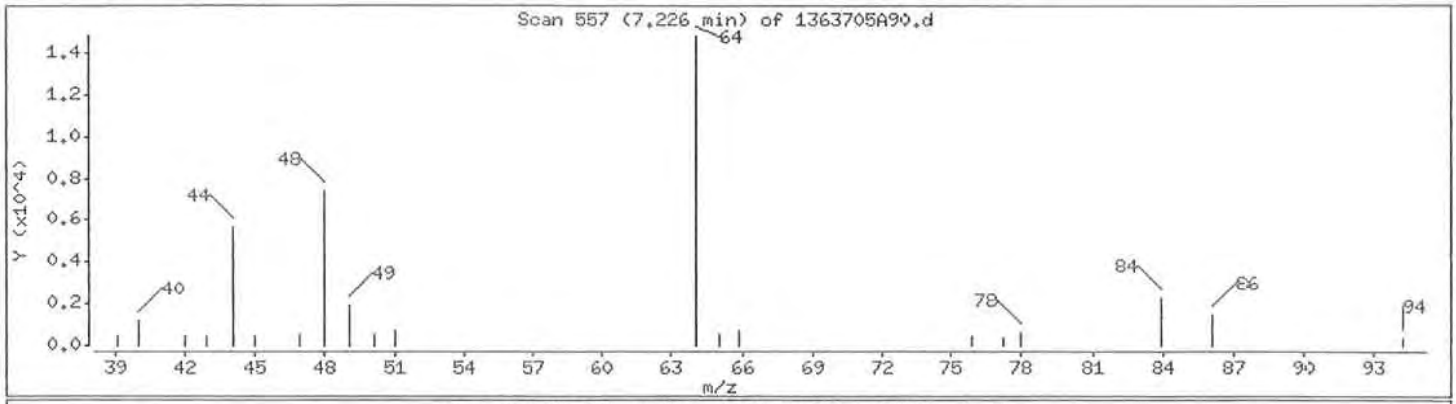
Client ID: Y3ET0 Instrument: 5973hp90.i

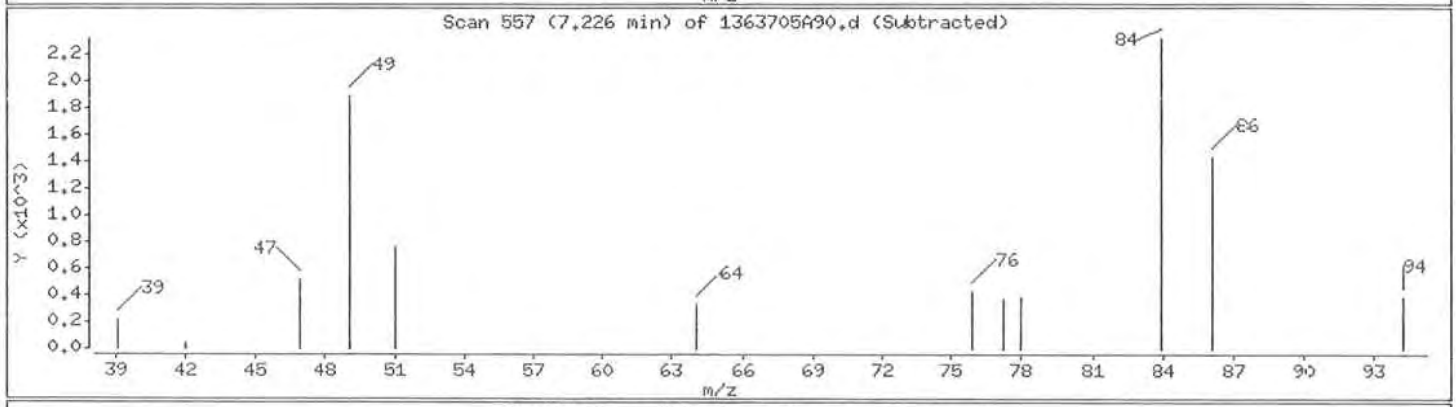
Sample Info: 1363705:2481

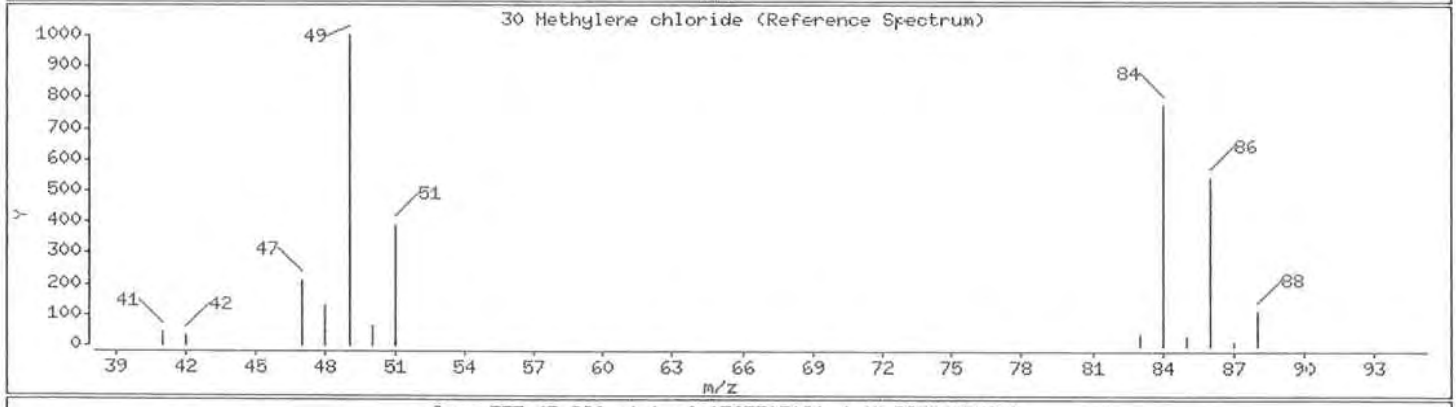
Purge Volume: 25.0 Operator: 2481

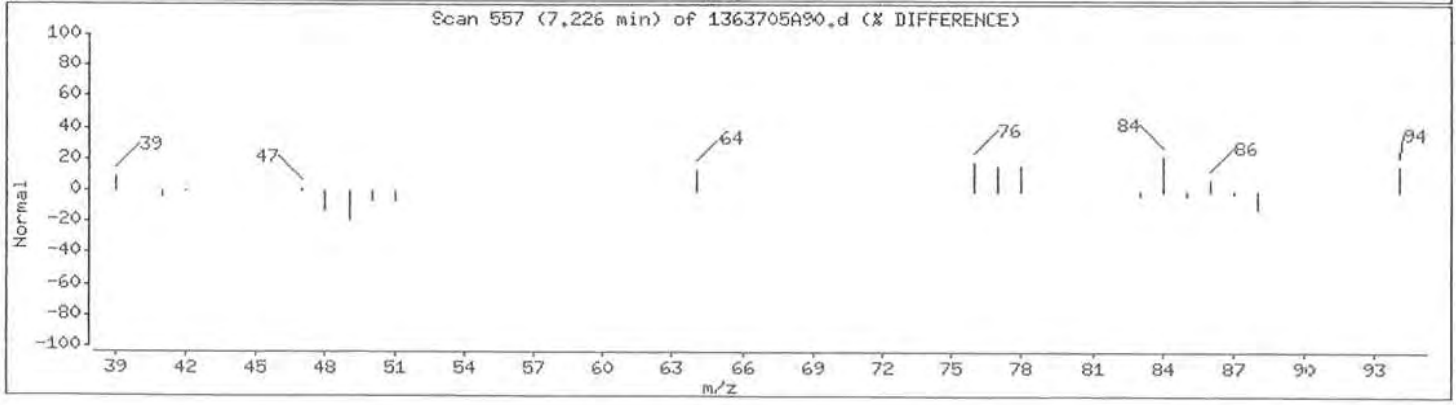
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.15 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d

Date : 23-AUG-2007 16:46

Client ID: Y3ETO

Instrument: 5973hp90.i

Sample Info: 1363705:2481

Purge Volume: 25.0

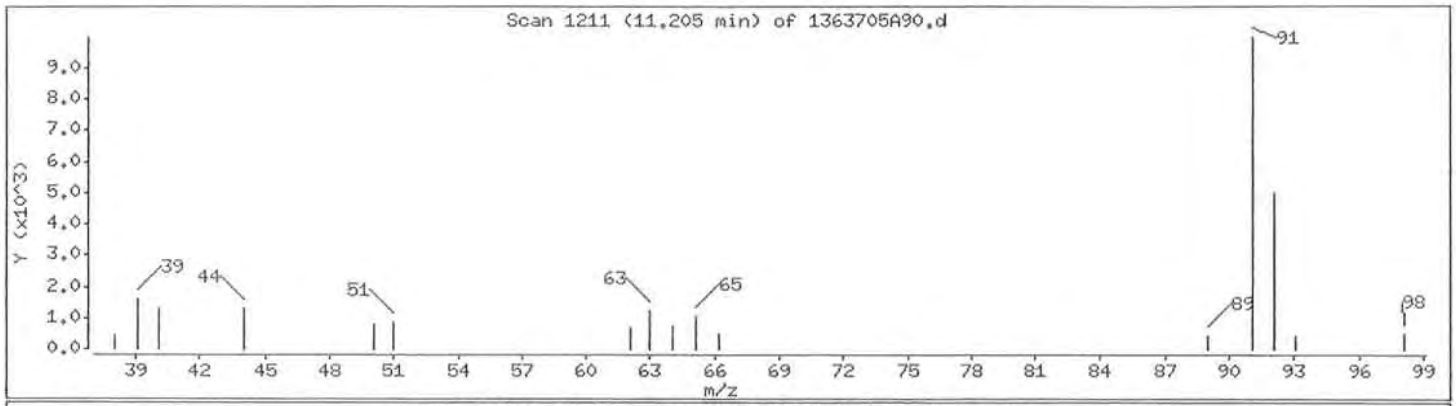
Operator: 2481

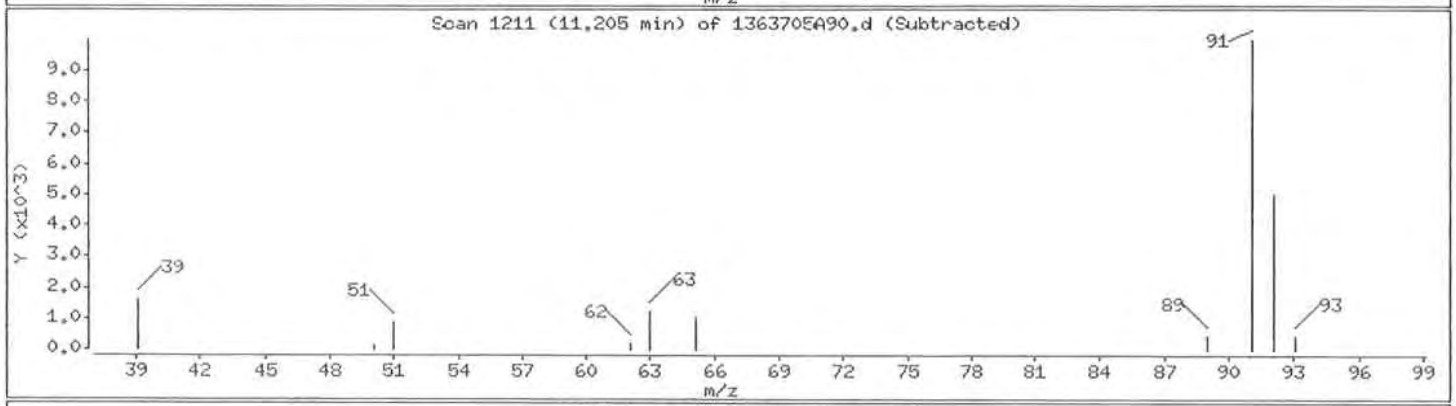
Column phase: SPB-624

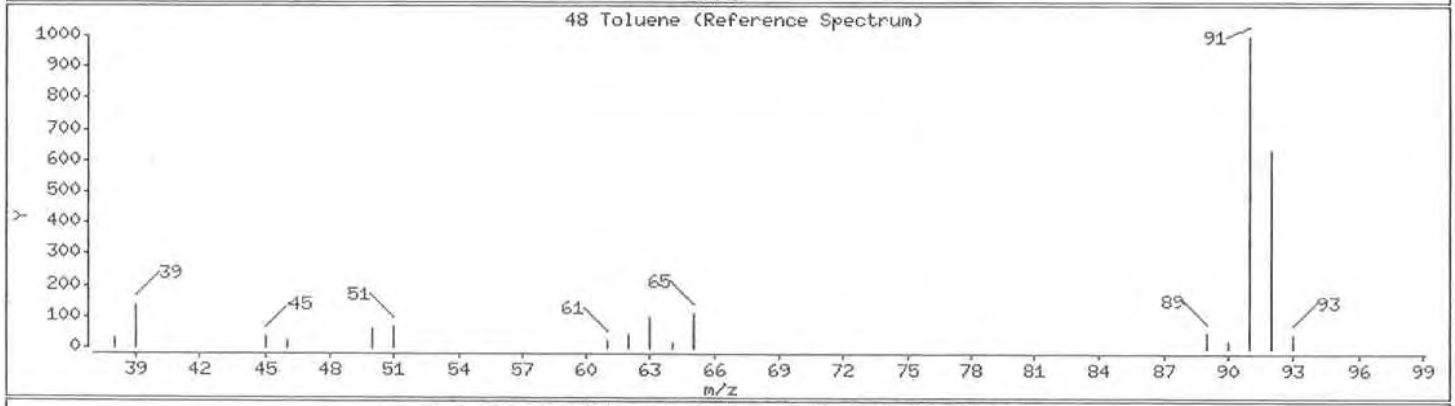
Column diameter: 0.32

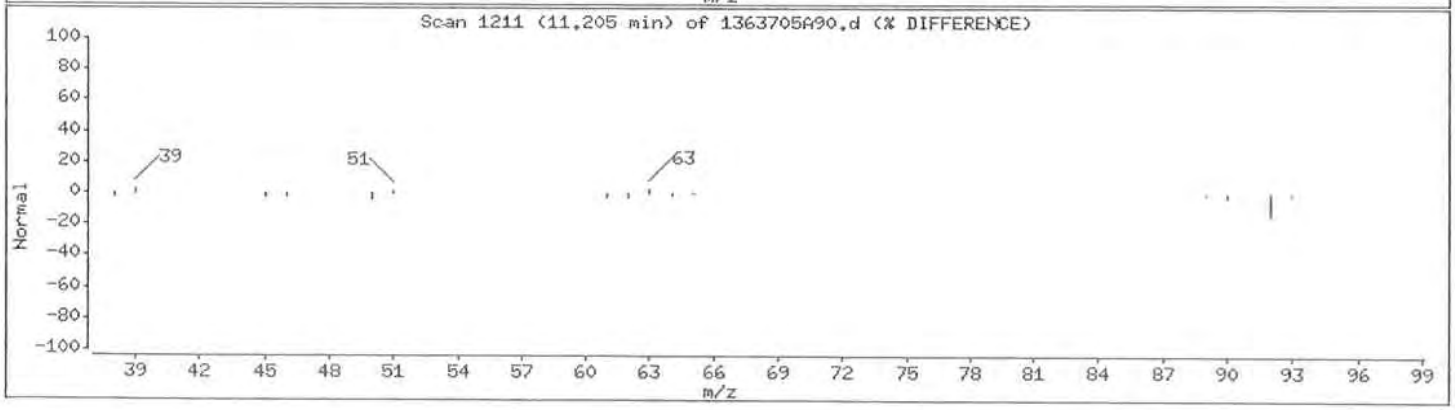
48 Toluene

Concentration: 0.18 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Report Date: 03-Sep-2007 10:09

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363705A90.d
Lab Smp Id: 1363705 Client Smp ID: Y3ET0
Inj Date : 23-AUG-2007 16:46
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363705:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	957038	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.294	1652227	215.799393	8.6	0		0	1

Data File: /chem/5973hp90.i/DF070823A90.b/1363705A90.d

Date : 23-AUG-2007 16:46

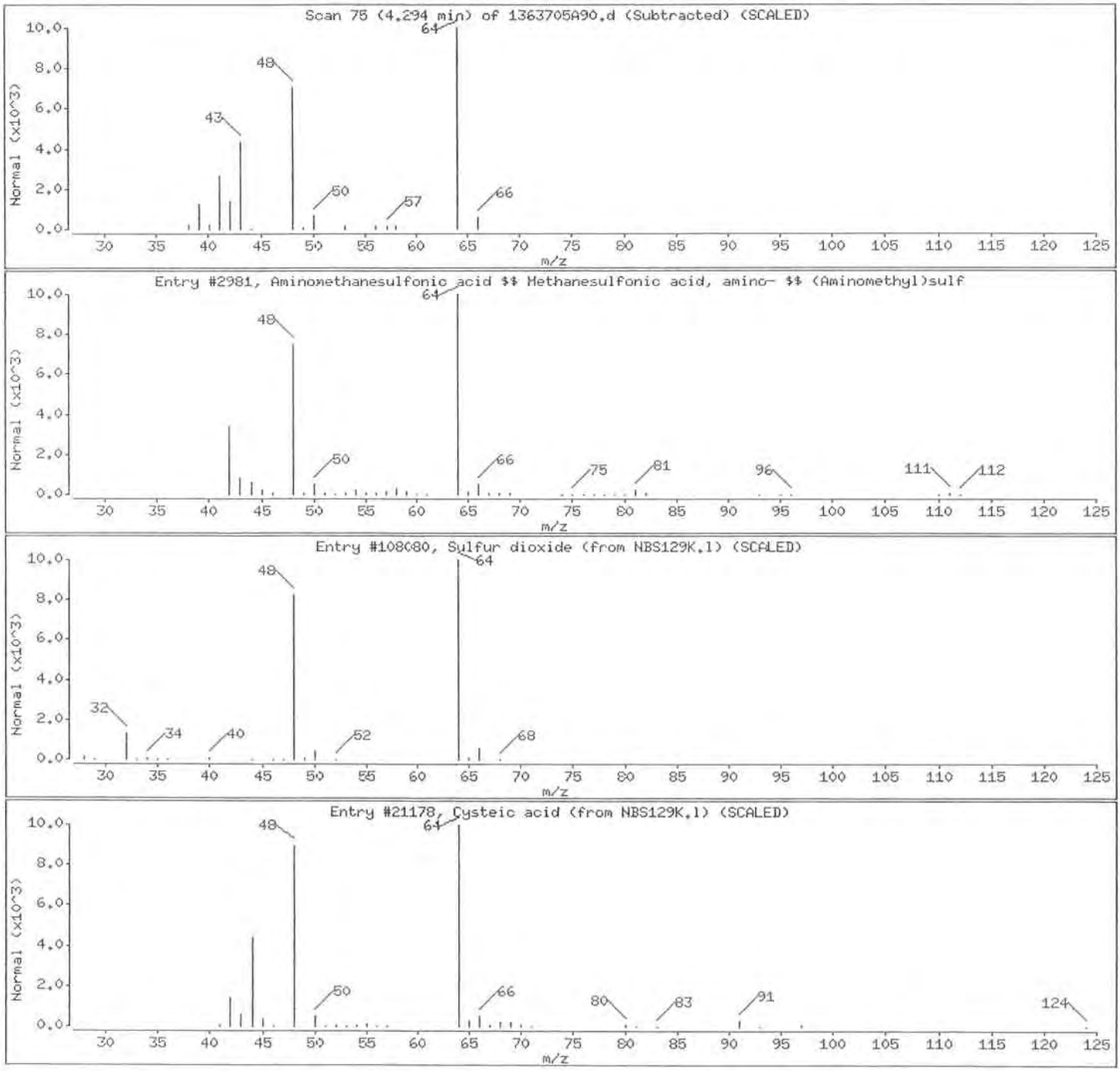
Client ID: Y3ET0 Instrument: 5973hp90.i

Sample Info: 1363705:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Aminomethanesulfonic acid $$ Methanesulf	13881-91-9	NBS129K.l	2981	83	CH5NO3S	111
Sulfur dioxide	7446-09-5	NBS129K.l	108080	78	O2S	64
Cysteic acid	0-00-0	NBS129K.l	21178	64	C3H7NO5S	169



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363720

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363720A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/28/2007

% Moisture: not dec. Date Analyzed: 08/29/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363720

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363720A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/28/2007

% Moisture: not dec. _____ Date Analyzed: 08/29/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.17	J
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363720

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363720A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/28/2007

% Moisture: not dec. Date Analyzed: 08/29/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	556-67-2	Cyclotetrasiloxane, octamethyl-	13.03	0.54	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363720

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363720A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/28/2007

% Moisture: not dec. Date Analyzed: 08/29/2007

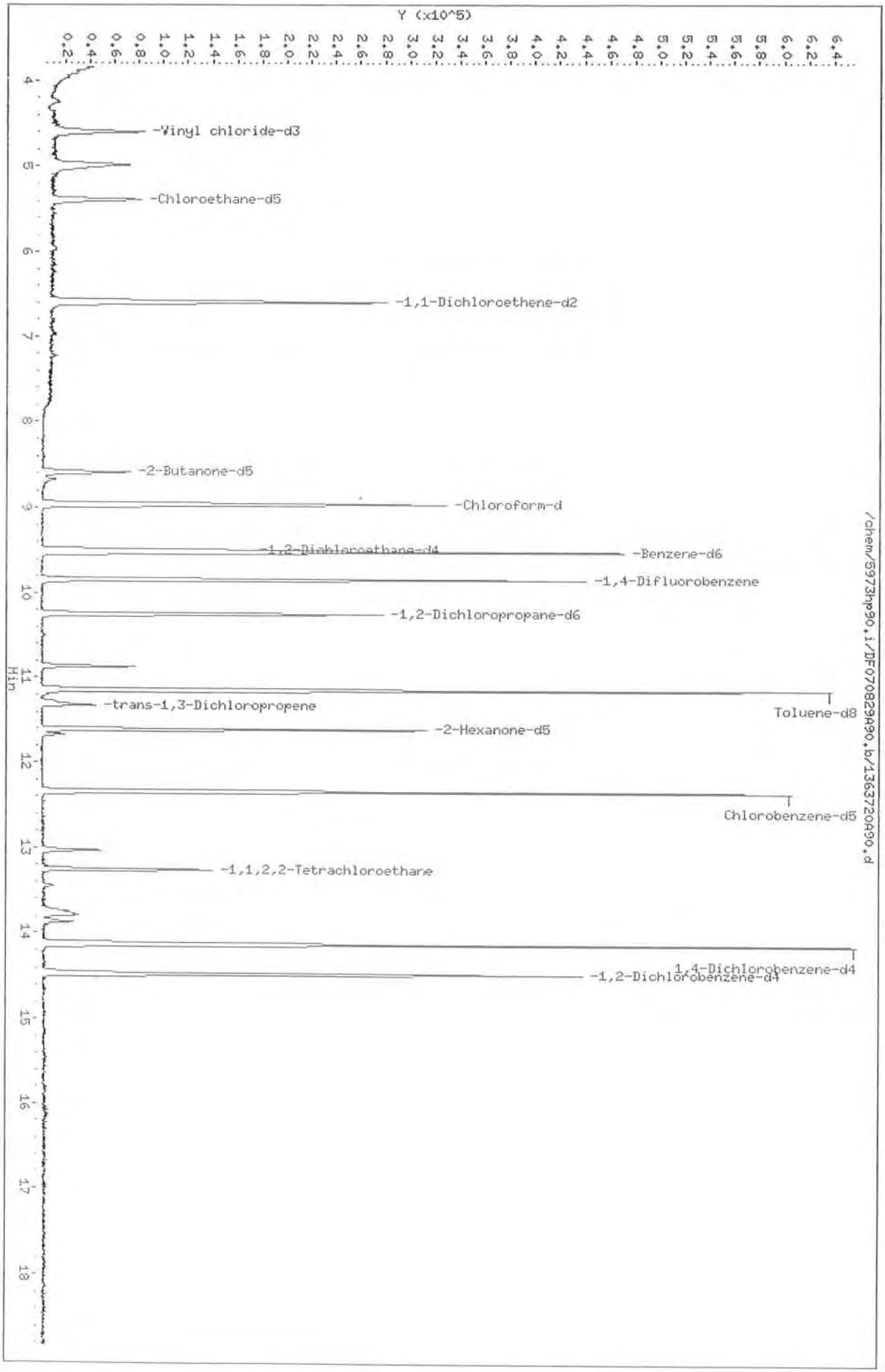
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	556-67-2	Cyclotetrasiloxane, octamethyl-	13.03	0.54	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.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Date : 29-AUG-2007 14:09
Client ID: Y3ET1
Sample Info: 1363720:2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
Vinyl chloride-d3
Chloroethane-d5
1,1-Dichloroethene-d2
2-Butanone-d5
Chloroform-d
1,2-Dichloroethane-d4
Benzene-d6
1,4-Difluorobenzene
1,2-Dichloropropane-d6
trans-1,3-Dichloropropene
Toluene-d8
2-Hexanone-d5
Chlorobenzene-d5
1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
1,2-Dichlorobenzene-d4
/chem/5973hp90.i/DF070829A90.b/1363720A90.d
Min

Data File: /chem/5973hp90.i/DF070829A90.b/1363720A90.d
Report Date: 03-Sep-2007 12:42

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070829A90.b/1363720A90.d
Lab Smp Id: 1363720 Client Smp ID: Y3ET1
Inj Date : 29-AUG-2007 14:09
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363720:2481
Misc Info : VMS:1448
Comment :
Method : /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:36 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Difluorobenzene	114	9.842	9.841	(1.000)	303285	125.000	
*	2 Chlorobenzene-d5	117	12.342	12.341	(1.000)	292000	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.131	14.136	(1.000)	167345	125.000	
$	4 Vinyl chloride-d3	65	4.598	4.597	(0.467)	107935	141.485	5.7
$	5 Chloroethane-d5	69	5.389	5.388	(0.548)	95556	149.148	6.0
$	6 1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	228444	110.279	4.4
$	7 2-Butanone-d5	46	8.589	8.594	(0.873)	92163	808.102	32
$	8 Chloroform-d	84	8.960	8.965	(0.910)	293442	141.693	5.7
$	9 1,2-Dichloroethane-d4	65	9.489	9.494	(0.964)	120758	127.449	5.1
$	10 Benzene-d6	84	9.520	9.519	(0.771)	405822	132.116	5.3
$	11 1,2-Dichloropropane-d6	67	10.243	10.249	(0.830)	105005	120.071	4.8
$	12 Toluene-d8	98	11.144	11.143	(0.903)	385435	126.347	5.1
$	13 trans-1,3-Dichloropropene-d4	79	11.320	11.326	(0.917)	24635	87.1951	3.5(R)
$	14 2-Hexanone-d5	63	11.606	11.611	(0.940)	85929	899.417	36
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	59175	117.441	4.7
$	17 1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	118896	104.895	4.2
	18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070829A90.b/1363720A90.d
Report Date: 03-Sep-2007 12:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	Compound Not Detected.					
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	11.673	11.678	(0.946)	3310	4.13546	0.17(a)
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070829A90.b/1363720A90.d
Report Date: 03-Sep-2007 12:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/5973hp90.i/DF070829A90.b/1363720A90.d

Date : 29-AUG-2007 14:09

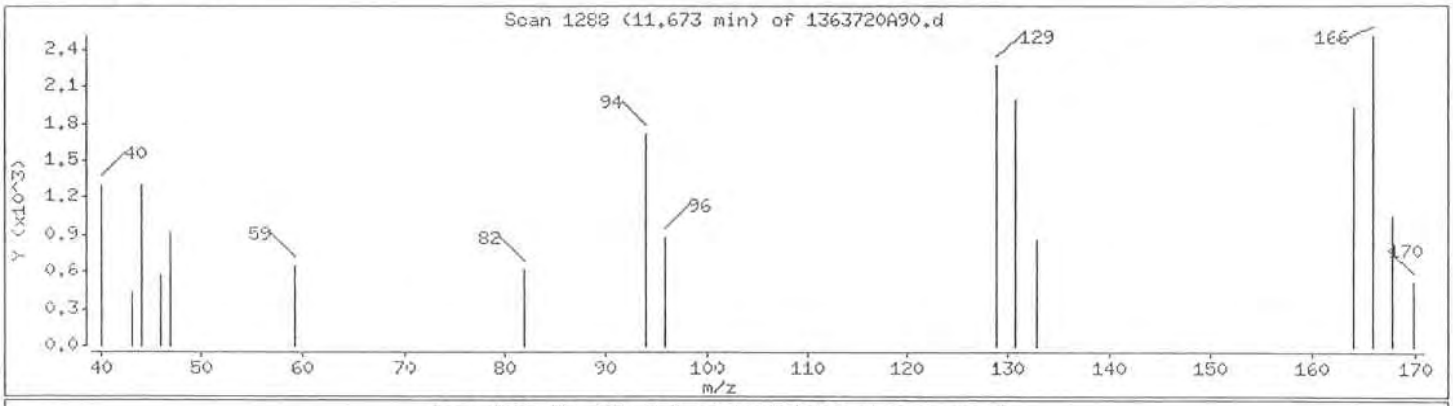
Client ID: Y3ET1 Instrument: 5973hp90.i

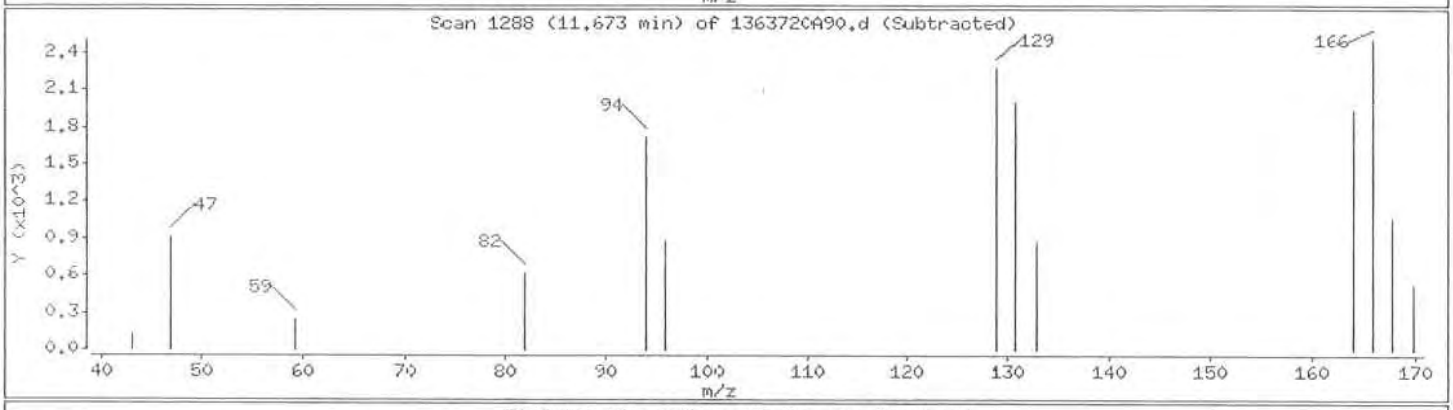
Sample Info: 1363720:2481

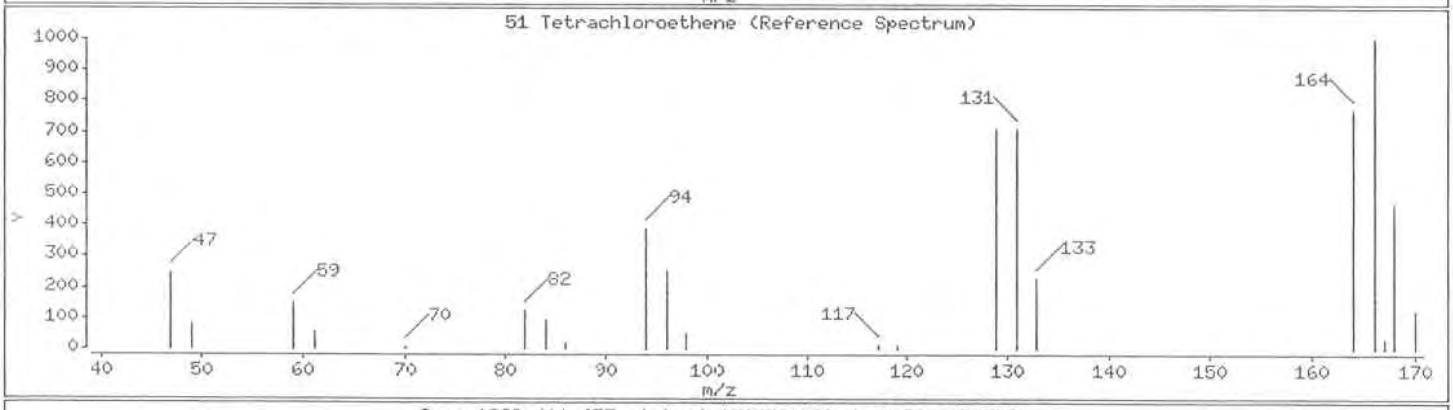
Purge Volume: 25.0 Operator: 2481

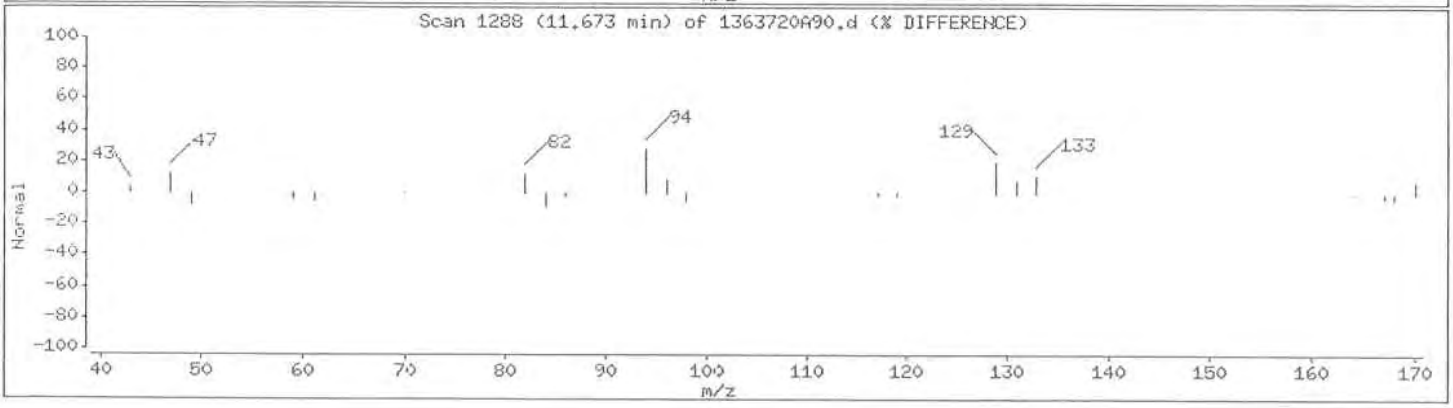
Column phase: SPB-624 Column diameter: 0.32

51 Tetrachloroethene Concentration: 0.17 ug/L









Data File: /chem/5973hp90.i/DF070829A90.b/1363720A90.d
Report Date: 03-Sep-2007 12:42

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070829A90.b/1363720A90.d
Lab Smp Id: 1363720 Client Smp ID: Y3ET1
Inj Date : 29-AUG-2007 14:09
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363720:2481
Misc Info : VMS:1448
Comment :
Method : /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:36 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 2 Chlorobenzene-d5	12.342	958630	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-			CAS #: 556-67-2				
13.030	104057	13.5684533	0.54	90	NBS129K.1	125682	2

Data File: /chem/5973hp90.i/DF070829A90.b/1363720A90.d

Date : 29-AUG-2007 14:09

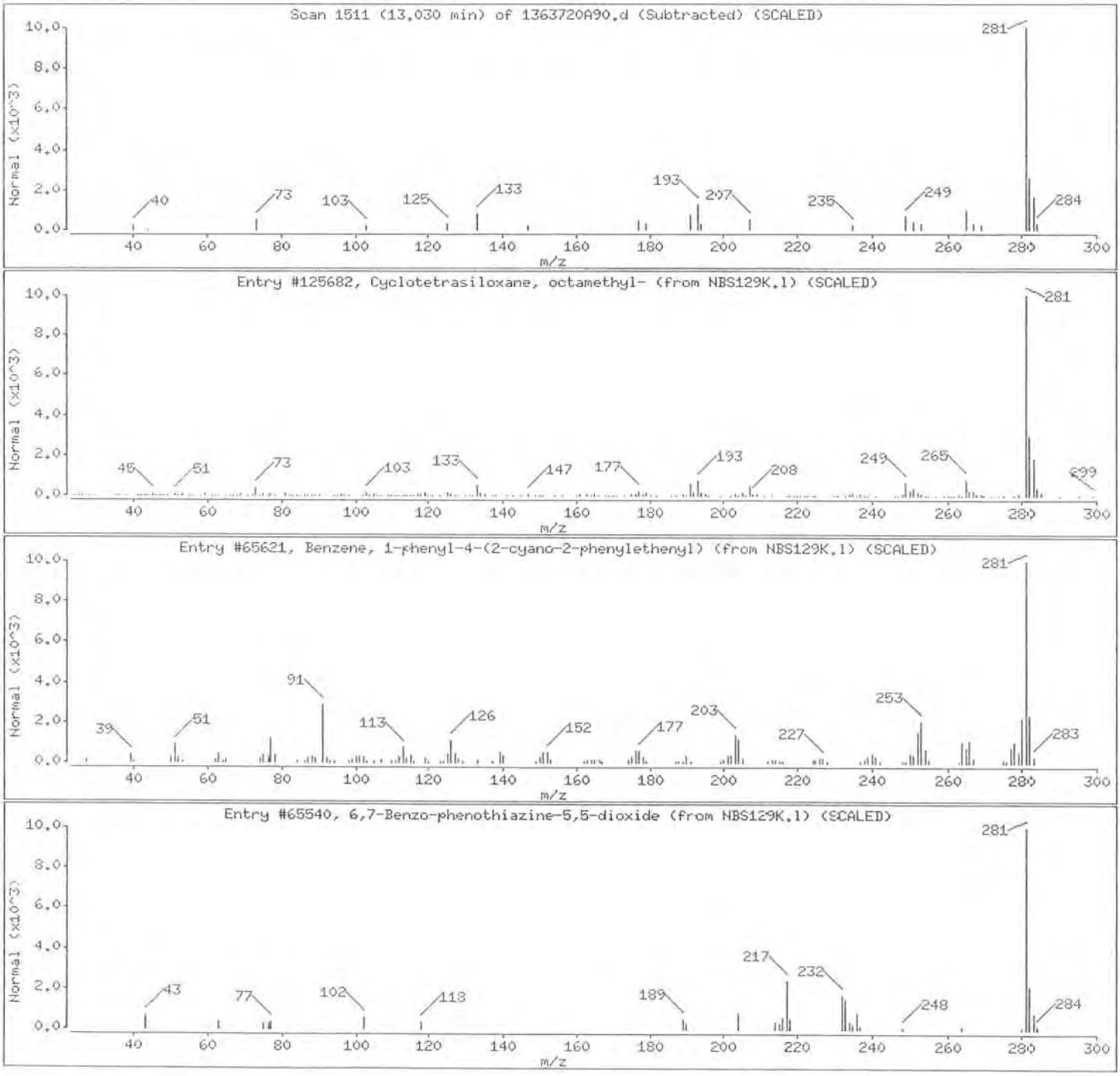
Client ID: Y3ET1 Instrument: 5973hp90.i

Sample Info: 1363720:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	90	C8H24O4Si4	296
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-56-3	NBS129K.l	65621	59	C21H15N	281
6,7-Benzo-phenothiazine-5,5-dioxide	1225-11-2	NBS129K.l	65540	45	C16H11NO2S	281



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET2

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363708

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363708A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.32	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.13	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET2

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363708

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363708A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.14	J
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET2

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363708

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363708A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. _____ Date Analyzed: 08/23/2007

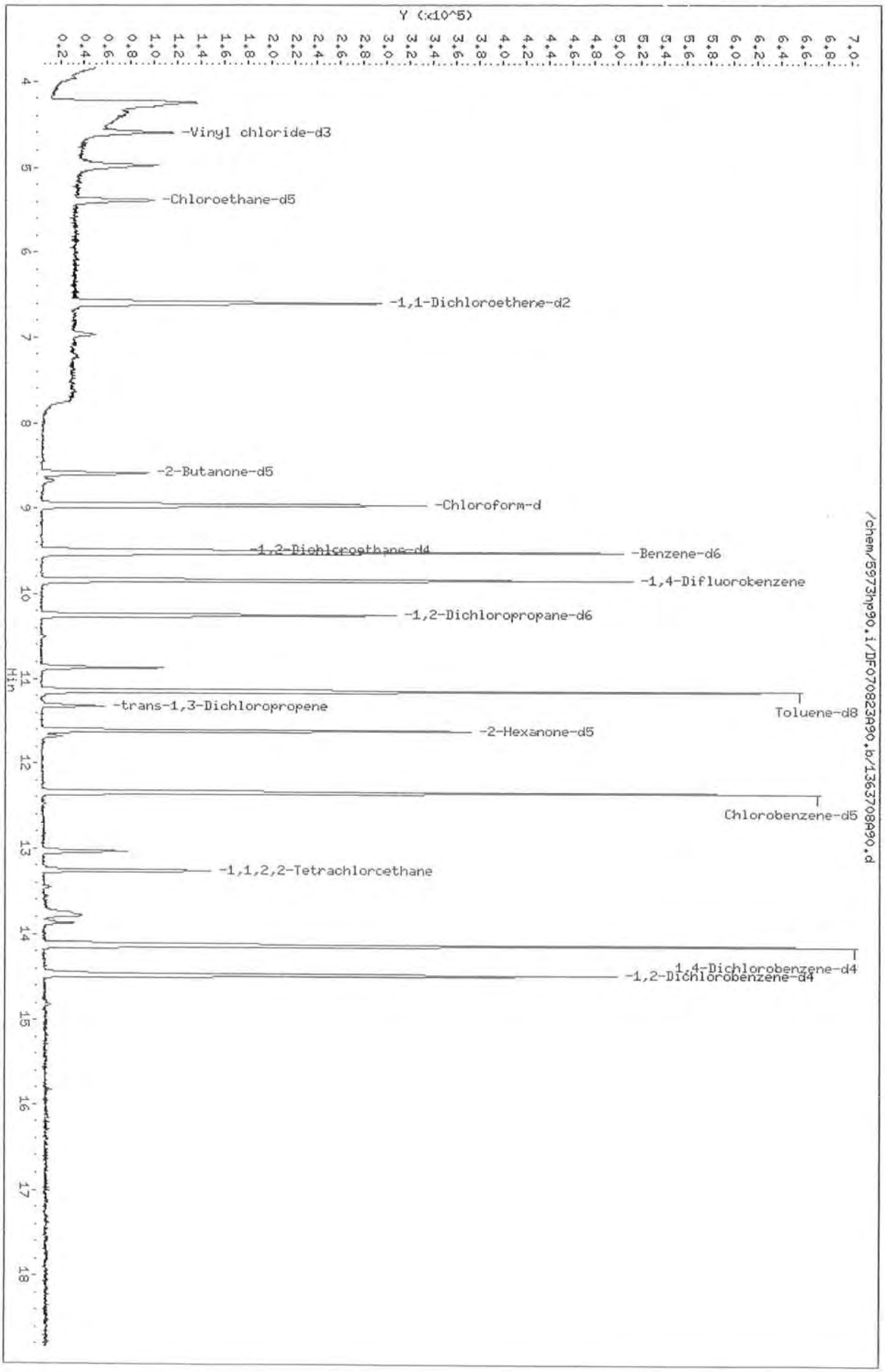
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.25	7.7	J
02		Unknown	13.03	0.69	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.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Date : 23-AUG-2007 17:15
Client ID: Y3ET2
Sample Info: 1363708;2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
Min
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-trans-1,3-Dichloropropene
Toluene-d8
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
/chem/5973hp90.i/DF070823A90.b/1363708A90.d

Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d
Report Date: 03-Sep-2007 10:11

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363708A90.d
Lab Smp Id: 1363708 Client Smp ID: Y3ET2
Inj Date : 23-AUG-2007 17:15
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363708:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	345210	125.000	
* 2 Chlorobenzene-d5	117	12.341	12.341	(1.000)	318738	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.130	14.130	(1.000)	173154	125.000	
$ 4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	103510	119.206	4.8
$ 5 Chloroethane-d5	69	5.388	5.388	(0.547)	96019	131.670	5.3
$ 6 1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	232418	98.5709	3.9
$ 7 2-Butanone-d5	46	8.588	8.588	(0.873)	131288	1011.35	40
$ 8 Chloroform-d	84	8.965	8.965	(0.911)	295589	125.396	5.0
$ 9 1,2-Dichloroethane-d4	65	9.488	9.494	(0.964)	135829	125.944	5.0
$ 10 Benzene-d6	84	9.519	9.519	(0.771)	418148	124.709	5.0
$ 11 1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	116733	122.284	4.9
$ 12 Toluene-d8	98	11.143	11.143	(0.903)	409482	122.969	4.9
$ 13 trans-1,3-Dichloropropene-d4	79	11.325	11.325	(0.918)	32633	105.815	4.2
$ 14 2-Hexanone-d5	63	11.611	11.611	(0.941)	107123	1027.20	41
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.254	13.260	(1.074)	64010	116.380	4.7
$ 17 1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	129749	110.630	4.4
18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d
Report Date: 03-Sep-2007 10:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	6.970	6.970	(0.708)	34146	8.04260	0.32(a)
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.237	7.225	(0.735)	3797	3.33261	0.13(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	11.684	11.678	(0.947)	3050	3.49096	0.14(a)
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d
Report Date: 03-Sep-2007 10:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d

Date : 23-AUG-2007 17:15

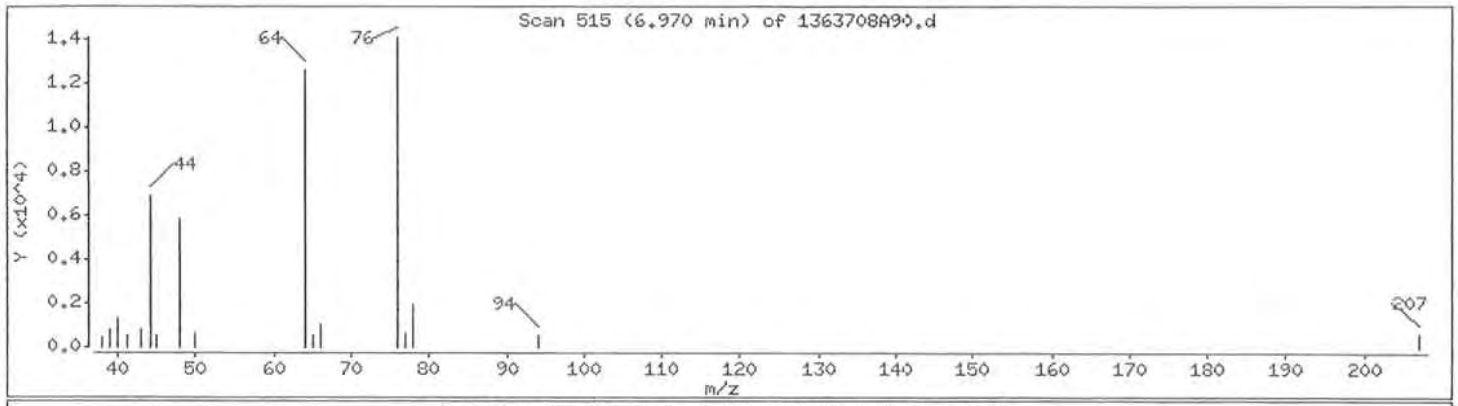
Client ID: Y3ET2 Instrument: 5973hp90.i

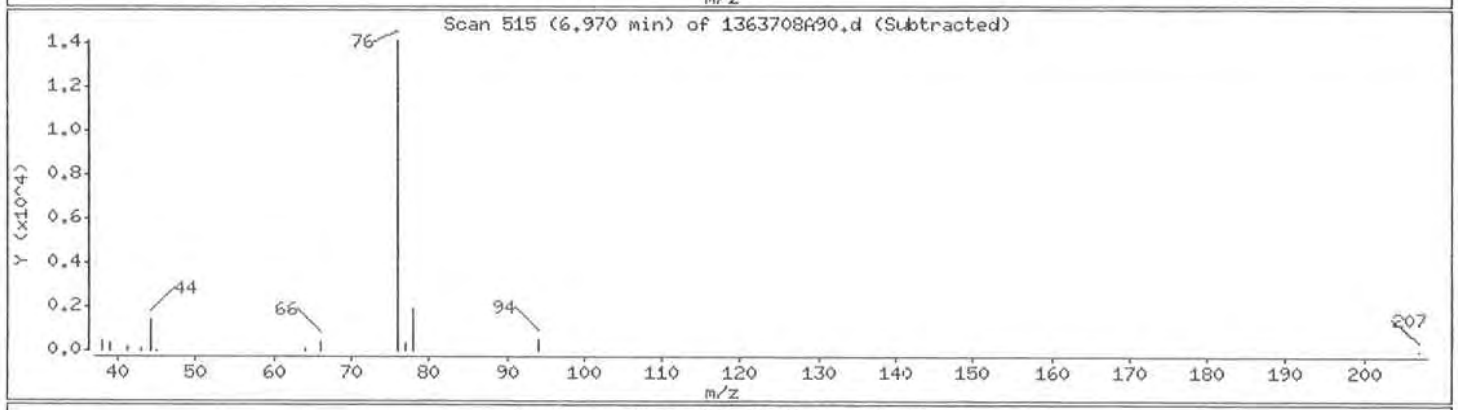
Sample Info: 1363708;2481

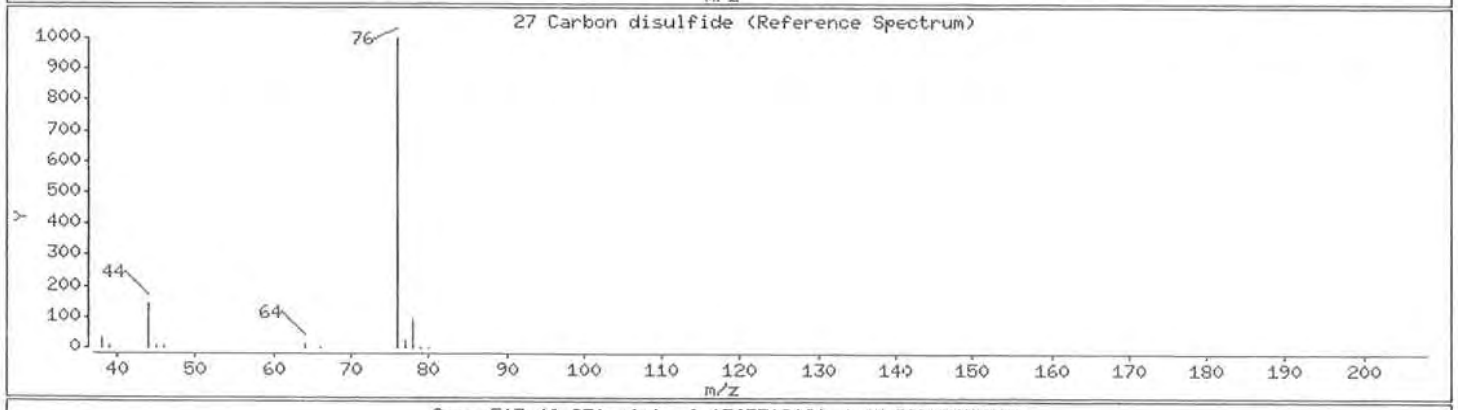
Purge Volume: 25.0 Operator: 2481

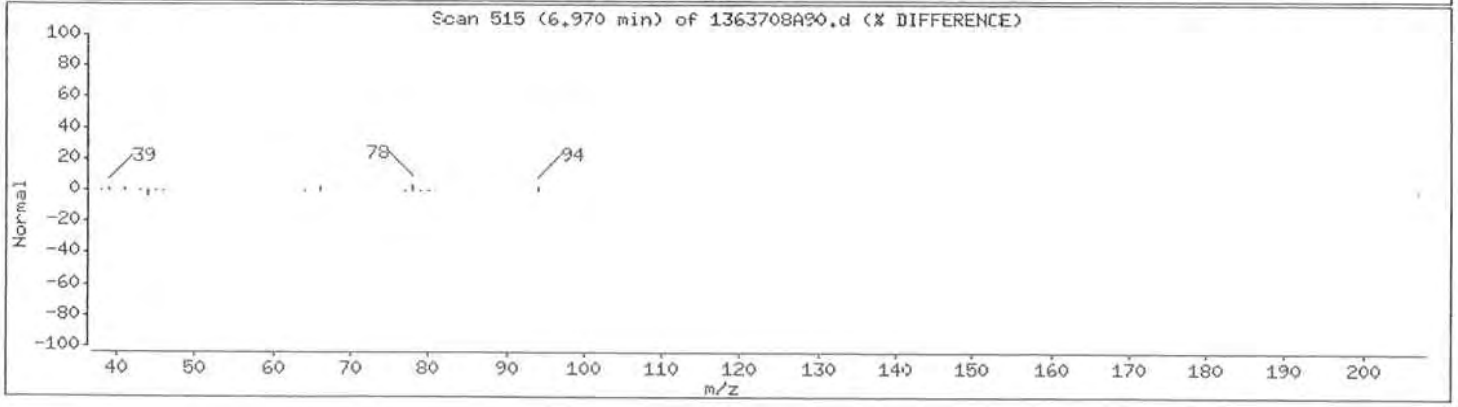
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.32 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d

Date : 23-AUG-2007 17:15

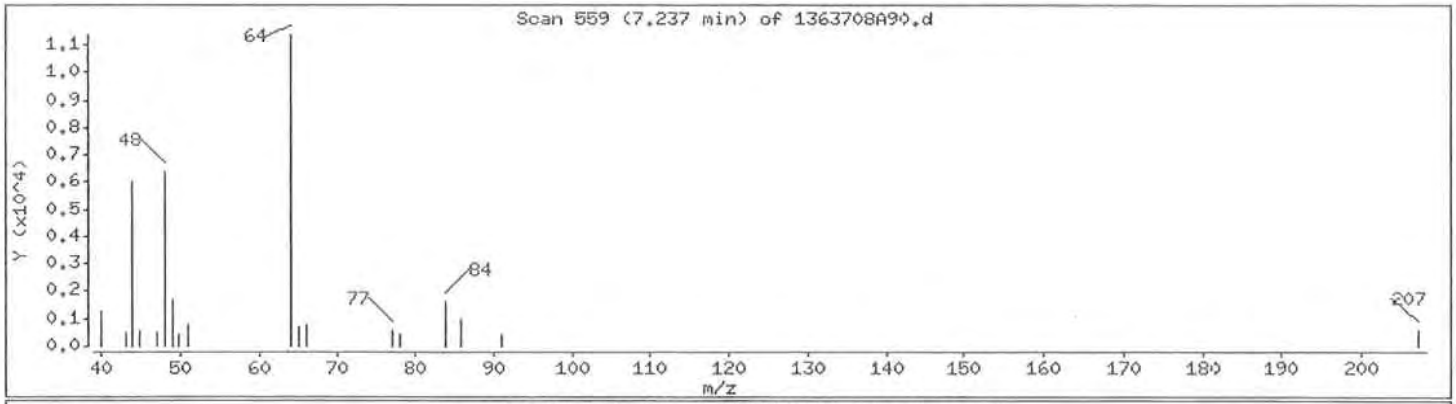
Client ID: Y3ET2 Instrument: 5973hp90.i

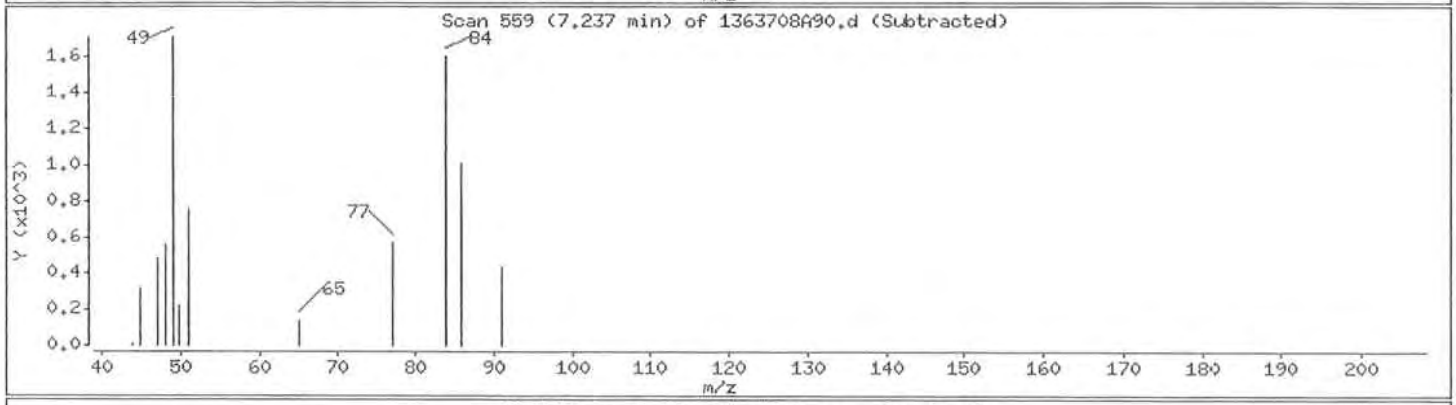
Sample Info: 1363708:2481

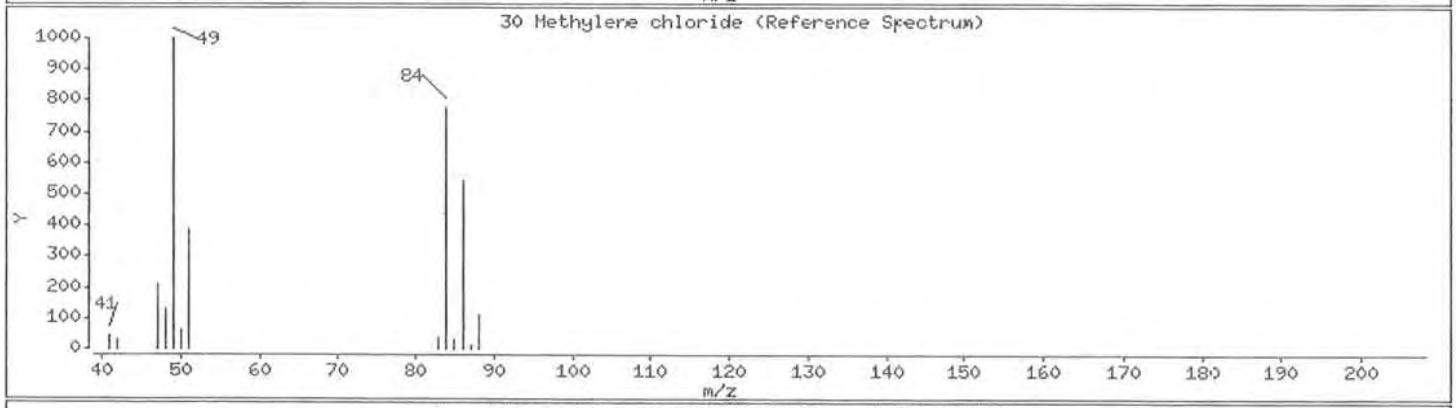
Purge Volume: 25.0 Operator: 2481

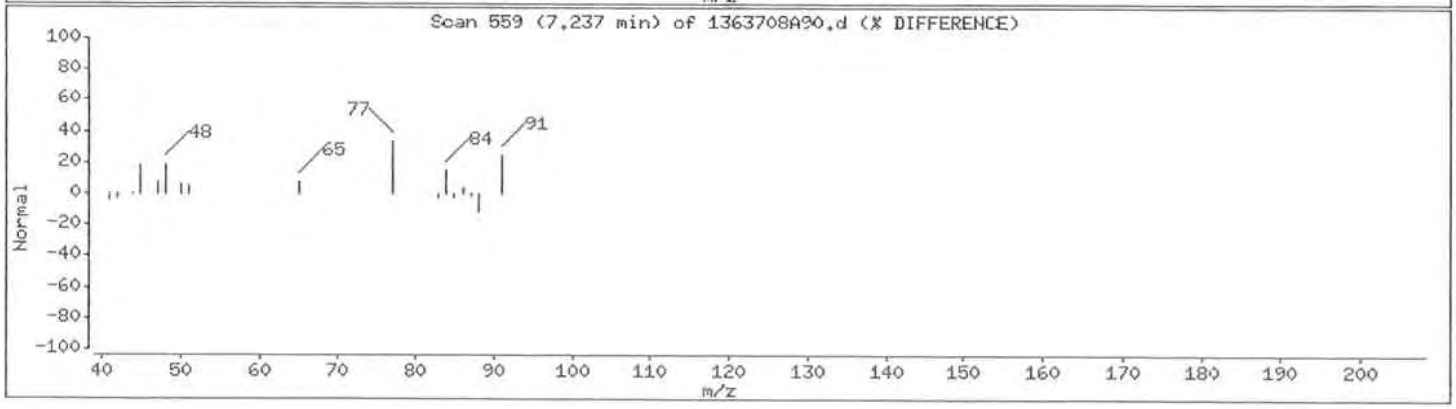
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.13 ug/L









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Date : 23-AUG-2007 17:15

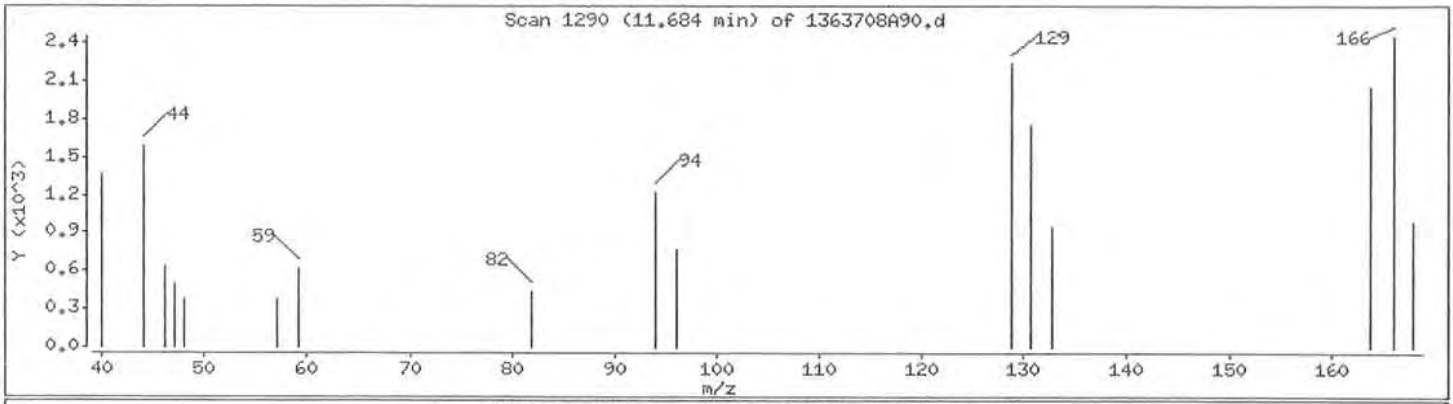
Client ID: Y3ET2 Instrument: 5973hp90.i

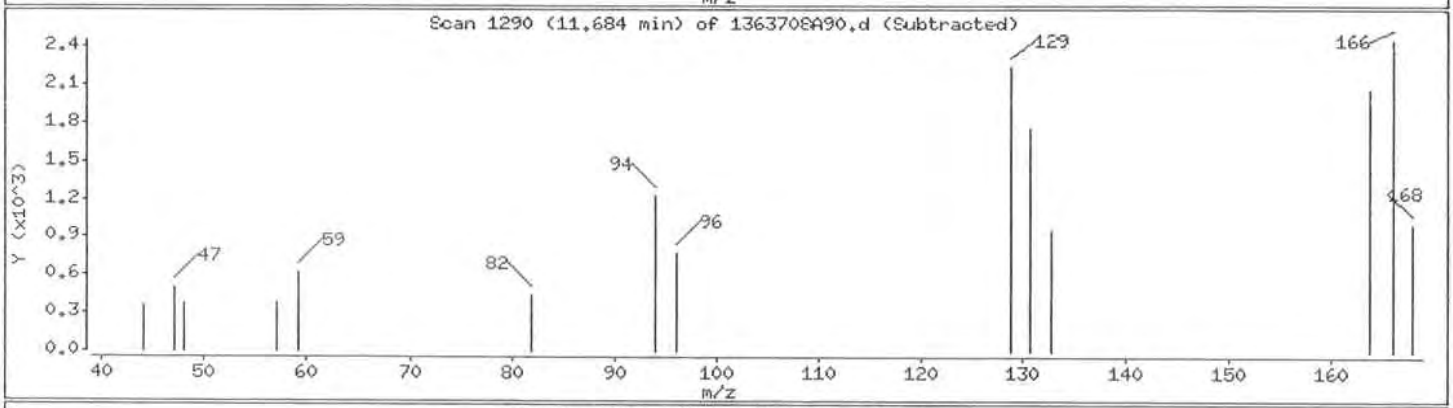
Sample Info: 1363708:2481

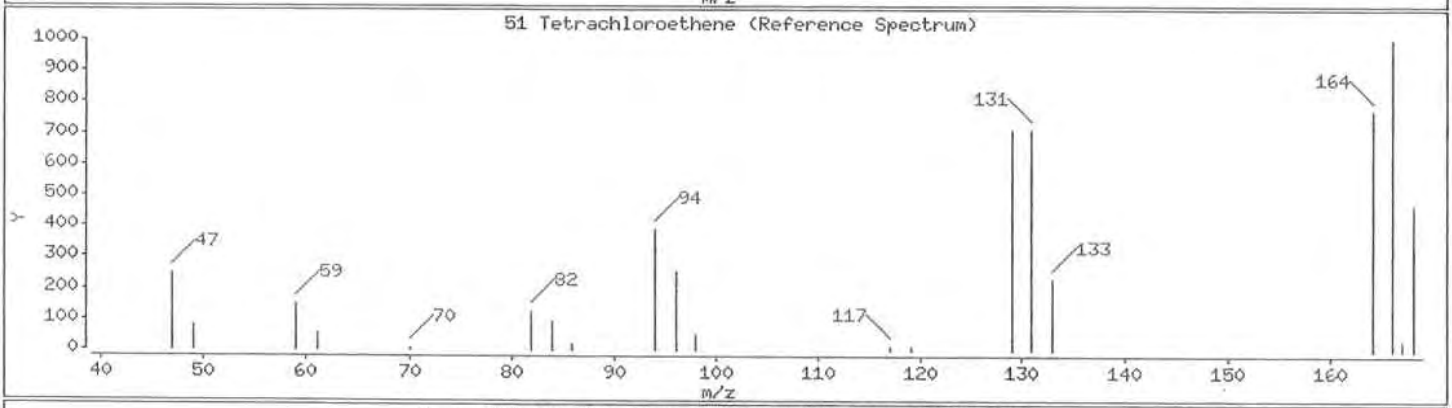
Purge Volume: 25.0 Operator: 2481

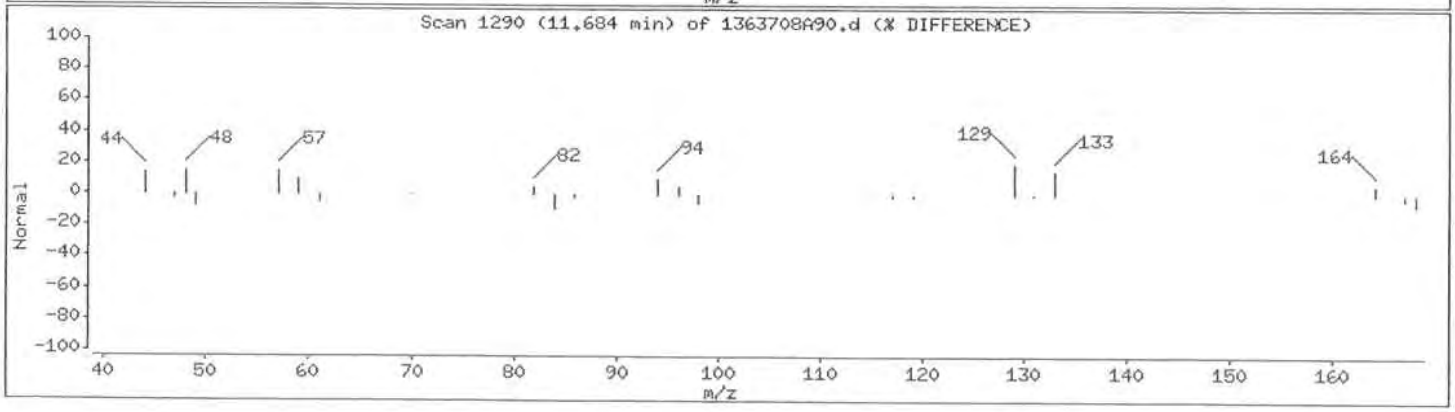
Column phase: SPB-624 Column diameter: 0.32

51 Tetrachloroethene Concentration: 0.14 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d
Report Date: 03-Sep-2007 10:11

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363708A90.d
Lab Smp Id: 1363708 Client Smp ID: Y3ET2
Inj Date : 23-AUG-2007 17:15
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363708:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.841	923440	125.000
* 2 Chlorobenzene-d5	12.341	1095960	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.250	1417028	191.813694	7.7	0		0	1
Unknown				CAS #:			
13.035	151328	17.2597978	0.69	0		0	2

Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d

Date : 23-AUG-2007 17:15

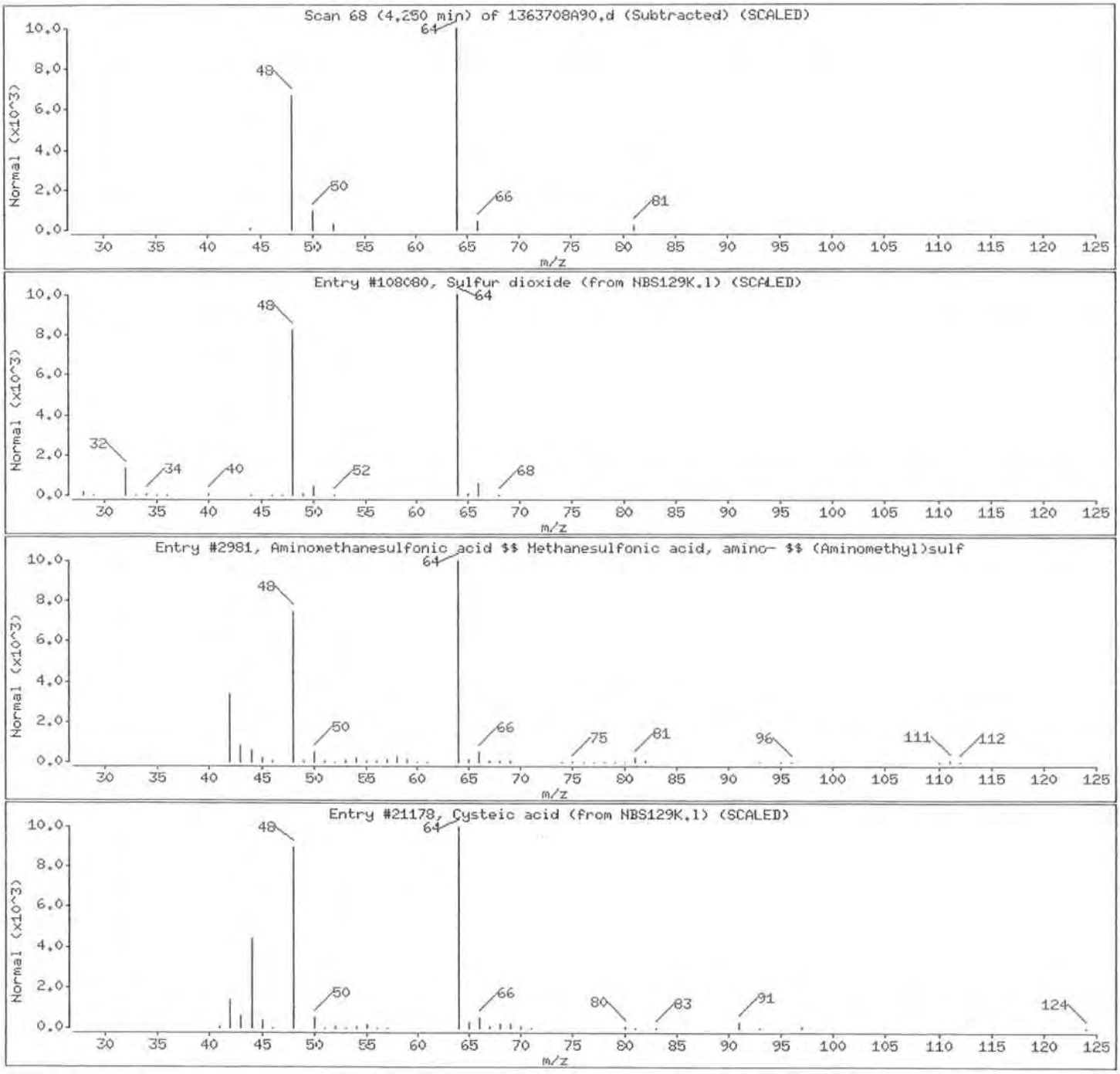
Client ID: Y3ET2 Instrument: 5973hp90.i

Sample Info: 1363708:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sulfur dioxide	7446-09-5	NBS129K.l	108080	74	O2S	64
Aminomethanesulfonic acid $$ Methanesulf	13881-91-9	NBS129K.l	2981	64	CH5NO3S	111
Cysteic acid	0-00-0	NBS129K.l	21178	9	C3H7NO5S	169



Data File: /chem/5973hp90.i/DF070823A90.b/1363708A90.d

Date : 23-AUG-2007 17:15

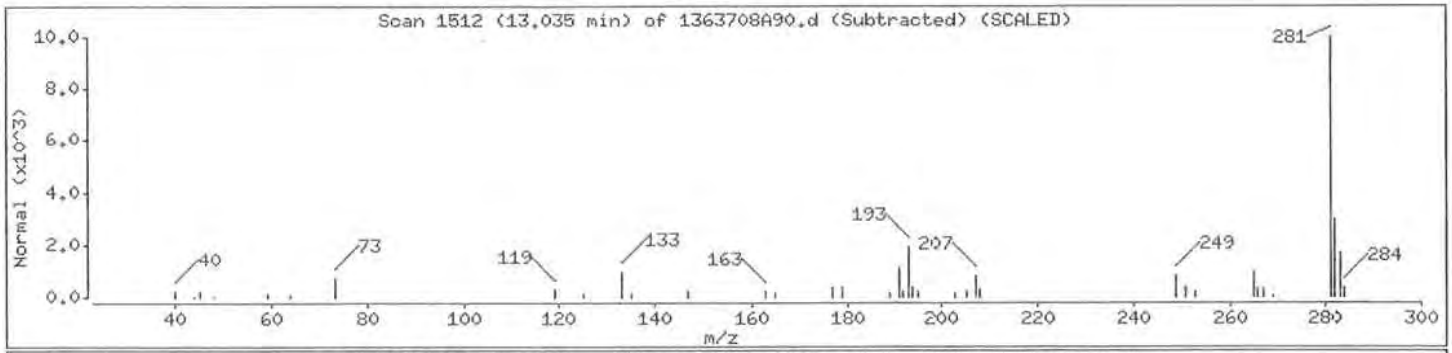
Client ID: Y3ET2 Instrument: 5973hp90.i

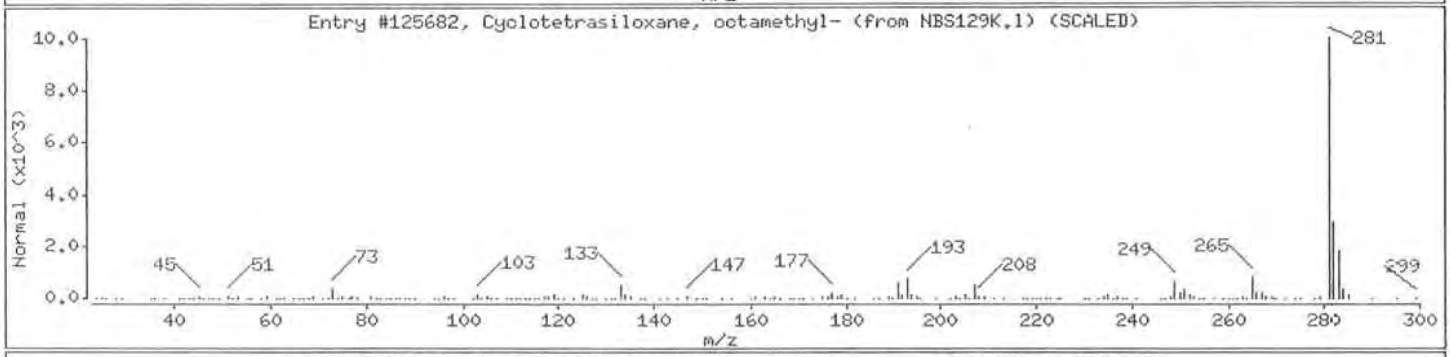
Sample Info: 1363708:2481

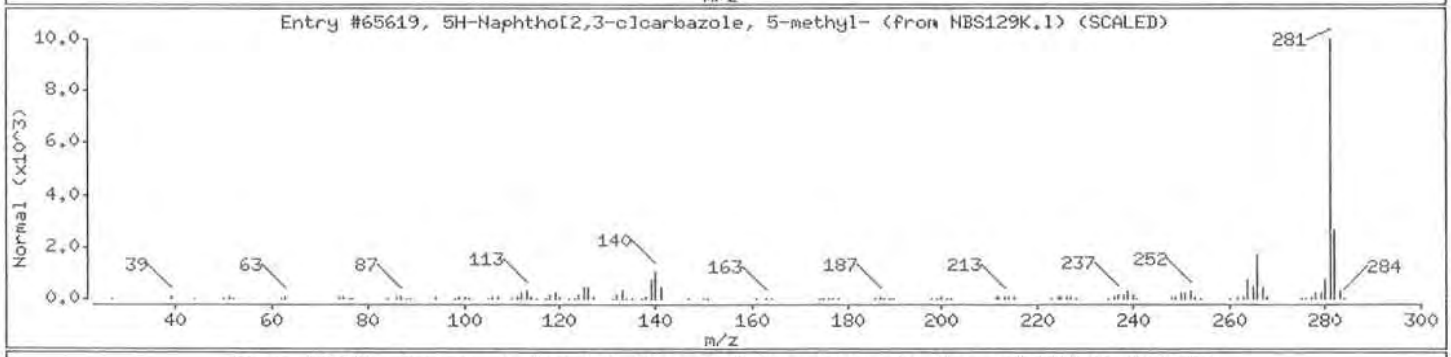
Purge Volume: 25.0 Operator: 2481

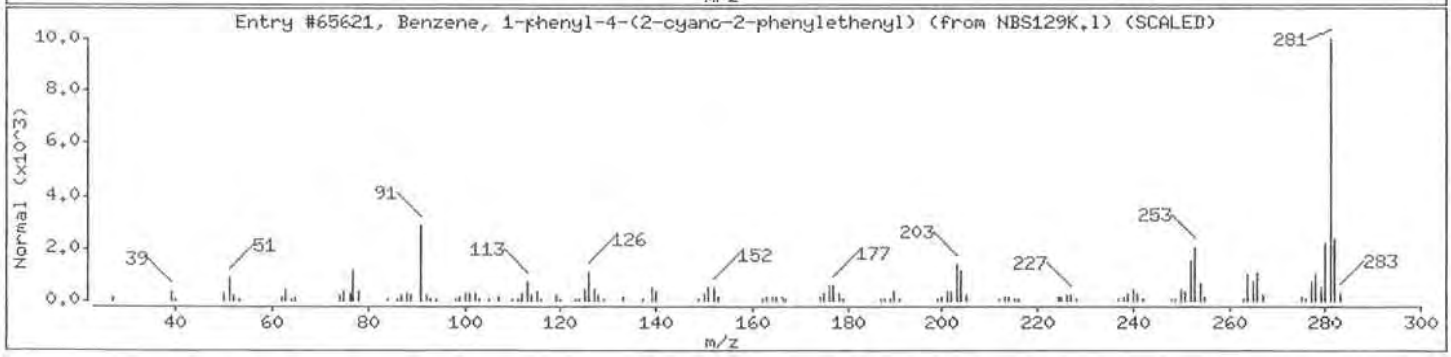
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	83	C8H2404Si4	296
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NBS129K.l	65619	53	C21H15N	281
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-56-3	NBS129K.l	65621	50	C21H15N	281









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET3

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363711

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363711A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	4.2	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.14	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET3

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363711

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363711A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET3

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363711

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363711A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

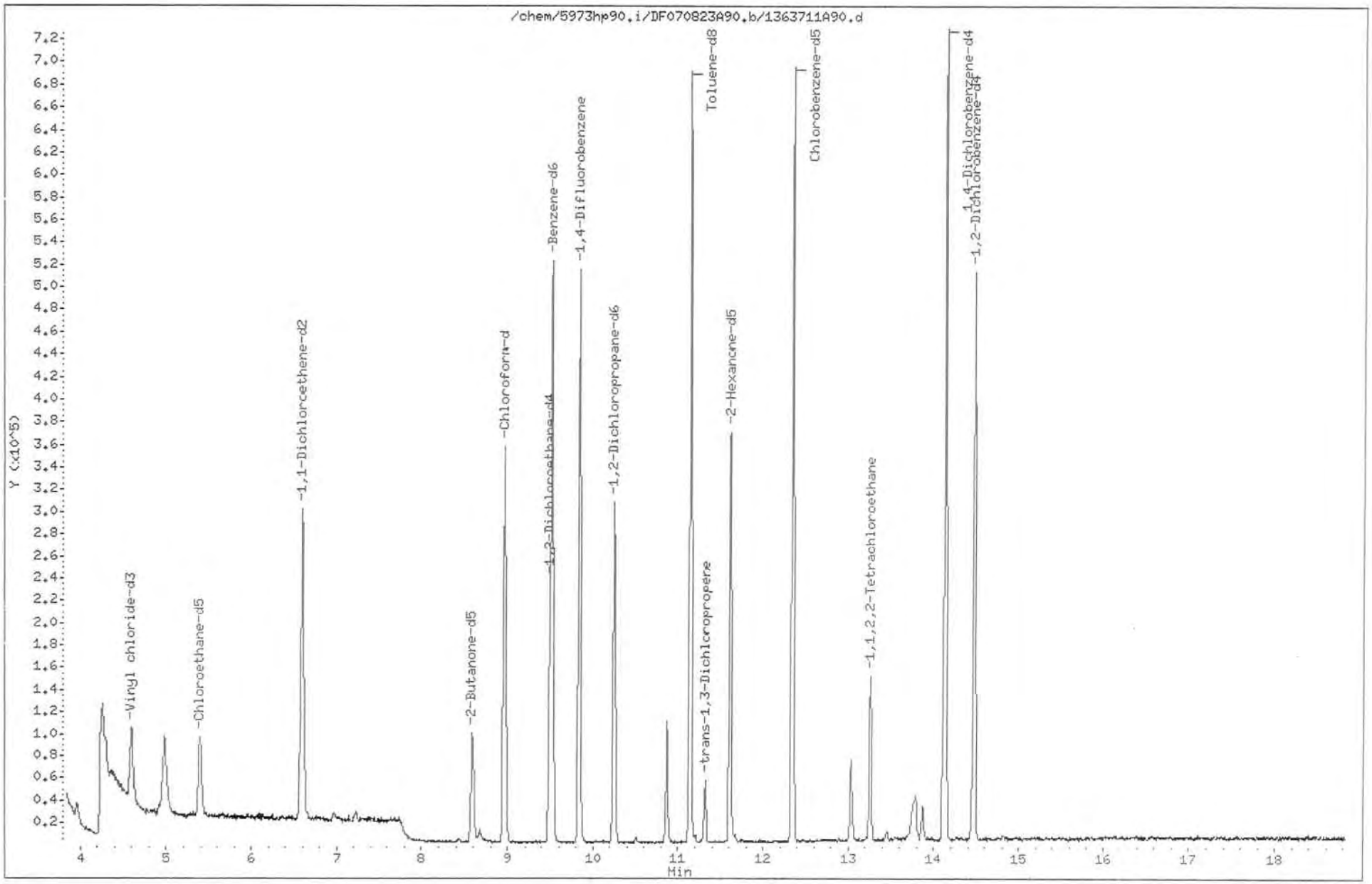
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.26	6.4	J
02	556-67-2	Cyclotetrasiloxane, octamethyl-	13.03	0.66	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Date : 23-AUG-2007 18:41
Client ID: Y3ET3
Sample Info: 1363711:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Report Date: 03-Sep-2007 10:15

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Lab Smp Id: 1363711 Client Smp ID: Y3ET3
Inj Date : 23-AUG-2007 18:41
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363711:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	9.842	9.841	(1.000)	352571	125.000	
* 2 Chlorobenzene-d5	117	12.342	12.341	(1.000)	328126	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	178348	125.000	
$ 4 Vinyl chloride-d3	65	4.598	4.597	(0.467)	106809	120.437	4.8
$ 5 Chloroethane-d5	69	5.389	5.388	(0.548)	98074	131.680	5.3
$ 6 1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	237575	98.6544	3.9
$ 7 2-Butanone-d5	46	8.589	8.588	(0.873)	135141	1019.30	41
$ 8 Chloroform-d	84	8.966	8.965	(0.911)	298577	124.019	5.0
$ 9 1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	140086	127.180	5.1
$ 10 Benzene-d6	84	9.520	9.519	(0.771)	437282	126.685	5.1
$ 11 1,2-Dichloropropane-d6	67	10.250	10.249	(0.830)	118095	120.171	4.8
$ 12 Toluene-d8	98	11.144	11.143	(0.903)	420780	122.747	4.9
$ 13 trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	31207	98.2956	3.9
$ 14 2-Hexanone-d5	63	11.612	11.611	(0.941)	114192	1063.65	43
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	67358	118.963	4.8
$ 17 1,2-Dichlorobenzene-d4	152	14.472	14.471	(1.024)	131326	108.713	4.3
18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Report Date: 03-Sep-2007 10:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	6.648	6.653	(0.675)	8231	104.012	4.2(a)
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	7.226	7.225	(0.734)	3998	3.43577	0.14(a)
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	Compound Not Detected.					
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Report Date: 03-Sep-2007 10:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d

Date : 23-AUG-2007 18:41

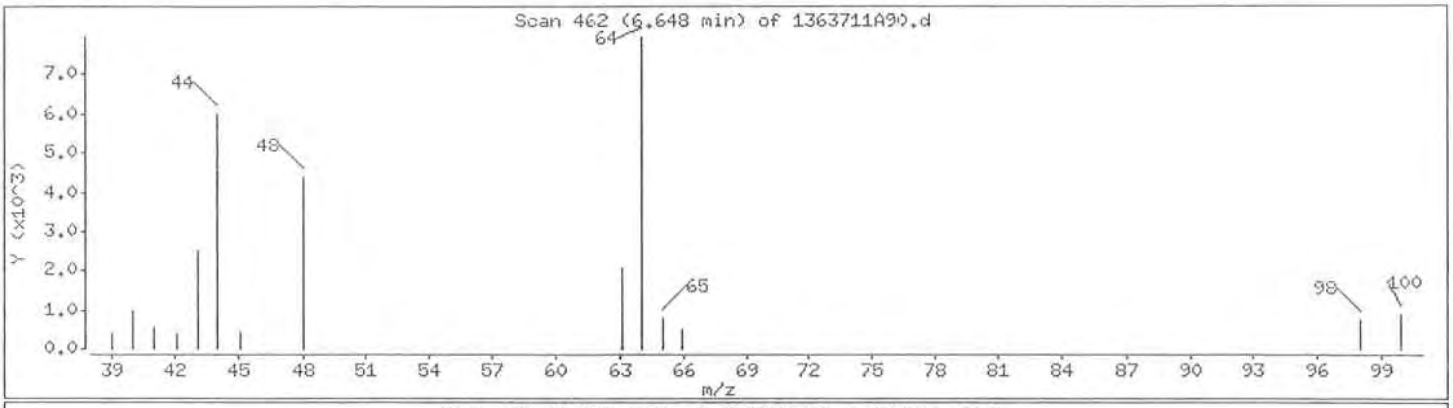
Client ID: Y3ET3 Instrument: 5973hp90.i

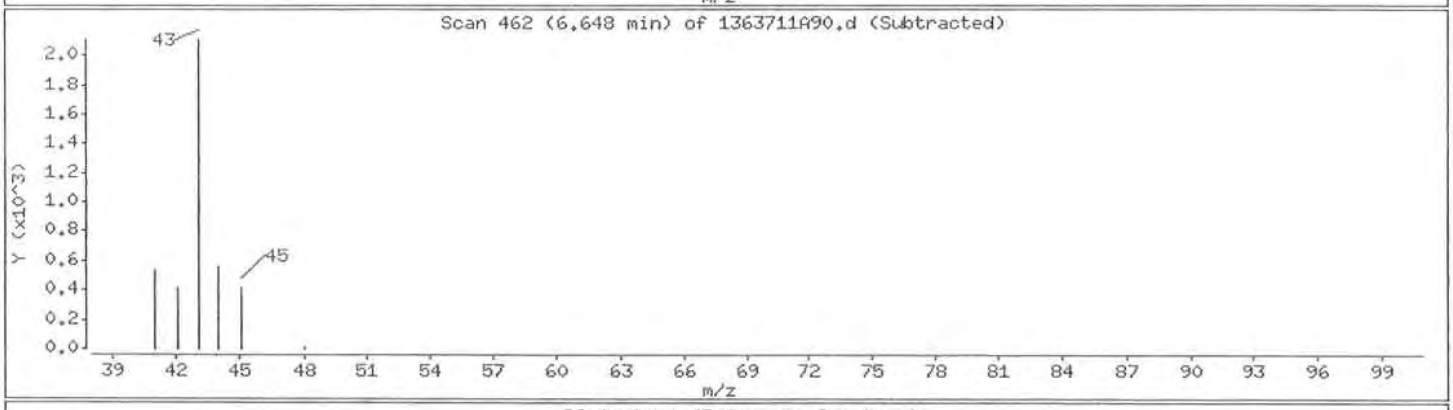
Sample Info: 1363711:2481

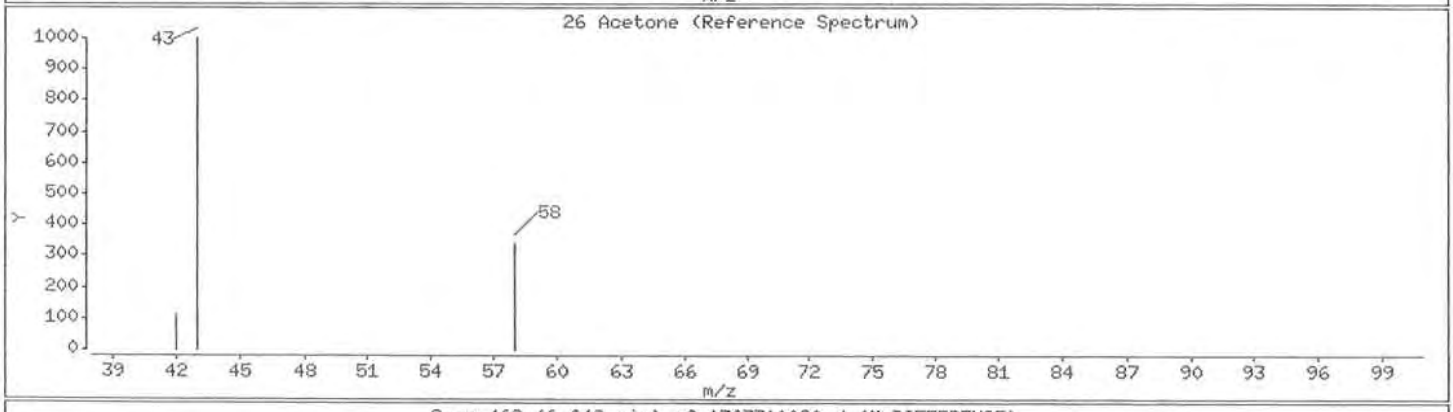
Purge Volume: 25.0 Operator: 2481

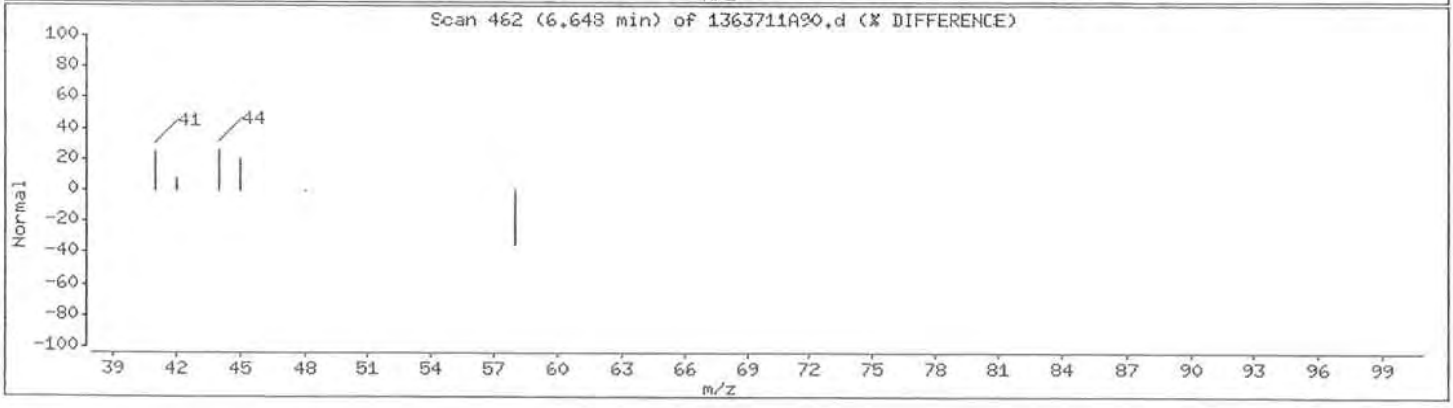
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 4.2 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d

Date : 23-AUG-2007 18:41

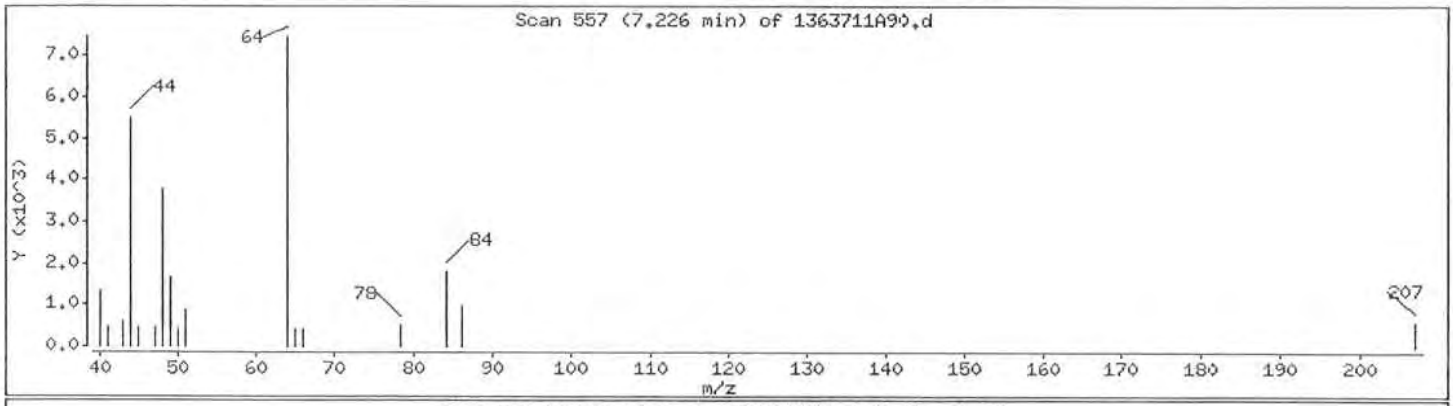
Client ID: Y3ET3 Instrument: 5973hp90.i

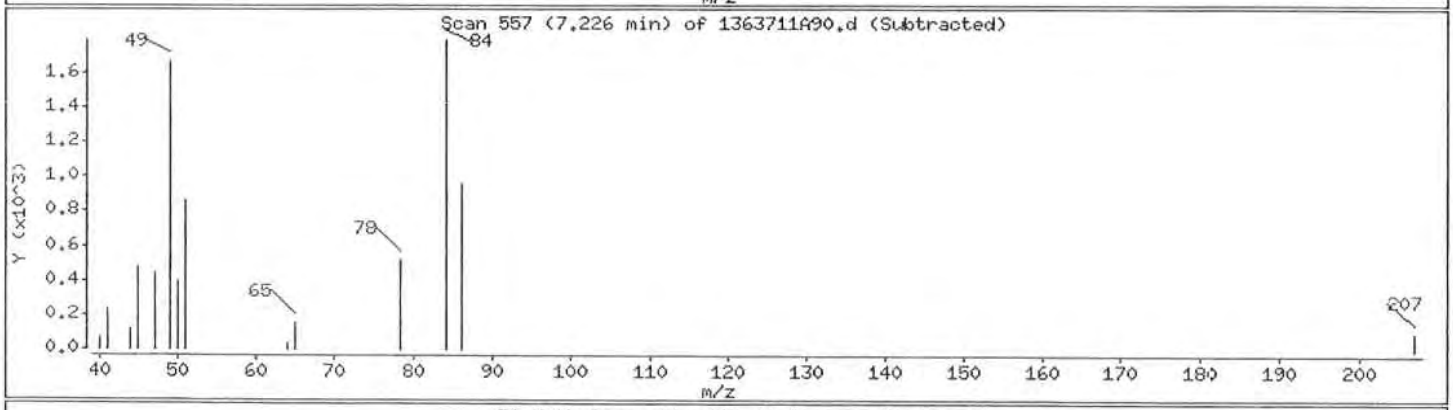
Sample Info: 1363711;2481

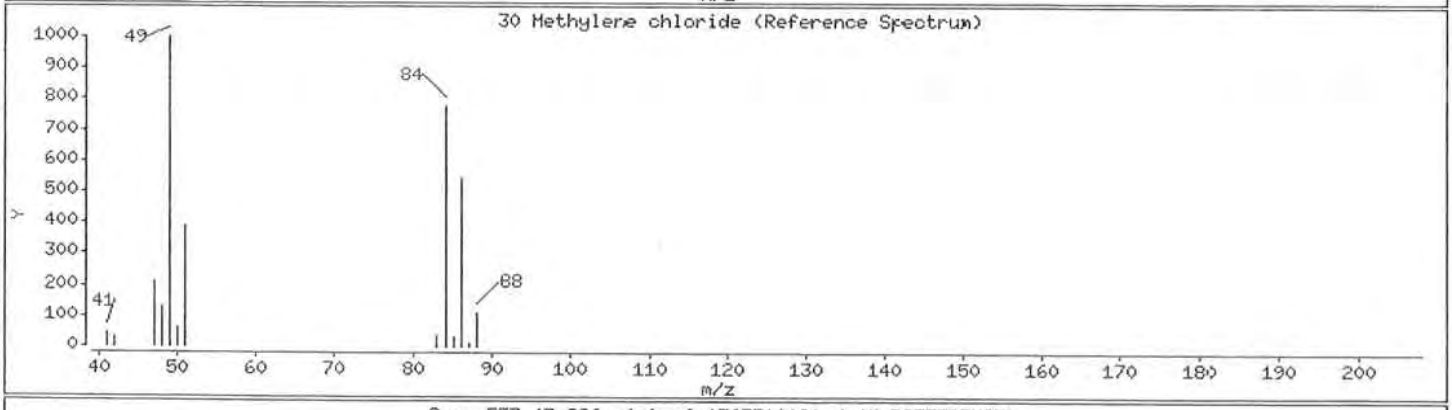
Purge Volume: 25.0 Operator: 2481

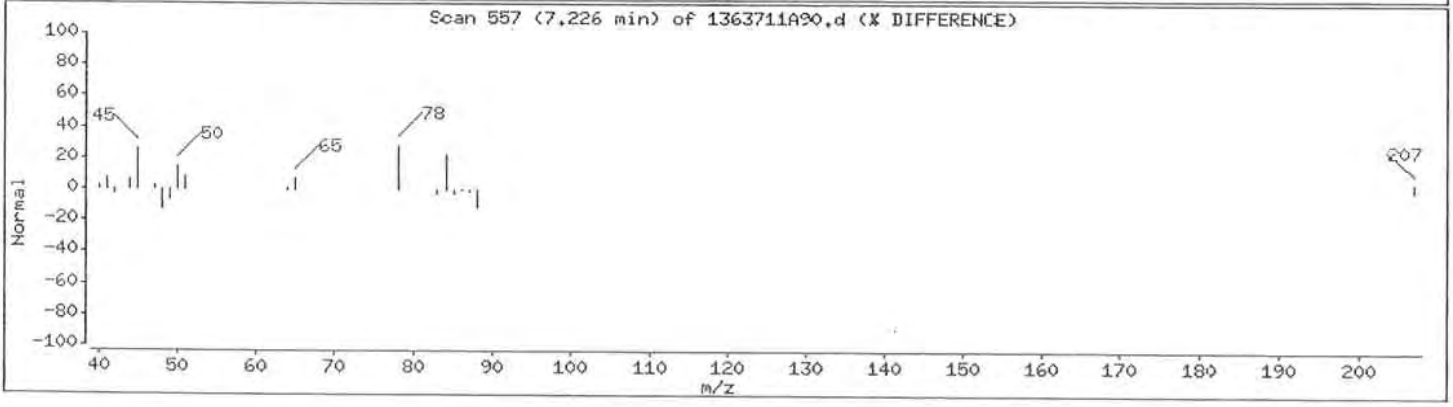
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.14 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Report Date: 03-Sep-2007 10:15

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363711A90.d
Lab Smp Id: 1363711 Client Smp ID: Y3ET3
Inj Date : 23-AUG-2007 18:41
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363711:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	946224	125.000
* 2 Chlorobenzene-d5	12.342	1126730	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.257	1202869	158.903692	6.4	0		0	1
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
13.030	148542	16.4792841	0.66	86	NBS129K.1	125682	2

Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d

Date : 23-AUG-2007 18:41

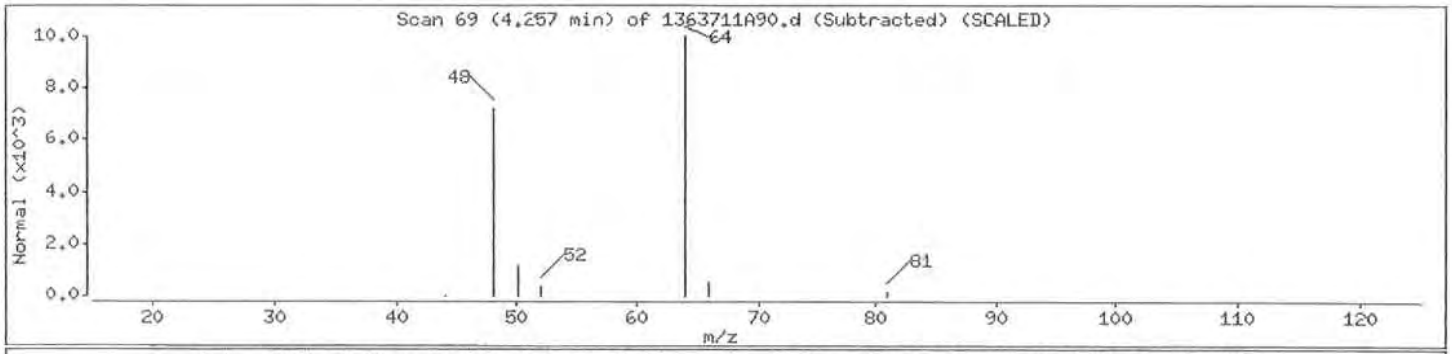
Client ID: Y3ET3 Instrument: 5973hp90.i

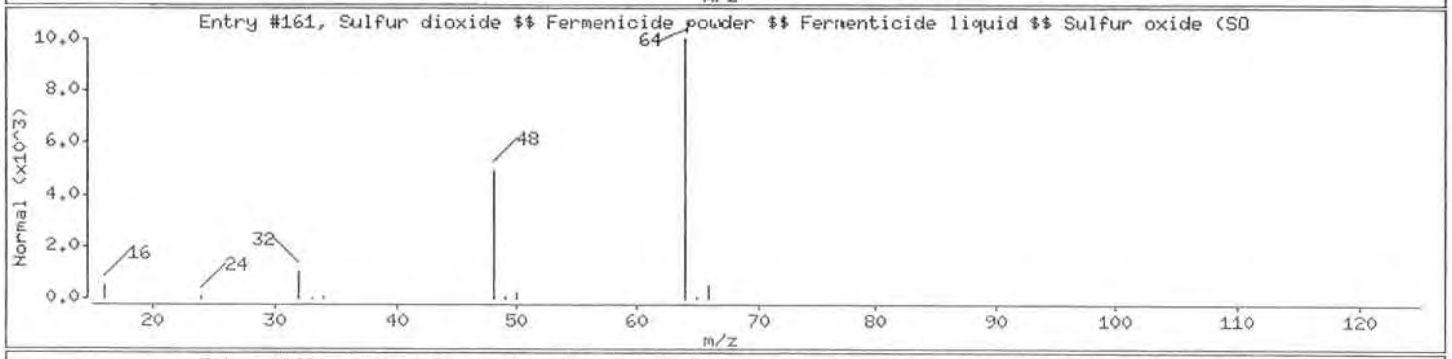
Sample Info: 1363711:2481

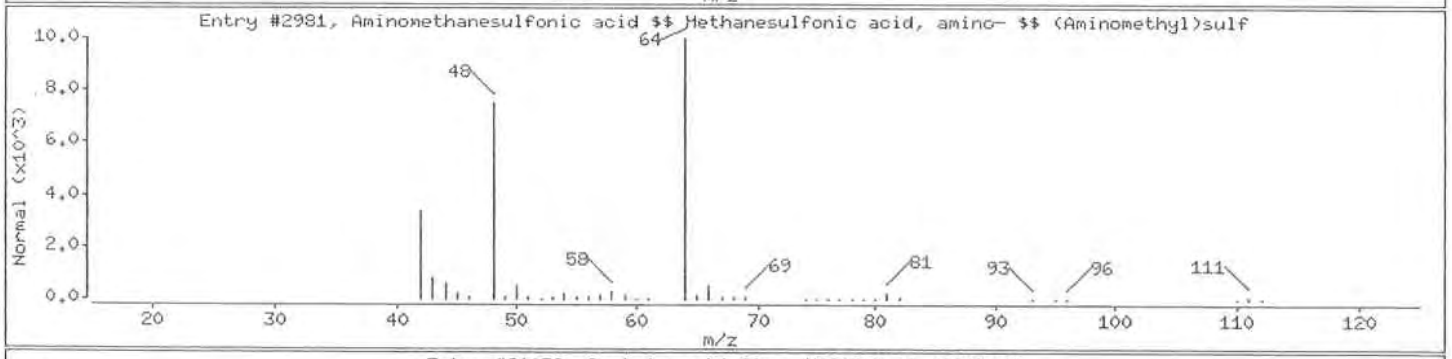
Purge Volume: 25.0 Operator: 2481

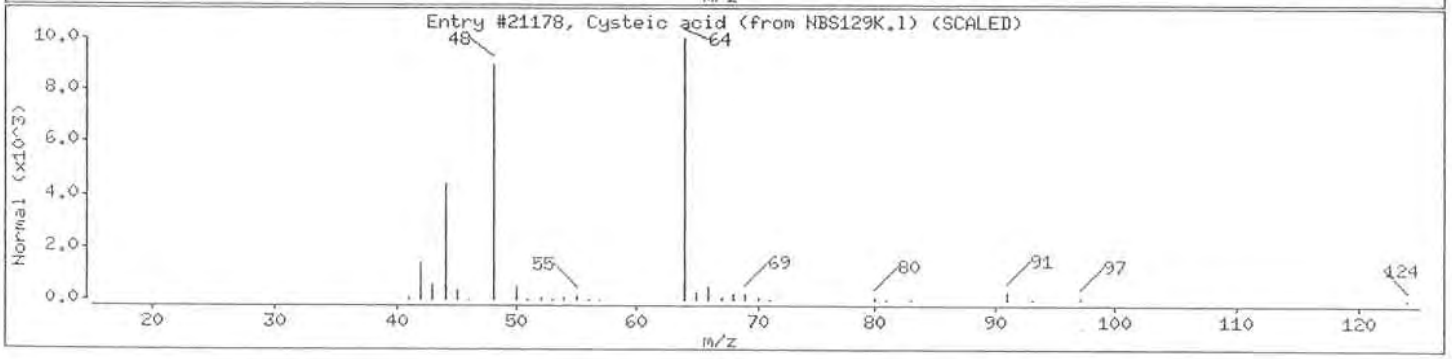
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sulfur dioxide $$ Fermenicide powder $$	7446-09-5	NBS129K.l	161	74	O2S	64
Aminomethanesulfonic acid $$ Methanesulf	13881-91-9	NBS129K.l	2981	9	CH5NO3S	111
Cysteic acid	0-00-0	NBS129K.l	21178	9	C3H7NO5S	169









Data File: /chem/5973hp90.i/DF070823A90.b/1363711A90.d

Date : 23-AUG-2007 18:41

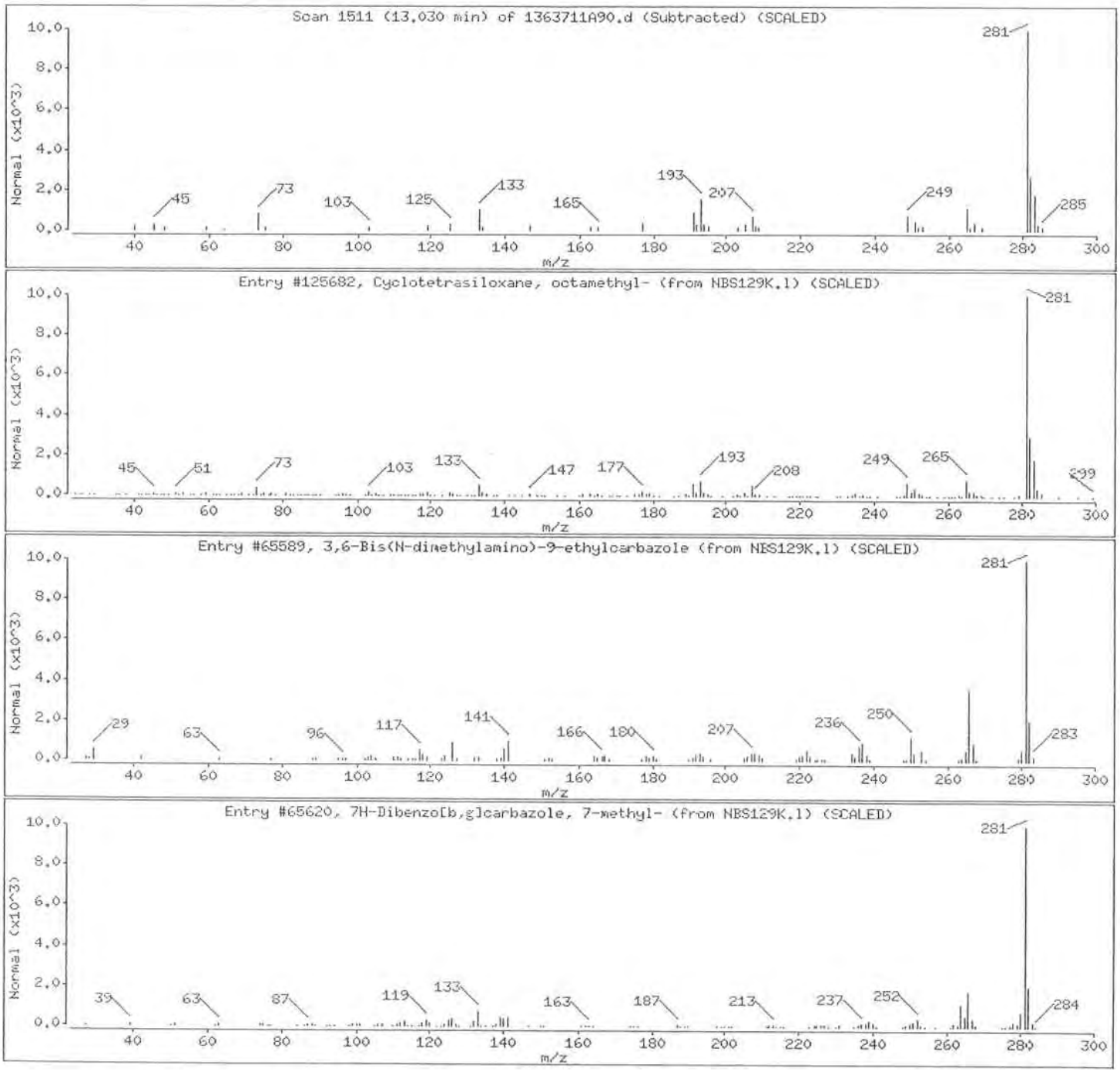
Client ID: Y3ET3 Instrument: 5973hp90.i

Sample Info: 1363711:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	86	C8H24O4Si4	296
3,6-Bis(N-dimethylamino)-9-ethylcarbazol	57103-04-5	NBS129K.l	65589	59	C18H23N3	281
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NBS129K.l	65620	50	C21H15N	281



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET4

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363712

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363712A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET4

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363712

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363712A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET4

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363712

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363712A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

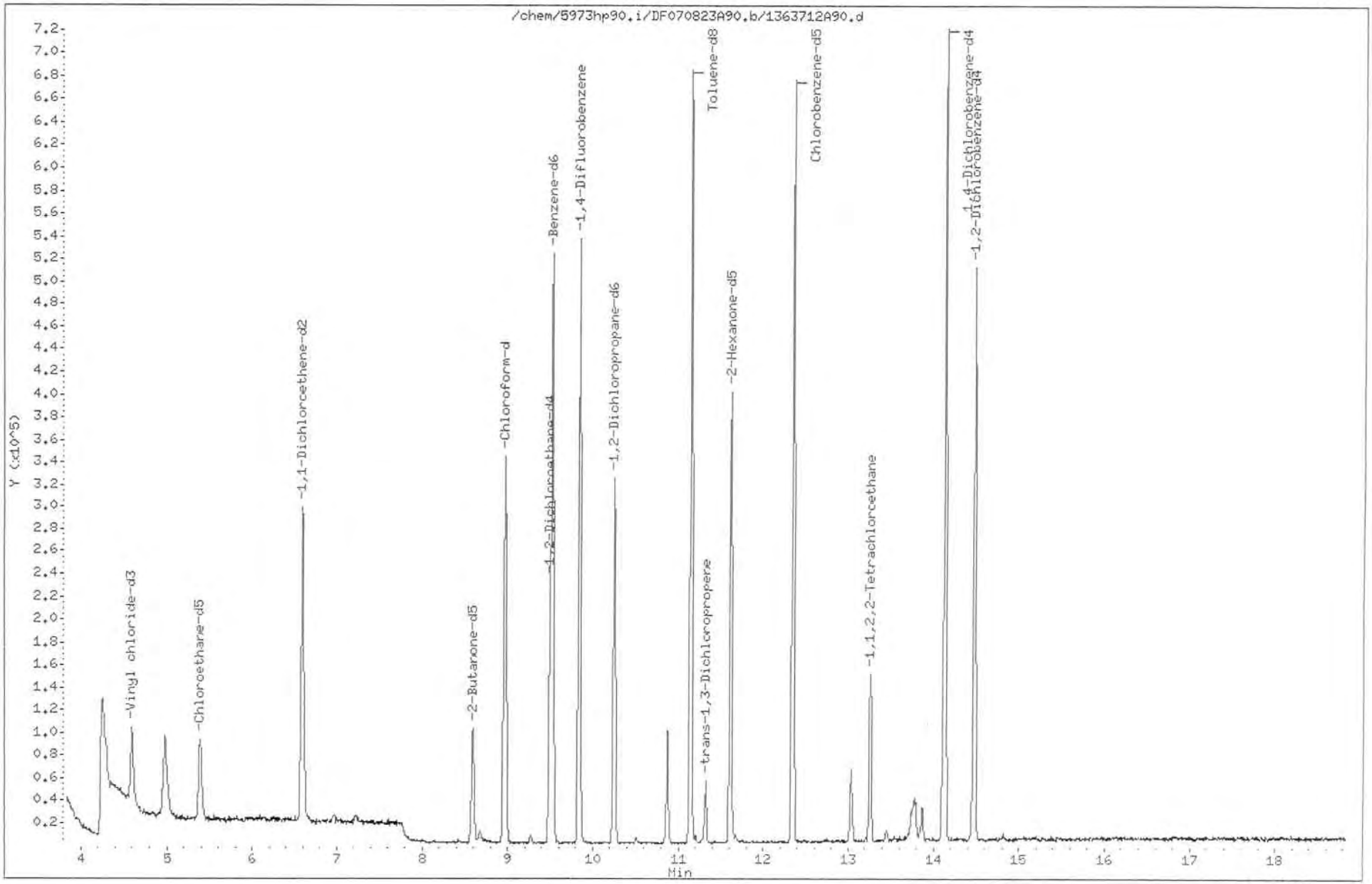
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7446-09-5	Sulfur dioxide	4.25	5.9	NJ
02		Unknown	13.03	0.57	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Date : 23-AUG-2007 19:10
Client ID: Y3ET4
Sample Info: 1363712:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Report Date: 03-Sep-2007 10:16

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Lab Smp Id: 1363712 Client Smp ID: Y3ET4
Inj Date : 23-AUG-2007 19:10
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363712:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	350697	125.000	
* 2 Chlorobenzene-d5	117	12.347	12.341	(1.000)	330157	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.129	14.130	(1.000)	178886	125.000	
$ 4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	104642	118.624	4.7
$ 5 Chloroethane-d5	69	5.388	5.388	(0.547)	96911	130.813	5.2
$ 6 1,1-Dichloroethene-d2	63	6.592	6.599	(0.670)	233703	97.5651	3.9
$ 7 2-Butanone-d5	46	8.587	8.588	(0.873)	134239	1017.90	41
$ 8 Chloroform-d	84	8.965	8.965	(0.911)	309422	129.210	5.2
$ 9 1,2-Dichloroethane-d4	65	9.494	9.494	(0.965)	143778	131.229	5.2
$ 10 Benzene-d6	84	9.518	9.519	(0.771)	438010	126.115	5.0
$ 11 1,2-Dichloropropane-d6	67	10.248	10.249	(0.830)	123148	124.542	5.0
$ 12 Toluene-d8	98	11.142	11.143	(0.902)	420609	121.942	4.9
$ 13 trans-1,3-Dichloropropene-d4	79	11.325	11.325	(0.917)	31941	99.9886	4.0
$ 14 2-Hexanone-d5	63	11.611	11.611	(0.940)	112483	1041.29	42
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.259	13.260	(1.074)	68039	119.427	4.8
$ 17 1,2-Dichlorobenzene-d4	152	14.476	14.471	(1.025)	133434	110.126	4.4
18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Report Date: 03-Sep-2007 10:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	Compound Not Detected.					
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Report Date: 03-Sep-2007 10:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Report Date: 03-Sep-2007 10:16

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363712A90.d
Lab Smp Id: 1363712 Client Smp ID: Y3ET4
Inj Date : 23-AUG-2007 19:10
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363712:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	ISTD	RT	AREA	AMOUNT
* 1	1,4-Difluorobenzene	9.841	939898	125.000
* 2	Chlorobenzene-d5	12.347	1114998	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Sulfur dioxide $$ Fermenicide powder $$				CAS #: 7446-09-5			
4.250	1115360	148.335221	5.9	90	NBS129K.1	161	1
Unknown				CAS #:			
13.034	126905	14.2269939	0.57	0		0	2

Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d

Date : 23-AUG-2007 19:10

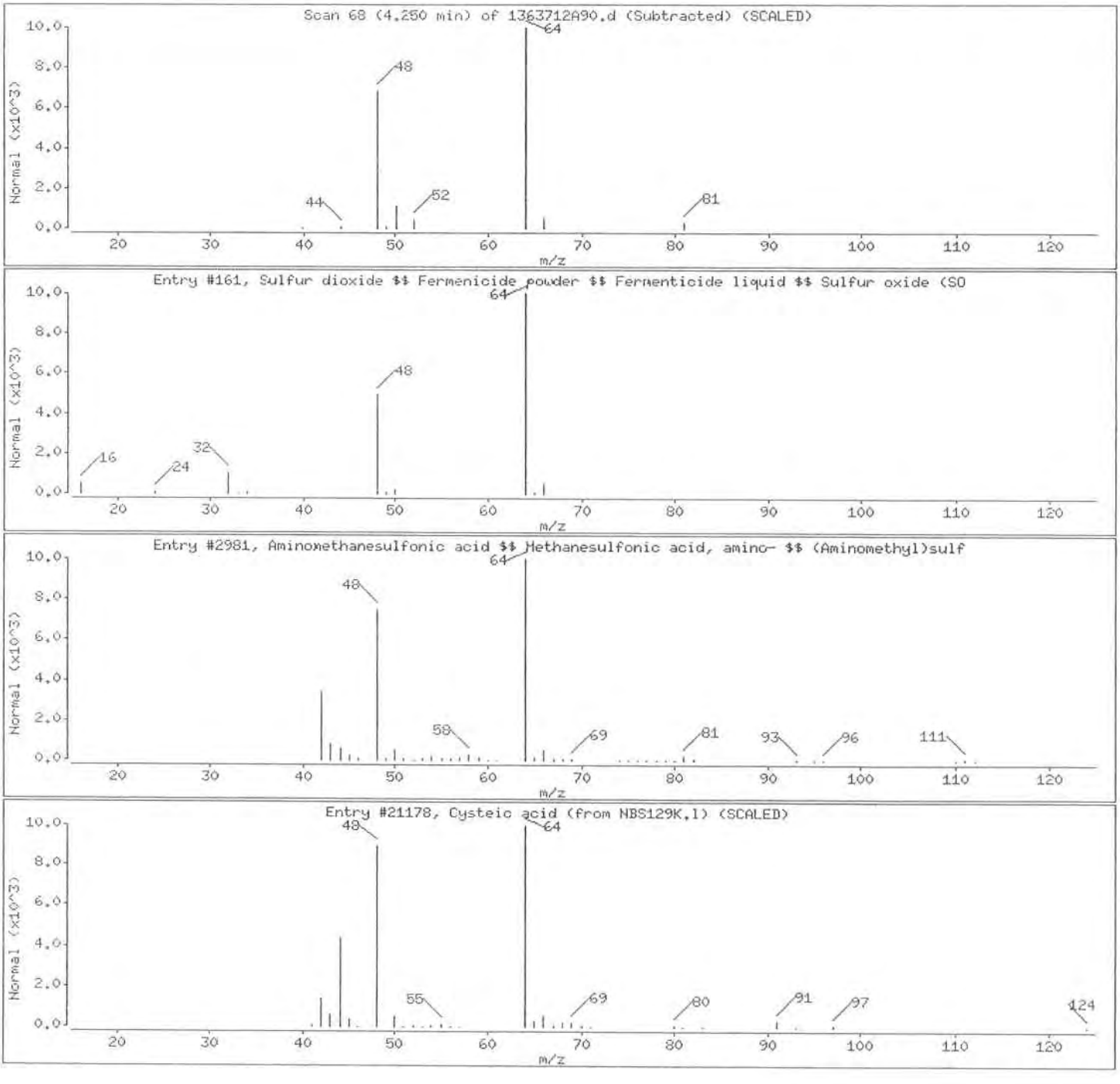
Client ID: Y3ET4 Instrument: 5973hp90.i

Sample Info: 1363712;2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Sulfur dioxide $$ Fermenicide powder $$	7446-09-5	NBS129K.l	161	90	O2S	64
Aminomethanesulfonic acid $$ Methanesulf	13881-91-9	NBS129K.l	2981	74	CH5NO3S	111
Cysteic acid	0-00-0	NBS129K.l	21178	9	C3H7NO5S	169



Data File: /chem/5973hp90.i/DF070823A90.b/1363712A90.d

Date : 23-AUG-2007 19:10

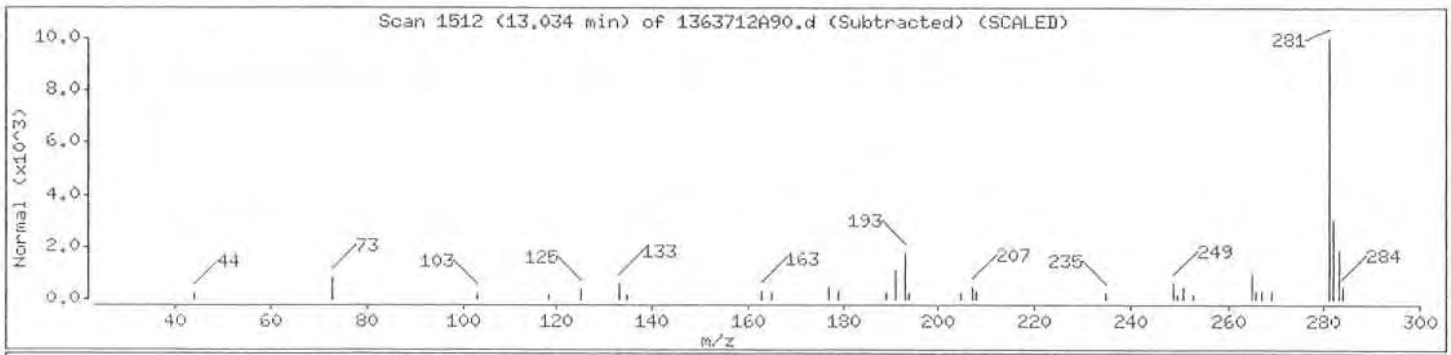
Client ID: Y3ET4 Instrument: 5973hp90.i

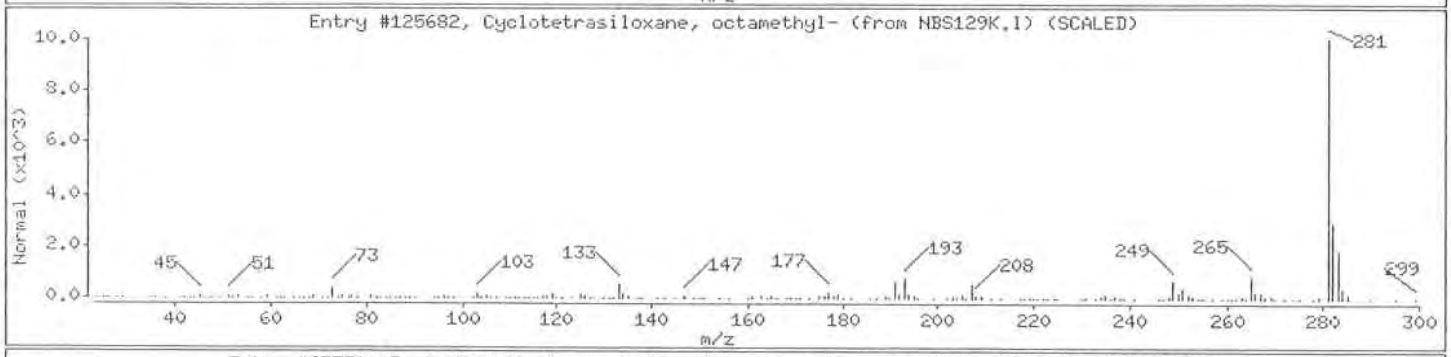
Sample Info: 1363712:2481

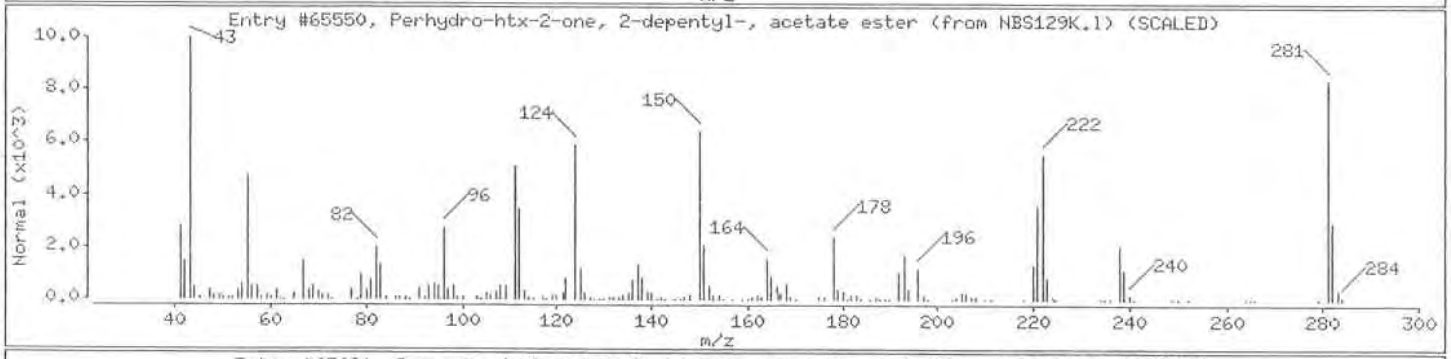
Purge Volume: 25.0 Operator: 2481

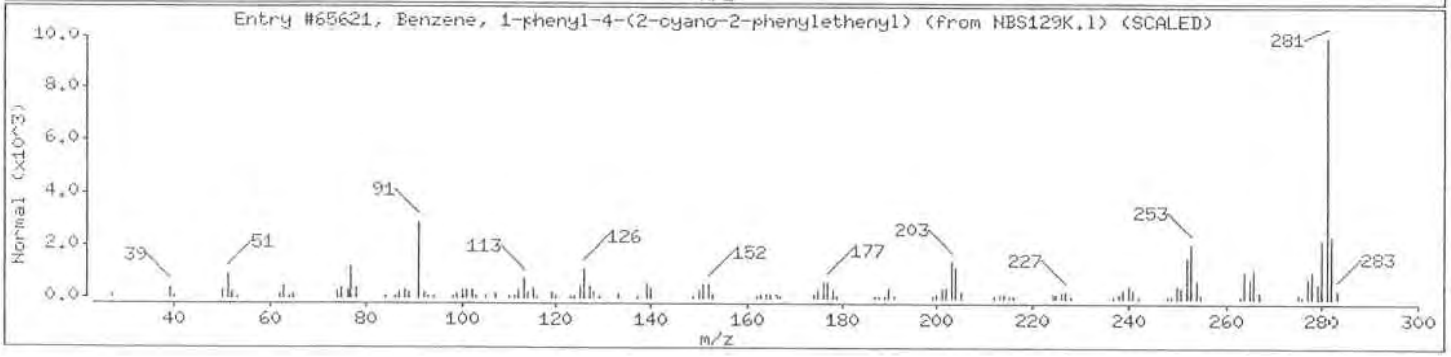
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	87	C8H24O4Si4	296
Perhydro-htx-2-one, 2-depentyl-, acetate	0-00-0	NBS129K.l	65550	47	C16H27NO3	281
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-56-3	NBS129K.l	65621	42	C21H15N	281









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET5

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363713

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363713A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.8	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.14	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET5

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363713

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363713A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.13	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET5

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363713

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363713A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

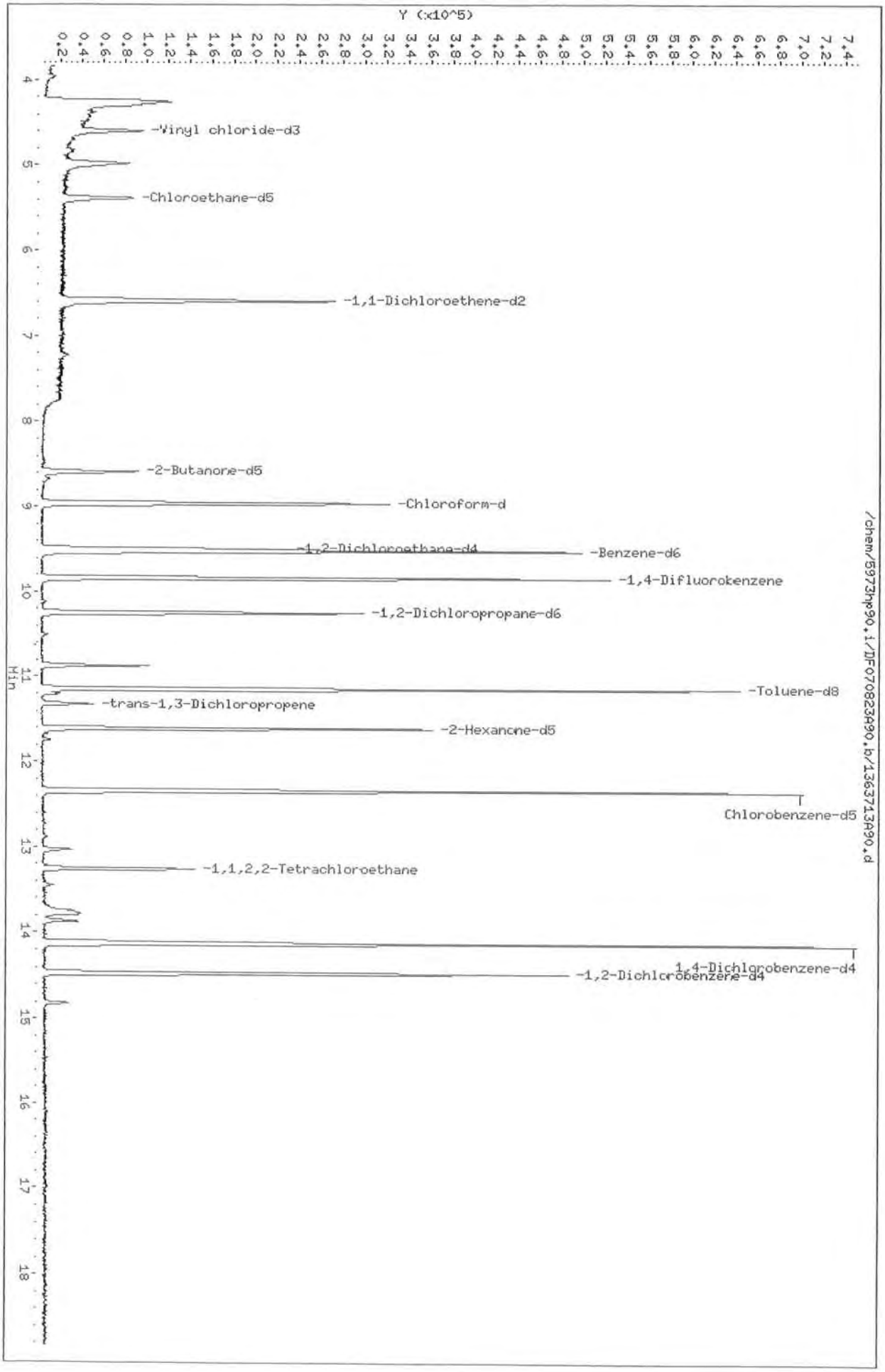
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7446-09-5	Sulfur dioxide	4.26	5.7	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.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Date : 23-AUG-2007 19:39
Client ID: Y3ET5
Sample Info: 1363713;2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
/chem/5973hp90.i/DF070823A90.b/1363713A90.d
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-Toluene-d8
-trans-1,3-Dichloropropene
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
Min

Data File: /chem/5973hp90.i/DF070823A90.b/1363713A90.d
Report Date: 03-Sep-2007 10:17

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363713A90.d
Lab Smp Id: 1363713 Client Smp ID: Y3ET5
Inj Date : 23-AUG-2007 19:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363713:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.842	9.841	(1.000)	359503	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.341	(1.000)	333055	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	182843	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.597	(0.467)	99658	110.207	4.4
$ 5	Chloroethane-d5	69	5.389	5.388	(0.548)	94375	124.270	5.0
$ 6	1,1-Dichloroethene-d2	63	6.594	6.599	(0.670)	221508	90.2089	3.6
$ 7	2-Butanone-d5	46	8.589	8.588	(0.873)	120537	891.617	36
$ 8	Chloroform-d	84	8.966	8.965	(0.911)	291514	118.750	4.8
$ 9	1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	134152	119.444	4.8
$ 10	Benzene-d6	84	9.520	9.519	(0.771)	417147	119.063	4.8
$ 11	1,2-Dichloropropane-d6	67	10.244	10.249	(0.830)	115945	116.238	4.6
$ 12	Toluene-d8	98	11.144	11.143	(0.903)	400648	115.144	4.6
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	28733	89.1636	3.6(R)
$ 14	2-Hexanone-d5	63	11.612	11.611	(0.941)	102455	940.203	38
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	64168	111.652	4.5
$ 17	1,2-Dichlorobenzene-d4	152	14.472	14.471	(1.024)	125251	101.135	4.0
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363713A90.d
Report Date: 03-Sep-2007 10:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	6.660	6.653	(0.677)	11688	144.848	5.8
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	7.226	7.225	(0.734)	4248	3.58022	0.14(a)
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	Compound Not Detected.					
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	11.199	11.204	(0.907)	13486	3.34552	0.13(a)
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363713A90.d
Report Date: 03-Sep-2007 10:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/5973hp90.i/DF070823A90.b/1363713A90.d

Date : 23-AUG-2007 19:39

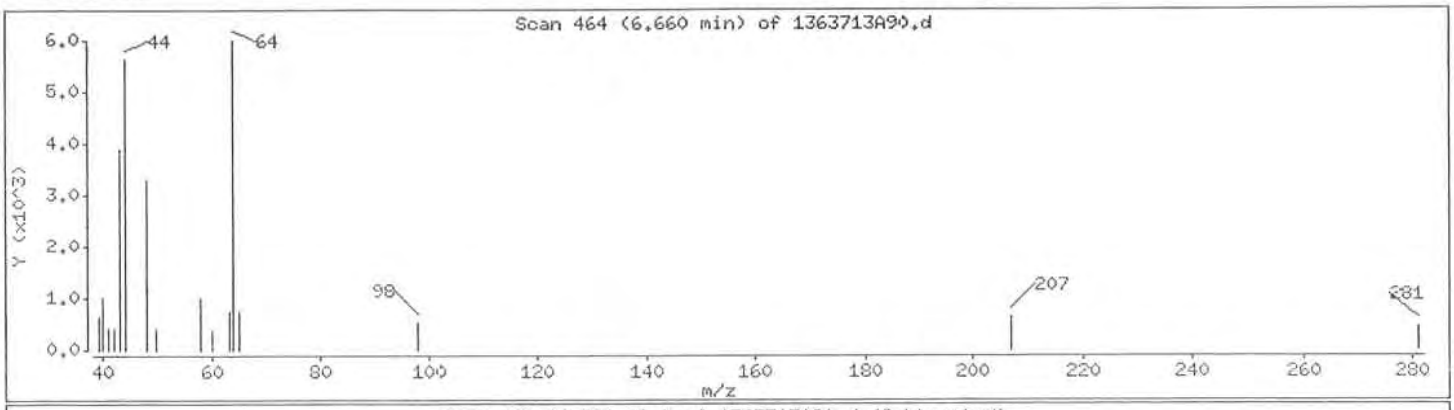
Client ID: Y3ET5 Instrument: 5973hp90.i

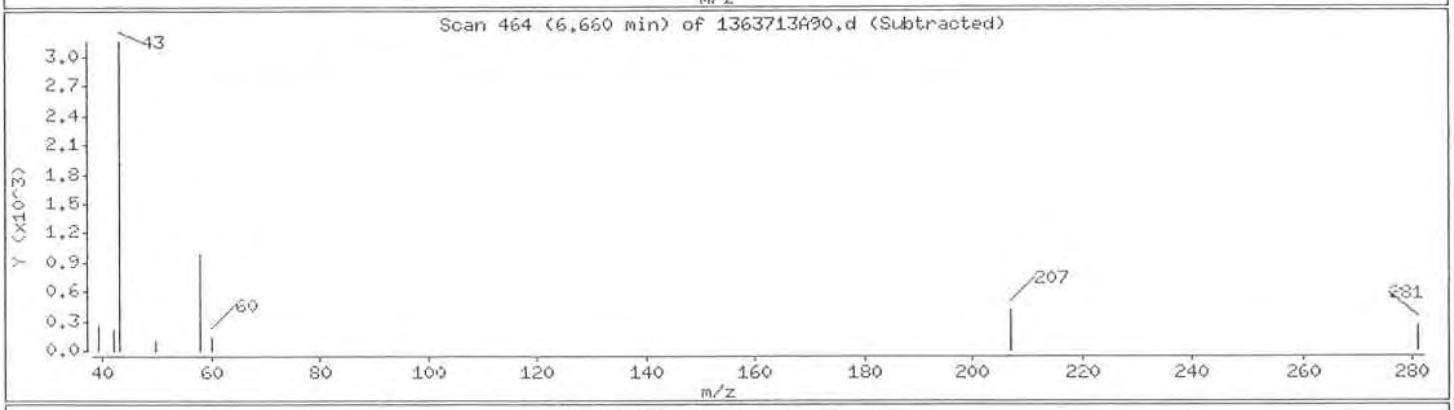
Sample Info: 1363713:2481

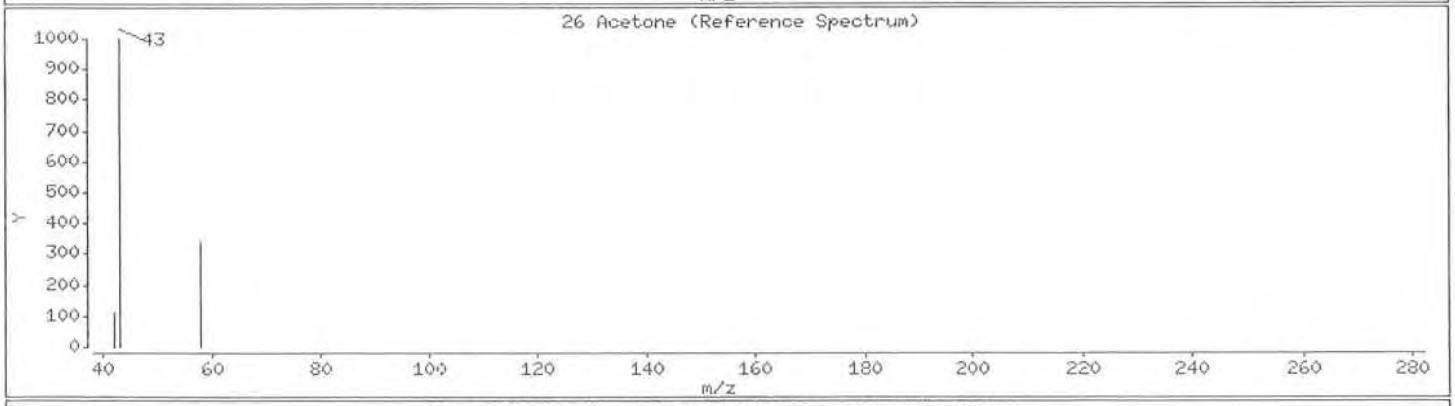
Purge Volume: 25.0 Operator: 2481

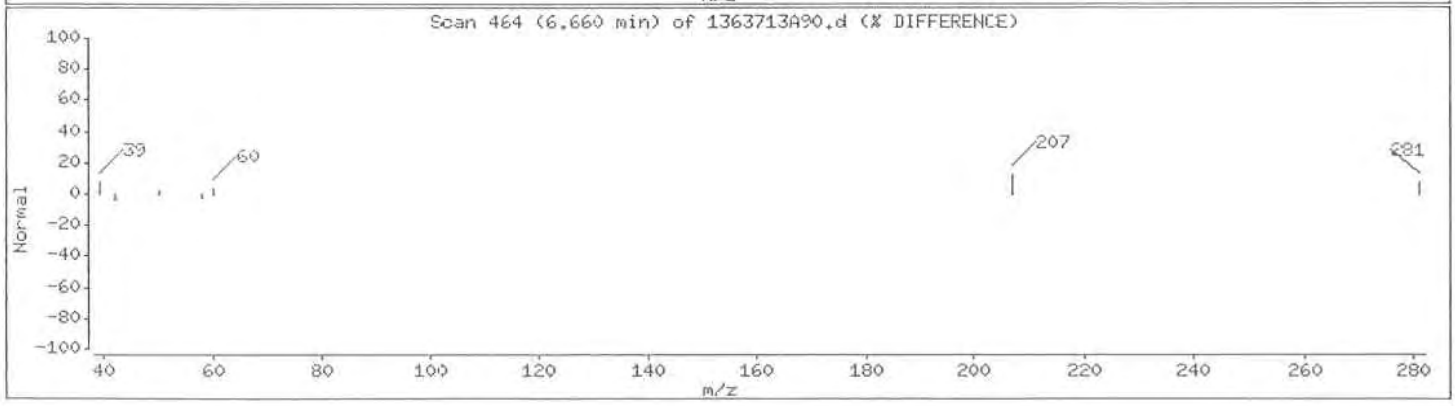
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 5.8 ug/L









Data File: /chem/5973hp90.i/DF070823A90.b/1363713A90.d

Date : 23-AUG-2007 19:39

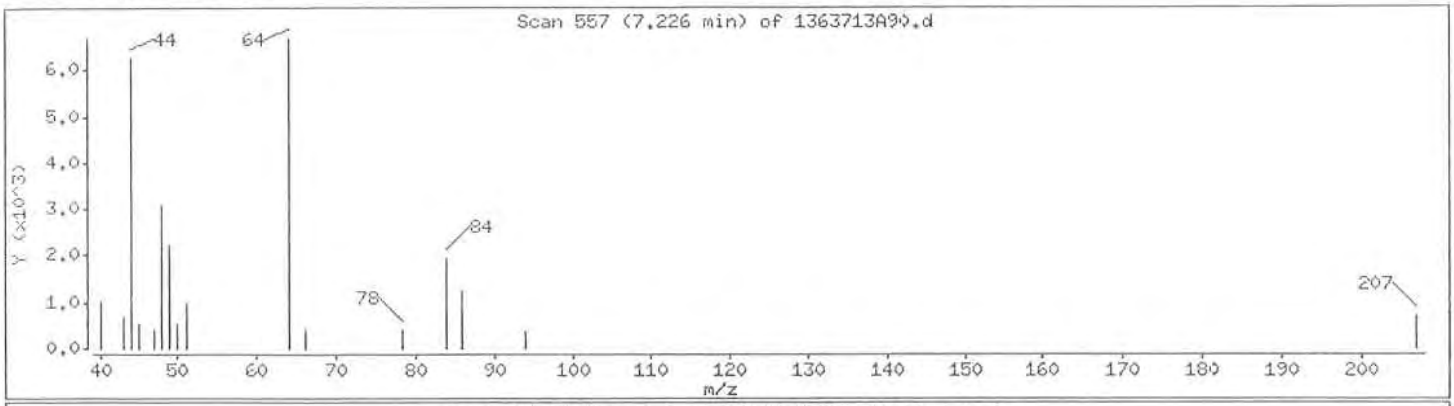
Client ID: Y3ET5 Instrument: 5973hp90.i

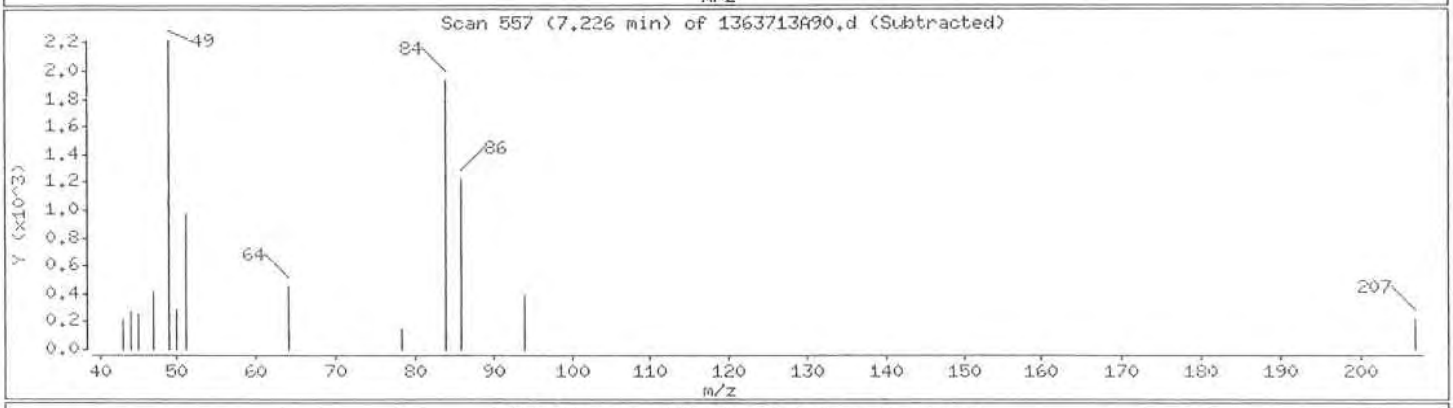
Sample Info: 1363713;2481

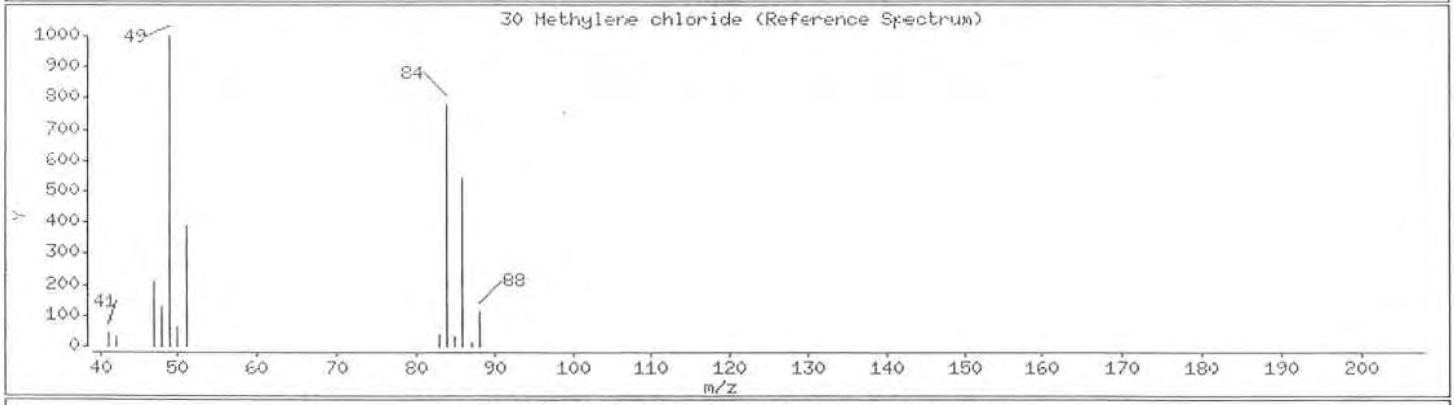
Purge Volume: 25.0 Operator: 2481

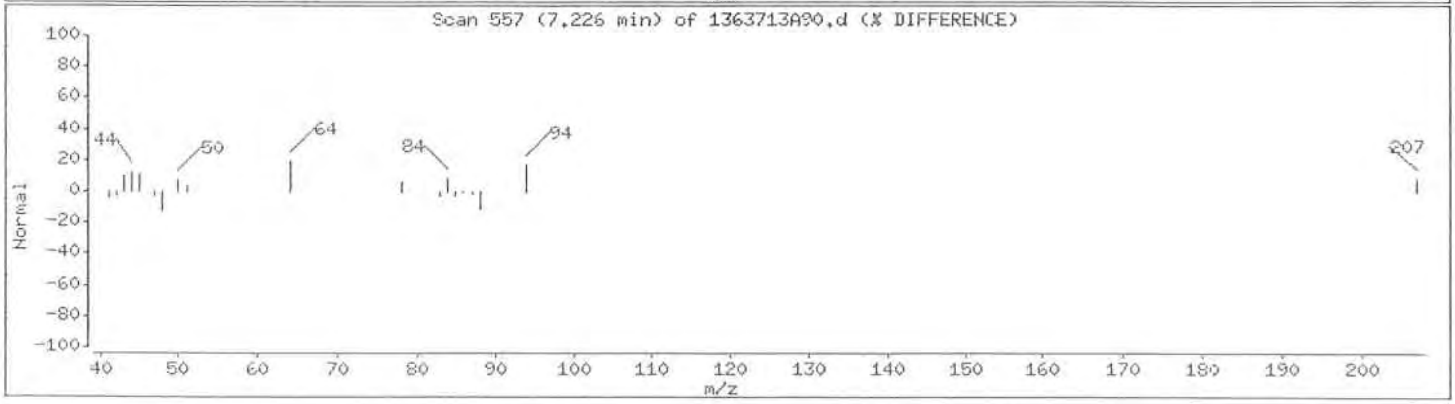
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.14 ug/L









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Date : 23-AUG-2007 19:39

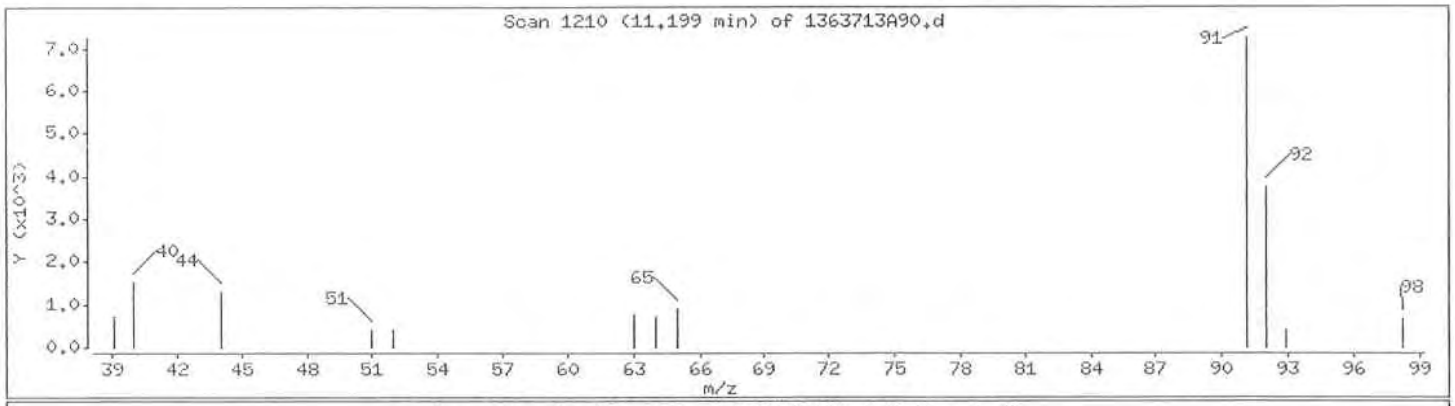
Client ID: Y3ET5 Instrument: 5973hp90.i

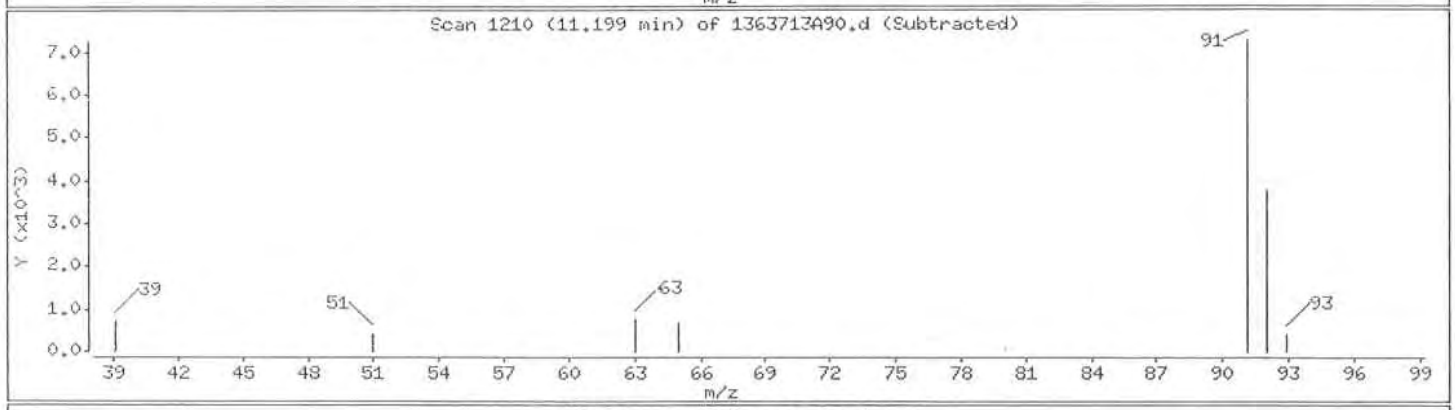
Sample Info: 1363713:2481

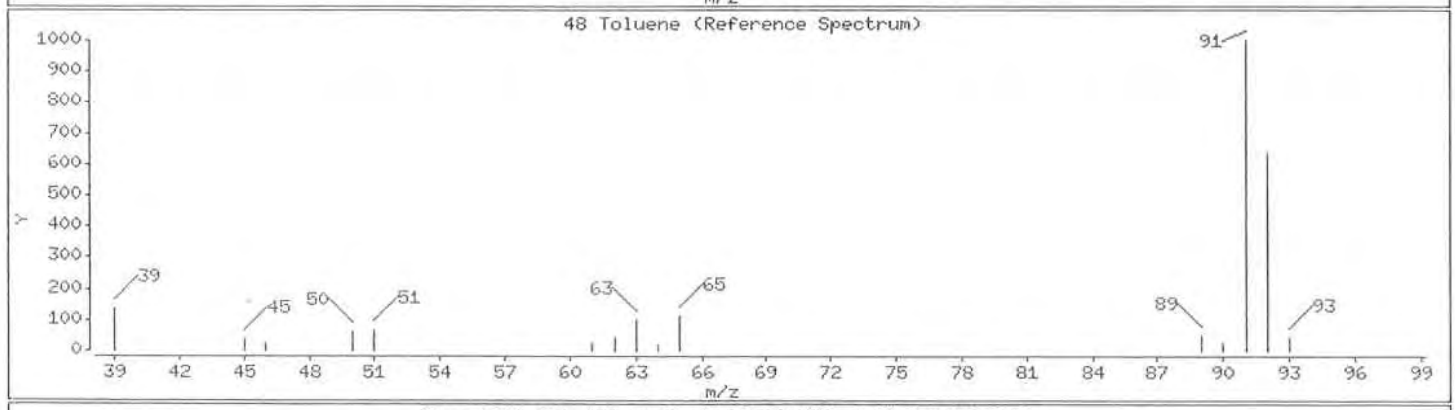
Purge Volume: 25.0 Operator: 2481

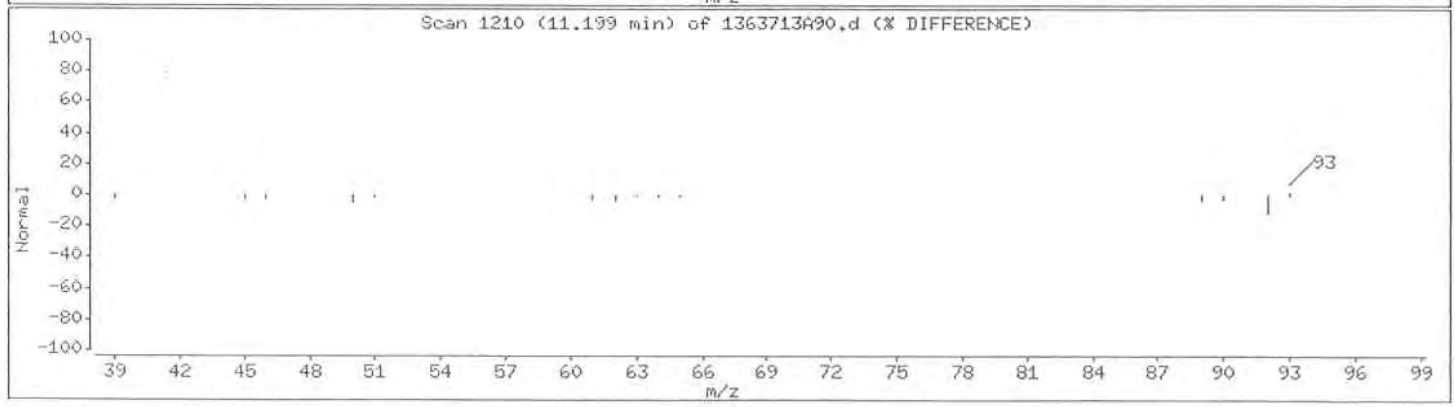
Column phase: SPB-624 Column diameter: 0.32

48 Toluene Concentration: 0.13 ug/L









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Report Date: 03-Sep-2007 10:17

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363713A90.d
Lab Smp Id: 1363713 Client Smp ID: Y3ET5
Inj Date : 23-AUG-2007 19:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363713:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	953737	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Sulfur dioxide $$ Fermenicide powder $$			CAS #: 7446-09-5				
4.257	1091992	143.120147	5.7	90	NBS129K.l	161	1

Data File: /chem/5973hp90.i/DF070823A90.b/1363713A90.d

Date : 23-AUG-2007 19:39

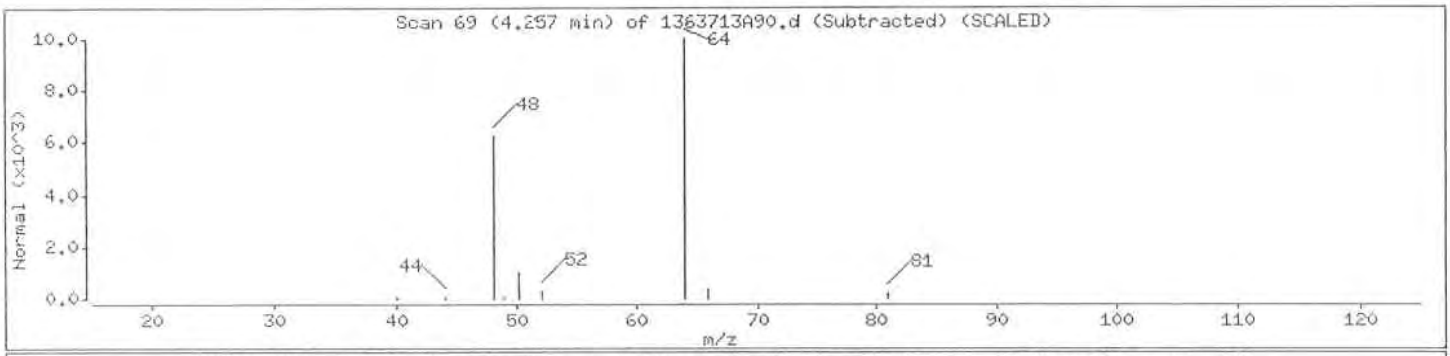
Client ID: Y3ET5 Instrument: 5973hp90.i

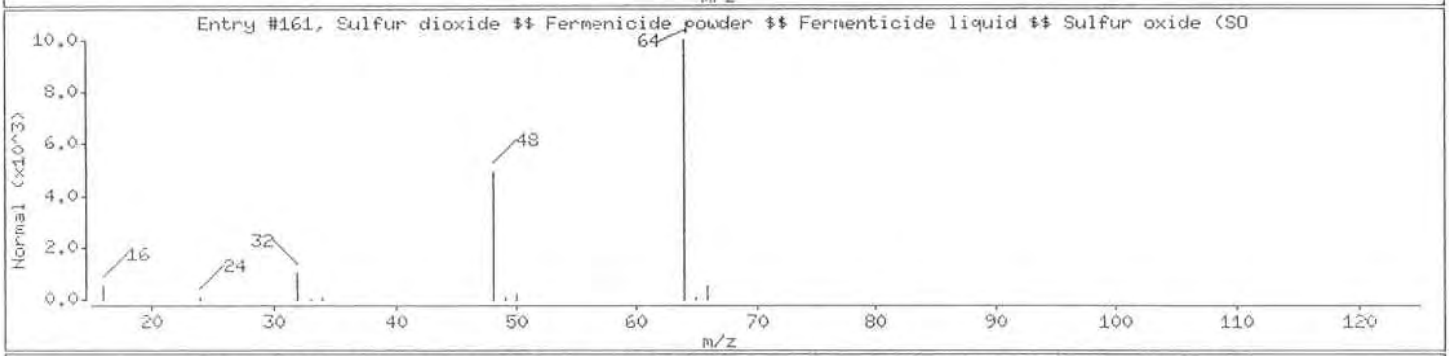
Sample Info: 1363713:2481

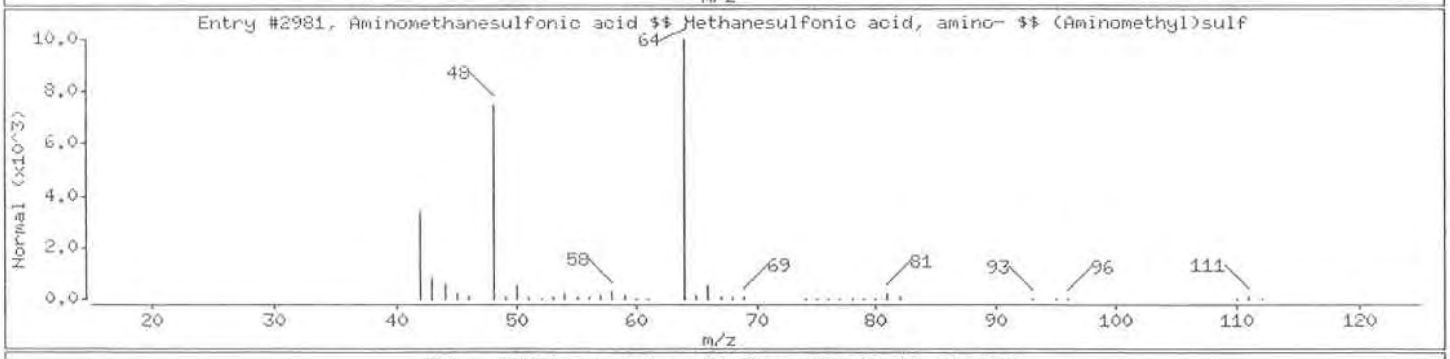
Purge Volume: 25.0 Operator: 2481

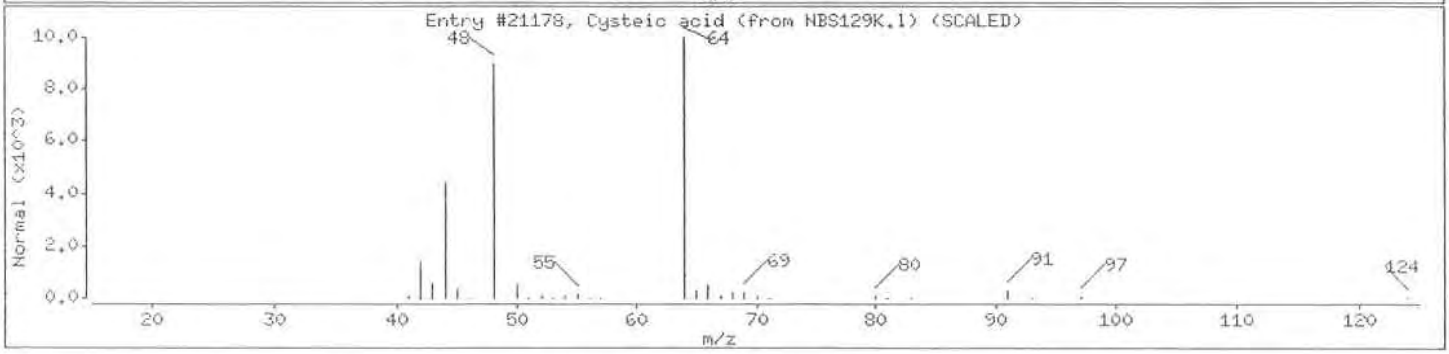
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Sulfur dioxide $$ Fermenicide powder $$	7446-09-5	NBS129K.l	161	90	O2S	64
Aminomethanesulfonic acid $$ Methanesulf	13881-91-9	NBS129K.l	2981	74	CH5NO3S	111
Cysteic acid	0-00-0	NBS129K.l	21178	9	C3H7NO5S	169









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363714

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363714A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.15	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.23	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363714

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363714A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.52	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363714

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363714A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/24/2007

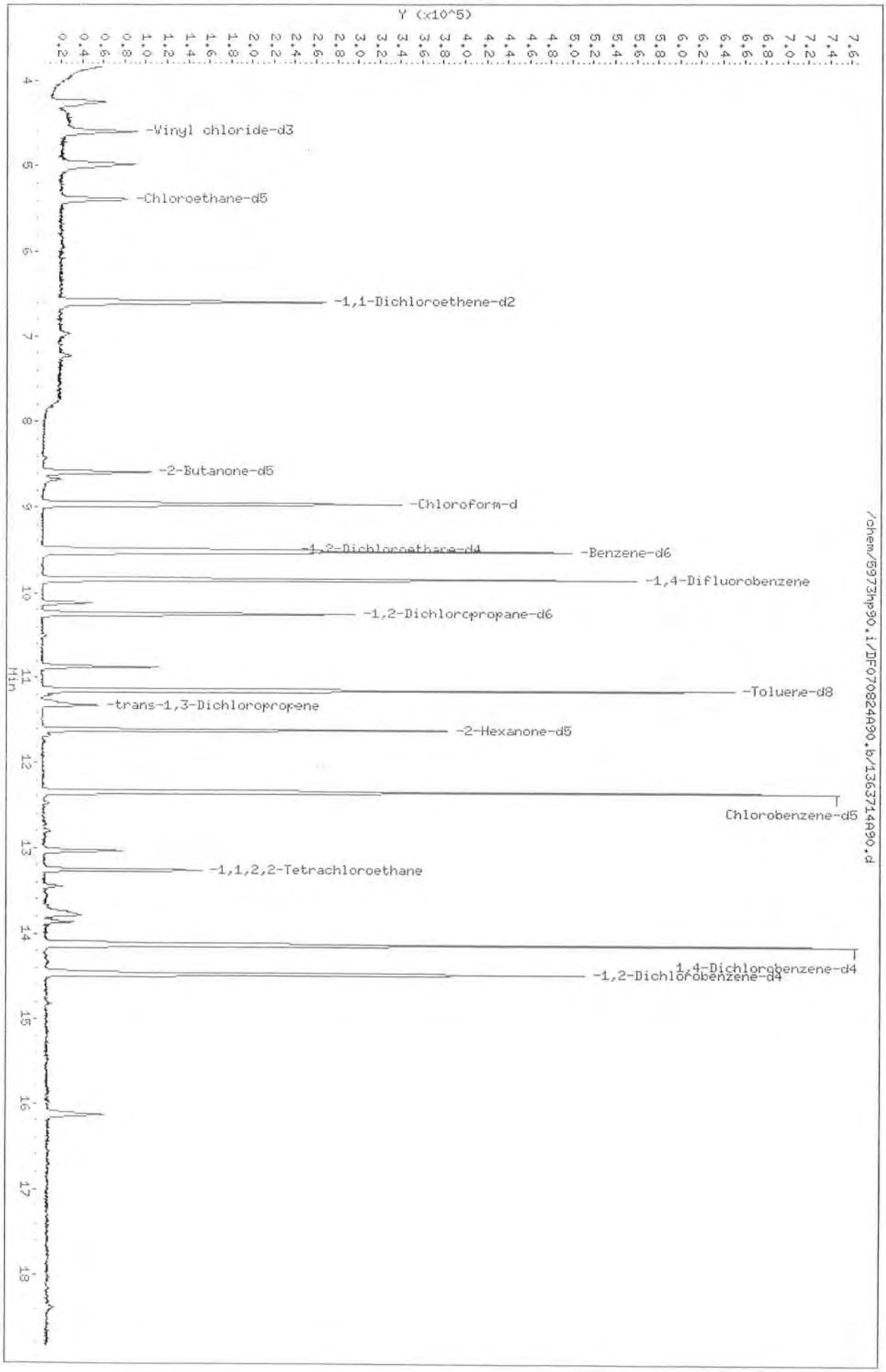
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	13.04	0.69	J
02		Laboratory Artifact	16.13	0.53	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.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Date : 24-AUG-2007 11:26
Client ID: Y3ET6
Sample Info: 1363714:2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-Toluene-d8
-trans-1,3-Dichloropropene
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
/chem/5973hp90.i/DF070824A90.b/1363714A90.d
Min

Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d
Report Date: 03-Sep-2007 11:05

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363714A90.d
Lab Smp Id: 1363714 Client Smp ID: Y3ET6
Inj Date : 24-AUG-2007 11:26
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363714:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.842	9.844	(1.000)	394746	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.344	(1.000)	360992	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.130	14.132	(1.000)	192820	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.600	(0.467)	102793	103.525	4.1
$ 5	Chloroethane-d5	69	5.389	5.390	(0.548)	90844	108.941	4.4
$ 6	1,1-Dichloroethene-d2	63	6.593	6.601	(0.670)	220742	81.8709	3.3
$ 7	2-Butanone-d5	46	8.588	8.590	(0.873)	138744	934.667	37
$ 8	Chloroform-d	84	8.966	8.967	(0.911)	294971	109.431	4.4
$ 9	1,2-Dichloroethane-d4	65	9.495	9.497	(0.965)	138938	112.661	4.5
$ 10	Benzene-d6	84	9.519	9.521	(0.771)	423486	111.518	4.5
$ 11	1,2-Dichloropropane-d6	67	10.249	10.245	(0.830)	119216	110.267	4.4
$ 12	Toluene-d8	98	11.143	11.145	(0.903)	406934	107.900	4.3
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.322	(0.917)	32280	92.4184	3.7
$ 14	2-Hexanone-d5	63	11.612	11.608	(0.941)	114608	970.335	39
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.254	13.256	(1.074)	68650	110.207	4.4
$ 17	1,2-Dichlorobenzene-d4	152	14.471	14.473	(1.024)	129480	99.1403	4.0
18	Dichlorodifluoromethane	85	Compound Not Detected.					

9.3.07

Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d
Report Date: 03-Sep-2007 11:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	6.970	6.972	(0.708)	17814	3.66930	0.15(a)
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.232	7.228	(0.735)	7448	5.71676	0.23(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	10.121	10.117	(0.820)	16756	12.9743	0.52
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d
Report Date: 03-Sep-2007 11:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d

Date : 24-AUG-2007 11:26

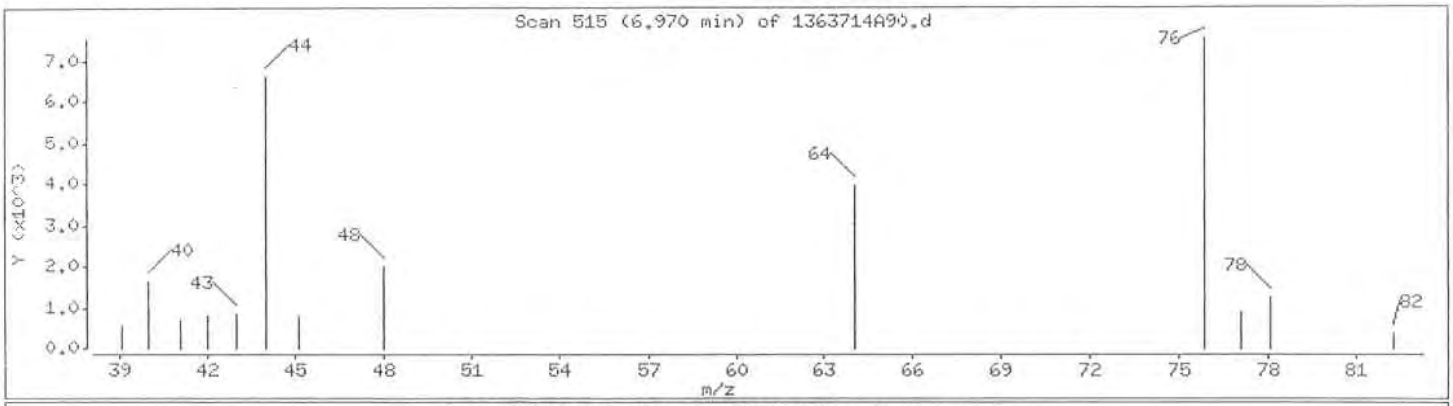
Client ID: Y3ET6 Instrument: 5973hp90.i

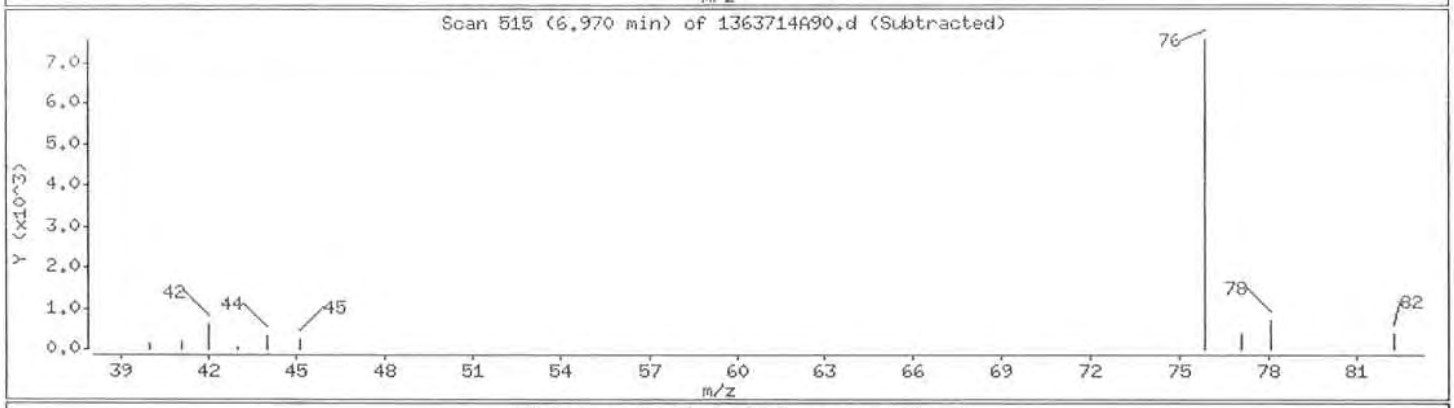
Sample Info: 1363714;2481

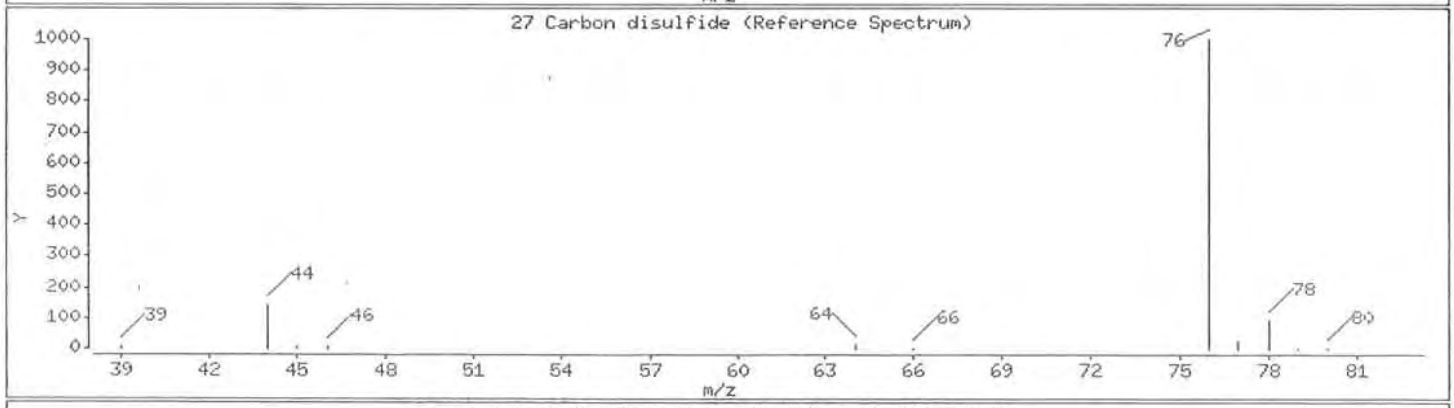
Purge Volume: 25.0 Operator: 2481

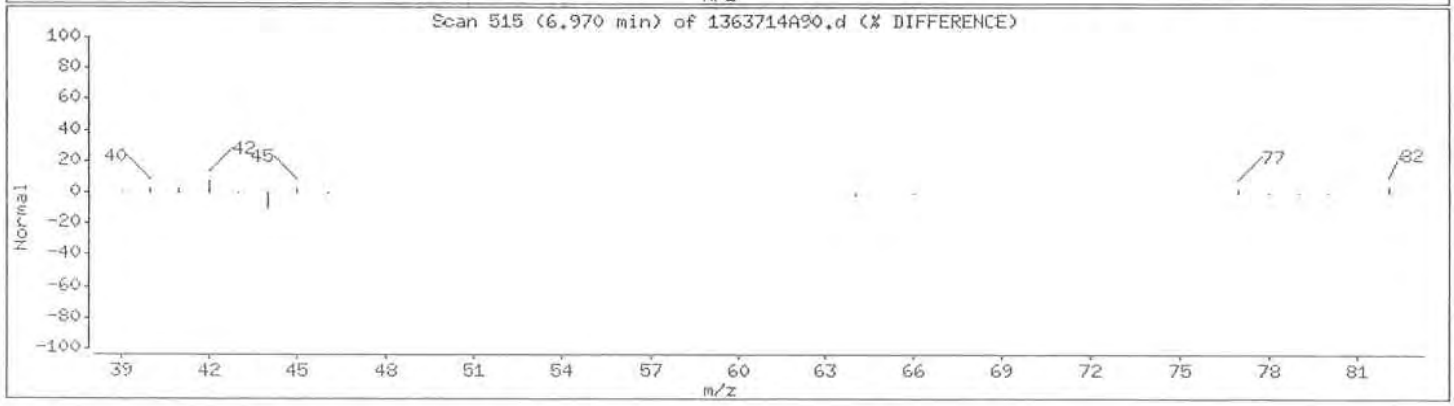
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.15 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d

Date : 24-AUG-2007 11:26

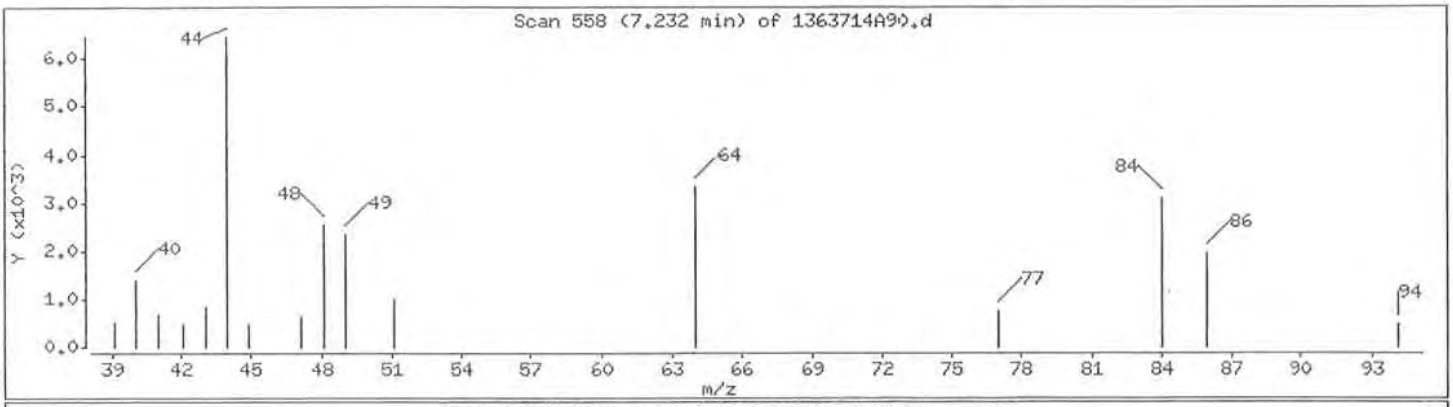
Client ID: Y3ET6 Instrument: 5973hp90.i

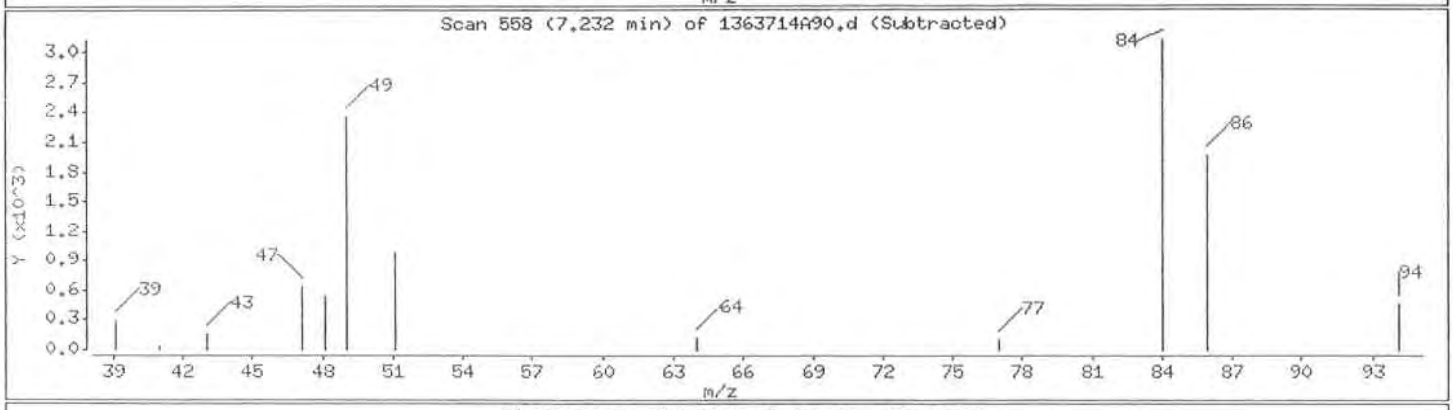
Sample Info: 1363714:2481

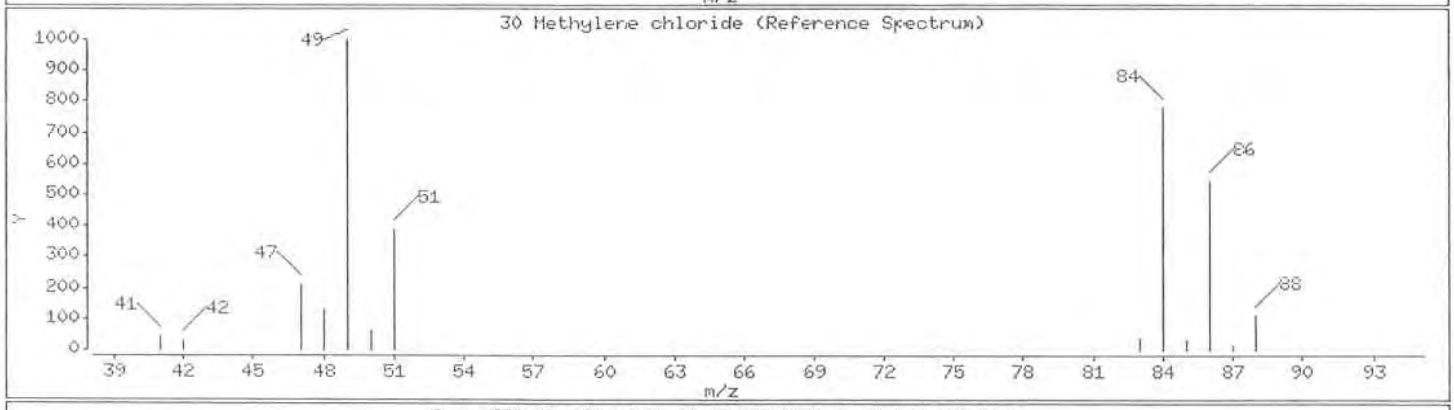
Purge Volume: 25.0 Operator: 2481

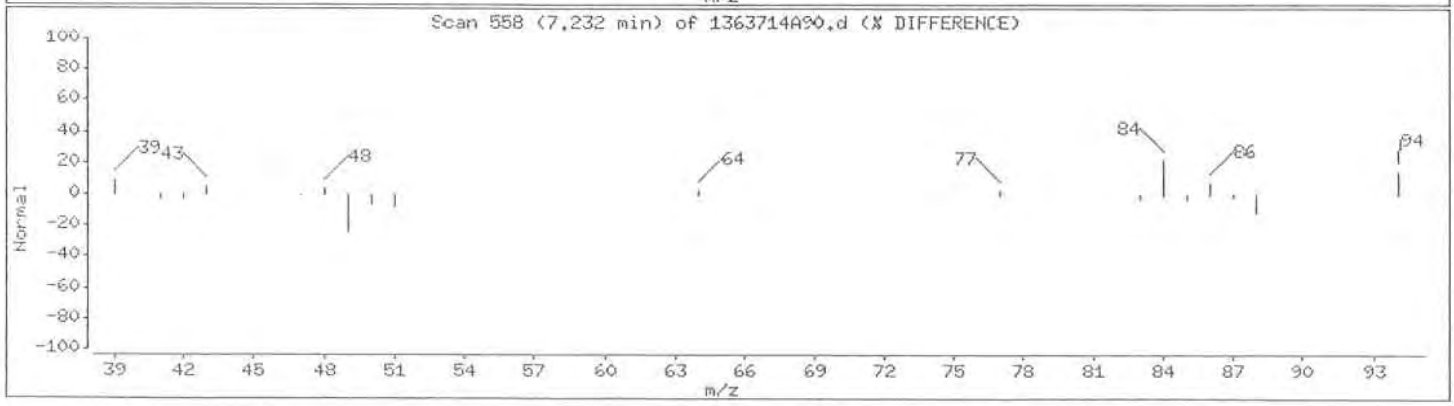
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.23 ug/L









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Date : 24-AUG-2007 11:26

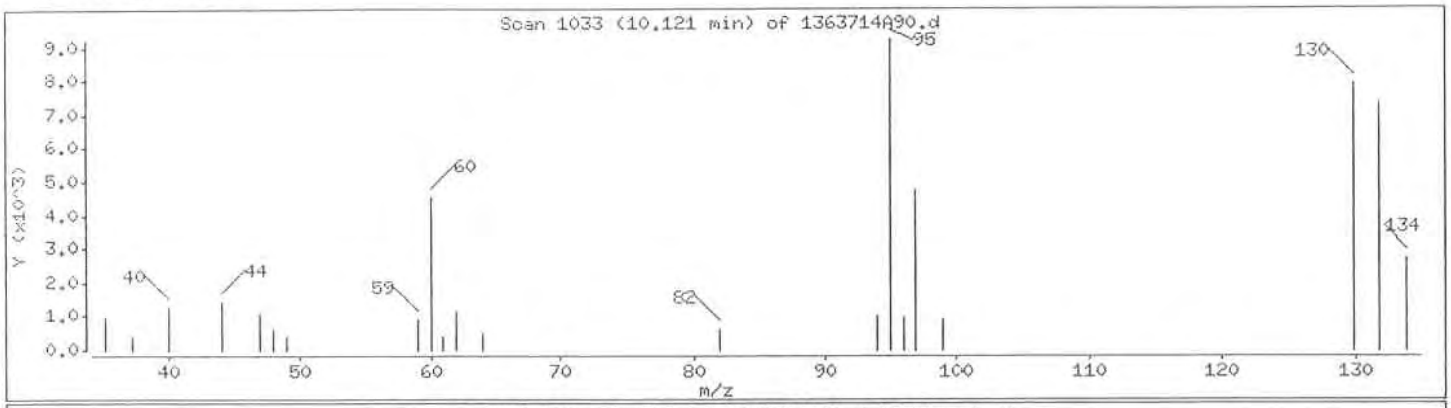
Client ID: Y3ET6 Instrument: 5973hp90.i

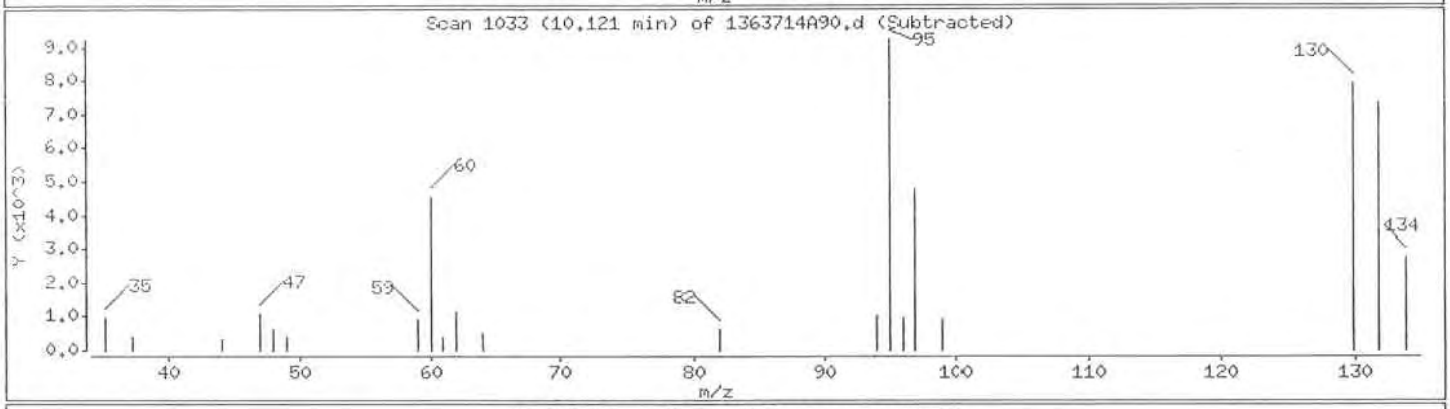
Sample Info: 1363714;2481

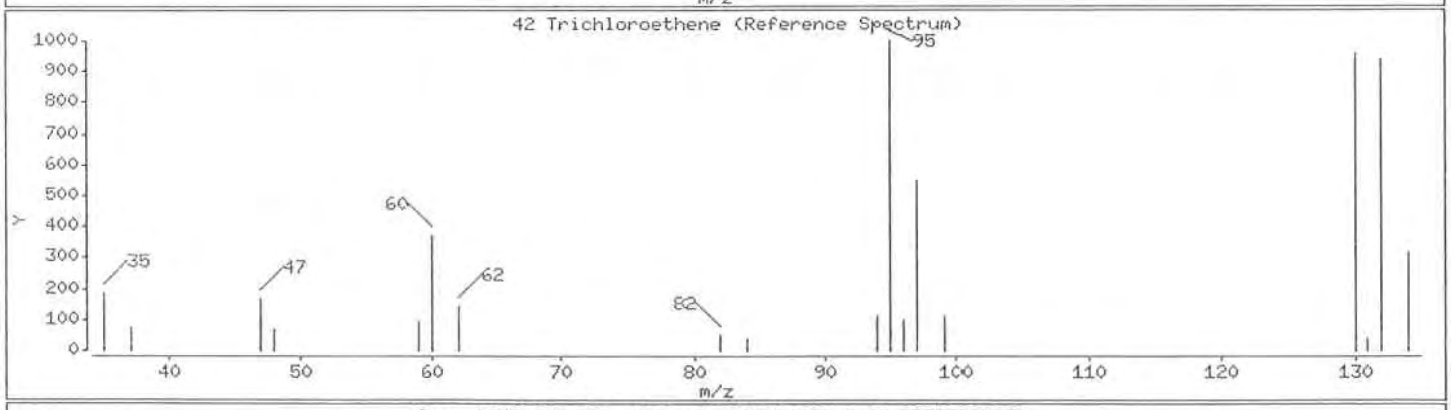
Purge Volume: 25.0 Operator: 2481

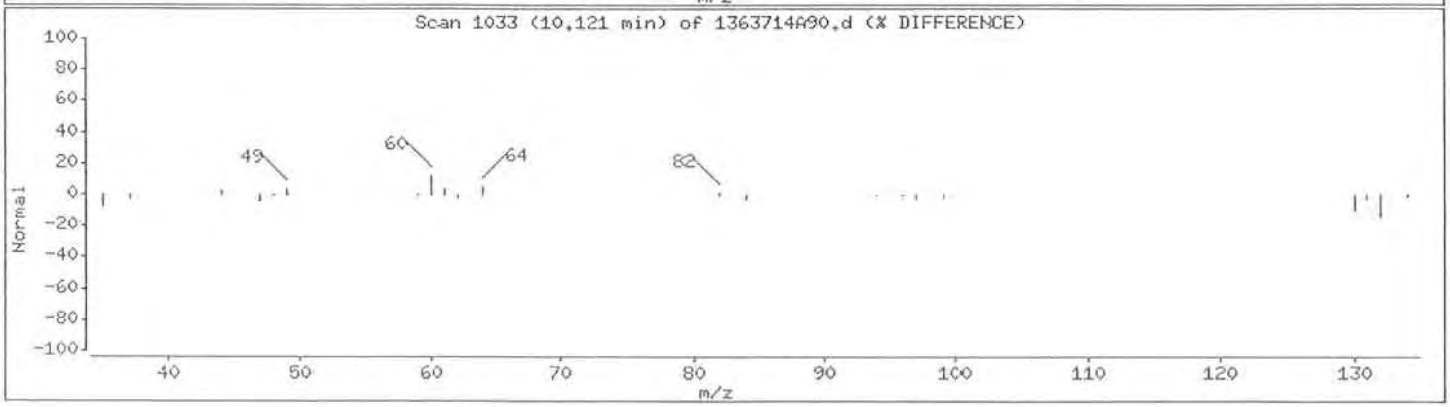
Column phase: SPB-624 Column diameter: 0.32

42 Trichloroethene Concentration: 0.52 ug/L









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Report Date: 03-Sep-2007 11:05

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363714A90.d
Lab Smp Id: 1363714 Client Smp ID: Y3ET6
Inj Date : 24-AUG-2007 11:26
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363714:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	ISTD	RT	AREA	AMOUNT
*	2 Chlorobenzene-d5	12.342	1211434	125.000
*	3 1,4-Dichlorobenzene-d4	14.130	1459891	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
13.035	166523	17.1823974	0.69	0		0	2
Laboratory Artifact			CAS #:				
16.126	155400	13.3057848	0.53	0		0	3

Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d

Date : 24-AUG-2007 11:26

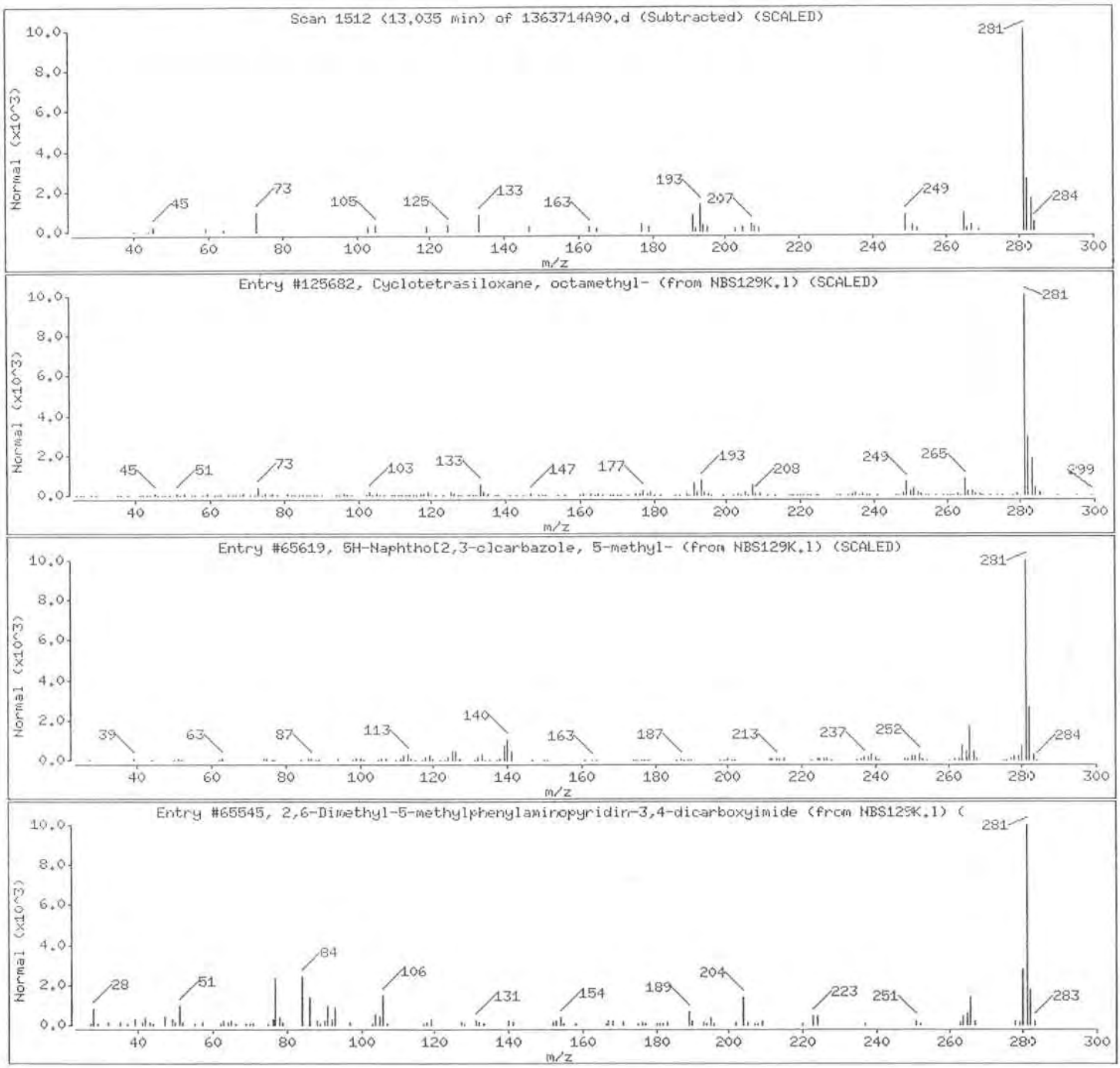
Client ID: Y3ET6 Instrument: 5973hp90.i

Sample Info: 1363714:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	80	C8H24O4Si4	296
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NBS129K.l	65619	53	C21H15N	281
2,6-Dimethyl-5-methylphenylaminopyridin-	0-00-0	NBS129K.l	65545	53	C16H15N3O2	281



Data File: /chem/5973hp90.i/DF070824A90.b/1363714A90.d

Date : 24-AUG-2007 11:26

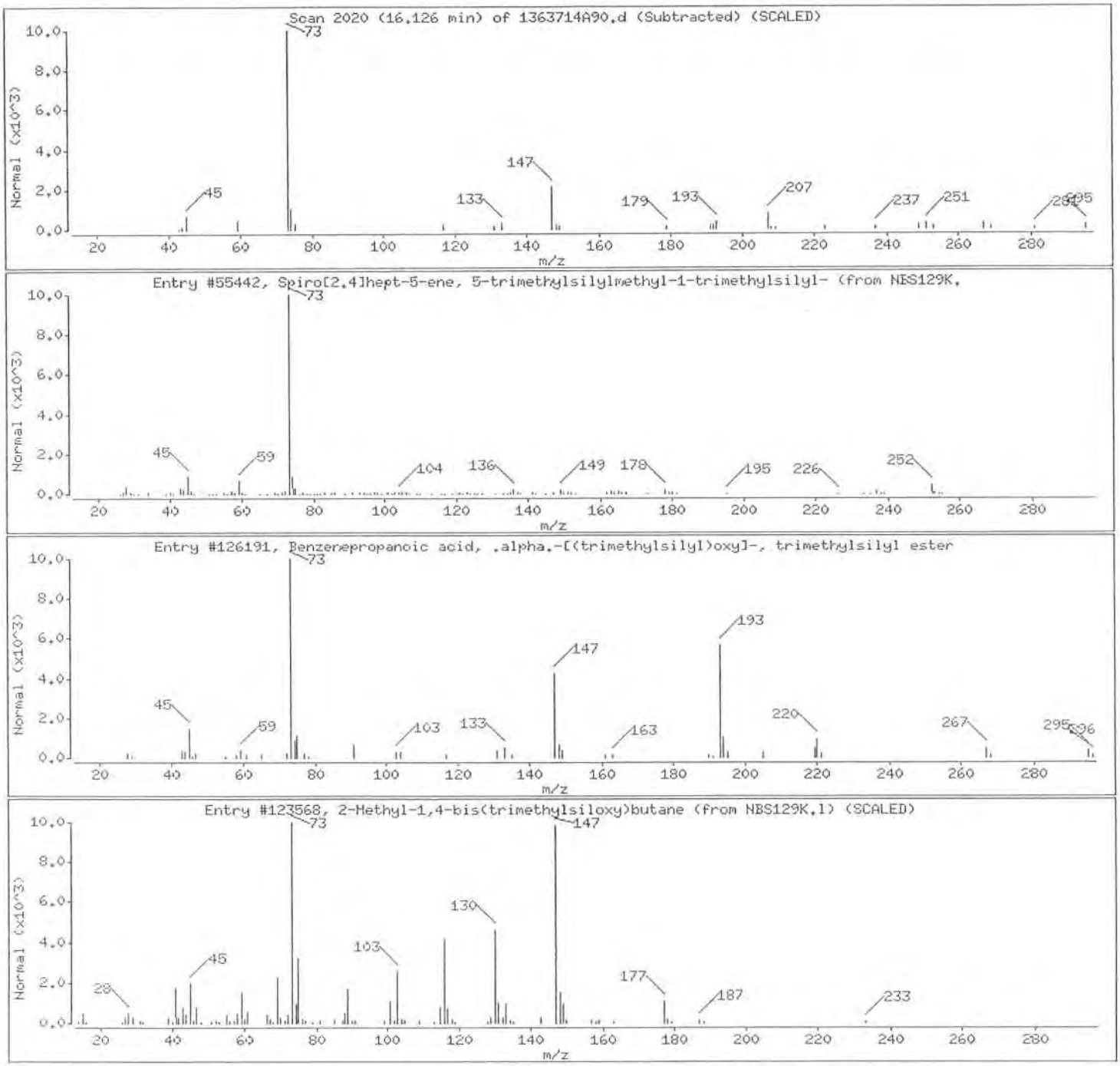
Client ID: Y3ET6 Instrument: 5973hp90.i

Sample Info: 1363714:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Laboratory Artifact						
Spiro[2.4]hept-5-ene, 5-trimethylsilylme	0-00-0	NBS129K.l	55442	35	C14H28Si2	252
Benzenepropanoic acid, .alpha.-[(trimeth	27750-45-4	NBS129K.l	126191	25	C15H26O3Si2	310
2-Methyl-1,4-bis(trimethylsiloxy)butane	105747-05-5	NBS129K.l	123568	17	C11H28O2Si2	248



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.13	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.21	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.18	J
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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.51	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

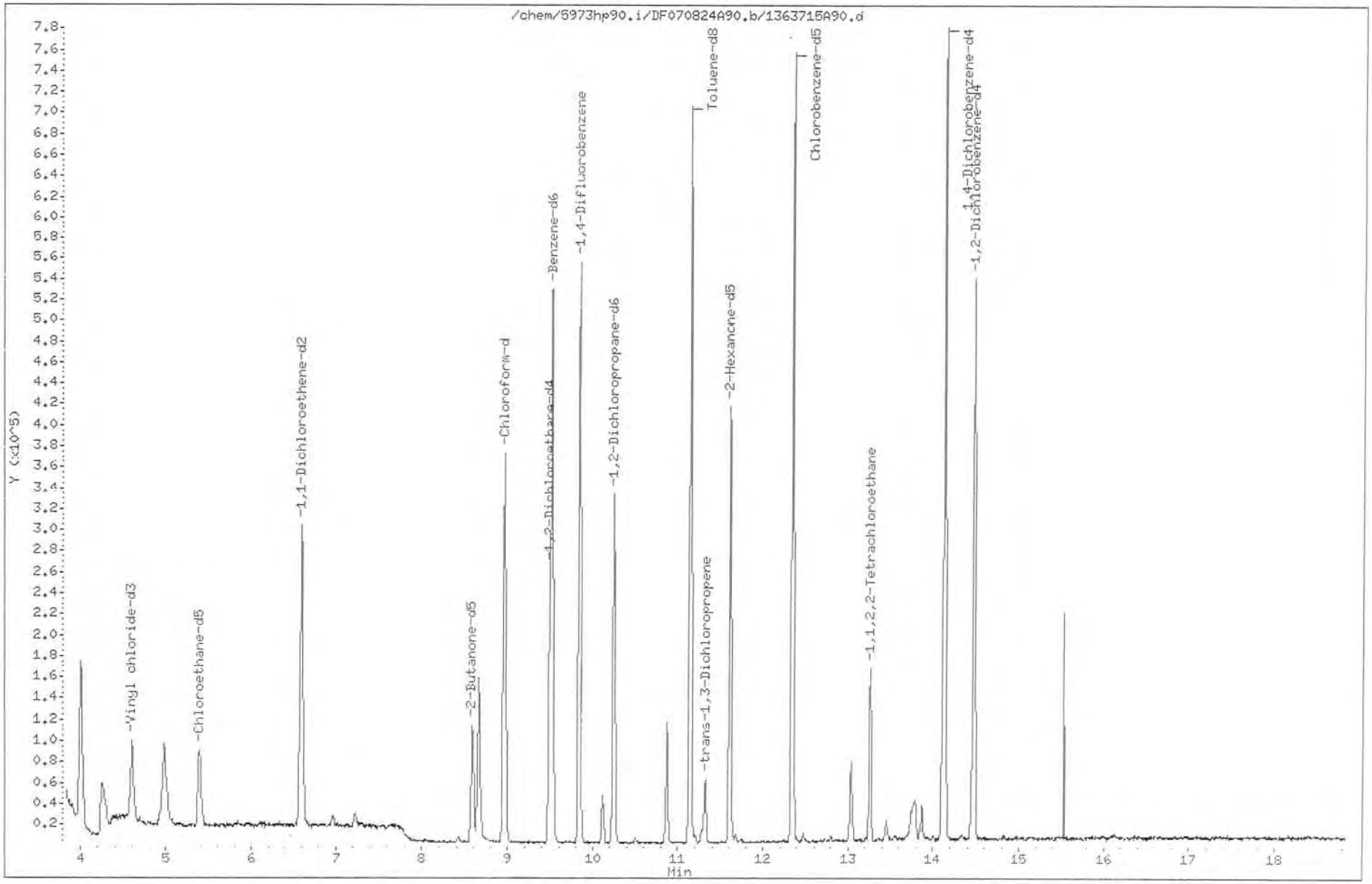
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-45-6	Methane, chlorodifluoro-	4.01	2.4	NJ
02	556-67-2	Cyclotetrasiloxane, octamethyl-	13.04	0.62	NJ
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					
	E966796 †	Total Alkanes	N/A		

† EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Date : 24-AUG-2007 11:55
Client ID: Y3ET7
Sample Info: 1363715:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 03-Sep-2007 11:07

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Lab Smp Id: 1363715 Client Smp ID: Y3ET7
Inj Date : 24-AUG-2007 11:55
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363715:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.836	9.844	(1.000)	386490	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.344	(1.000)	364209	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.132	(1.000)	197001	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.600	(0.467)	111495	114.688	4.6
$ 5	Chloroethane-d5	69	5.389	5.390	(0.548)	102842	125.963	5.0
$ 6	1,1-Dichloroethene-d2	63	6.593	6.601	(0.670)	243596	92.2772	3.7
$ 7	2-Butanone-d5	46	8.589	8.590	(0.873)	151924	1045.32	42
$ 8	Chloroform-d	84	8.960	8.967	(0.911)	321182	121.700	4.9
$ 9	1,2-Dichloroethane-d4	65	9.495	9.497	(0.965)	147729	122.348	4.9
$ 10	Benzene-d6	84	9.520	9.521	(0.771)	460881	120.293	4.8
$ 11	1,2-Dichloropropane-d6	67	10.250	10.245	(0.830)	129745	118.946	4.8
$ 12	Toluene-d8	98	11.144	11.145	(0.903)	432599	113.692	4.5
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.322	(0.917)	34517	97.9501	3.9
$ 14	2-Hexanone-d5	63	11.606	11.608	(0.940)	121362	1018.44	41
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.256	(1.074)	73093	116.303	4.7
$ 17	1,2-Dichlorobenzene-d4	152	14.472	14.473	(1.024)	142932	107.118	4.3
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 03-Sep-2007 11:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	6.971	6.972	(0.709)	15995	3.36501	0.13(a)
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.226	7.228	(0.735)	6771	5.30814	0.21(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	8.680	8.688	(0.882)	4791	4.41544	0.18(a)
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	10.116	10.117	(0.820)	16507	12.6686	0.51
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 03-Sep-2007 11:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

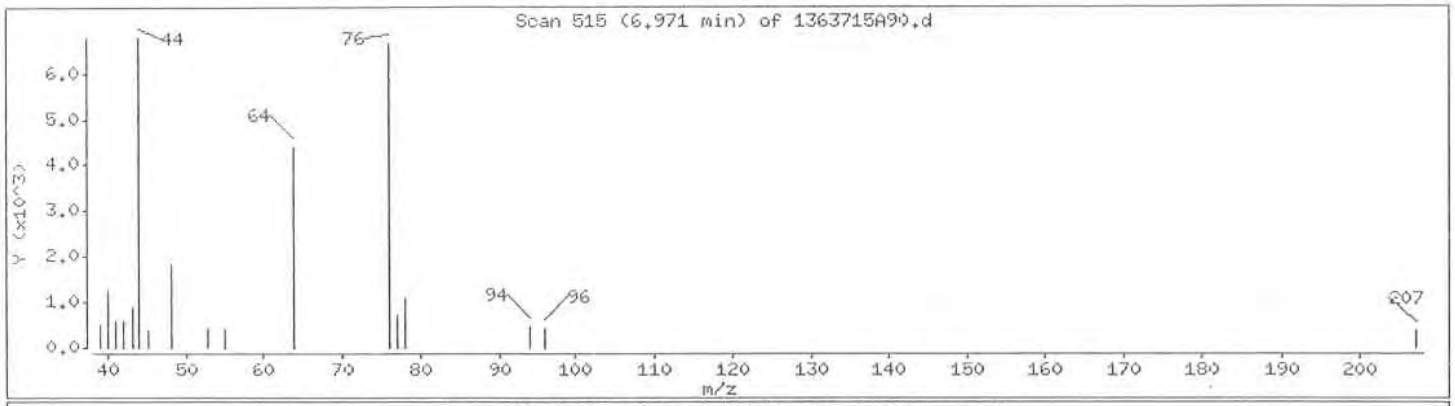
Client ID: Y3ET7 Instrument: 5973hp90.i

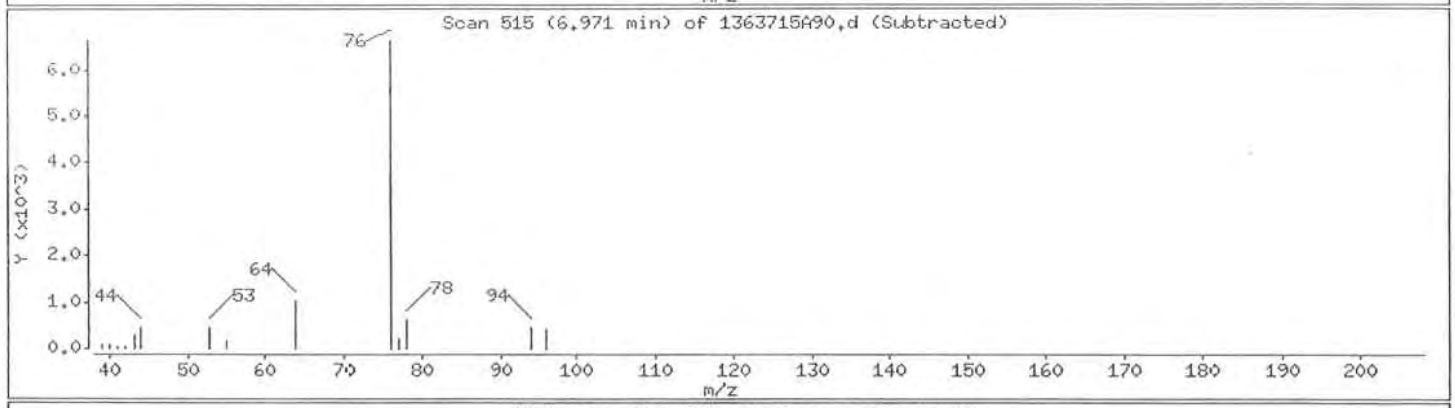
Sample Info: 1363715;2481

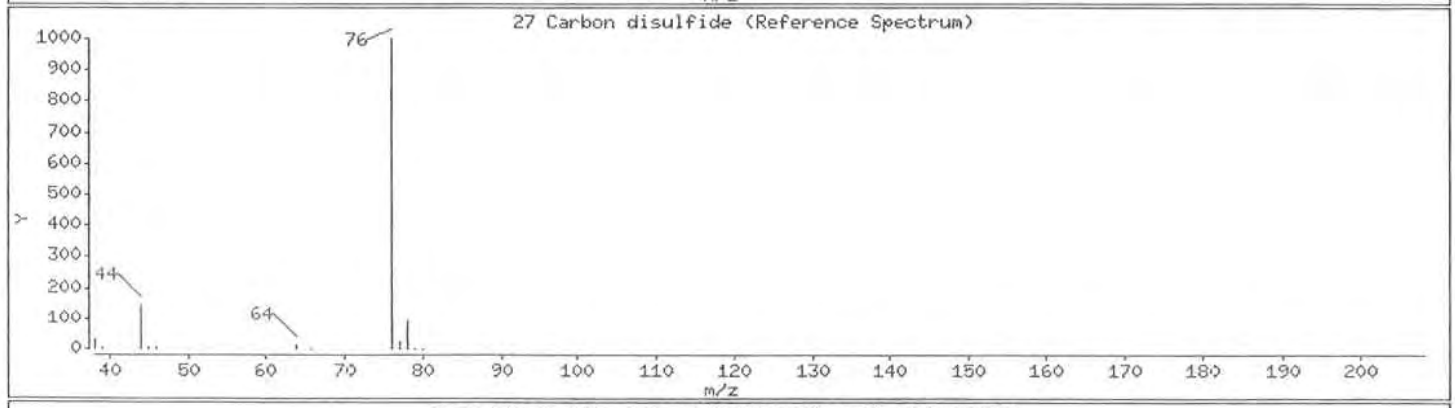
Purge Volume: 25.0 Operator: 2481

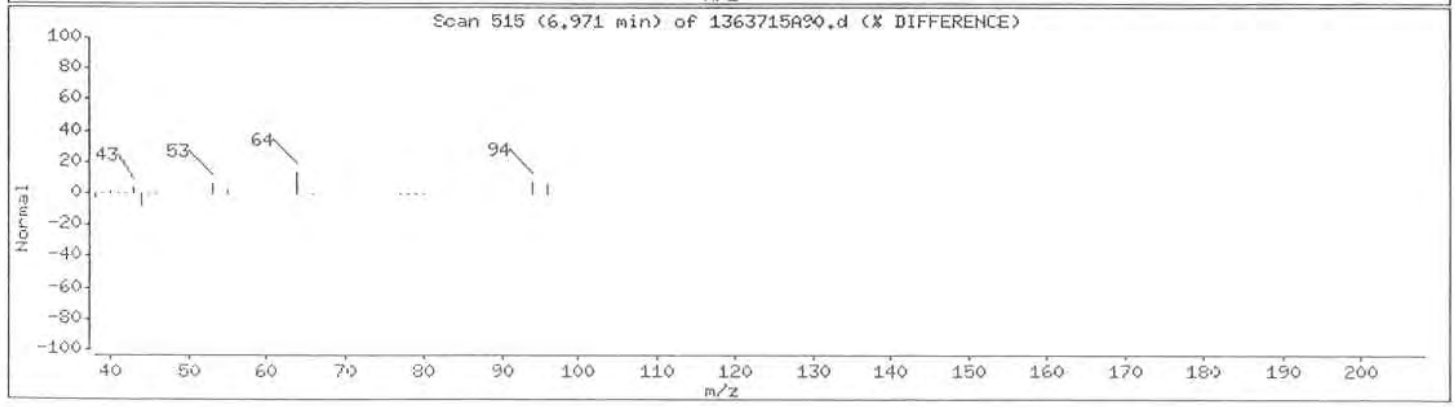
Column phase: SPB-624 Column diameter: 0.32

27 Carbon disulfide Concentration: 0.13 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

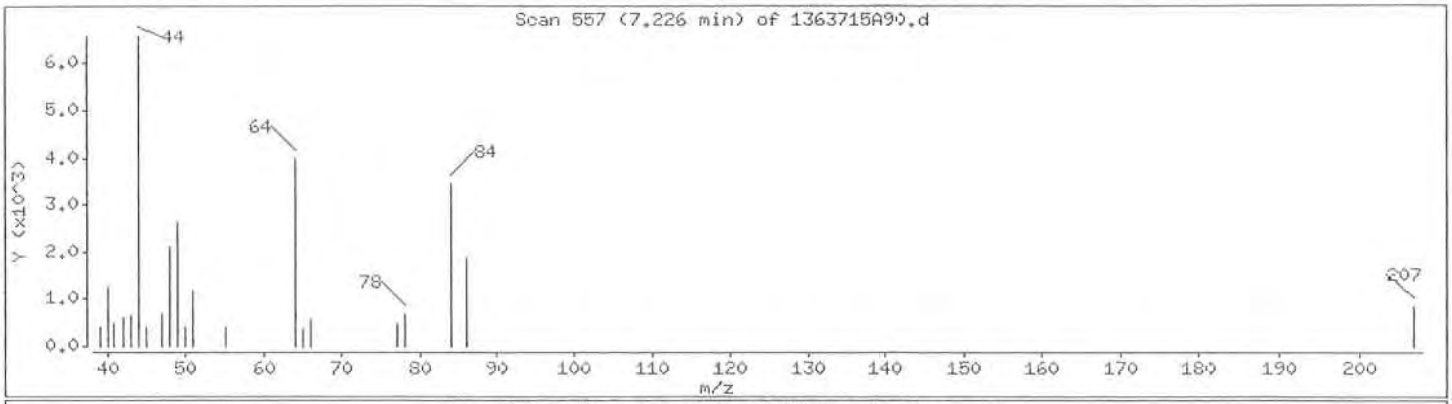
Client ID: Y3ET7 Instrument: 5973hp90.i

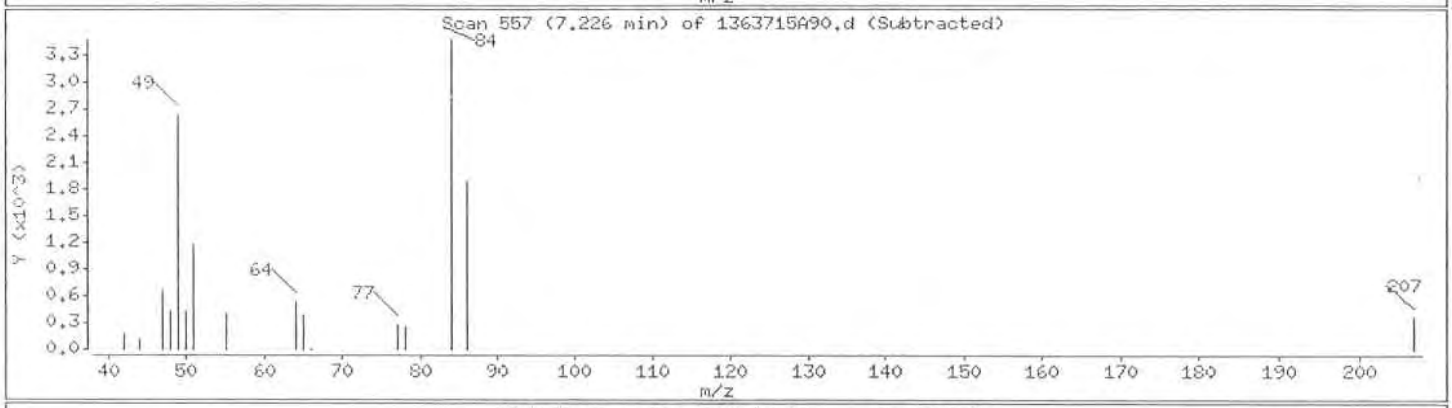
Sample Info: 1363715:2481

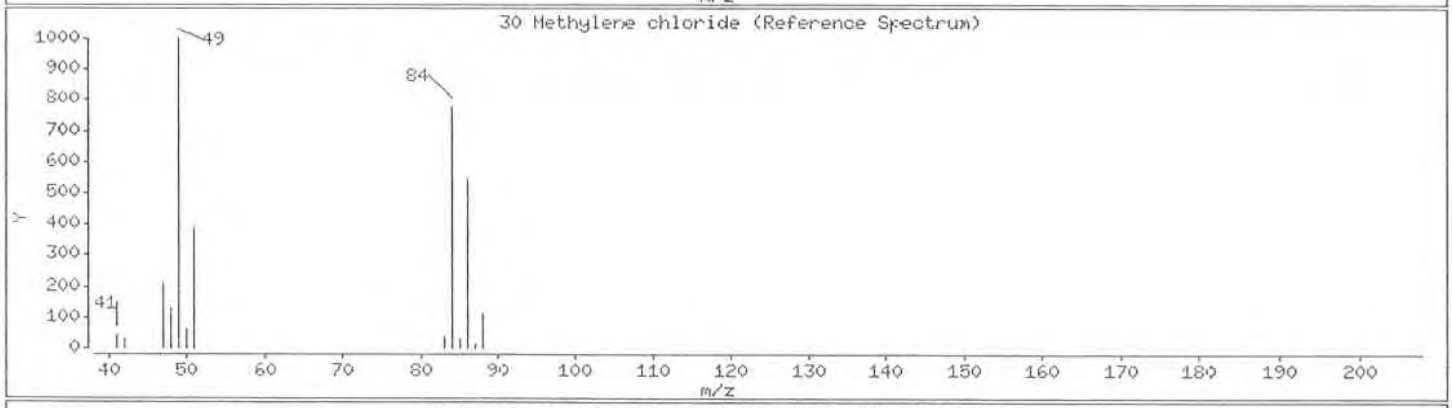
Purge Volume: 25.0 Operator: 2481

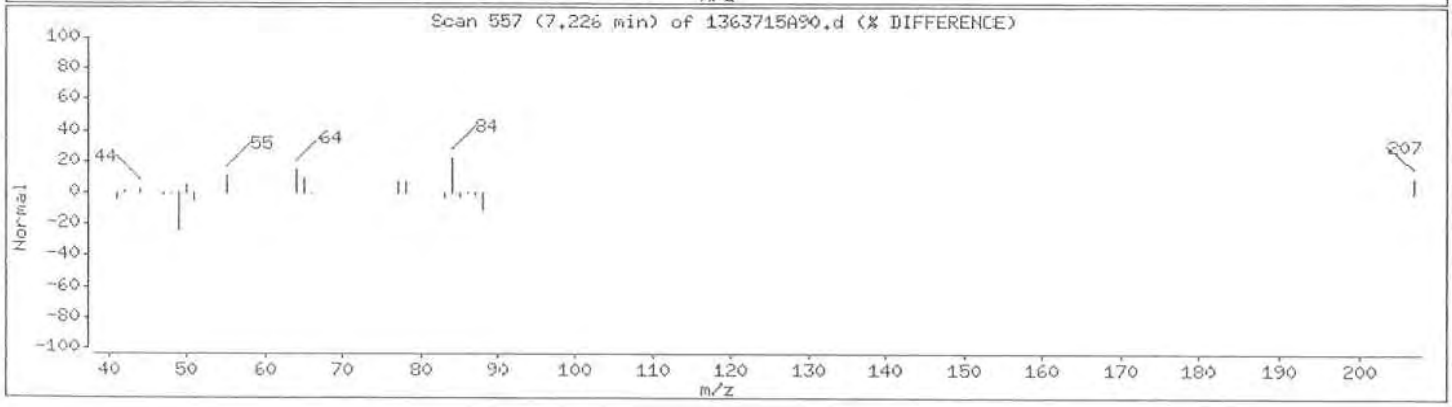
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.21 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

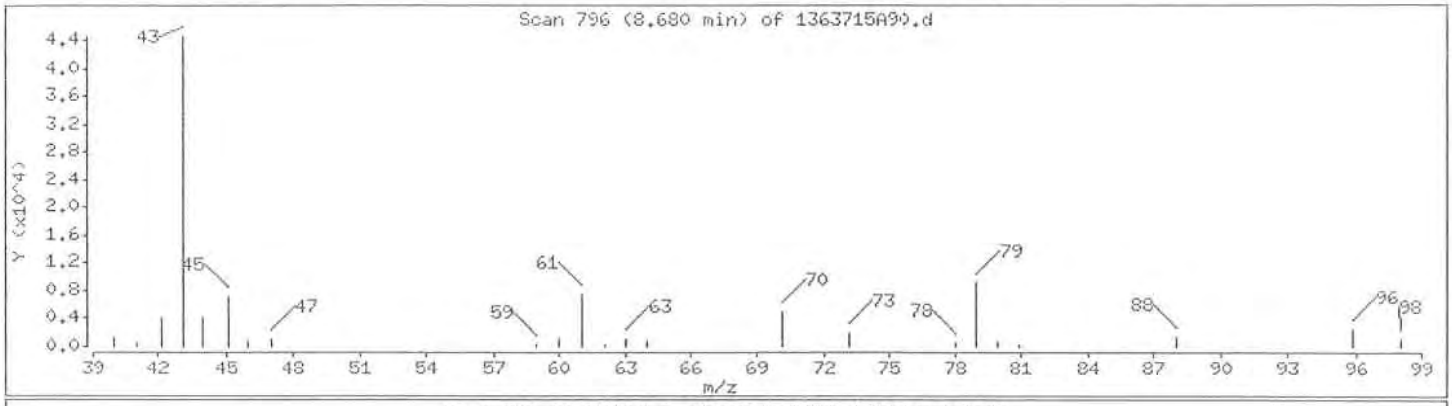
Client ID: Y3ET7 Instrument: 5973hp90.i

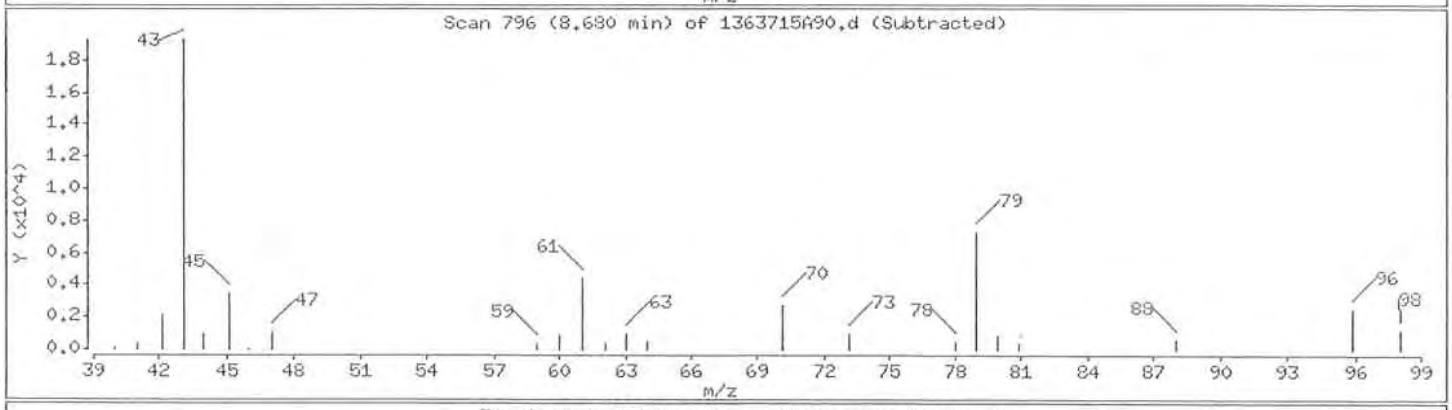
Sample Info: 1363715:2481

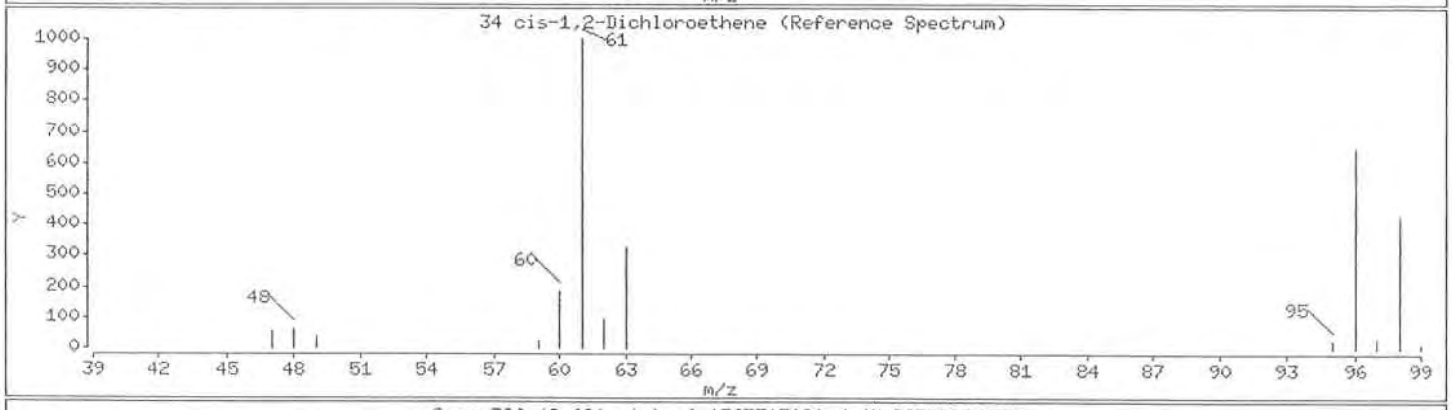
Purge Volume: 25.0 Operator: 2481

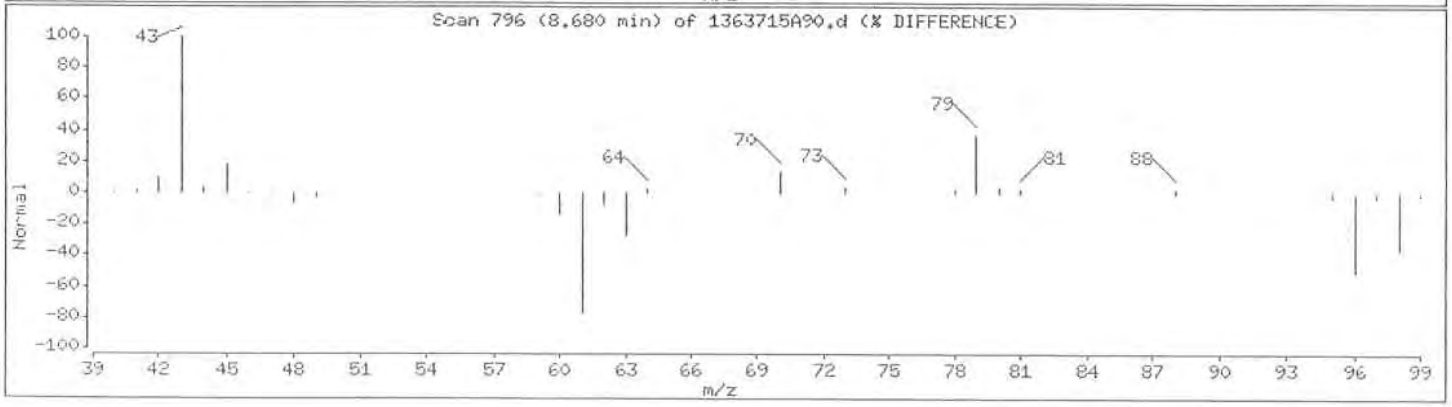
Column phase: SPB-624 Column diameter: 0.32

34 cis-1,2-Dichlorcethene Concentration: 0.18 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

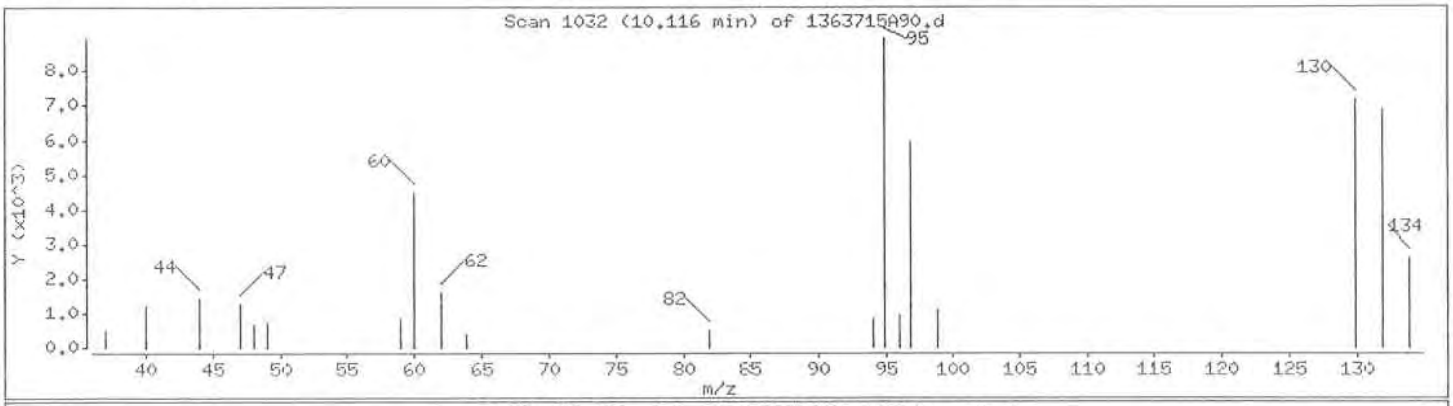
Client ID: Y3ET7 Instrument: 5973hp90.i

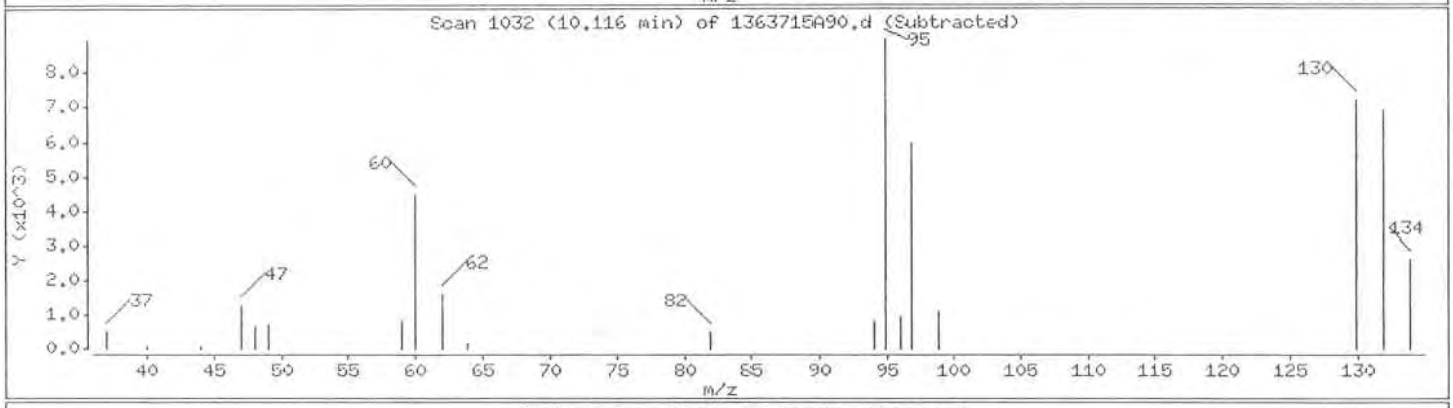
Sample Info: 1363715:2481

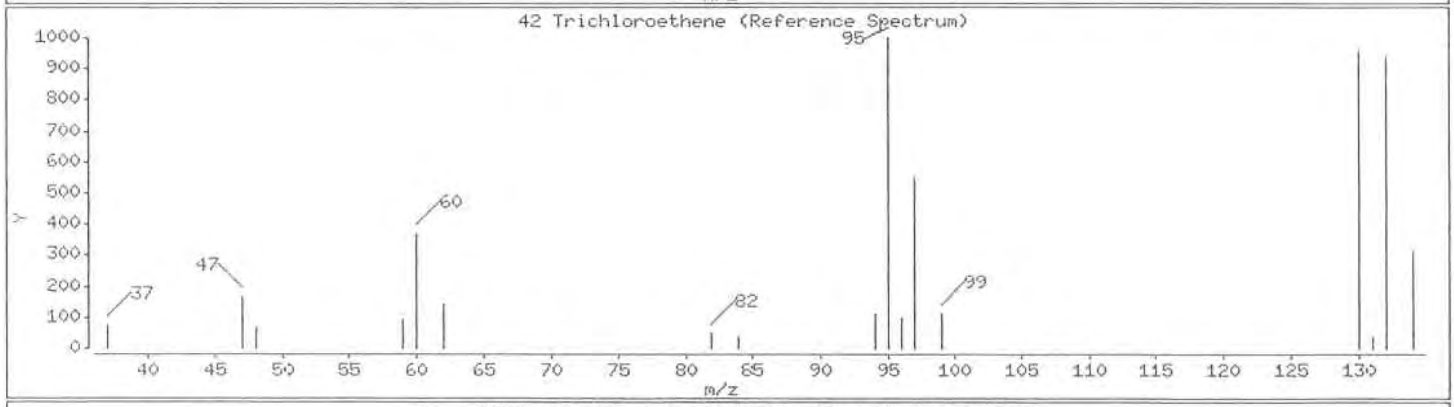
Purge Volume: 25.0 Operator: 2481

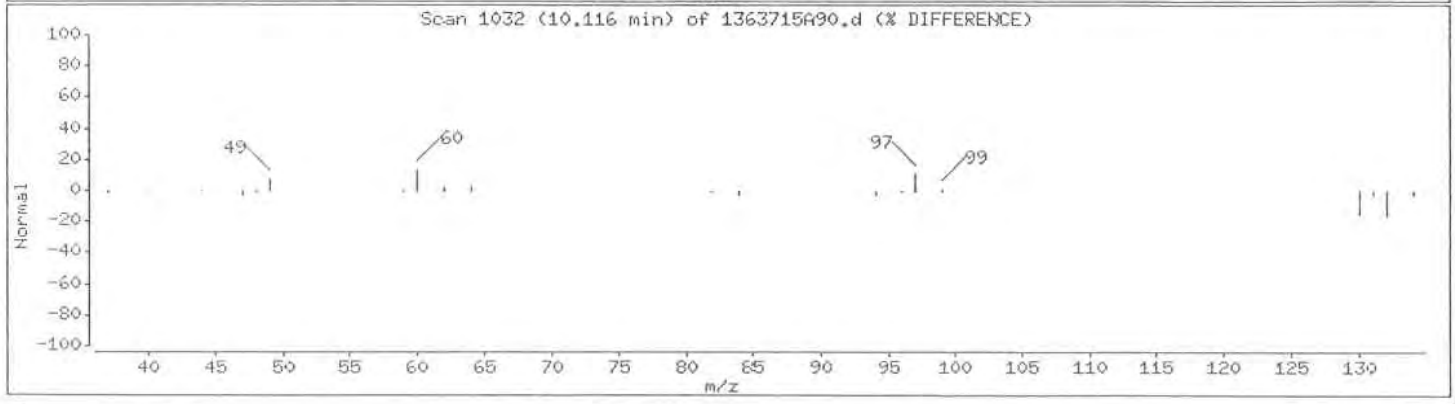
Column phase: SPB-624 Column diameter: 0.32

42 Trichloroethene Concentration: 0.51 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 03-Sep-2007 11:07

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Lab Smp Id: 1363715 Client Smp ID: Y3ET7
Inj Date : 24-AUG-2007 11:55
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363715:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	ISTD	RT	AREA	AMOUNT
* 1	1,4-Difluorobenzene	9.836	1007811	125.000
* 2	Chlorobenzene-d5	12.342	1201583	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Methane, chlorodifluoro- $$ Algeon 22 $$				CAS #: 75-45-6			
4.008	486674	60.3626901	2.4	90	NBS129K.l	735	1
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
13.036	147950	15.3911335	0.62	91	NBS129K.l	125682	2

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

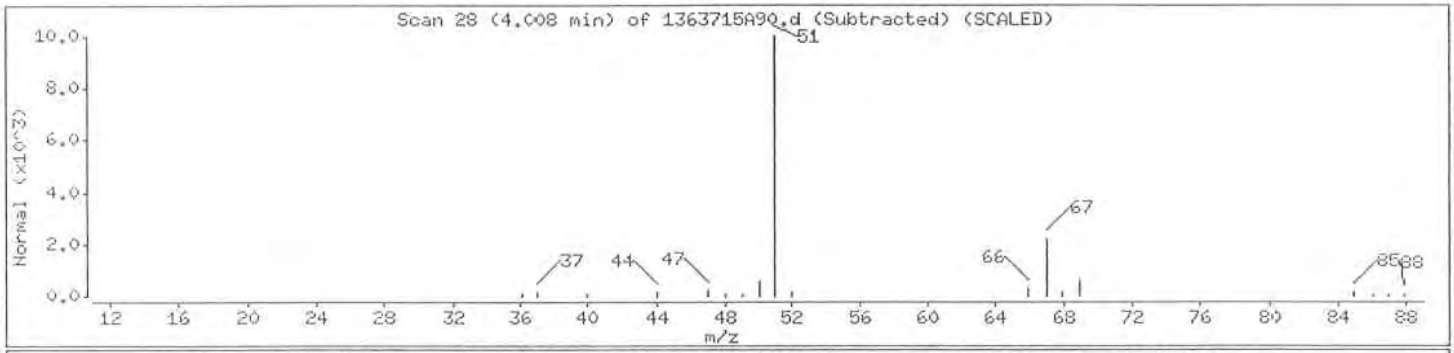
Client ID: Y3ET7 Instrument: 5973hp90.i

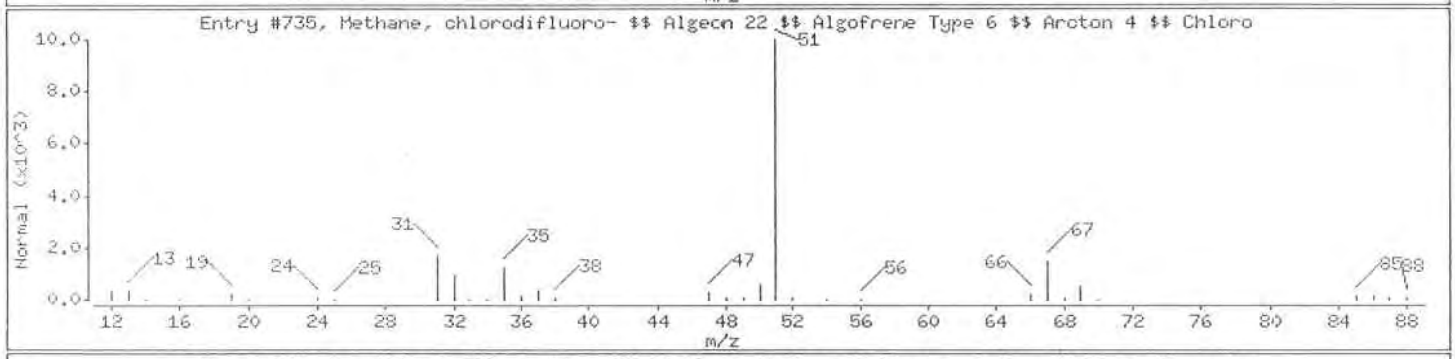
Sample Info: 1363715:2481

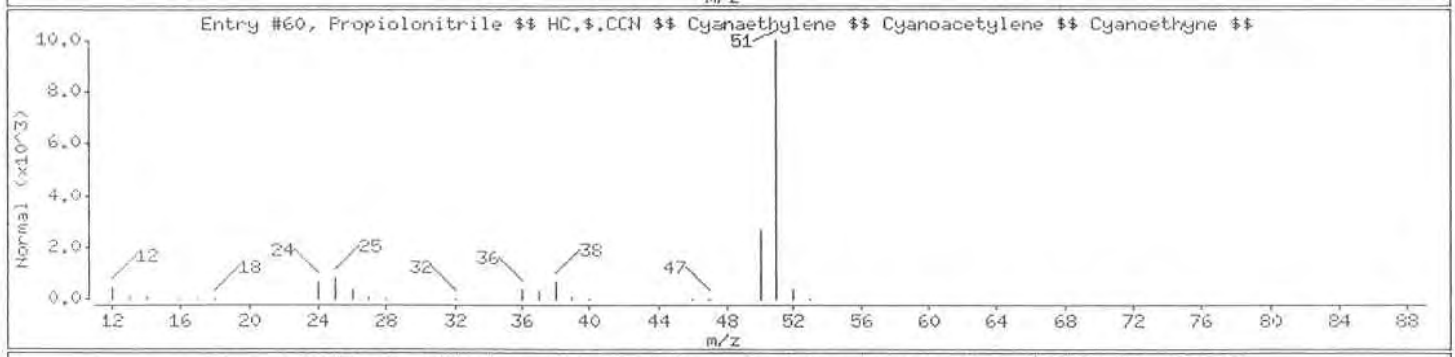
Purge Volume: 25.0 Operator: 2481

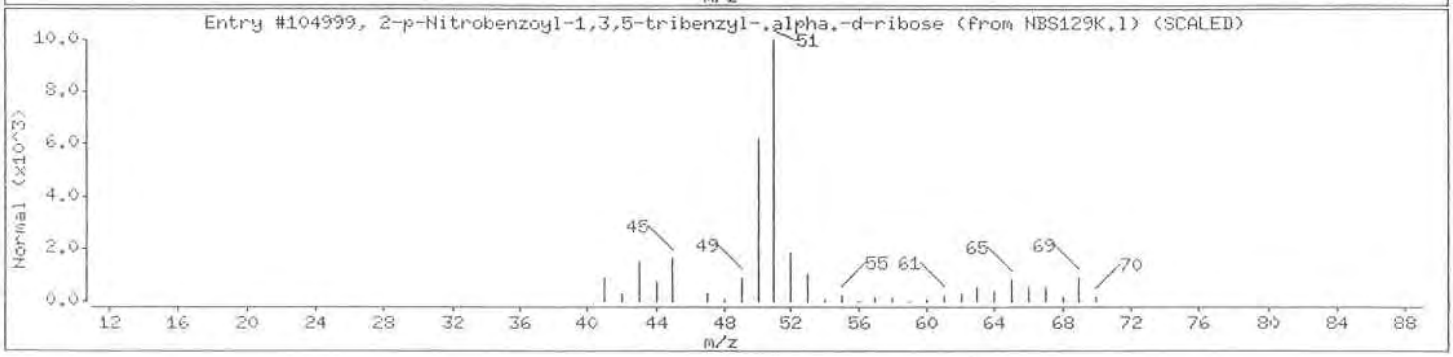
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methane, chlorodifluoro- $$ Algeon 22 $$	75-45-6	NBS129K.l	735	90	CHClF2	86
Propiolonitrile $$ HC.$.CCN $$ Cyanaethy	1070-71-9	NBS129K.l	60	3	C3HN	51
2-p-Nitrobenzoyl-1,3,5-tribenzyl-.alpha.	0-00-0	NBS129K.l	104999	2	C33H31NO8	569









Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

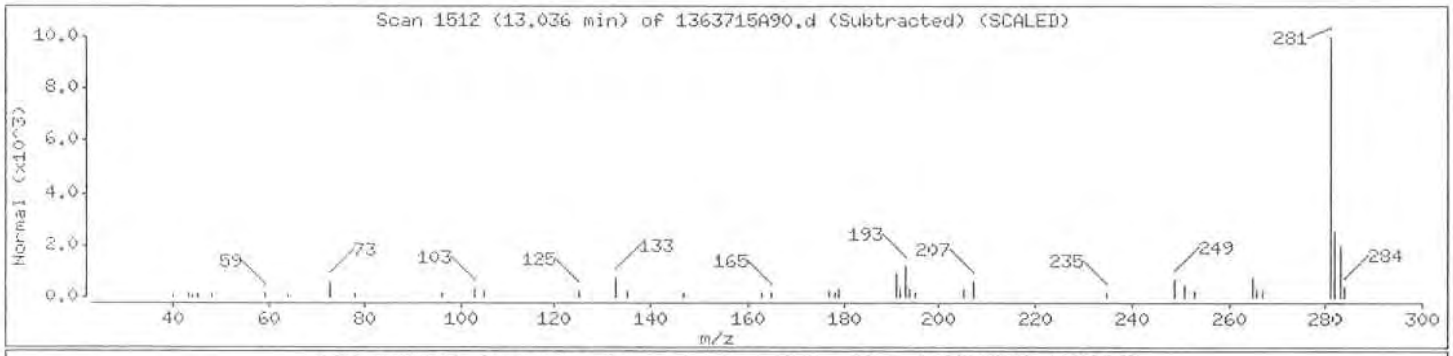
Client ID: Y3ET7 Instrument: 5973hp90.i

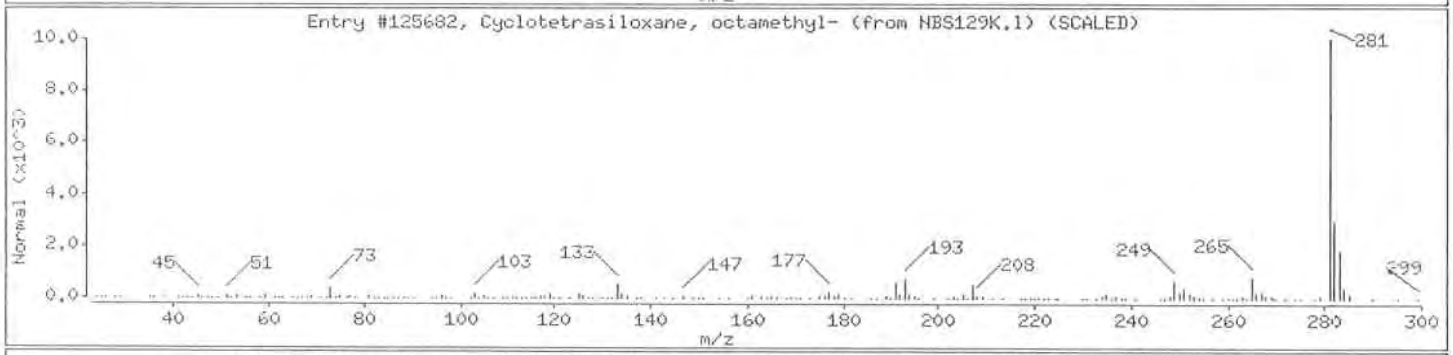
Sample Info: 1363715;2481

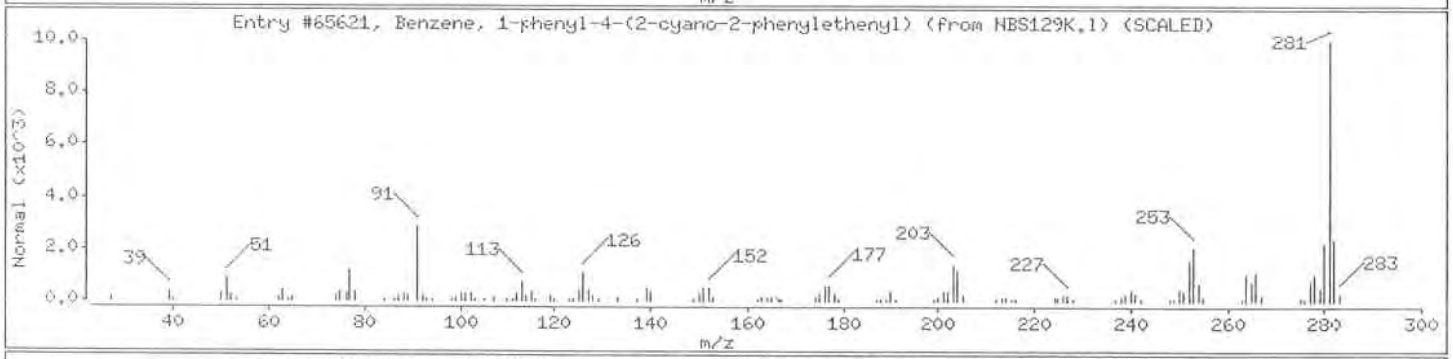
Purge Volume: 25.0 Operator: 2481

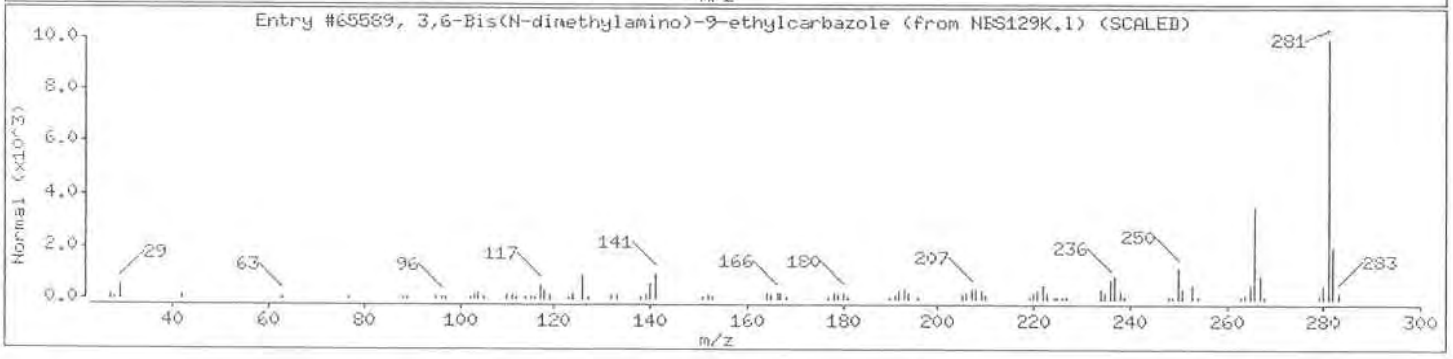
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	91	C8H24O4Si4	296
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-56-3	NBS129K.l	65621	53	C21H15N	281
3,6-Bis(N-dimethylamino)-9-ethylcarbazol	57103-04-5	NBS129K.l	65589	53	C18H23N3	281









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	7.2	JB
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	0.48	JB
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	4.2	
78-93-3	2-Butanone	13	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	20	
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U
127-18-4	Tetrachloroethene	0.84	J
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	1.3	U
87-61-6	1,2,3-Trichlorobenzene	1.3	U
75-65-0	tertiary butyl alcohol	13	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	7.0	J
02					
03					
04					
05					
06					
07					
08					
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14					
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16					
17					
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19					
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21					
22					
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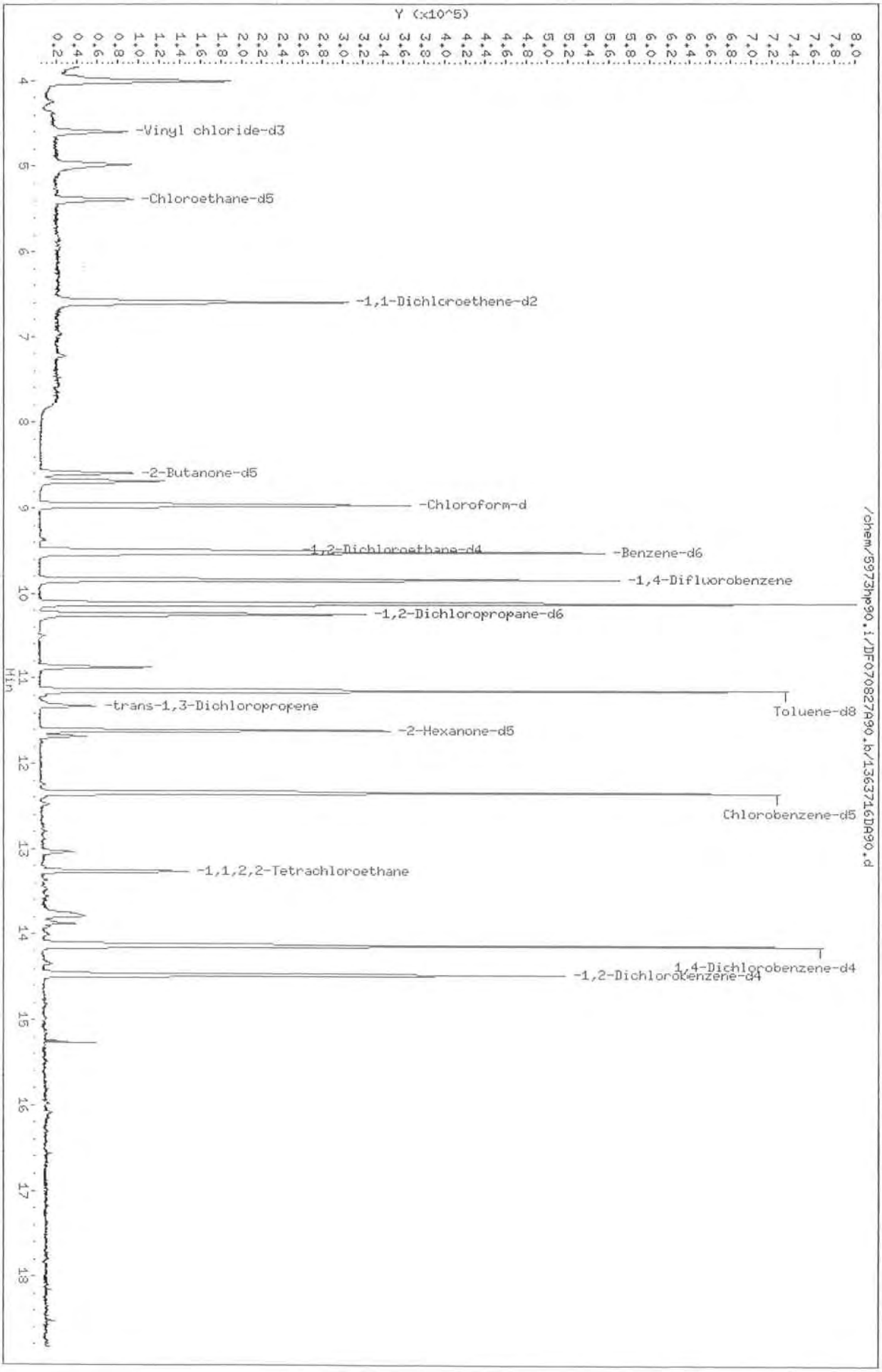
24					
25					
26					
27					
28					
29					
30					
	E966796 [1]	Total Alkanes	N/A		

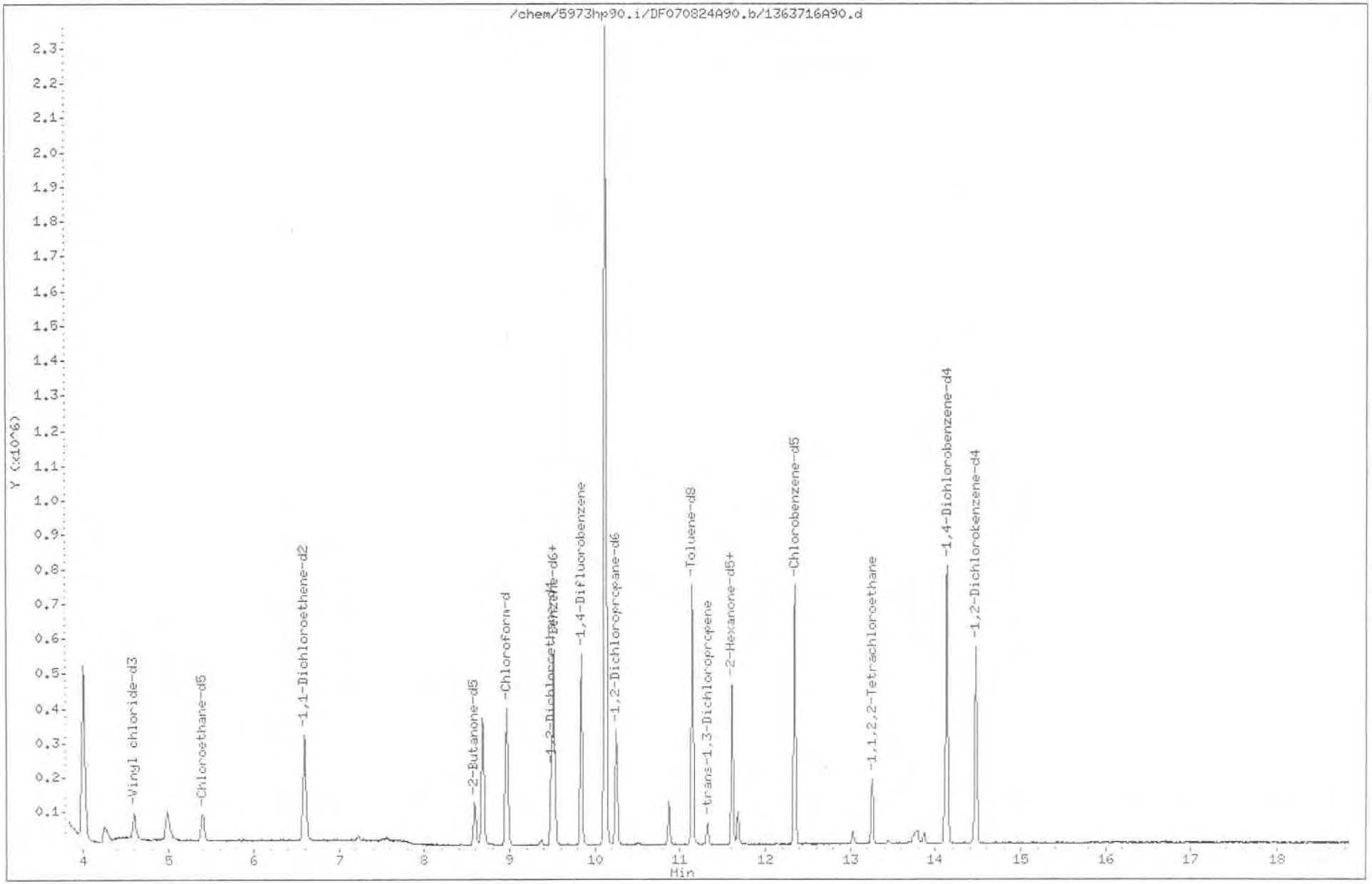
[1] EPA-designated Registry Number.


Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Date : 27-AUG-2007 11:39
Client ID: Y3ET8
Sample Info: 1363716:2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
Min
/chem/5973hp90.i/DF070827A90.b/1363716DA90.d
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
Toluene-d8
-trans-1,3-Dichloropropene
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4

Screen 85 ug

Data File: /chem/5973hp90.i/DF070824A90.b/1363716A90.d
Date : 24-AUG-2007 12:24
Client ID: Y3ET8
Sample Info: 1363716:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 03-Sep-2007 12:08

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Lab Smp Id: 1363716 Client Smp ID: Y3ET8
Inj Date : 27-AUG-2007 11:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363716:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 2
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.842	9.841	(1.000)	398982	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.347	(1.000)	368034	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.136	(1.000)	194044	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.597	(0.467)	110655	110.260	11
$ 5	Chloroethane-d5	69	5.389	5.388	(0.548)	106877	126.807	13
$ 6	1,1-Dichloroethene-d2	63	6.593	6.598	(0.670)	244003	89.5374	9.0
$ 7	2-Butanone-d5	46	8.595	8.588	(0.873)	124985	833.039	83
$ 8	Chloroform-d	84	8.966	8.965	(0.911)	325653	119.531	12
$ 9	1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	144125	115.626	12
$ 10	Benzene-d6	84	9.519	9.518	(0.771)	477365	123.301	12
$ 11	1,2-Dichloropropane-d6	67	10.249	10.248	(0.830)	128558	116.633	12
$ 12	Toluene-d8	98	11.144	11.143	(0.903)	451912	117.533	12
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	31649	88.8781	8.9(R)
$ 14	2-Hexanone-d5	63	11.612	11.611	(0.941)	102479	851.043	85
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	65074	102.467	10
$ 17	1,2-Dichlorobenzene-d4	152	14.471	14.470	(1.024)	138236	105.177	11
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 03-Sep-2007 12:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	6.654	6.653	(0.676)	6438	71.8909	7.2(a)
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.226	7.225	(0.734)	6295	4.78047	0.48(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	8.686	8.685	(0.883)	47469	42.3783	4.2
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	10.122	10.121	(0.820)	258313	196.187	20
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	11.679	11.678	(0.946)	8455	8.38116	0.84(a)
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 03-Sep-2007 12:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

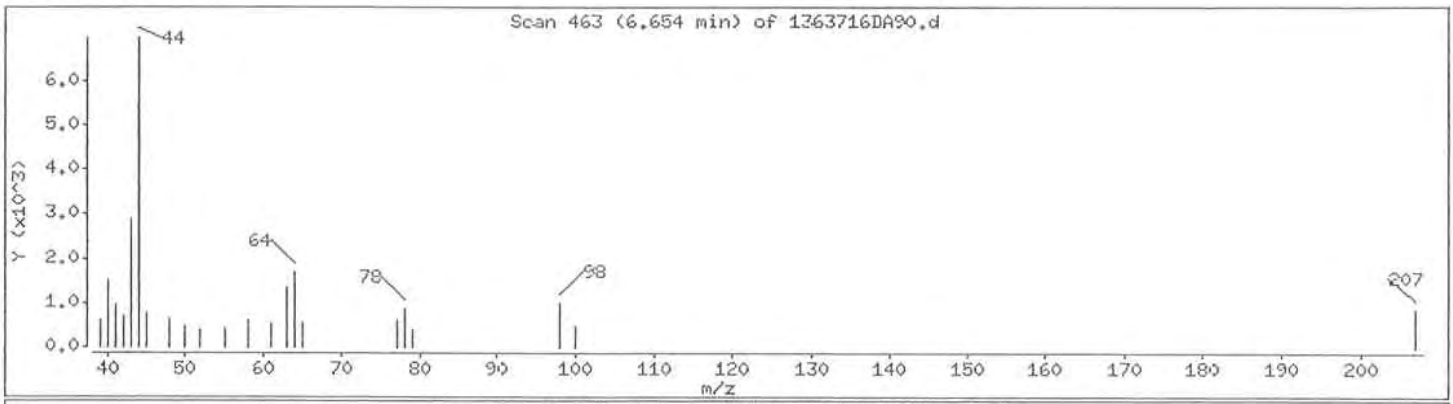
Client ID: Y3ET8 Instrument: 5973hp90.i

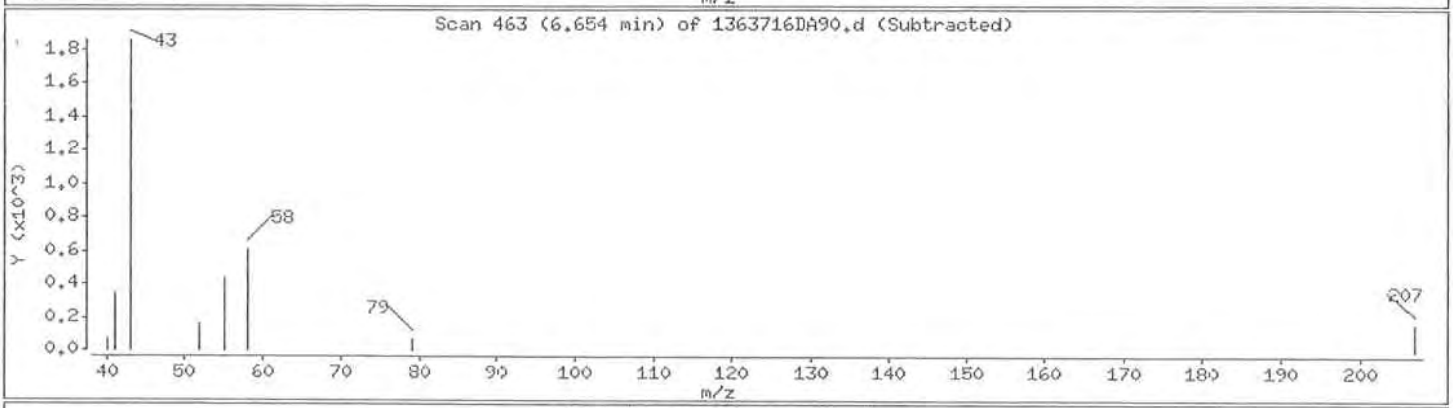
Sample Info: 1363716:2481

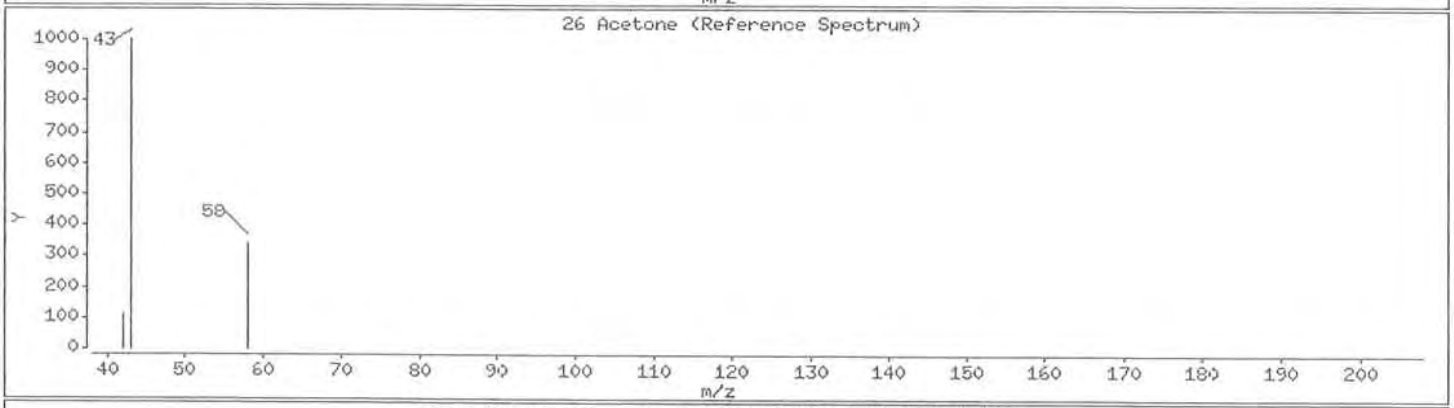
Purge Volume: 25.0 Operator: 2481

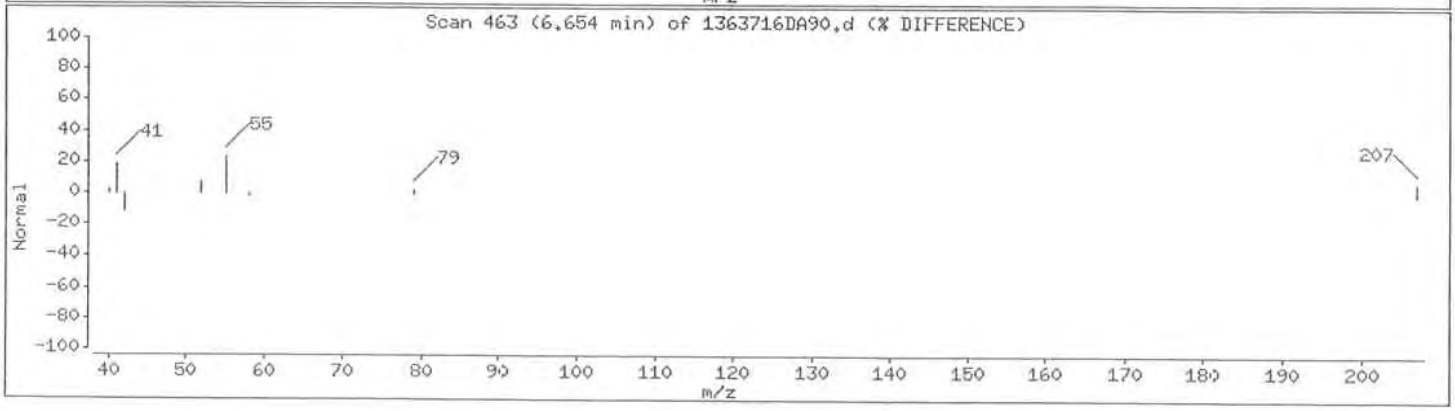
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 7.2 ug/L









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Date : 27-AUG-2007 11:39

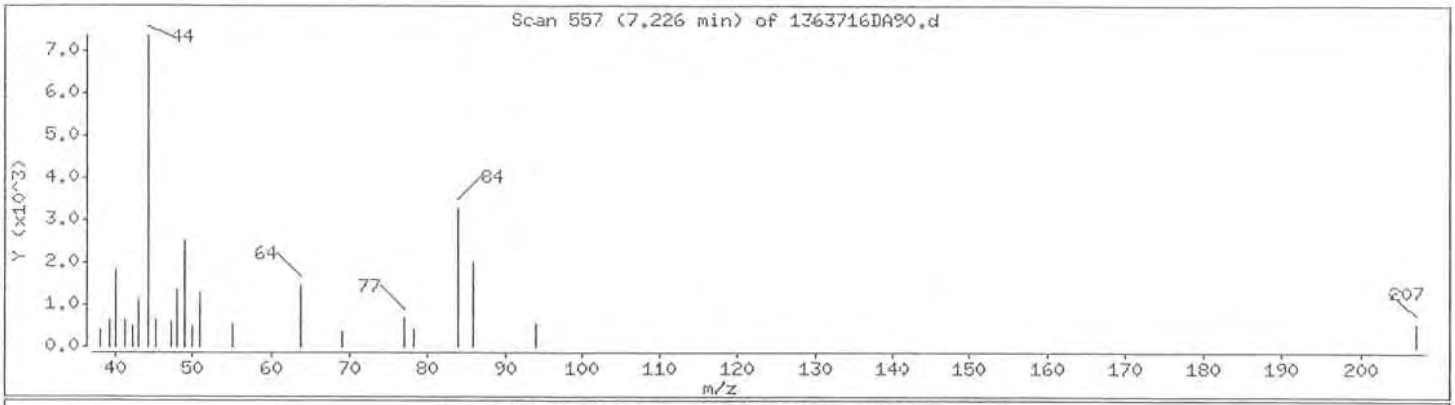
Client ID: Y3ET8 Instrument: 5973hp90.i

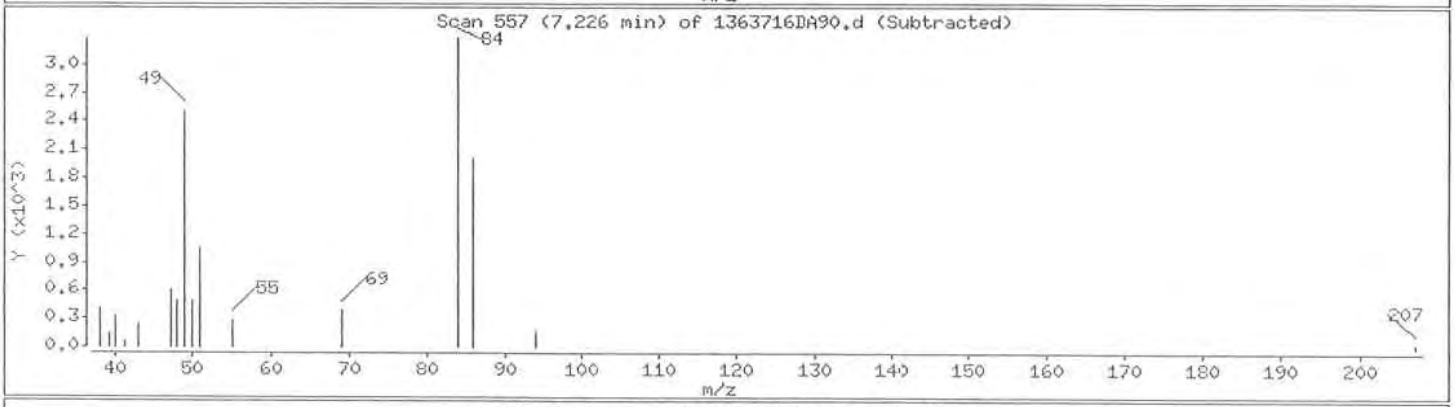
Sample Info: 1363716:2481

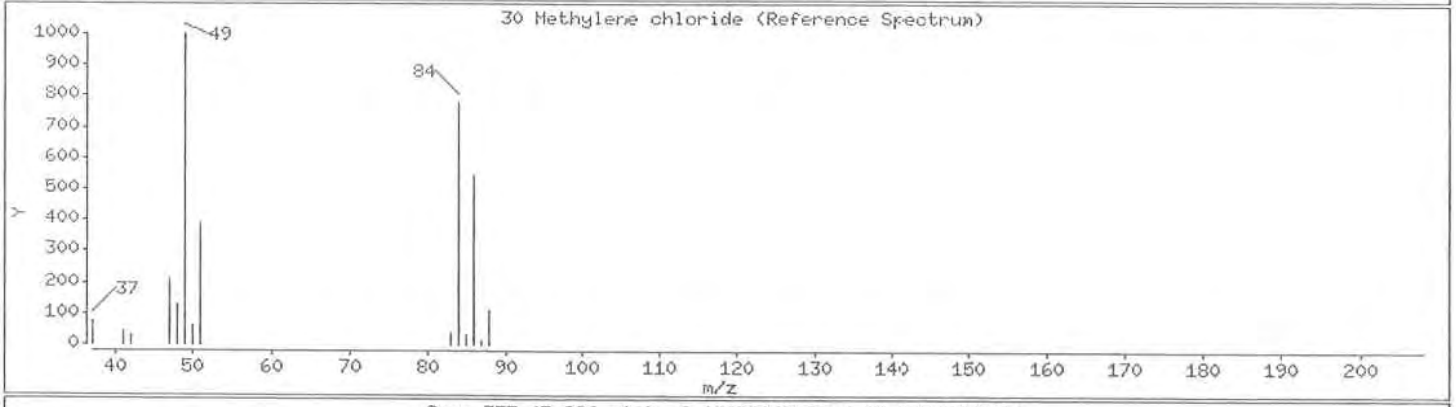
Purge Volume: 25.0 Operator: 2481

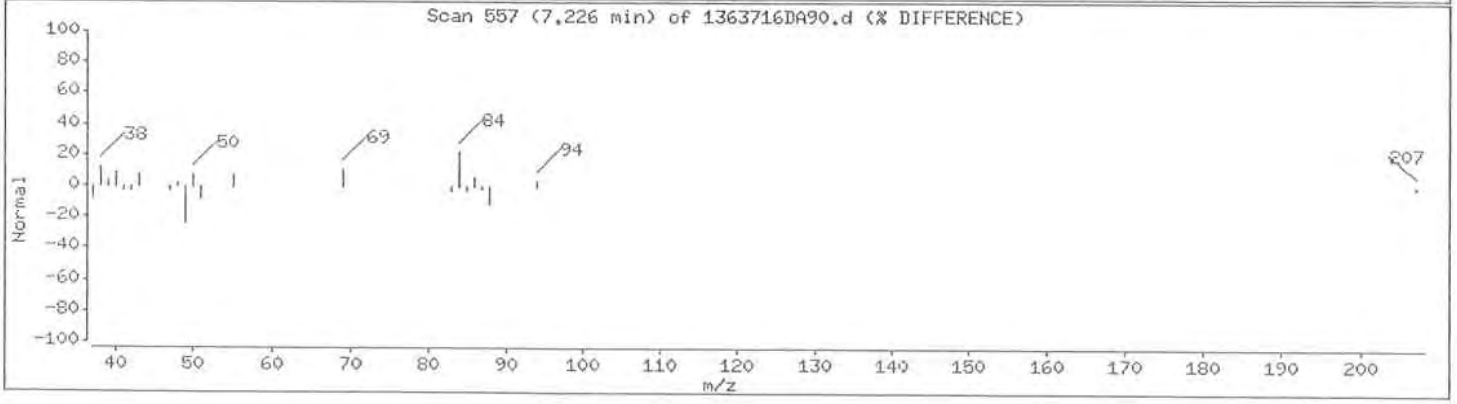
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.48 ug/L









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Date : 27-AUG-2007 11:39

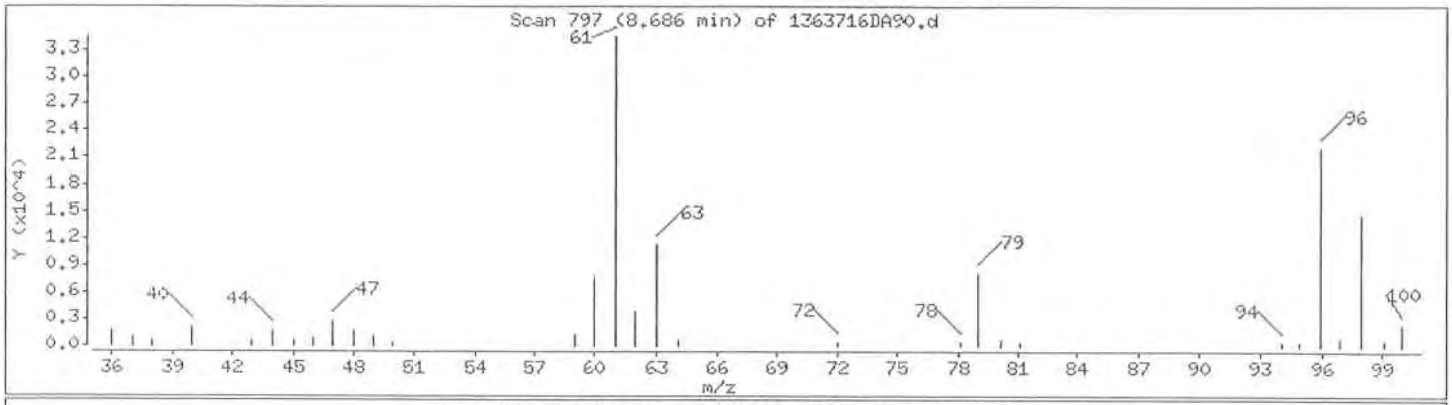
Client ID: Y3ET8 Instrument: 5973hp90.i

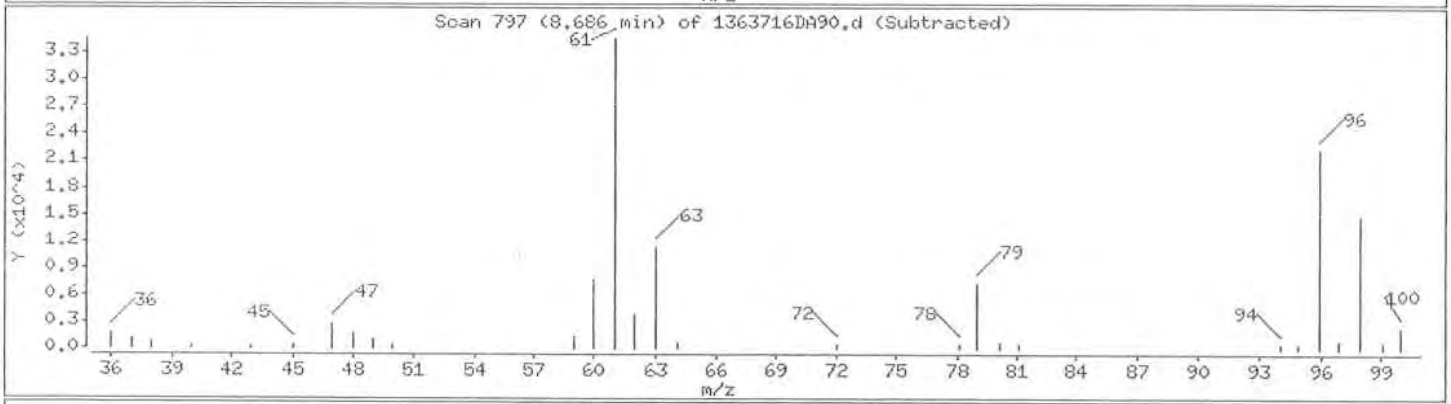
Sample Info: 1363716:2481

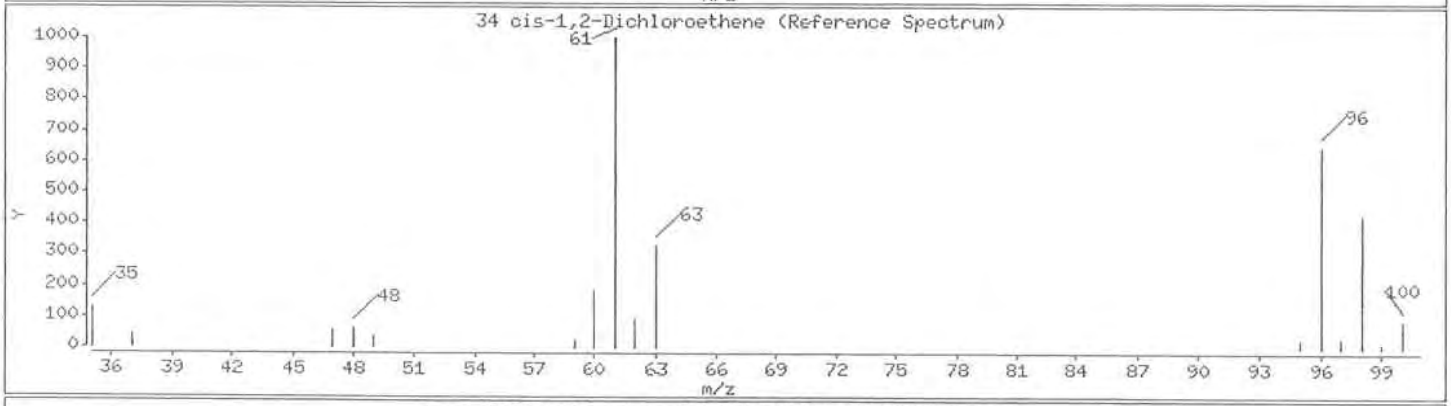
Purge Volume: 25.0 Operator: 2481

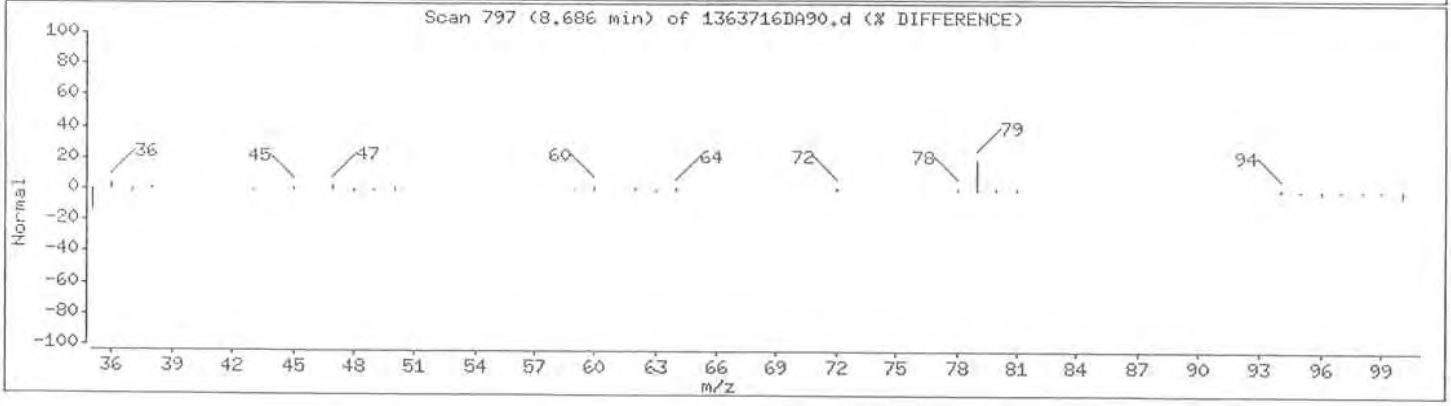
Column phase: SPB-624 Column diameter: 0.32

34 cis-1,2-Dichlorcethene Concentration: 4.2 ug/L









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Date : 27-AUG-2007 11:39

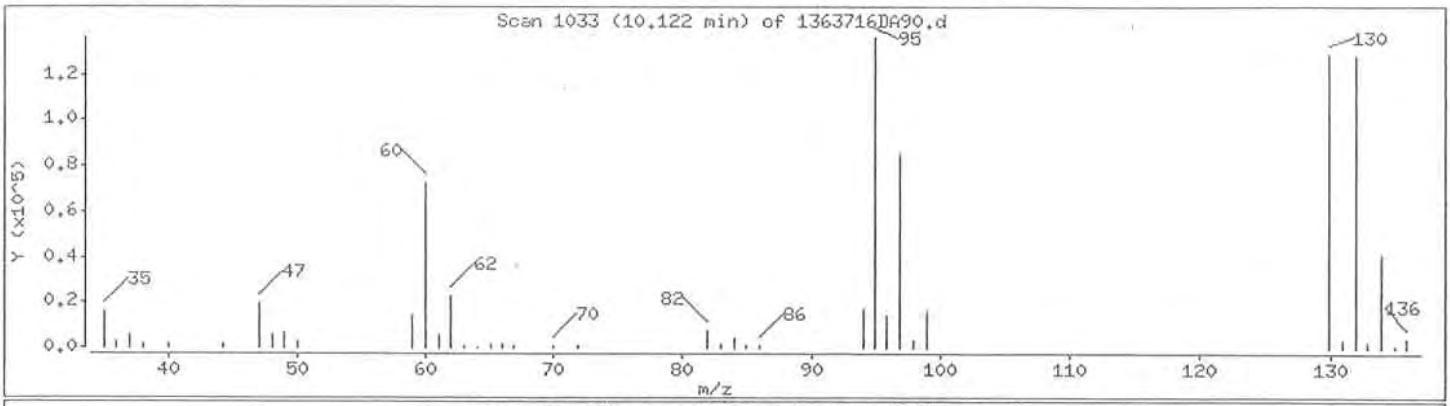
Client ID: Y3ET8 Instrument: 5973hp90.i

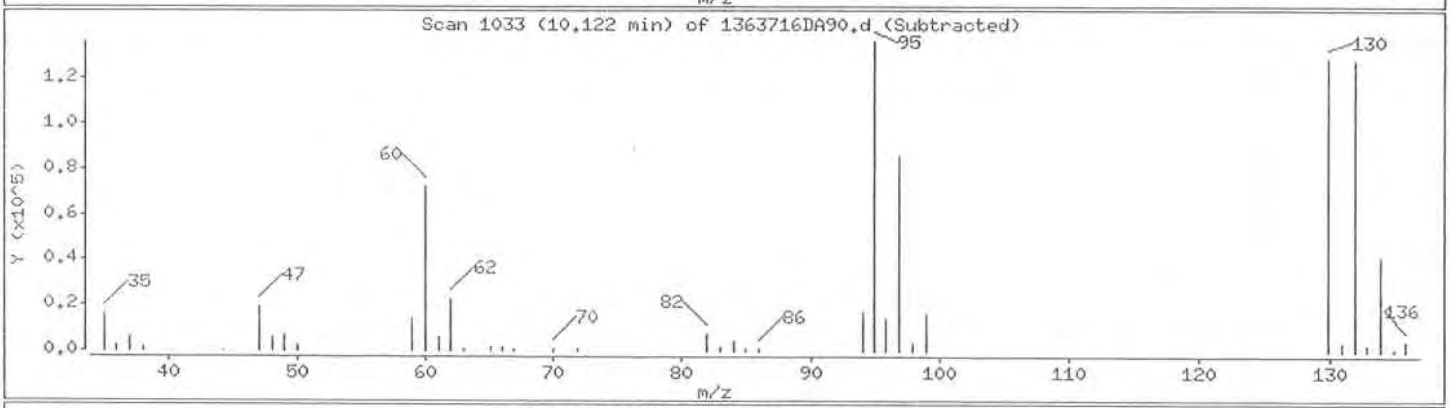
Sample Info: 1363716:2481

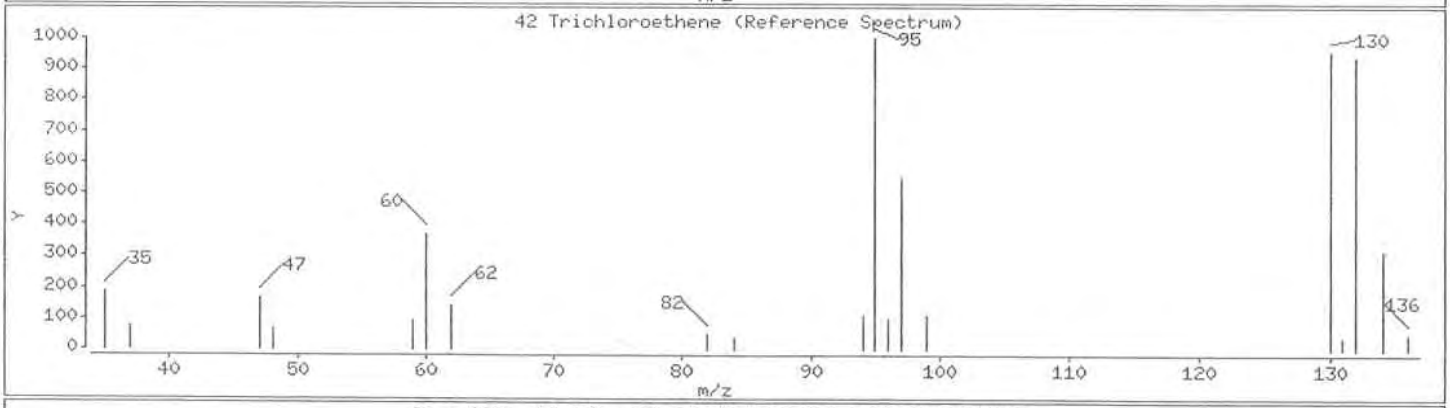
Purge Volume: 25.0 Operator: 2481

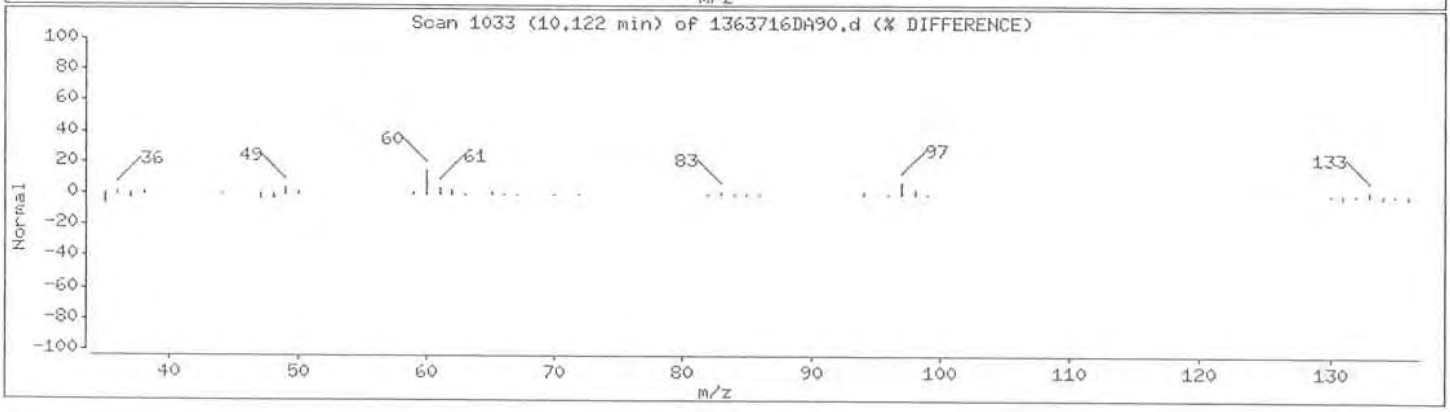
Column phase: SPB-624 Column diameter: 0.32

42 Trichloroethene Concentration: 20 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

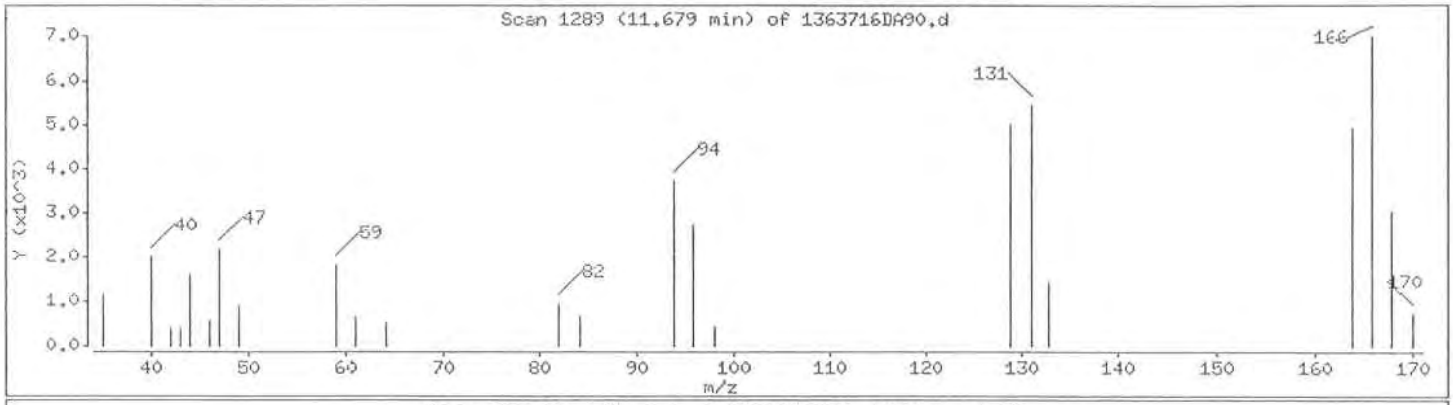
Client ID: Y3ET8 Instrument: 5973hp90.i

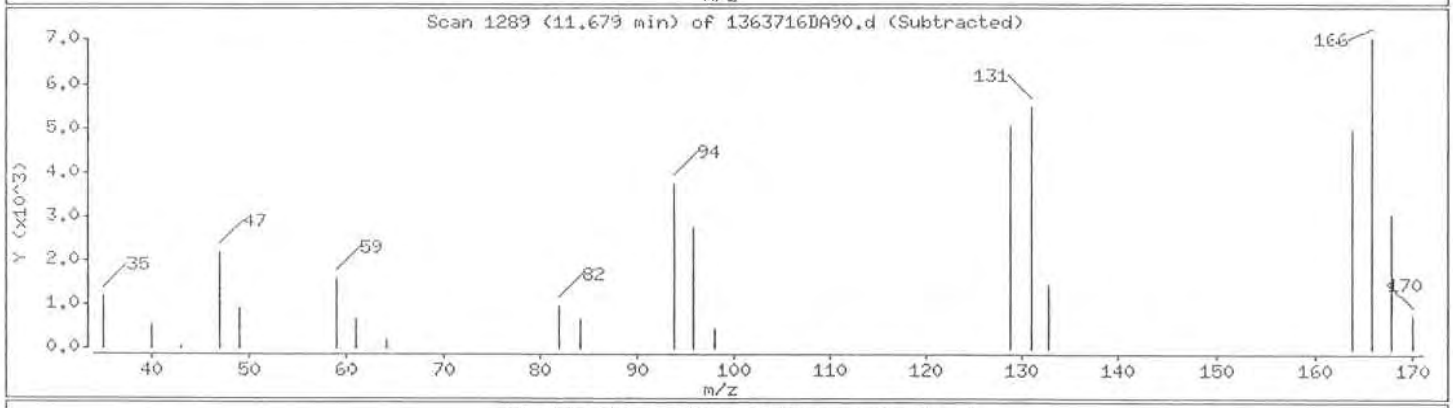
Sample Info: 1363716;2481

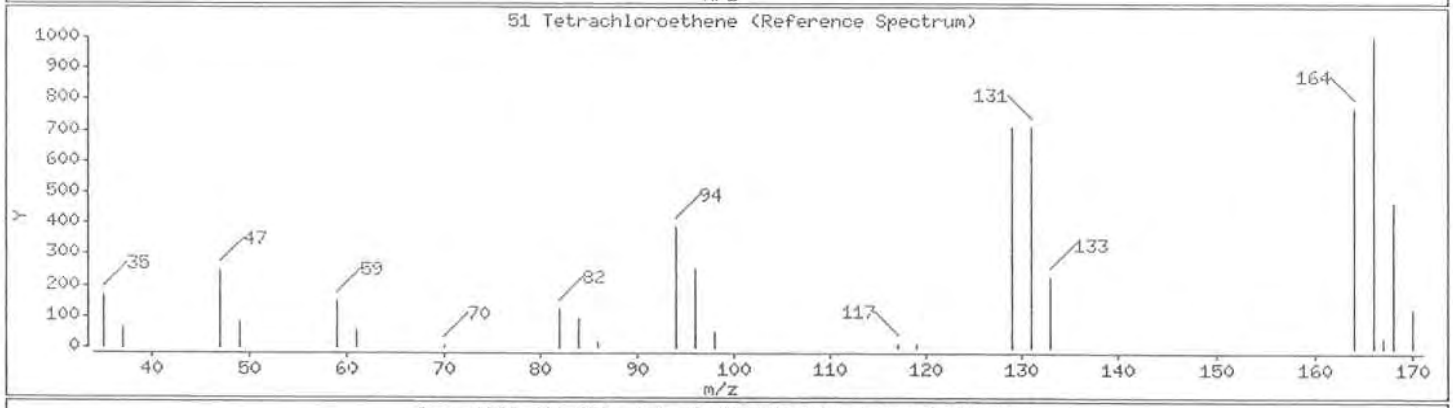
Purge Volume: 25.0 Operator: 2481

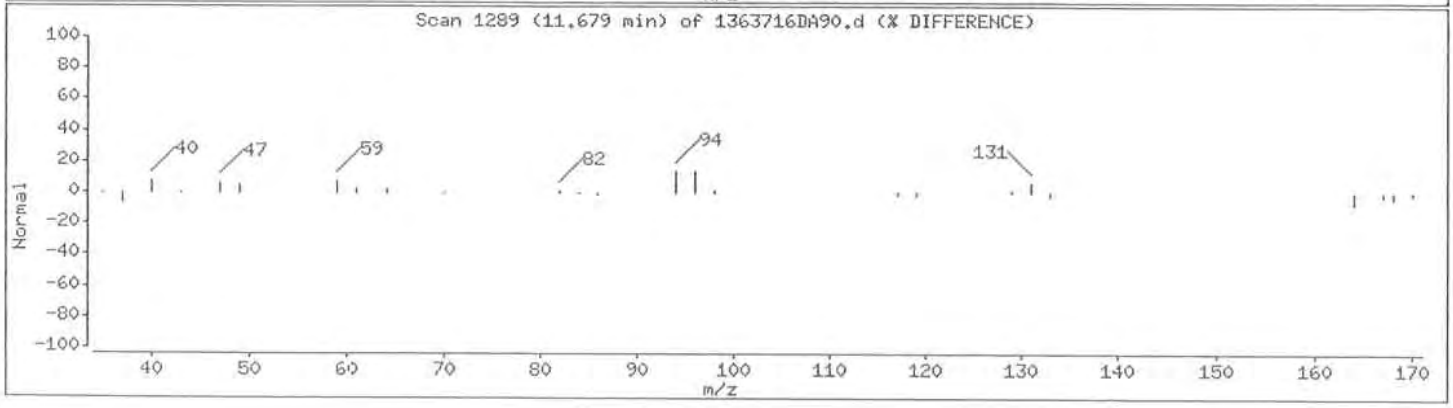
Column phase: SPB-624 Column diameter: 0.32

51 Tetrachloroethene Concentration: 0.84 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 03-Sep-2007 12:08

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Lab Smp Id: 1363716 Client Smp ID: Y3ET8
Inj Date : 27-AUG-2007 11:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363716:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 2
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

	ISTD	RT	AREA	AMOUNT
* 1	1,4-Difluorobenzene	9.842	1022247	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.002	570619	69.7751134	7.0	0		0	1

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

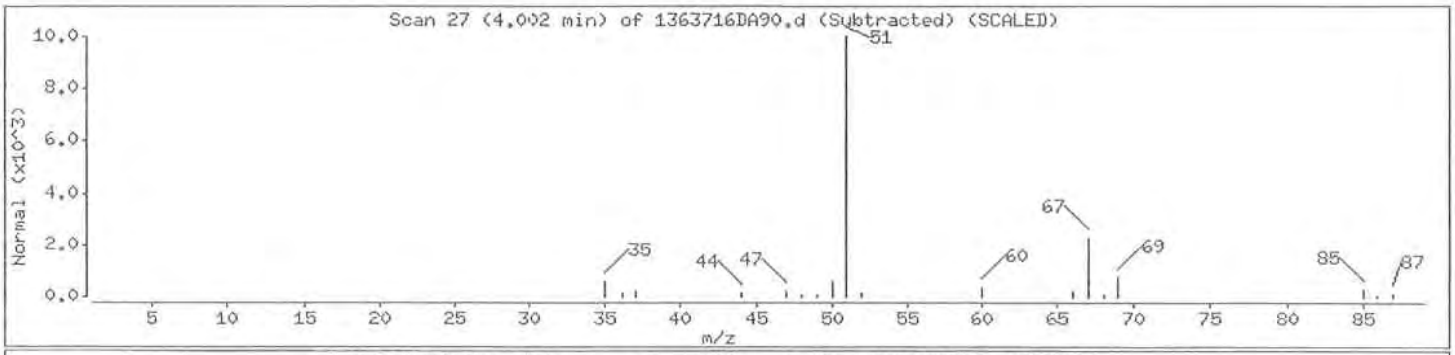
Client ID: Y3ET8 Instrument: 5973hp90.i

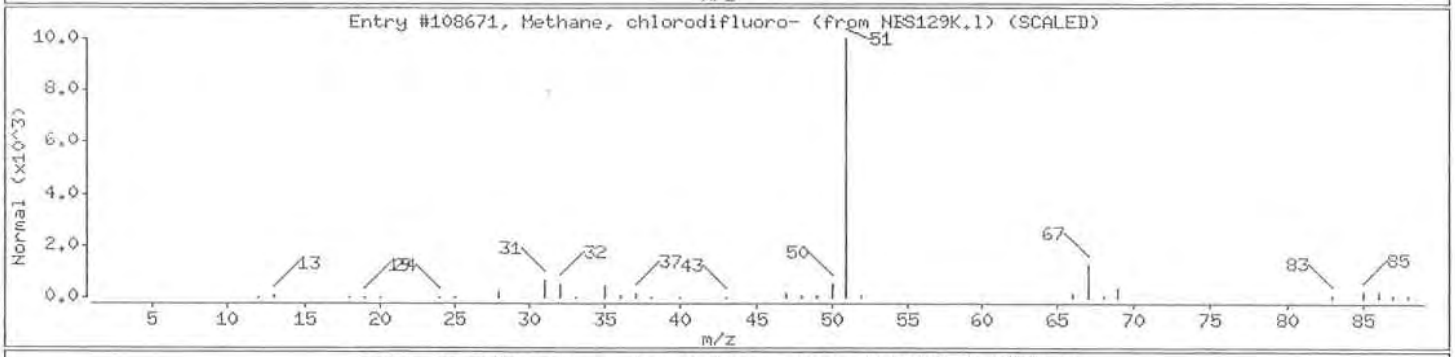
Sample Info: 1363716;2481

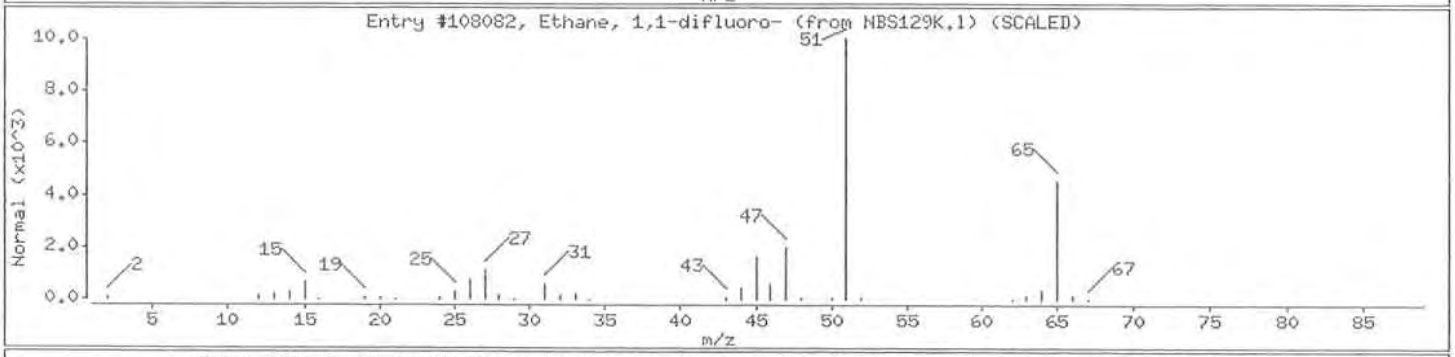
Purge Volume: 25.0 Operator: 2481

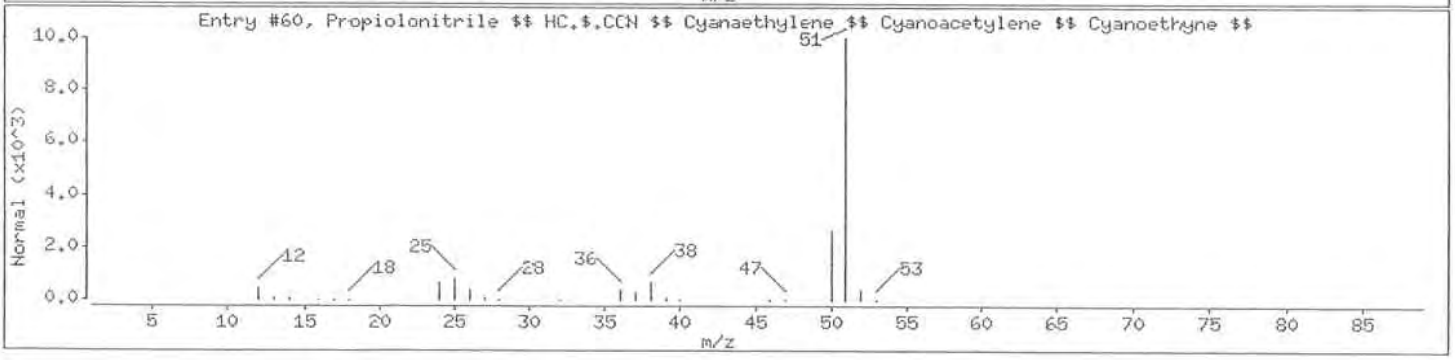
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methane, chlorodifluoro-	75-45-6	NBS129K.l	108671	83	CHClF2	86
Ethane, 1,1-difluoro-	75-37-6	NBS129K.l	108082	7	C2H4F2	66
Propiolonitrile $$ HC.$.CCN $$ Cyanaethy	1070-71-9	NBS129K.l	60	4	C3HN	51









1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363717

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363717DA90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	13	U
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	0.56	JB
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	4.4	
78-93-3	2-Butanone	13	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363717

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363717DA90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	19	
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U
127-18-4	Tetrachloroethene	0.73	J
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	1.3	U
87-61-6	1,2,3-Trichlorobenzene	1.3	U
75-65-0	tertiary butyl alcohol	13	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363717

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363717DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

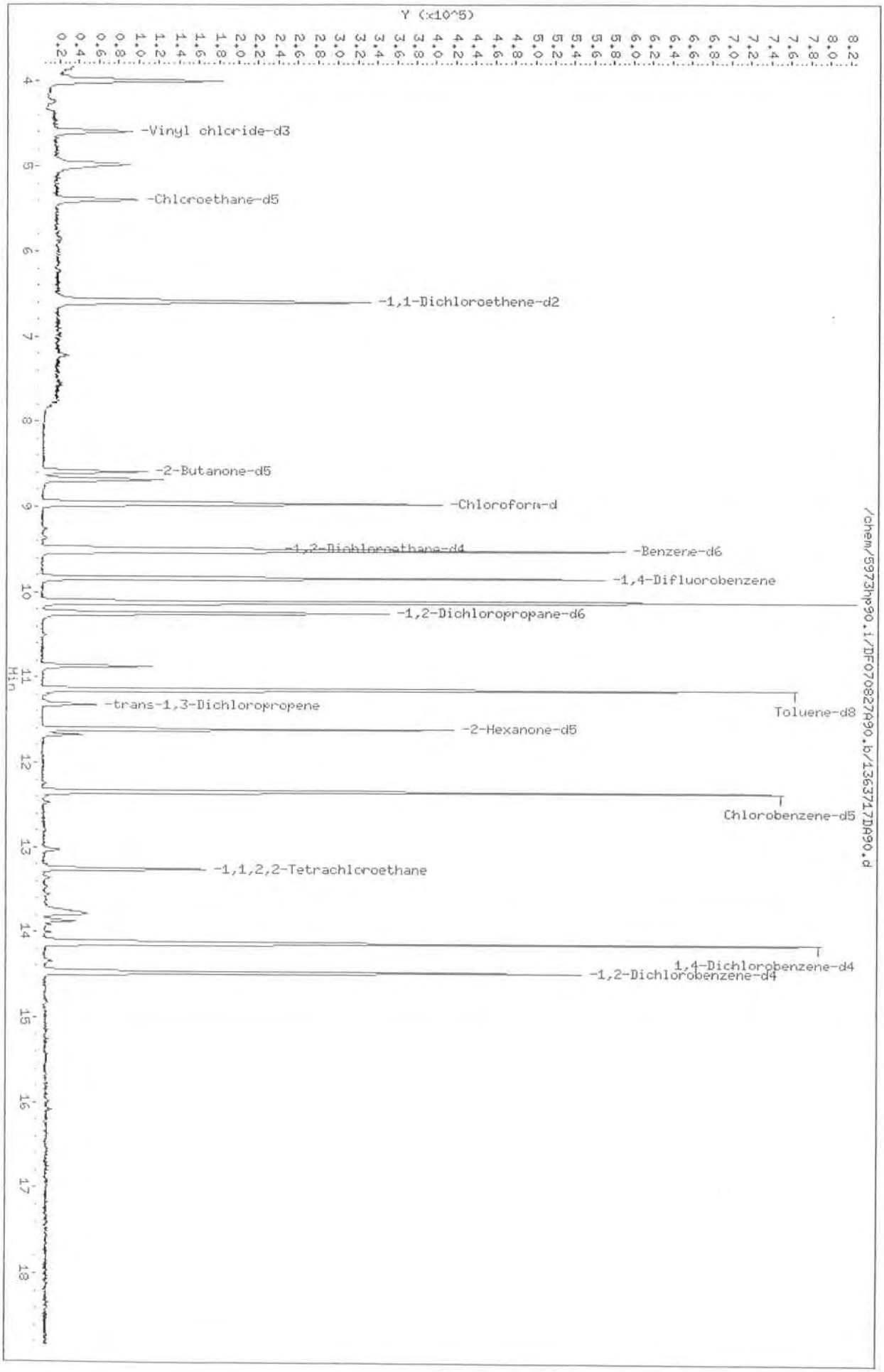
GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	6.1	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

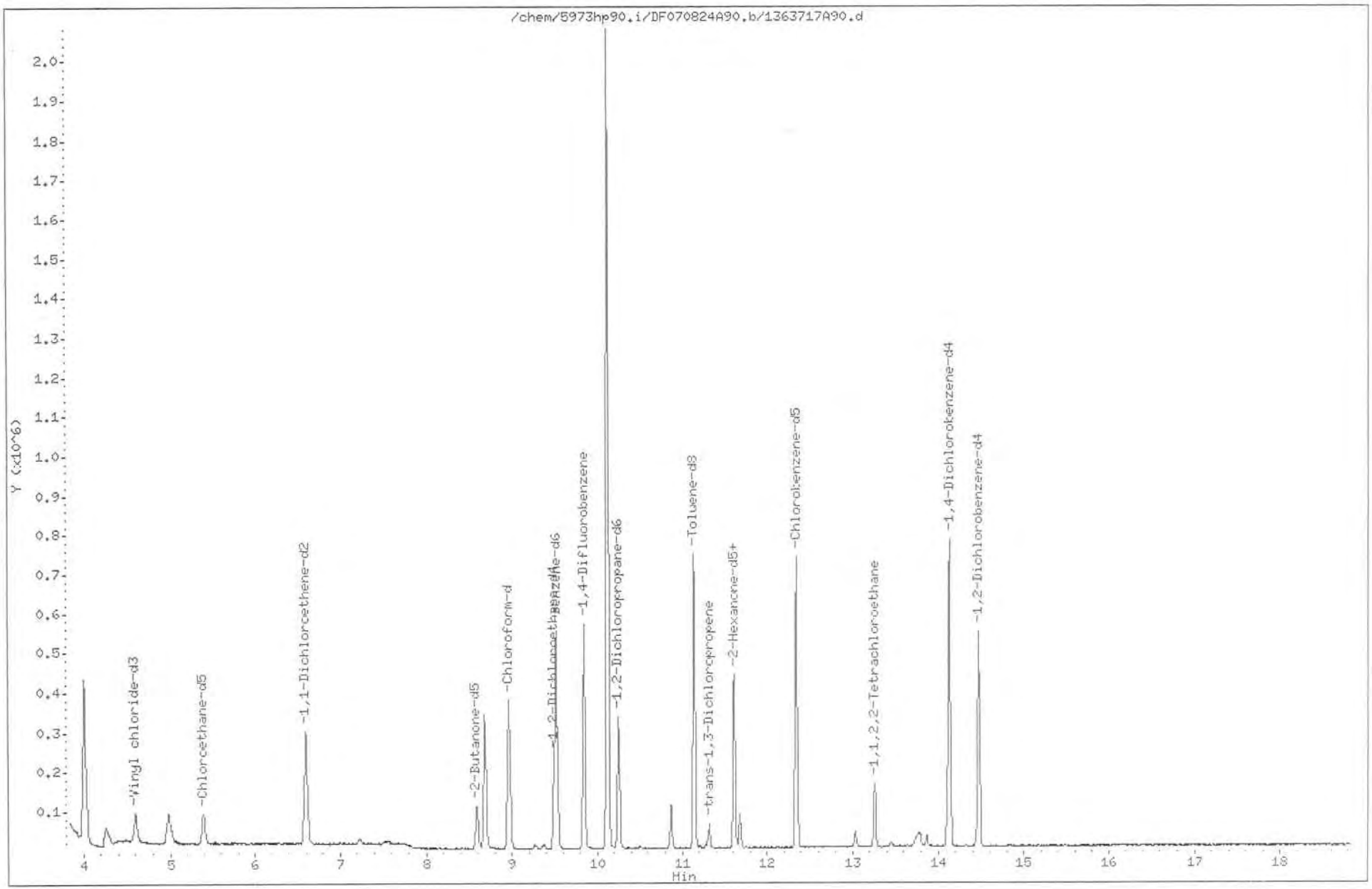


Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Date : 27-AUG-2007 12:08
Client ID: Y3ET9
Sample Info: 1363717;2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32

Data File: /chem/5973hp90.i/DF070824A90.b/1363717A90.d
Date : 24-AUG-2007 12:52
Client ID: Y3ET9
Sample Info: 1363717:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 03-Sep-2007 12:10

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Lab Smp Id: 1363717 Client Smp ID: Y3ET9
Inj Date : 27-AUG-2007 12:08
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363717:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 3
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.838	9.841	(1.000)	387508	125.000	
* 2	Chlorobenzene-d5	117	12.344	12.347	(1.000)	377144	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.133	14.136	(1.000)	201088	125.000	
$ 4	Vinyl chloride-d3	65	4.594	4.597	(0.467)	123378	126.578	13
$ 5	Chloroethane-d5	69	5.391	5.388	(0.548)	110831	135.392	14
$ 6	1,1-Dichloroethene-d2	63	6.589	6.598	(0.670)	272305	102.882	10
$ 7	2-Butanone-d5	46	8.591	8.588	(0.873)	136299	935.347	94
$ 8	Chloroform-d	84	8.962	8.965	(0.911)	342796	129.549	13
$ 9	1,2-Dichloroethane-d4	65	9.491	9.494	(0.965)	156396	129.186	13
$ 10	Benzene-d6	84	9.516	9.518	(0.771)	507182	127.838	13
$ 11	1,2-Dichloropropane-d6	67	10.246	10.248	(0.830)	136587	120.924	12
$ 12	Toluene-d8	98	11.140	11.143	(0.902)	478337	121.401	12
$ 13	trans-1,3-Dichloropropene-d4	79	11.322	11.325	(0.917)	33826	92.6971	9.3(R)
$ 14	2-Hexanone-d5	63	11.608	11.611	(0.940)	113872	922.814	92
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.257	13.260	(1.074)	73763	113.343	11
$ 17	1,2-Dichlorobenzene-d4	152	14.474	14.470	(1.024)	149350	109.653	11
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 03-Sep-2007 12:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.228	7.225	(0.735)	7154	5.59366	0.56(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	8.688	8.685	(0.883)	48343	44.4365	4.4
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	10.118	10.121	(0.820)	262355	194.444	19
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	11.681	11.678	(0.946)	7557	7.31005	0.73(a)
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 03-Sep-2007 12:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

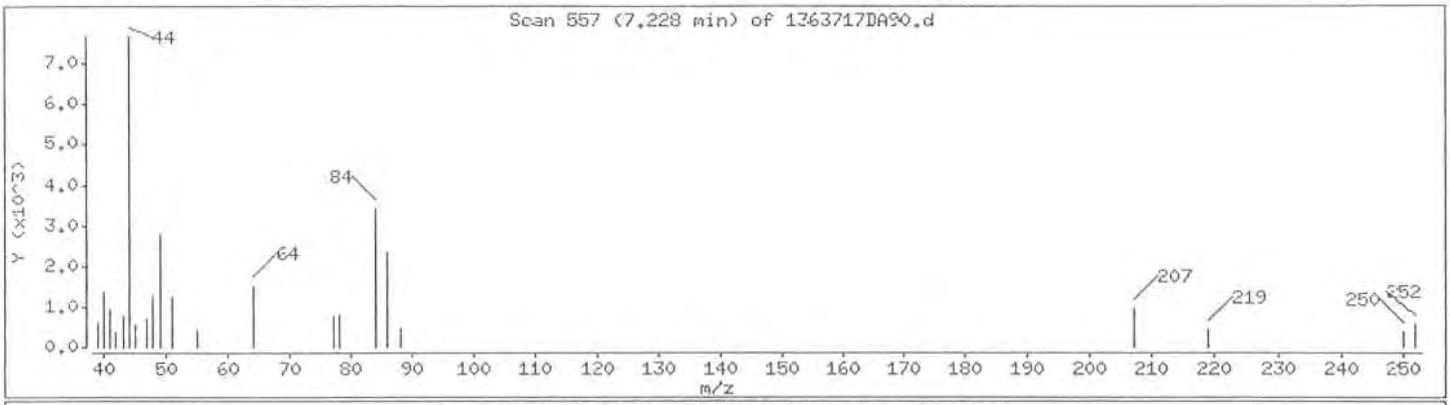
Client ID: Y3ET9 Instrument: 5973hp90.i

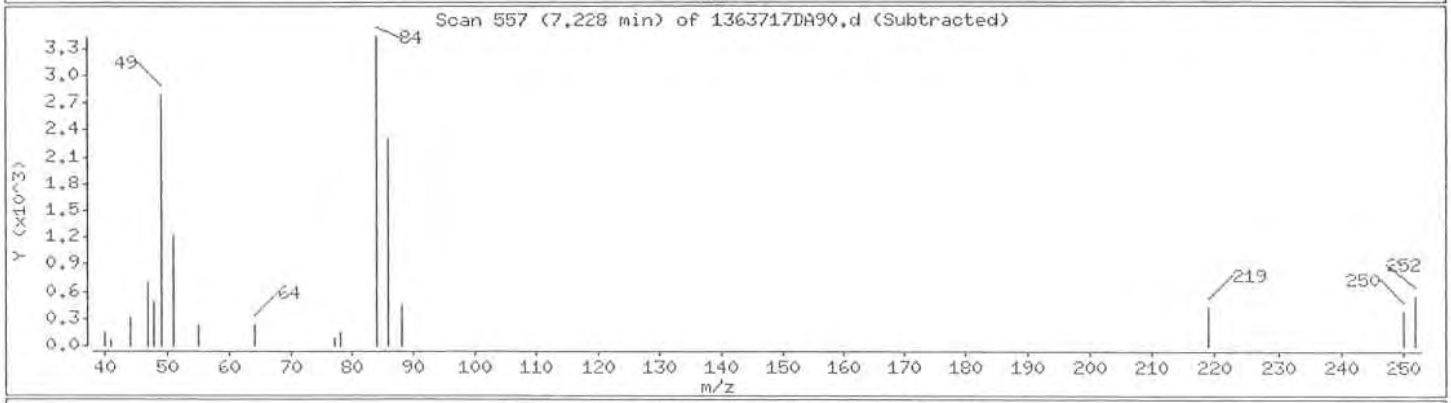
Sample Info: 1363717:2481

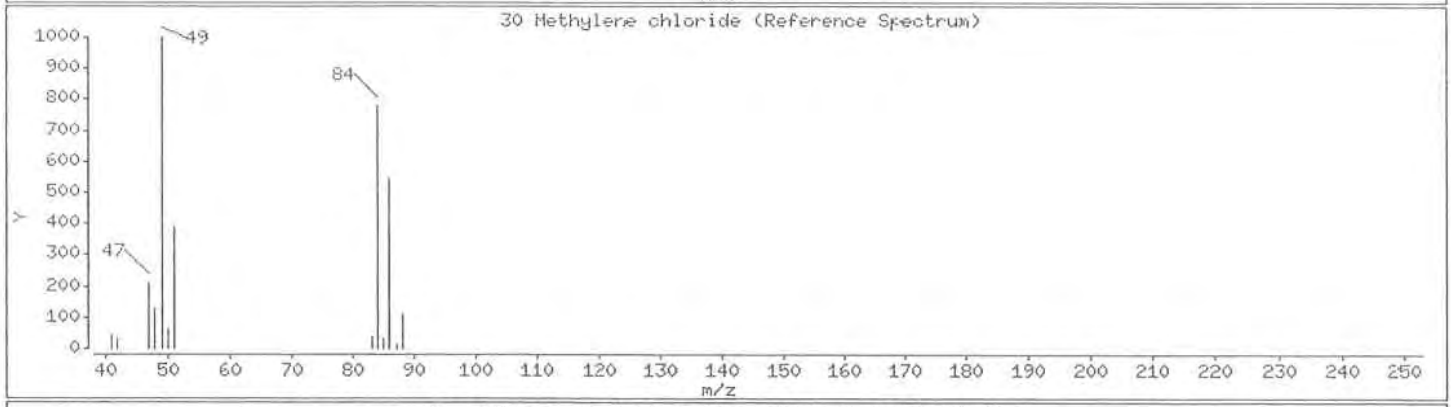
Purge Volume: 25.0 Operator: 2481

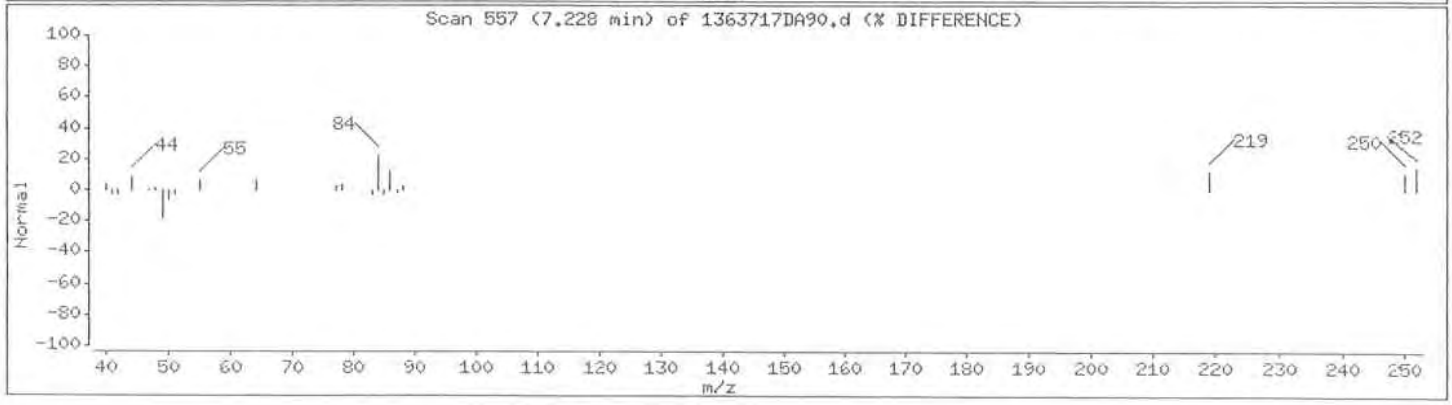
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.56 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

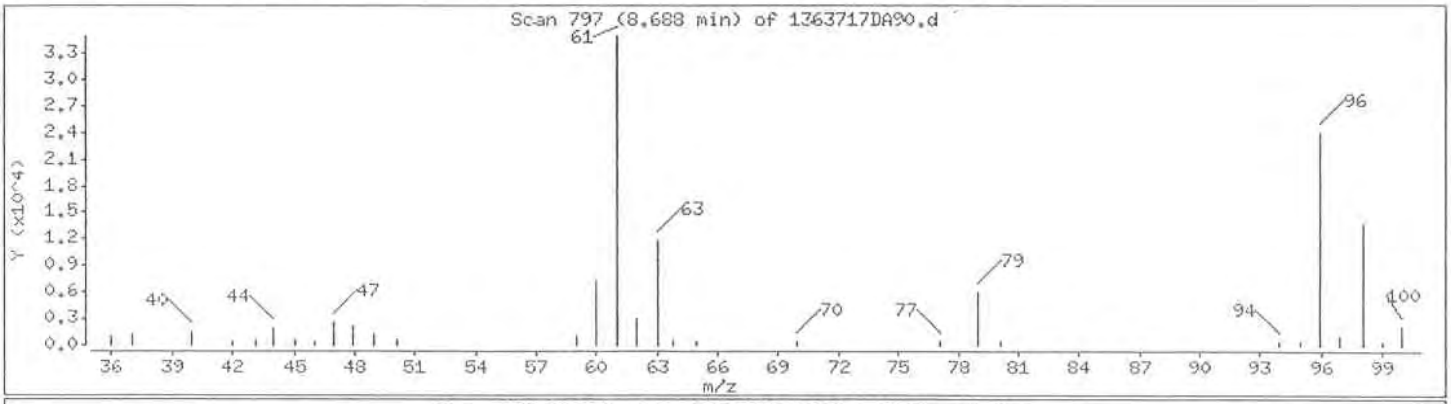
Client ID: Y3ET9 Instrument: 5973hp90.i

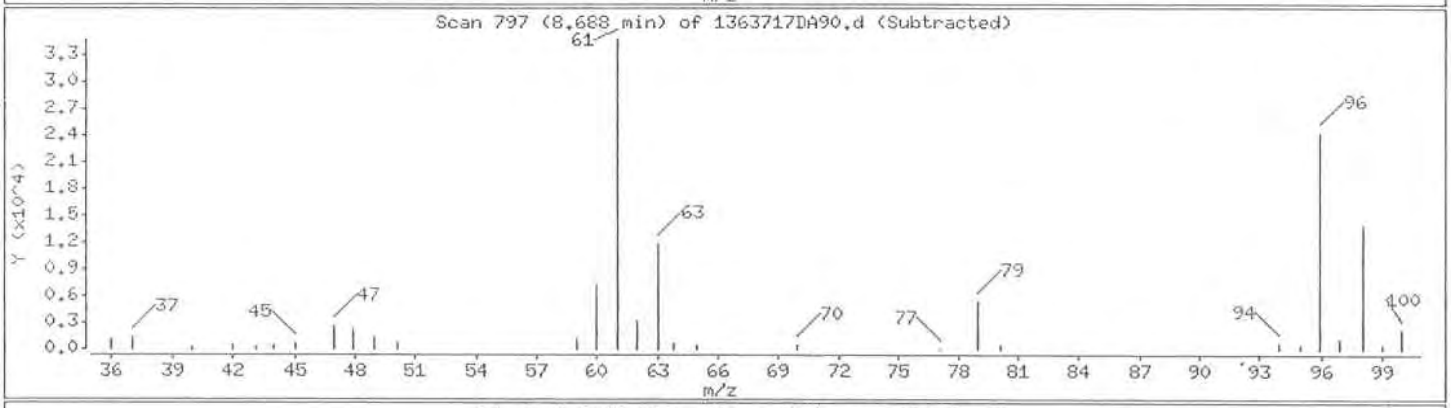
Sample Info: 1363717:2481

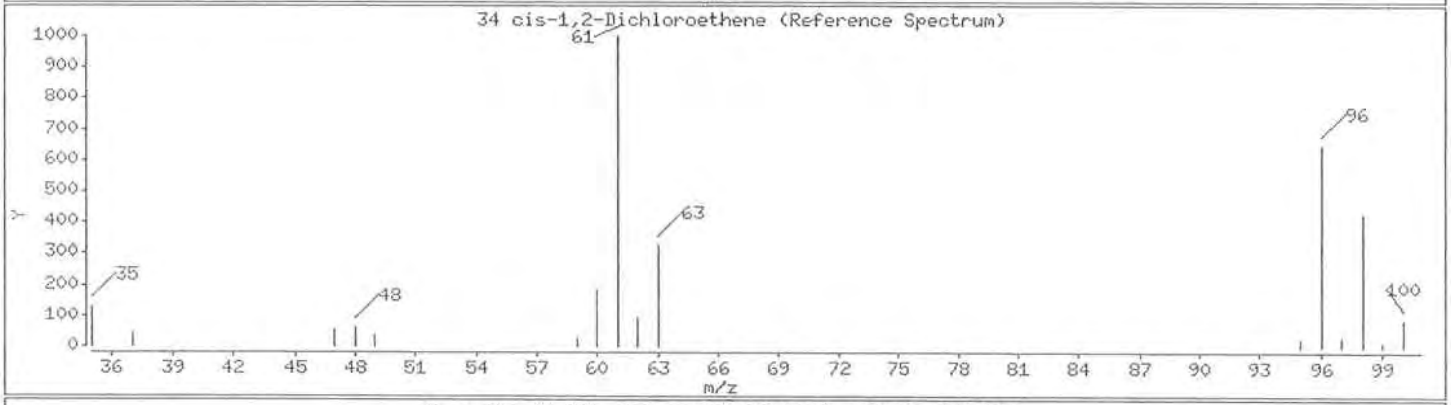
Purge Volume: 25.0 Operator: 2481

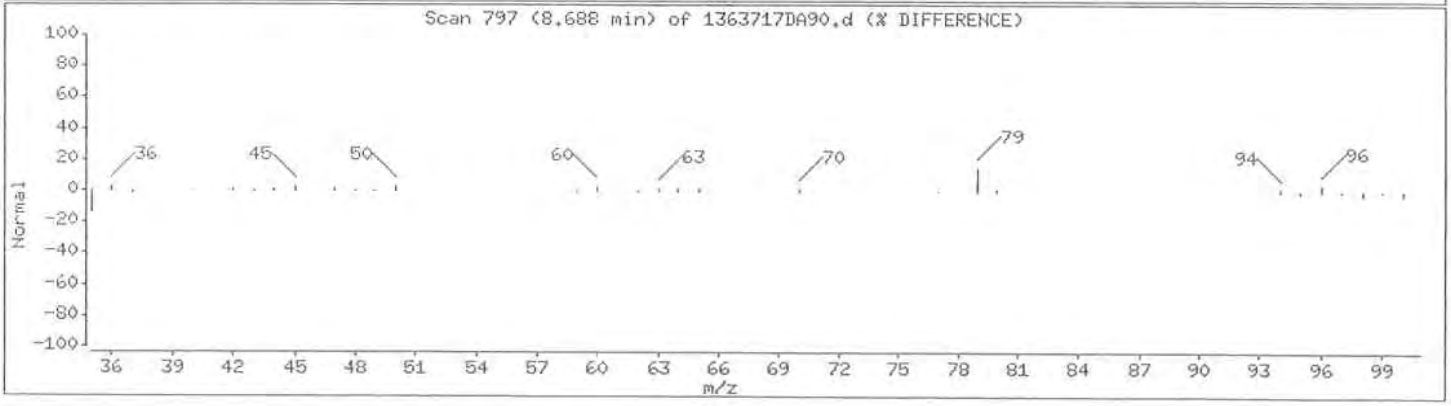
Column phase: SPB-624 Column diameter: 0.32

34 cis-1,2-Dichlorcethene Concentration: 4.4 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

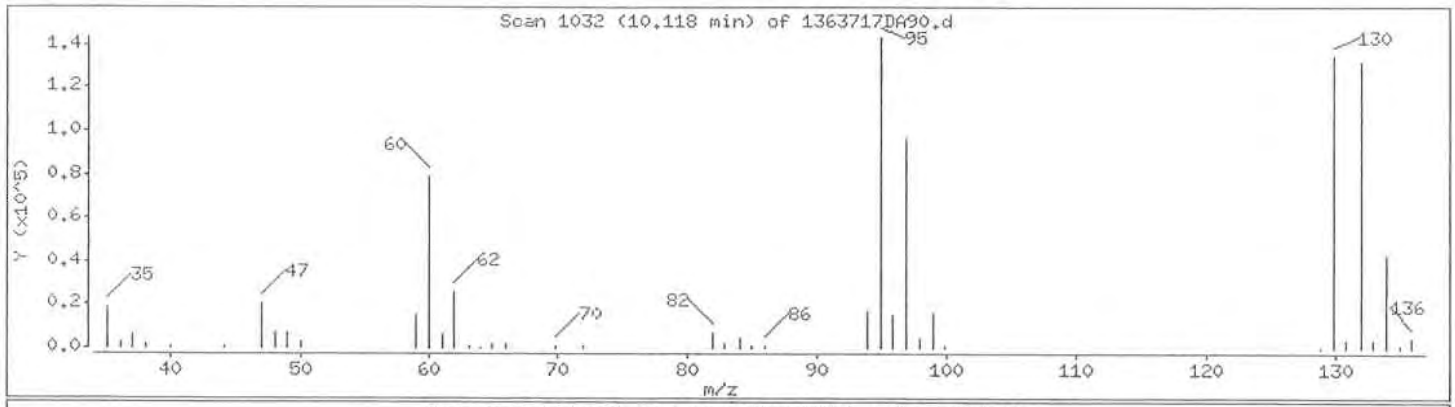
Client ID: Y3ET9 Instrument: 5973hp90.i

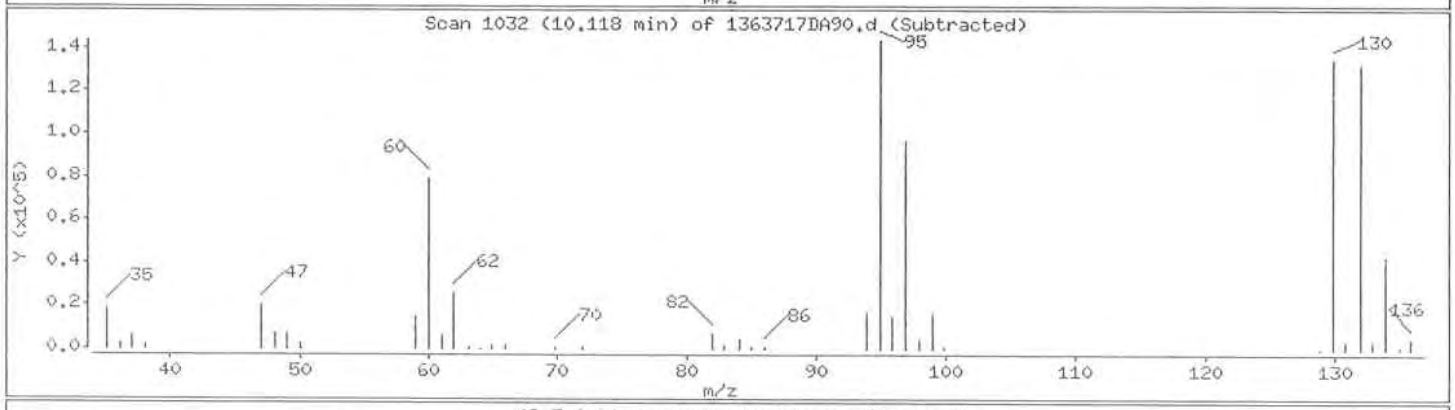
Sample Info: 1363717:2481

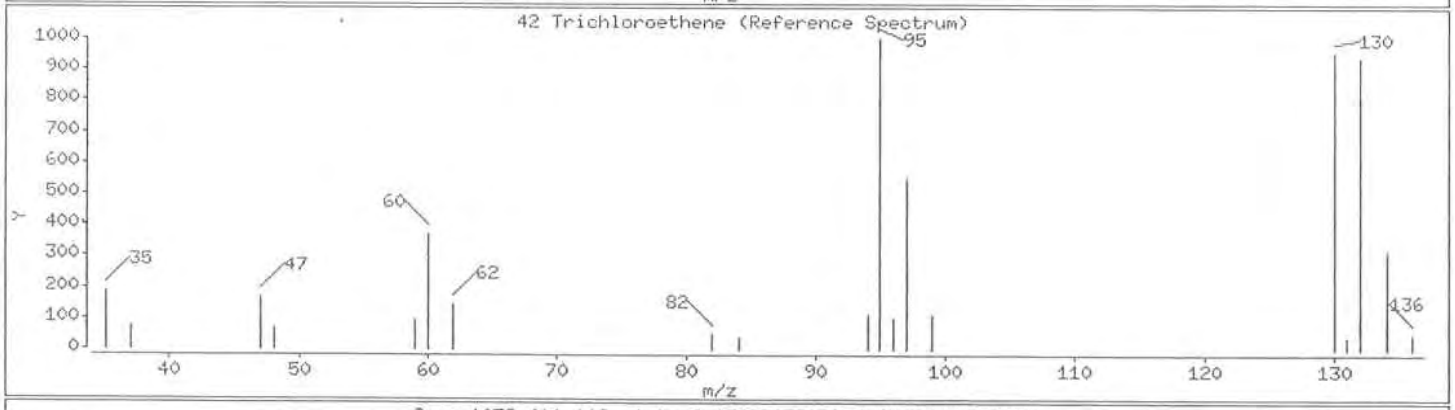
Purge Volume: 25.0 Operator: 2481

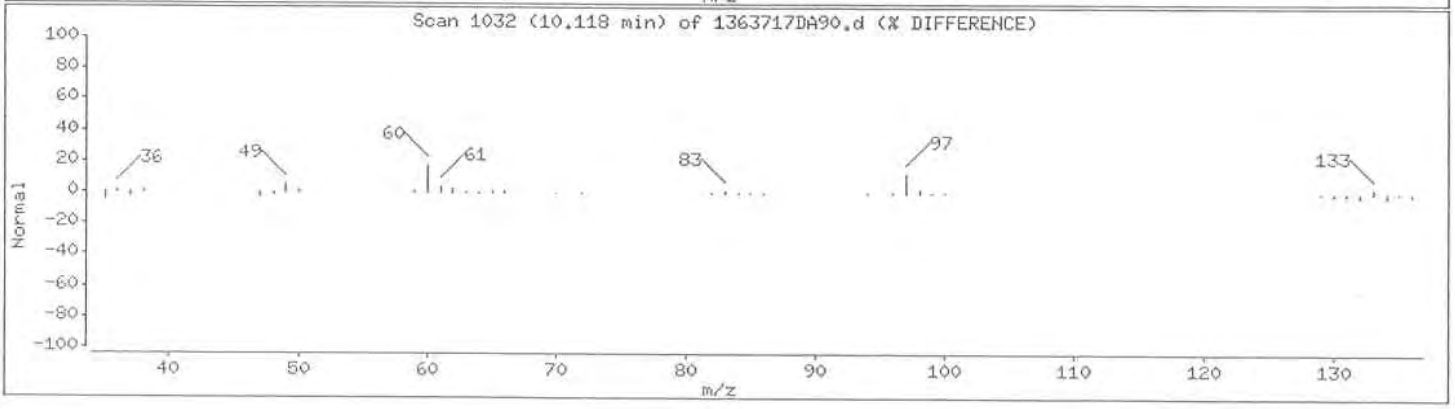
Column phase: SPB-624 Column diameter: 0.32

42 Trichloroethene Concentration: 19 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

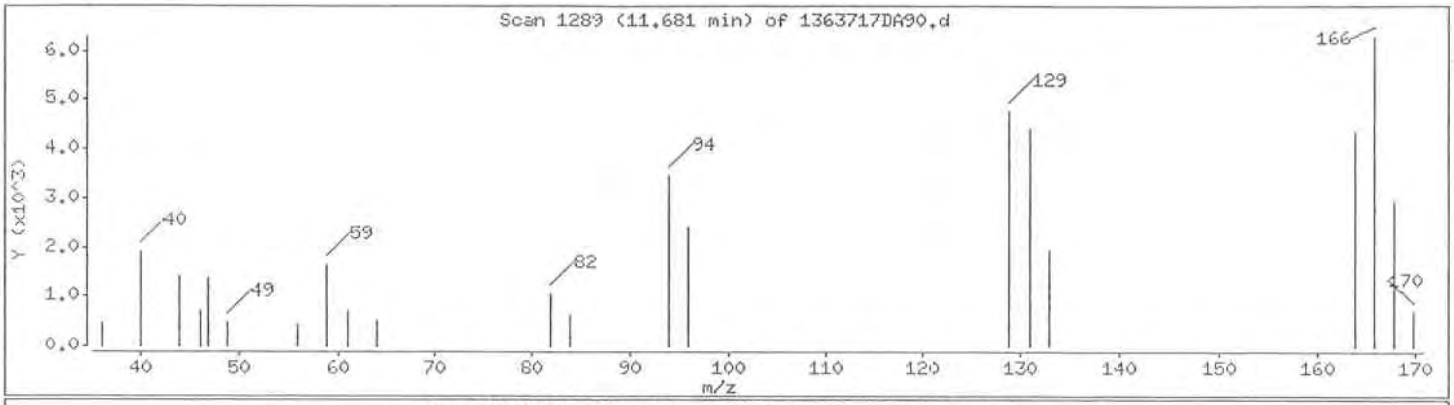
Client ID: Y3ET9 Instrument: 5973hp90.i

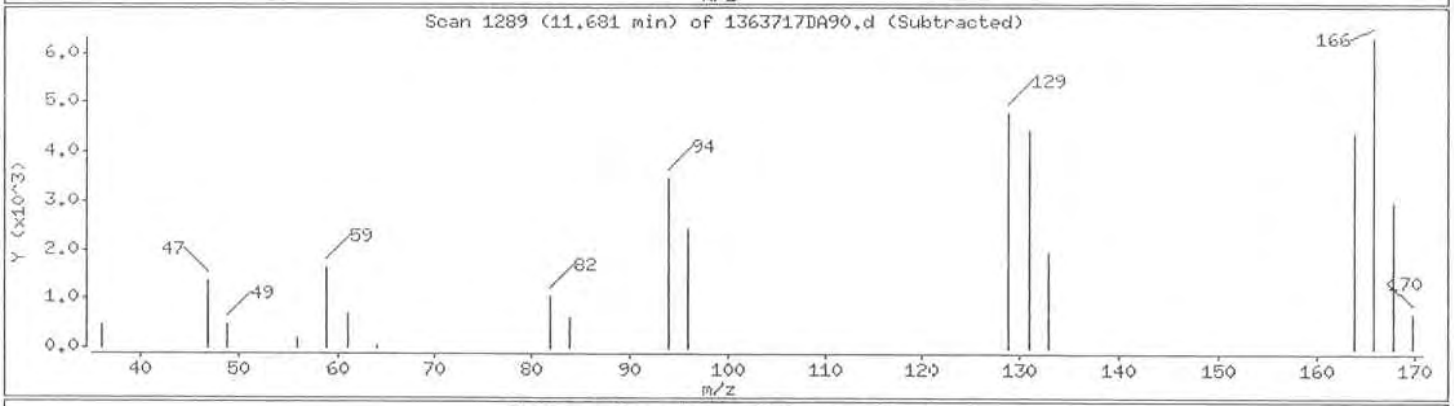
Sample Info: 1363717:2481

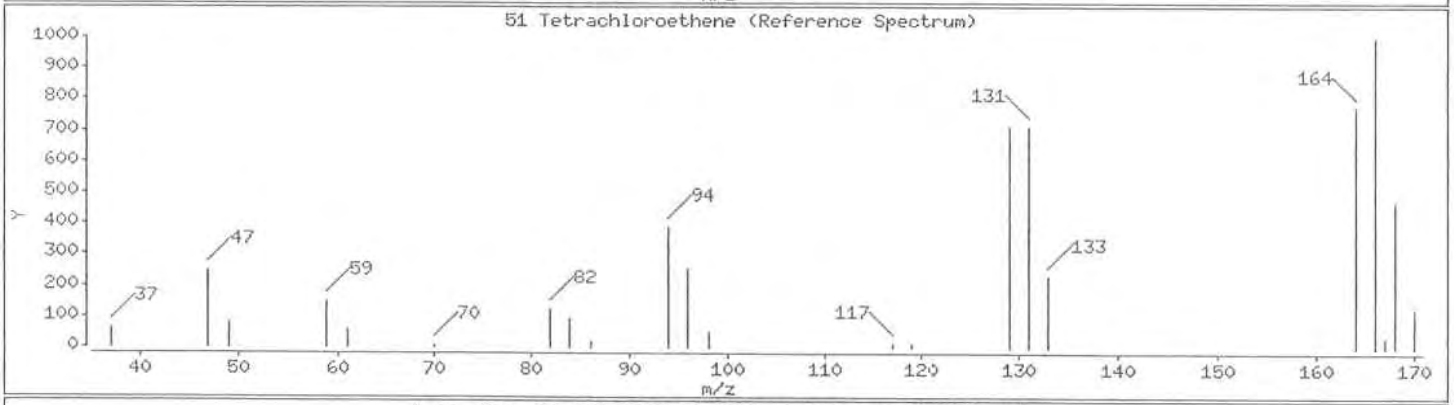
Purge Volume: 25.0 Operator: 2481

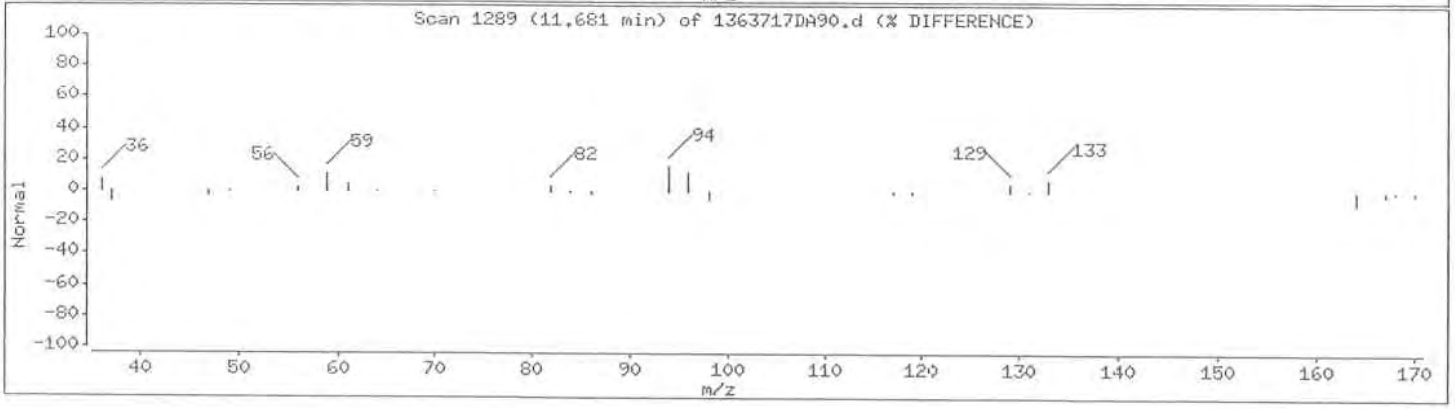
Column phase: SPB-624 Column diameter: 0.32

51 Tetrachloroethene Concentration: 0.73 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 03-Sep-2007 12:10

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Lab Smp Id: 1363717 Client Smp ID: Y3ET9
Inj Date : 27-AUG-2007 12:08
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363717:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 3
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.838	1004871	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.004	493374	61.3727255	6.1	0		0	1

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

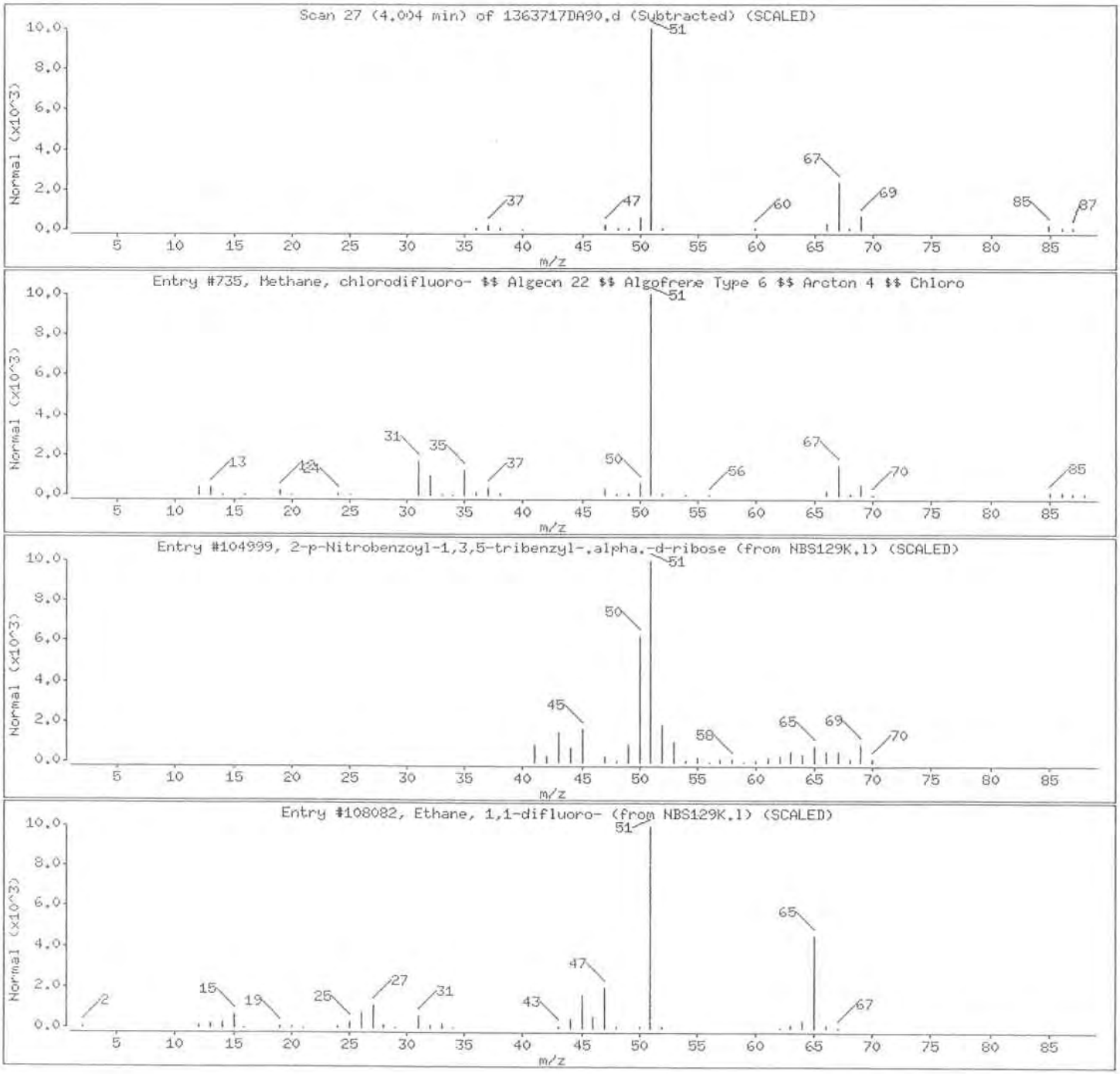
Client ID: Y3ET9 Instrument: 5973hp90.i

Sample Info: 1363717:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methane, chlorodifluoro- $$ Algeon 22 $$	75-45-6	NBS129K.l	735	83	CHClF2	86
2-p-Nitrobenzoyl-1,3,5-tribenzyl-.alpha.	0-00-0	NBS129K.l	104999	9	C33H31NO8	569
Ethane, 1,1-difluoro-	75-37-6	NBS129K.l	108082	7	C2H4F2	66



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3EW0

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363718

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363718RA90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.20	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.33	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.12	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3EW0

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363718

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363718RA90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	3.7	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3EW0

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363718

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363718RA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

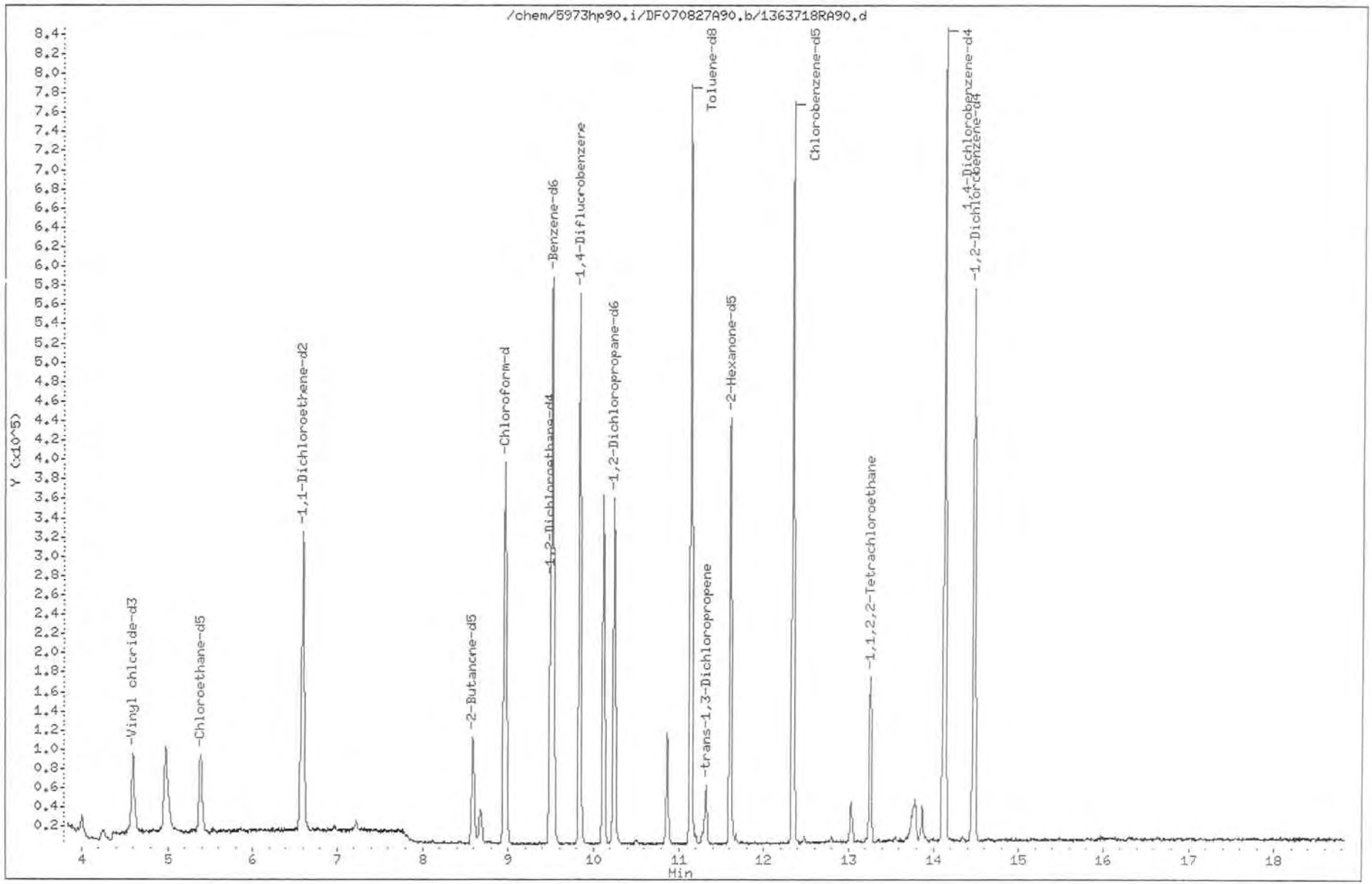
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Date : 27-AUG-2007 12:37
Client ID: Y3EW0
Sample Info: 1363718:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Report Date: 03-Sep-2007 12:12

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Lab Smp Id: 1363718 Client Smp ID: Y3EW0
Inj Date : 27-AUG-2007 12:37
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363718:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	388006	125.000	
* 2 Chlorobenzene-d5	117	12.341	12.347	(1.000)	373240	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.130	14.136	(1.000)	210170	125.000	
$ 4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	124767	127.838	5.1
$ 5 Chloroethane-d5	69	5.394	5.388	(0.548)	112020	136.669	5.5
$ 6 1,1-Dichloroethene-d2	63	6.592	6.598	(0.670)	266123	100.417	4.0
$ 7 2-Butanone-d5	46	8.588	8.588	(0.873)	145082	994.342	40
$ 8 Chloroform-d	84	8.959	8.965	(0.910)	354343	133.741	5.3
$ 9 1,2-Dichloroethane-d4	65	9.494	9.494	(0.965)	160526	132.427	5.3
$ 10 Benzene-d6	84	9.518	9.518	(0.771)	511300	130.224	5.2
$ 11 1,2-Dichloropropane-d6	67	10.248	10.248	(0.830)	142515	127.492	5.1
$ 12 Toluene-d8	98	11.143	11.143	(0.903)	474773	121.757	4.9
$ 13 trans-1,3-Dichloropropene-d4	79	11.319	11.325	(0.917)	35717	98.9030	4.0
$ 14 2-Hexanone-d5	63	11.611	11.611	(0.941)	125651	1028.92	41
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.254	13.260	(1.074)	78937	122.562	4.9
$ 17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.024)	152279	106.972	4.3
18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d

Date : 27-AUG-2007 12:37

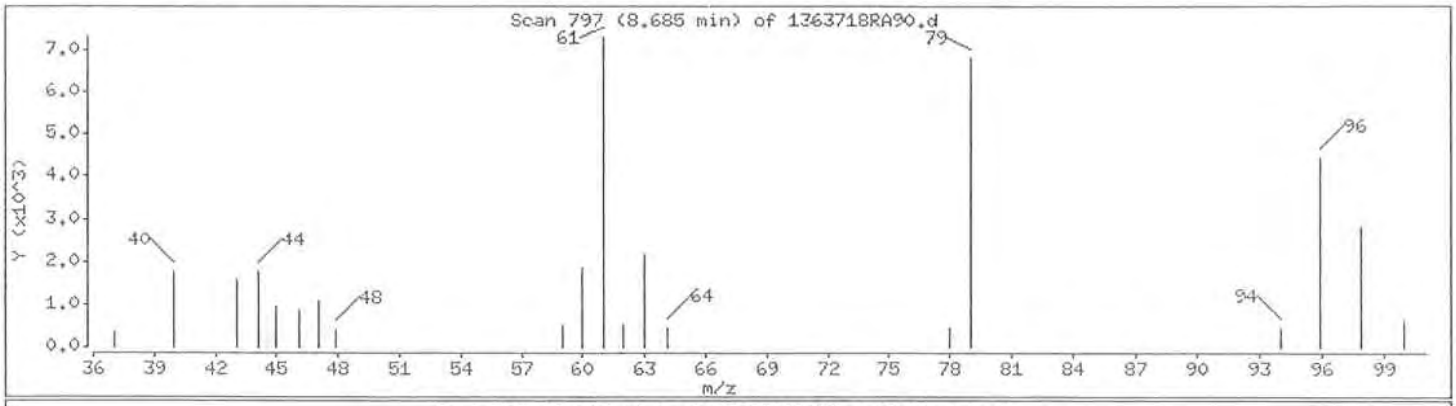
Client ID: Y3EW0 Instrument: 5973hp90.i

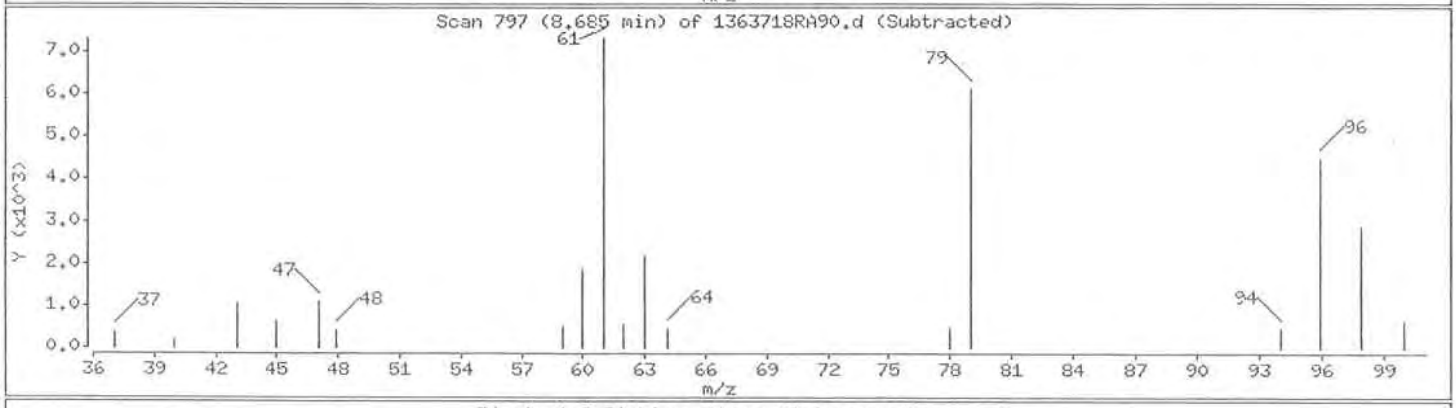
Sample Info: 1363718:2481

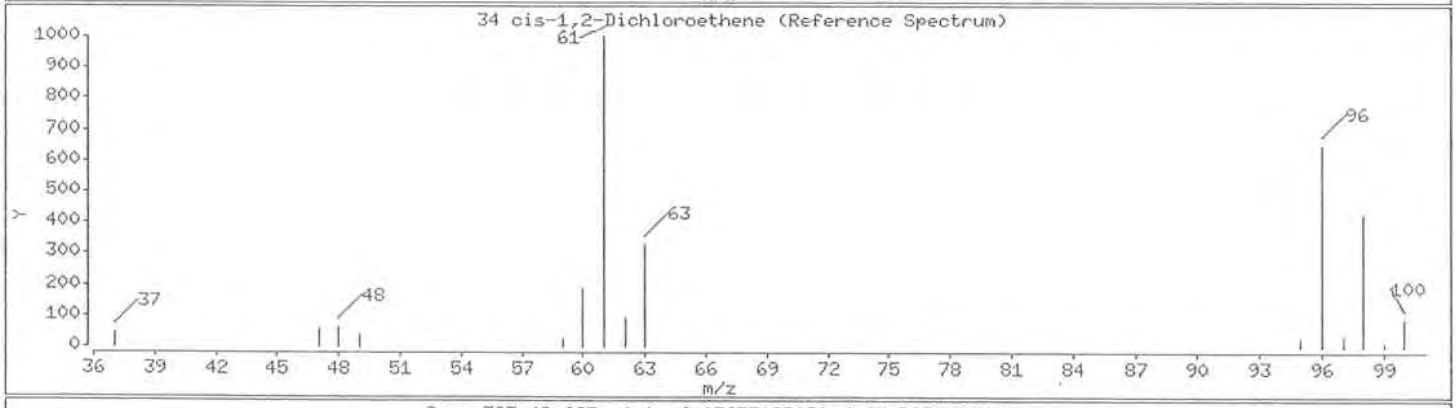
Purge Volume: 25.0 Operator: 2481

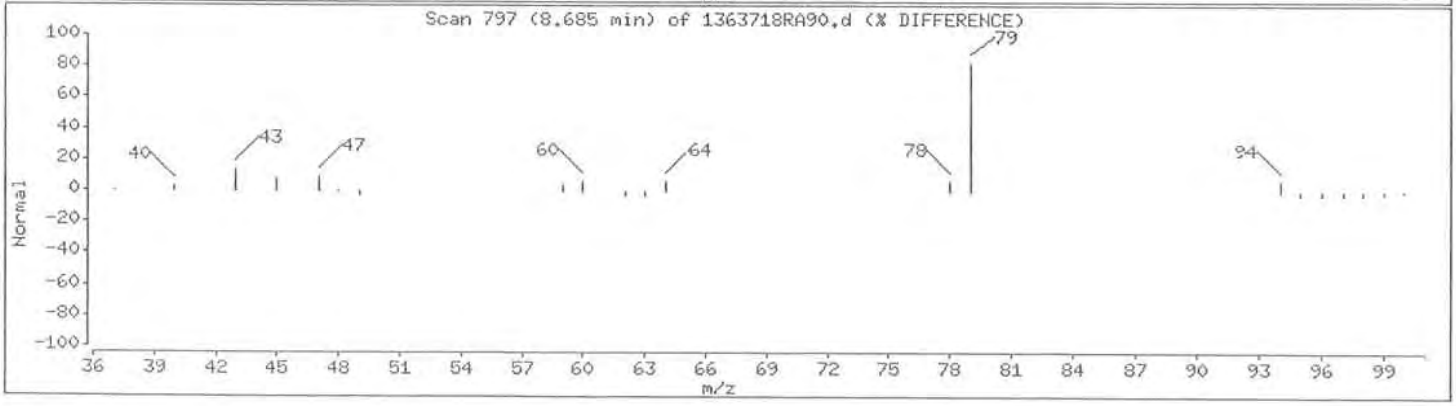
Column phase: SPB-624 Column diameter: 0.32

34 cis-1,2-Dichlorcethene Concentration: 0.33 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Report Date: 03-Sep-2007 12:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	Compound Not Detected.					
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	7.231	7.225	(0.735)	6284	4.90711	0.20(a)
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	8.685	8.685	(0.883)	9083	8.33830	0.33(a)
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	8.983	8.983	(0.913)	7112	2.90887	0.12(a)
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	10.121	10.121	(0.820)	121985	91.3547	3.7
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Report Date: 03-Sep-2007 12:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d

Date : 27-AUG-2007 12:37

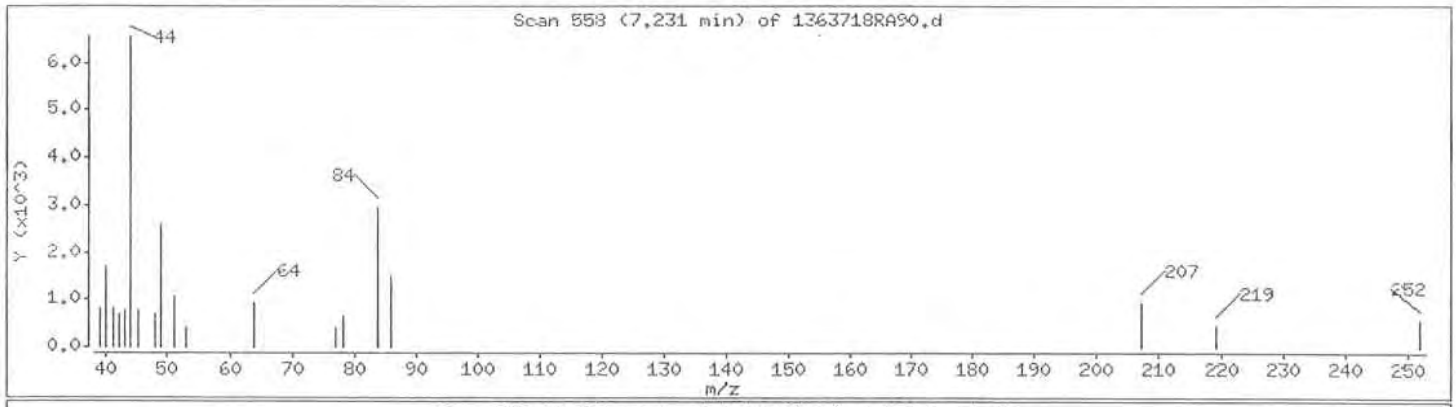
Client ID: Y3EW0 Instrument: 5973hp90.i

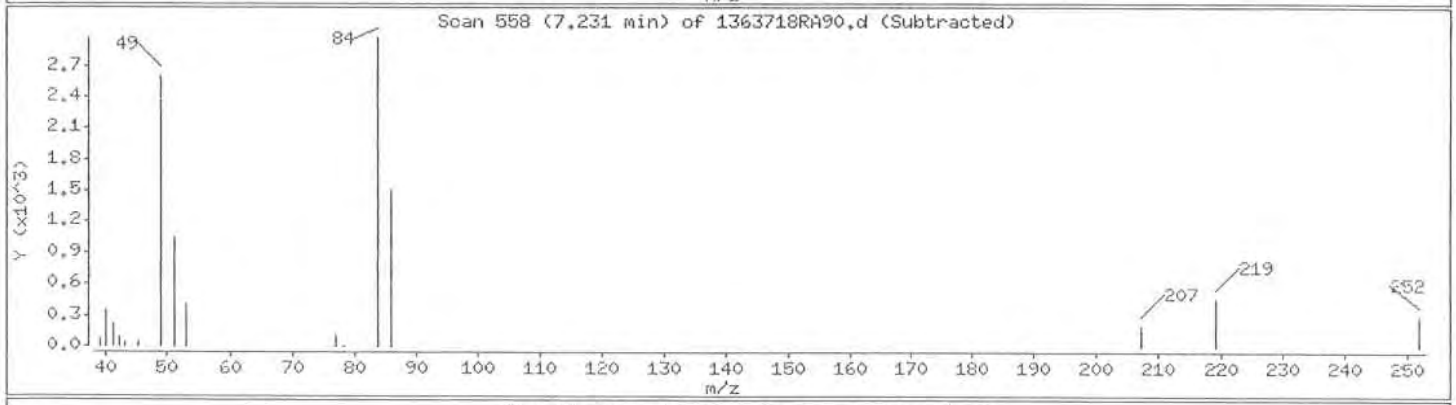
Sample Info: 1363718:2481

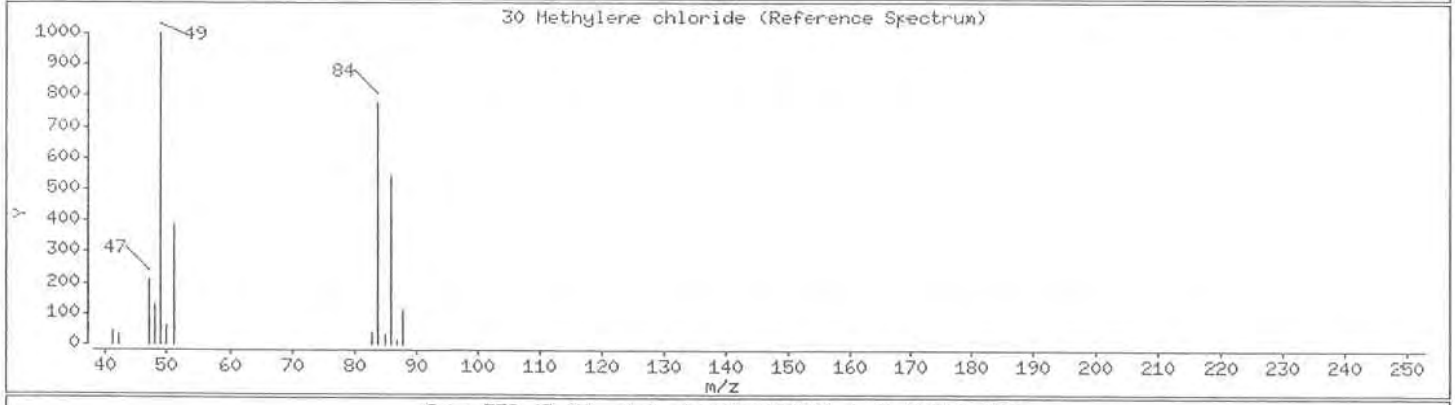
Purge Volume: 25.0 Operator: 2481

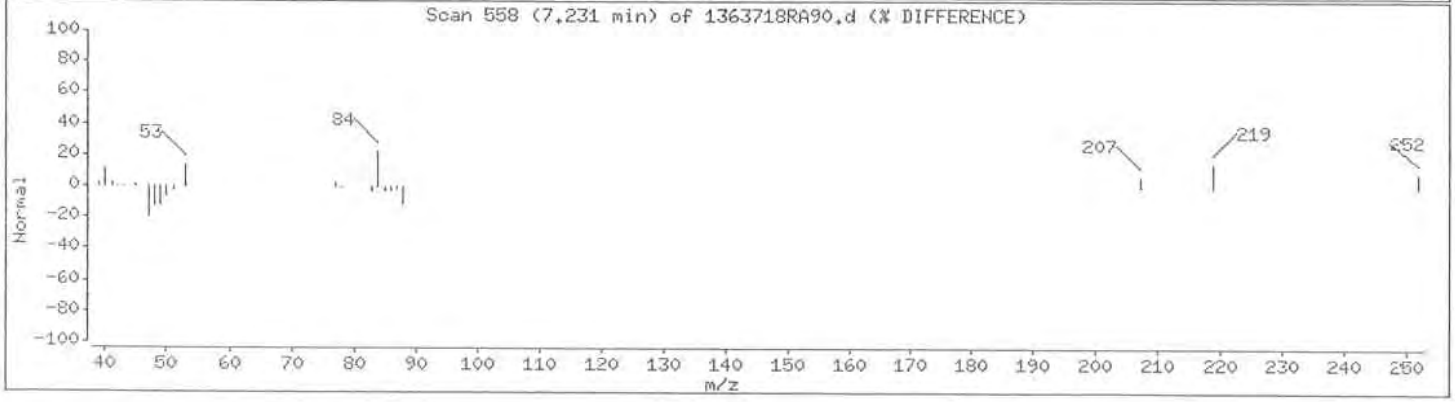
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.20 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d

Date : 27-AUG-2007 12:37

Client ID: Y3EW0

Instrument: 5973hp90.i

Sample Info: 1363718;2481

Purge Volume: 25.0

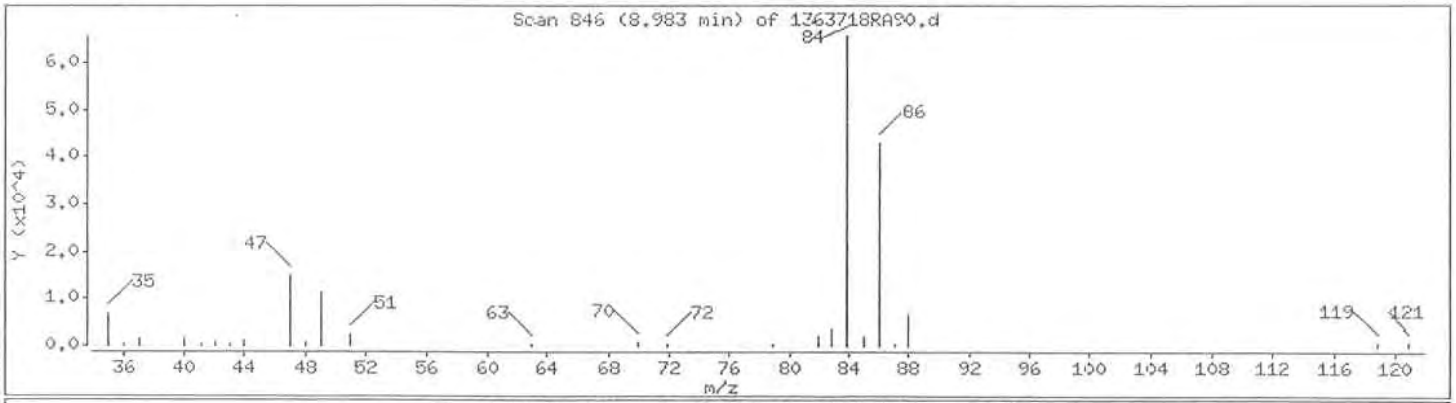
Operator: 2481

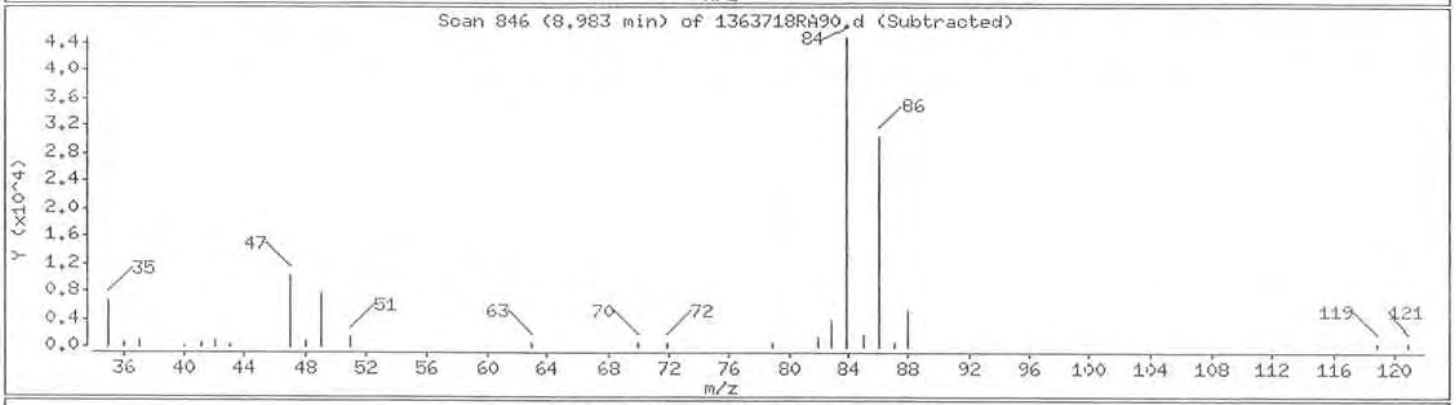
Column phase: SPB-624

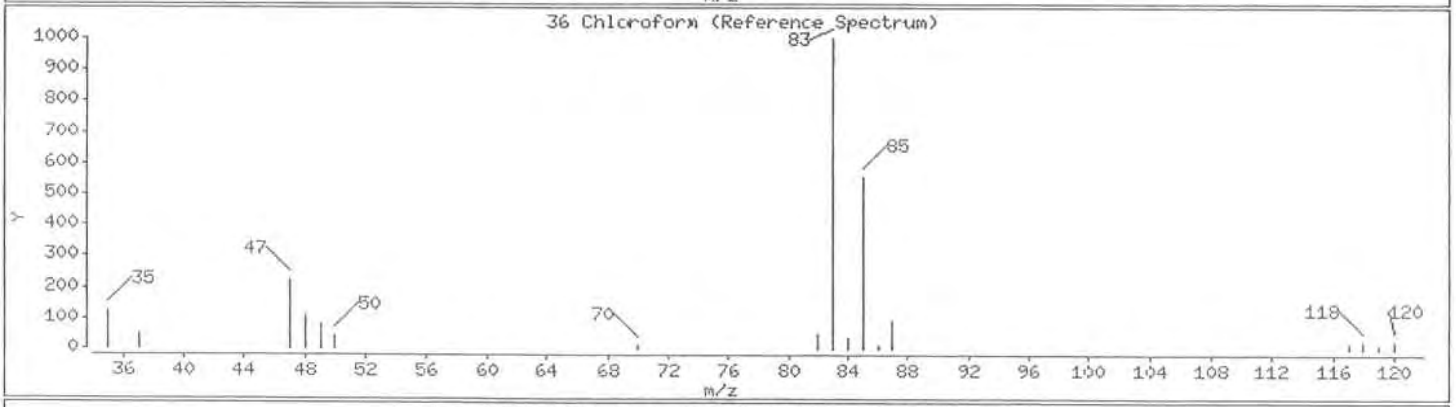
Column diameter: 0.32

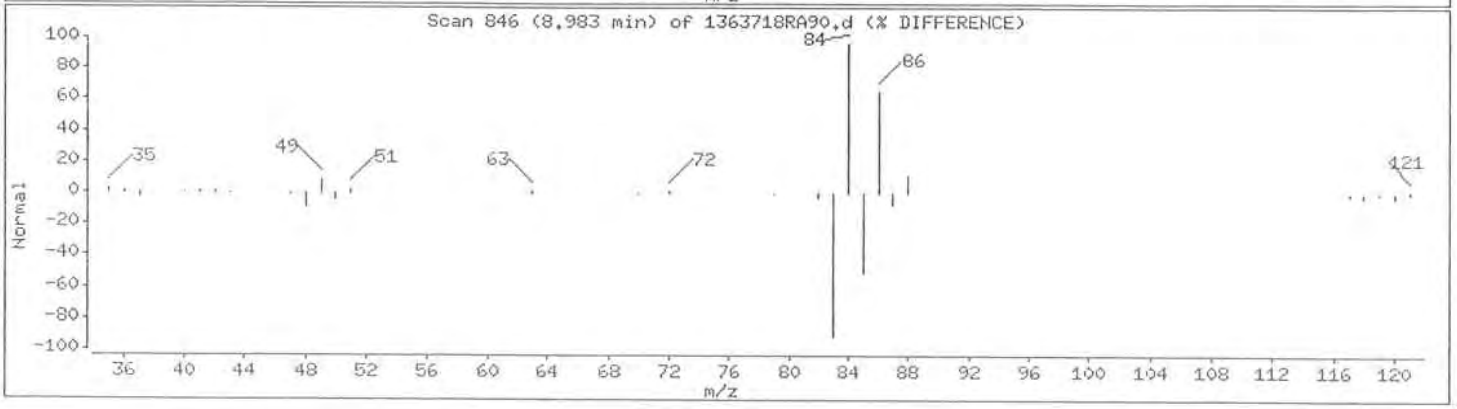
36 Chloroform

Concentration: 0.12 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d

Date : 27-AUG-2007 12:37

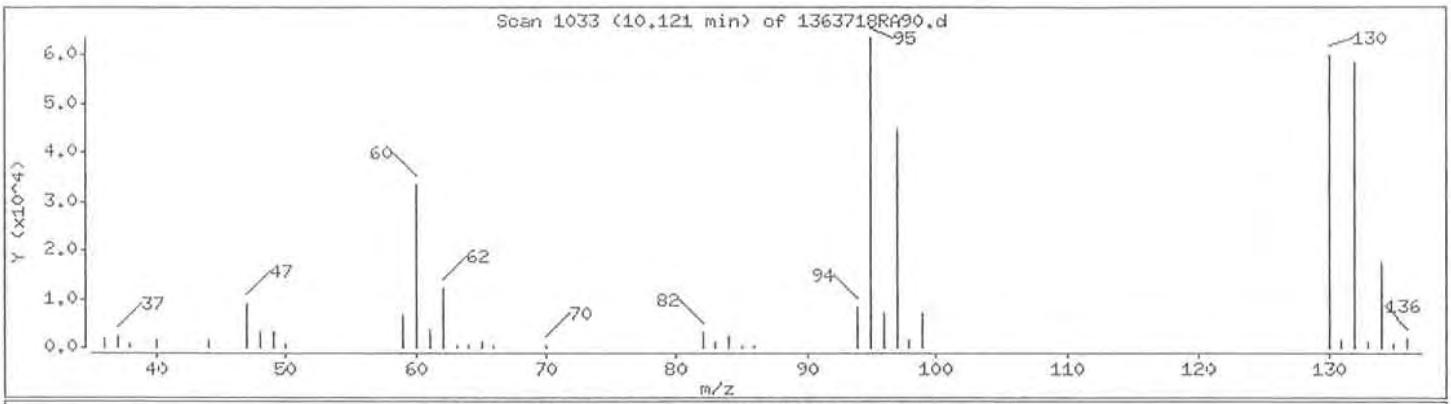
Client ID: Y3EW0 Instrument: 5973hp90.i

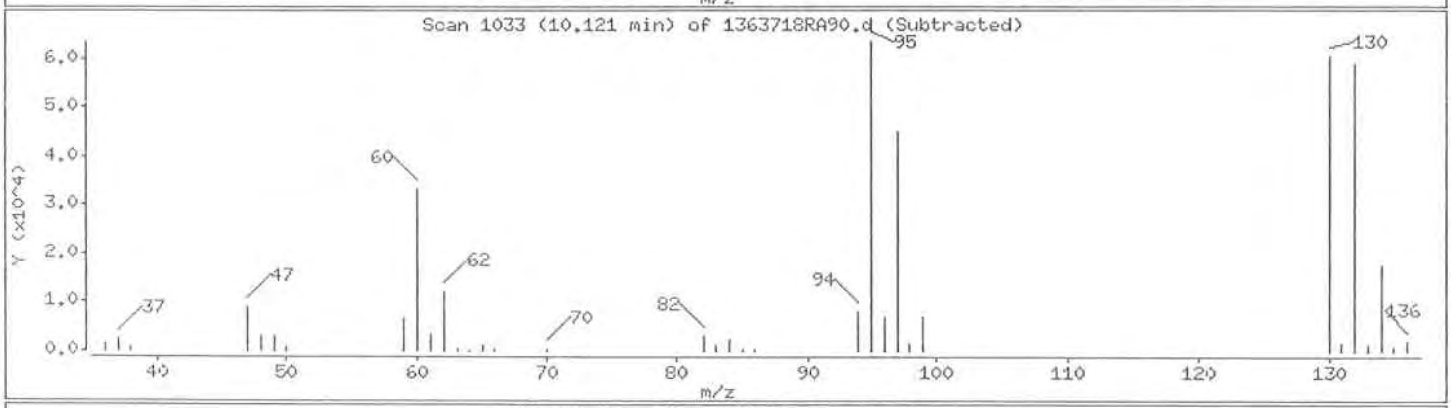
Sample Info: 1363718:2481

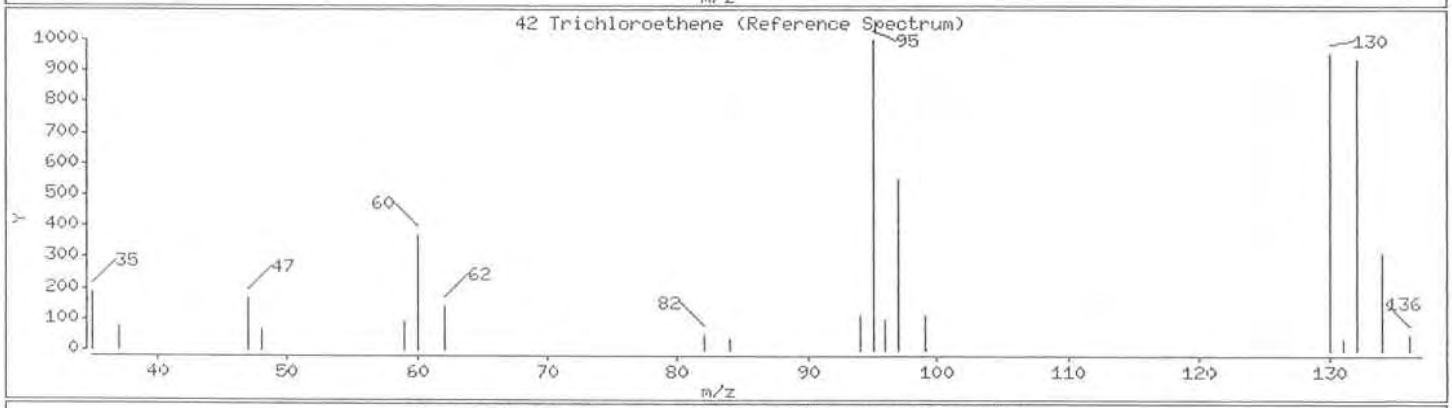
Purge Volume: 25.0 Operator: 2481

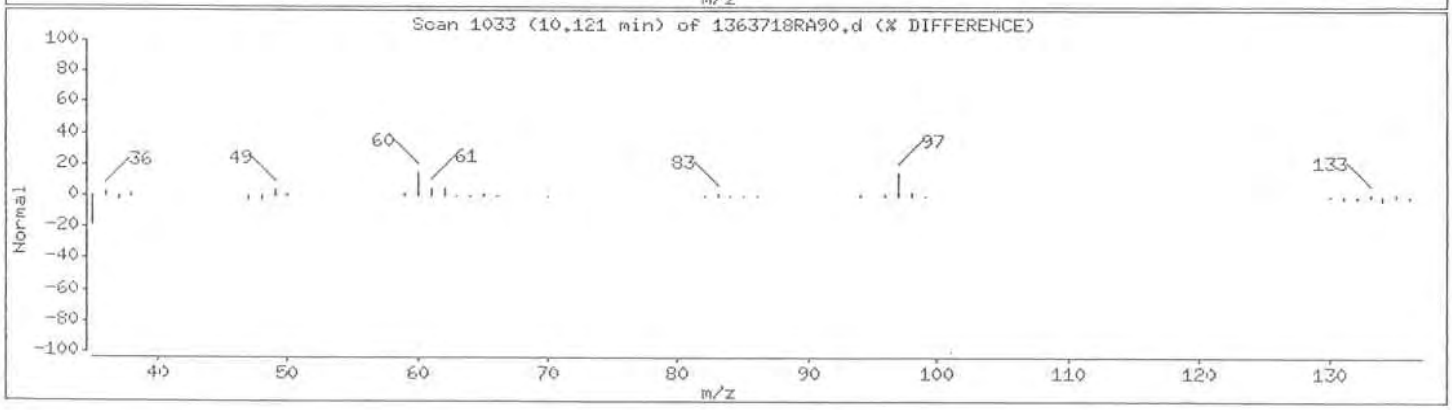
Column phase: SPB-624 Column diameter: 0.32

42 Trichloroethene Concentration: 3.7 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Report Date: 03-Sep-2007 12:12

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363718RA90.d
Lab Smp Id: 1363718 Client Smp ID: Y3EW0
Inj Date : 27-AUG-2007 12:37
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363718:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3EW1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363719

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363719A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	7.2	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.25	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3EW1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363719

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363719A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3EW1

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363719

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363719A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

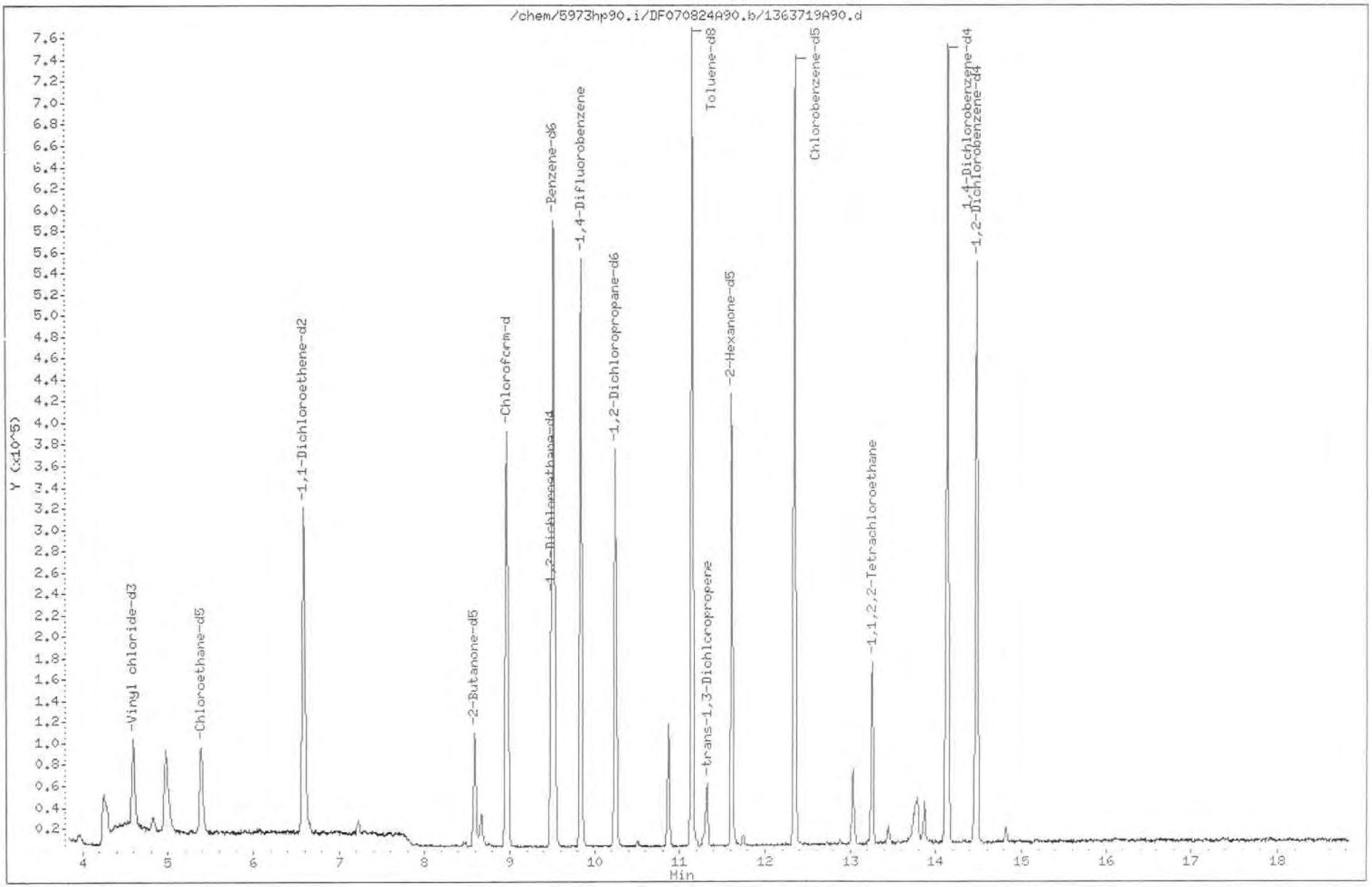
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	556-67-2	Cyclotetrasiloxane, octamethyl-	13.03	0.57	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Date : 24-AUG-2007 13:50
Client ID: Y3EW1
Instrument: 5973hp90.i
Sample Info: 1363719:2481
Purge Volume: 25.0
Operator: 2481
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Report Date: 03-Sep-2007 11:09

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Lab Smp Id: 1363719 Client Smp ID: Y3EW1
Inj Date : 24-AUG-2007 13:50
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363719:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.838	9.844	(1.000)	374631	125.000	
* 2	Chlorobenzene-d5	117	12.345	12.344	(1.000)	357362	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.133	14.132	(1.000)	192226	125.000	
$ 4	Vinyl chloride-d3	65	4.595	4.600	(0.467)	128989	136.883	5.5
$ 5	Chloroethane-d5	69	5.391	5.390	(0.548)	112333	141.943	5.7
$ 6	1,1-Dichloroethene-d2	63	6.590	6.601	(0.670)	263534	102.990	4.1
$ 7	2-Butanone-d5	46	8.591	8.590	(0.873)	138620	983.972	39
$ 8	Chloroform-d	84	8.962	8.967	(0.911)	346312	135.376	5.4
$ 9	1,2-Dichloroethane-d4	65	9.492	9.497	(0.965)	154759	132.228	5.3
$ 10	Benzene-d6	84	9.522	9.521	(0.771)	502954	133.790	5.4
$ 11	1,2-Dichloropropane-d6	67	10.246	10.245	(0.830)	141354	132.072	5.3
$ 12	Toluene-d8	98	11.146	11.145	(0.903)	480262	128.637	5.1
$ 13	trans-1,3-Dichloropropene-d4	79	11.323	11.322	(0.917)	33811	97.7850	3.9
$ 14	2-Hexanone-d5	63	11.609	11.608	(0.940)	118615	1014.46	41
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.257	13.256	(1.074)	76117	123.435	4.9
$ 17	1,2-Dichlorobenzene-d4	152	14.474	14.473	(1.024)	143724	110.387	4.4
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Report Date: 03-Sep-2007 11:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	6.651	6.650	(0.676)	15085	179.398	7.2
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	7.229	7.228	(0.735)	7678	6.20972	0.25(a)
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	Compound Not Detected.					
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Report Date: 03-Sep-2007 11:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d

Date : 24-AUG-2007 13:50

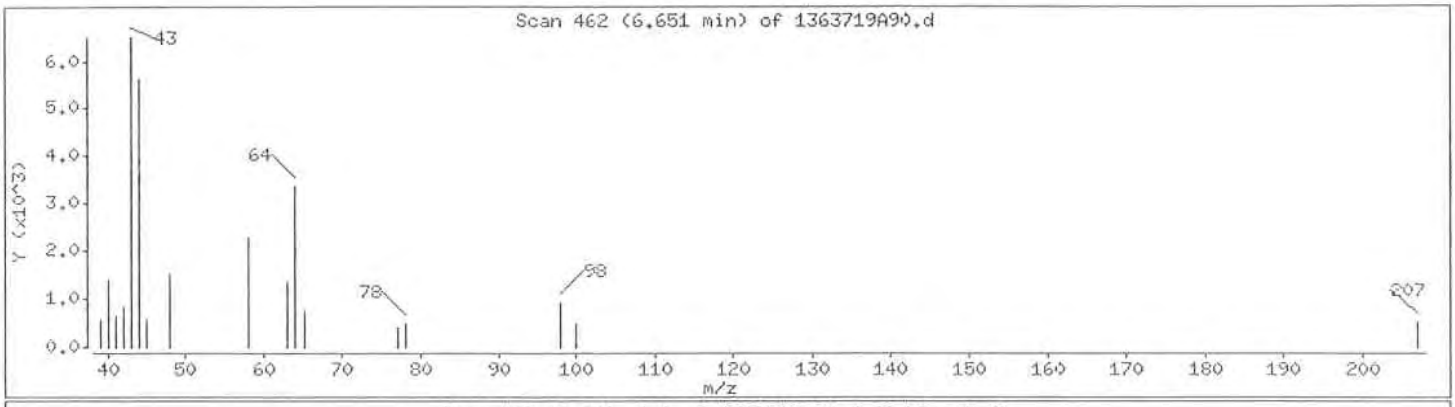
Client ID: Y3EW1 Instrument: 5973hp90.i

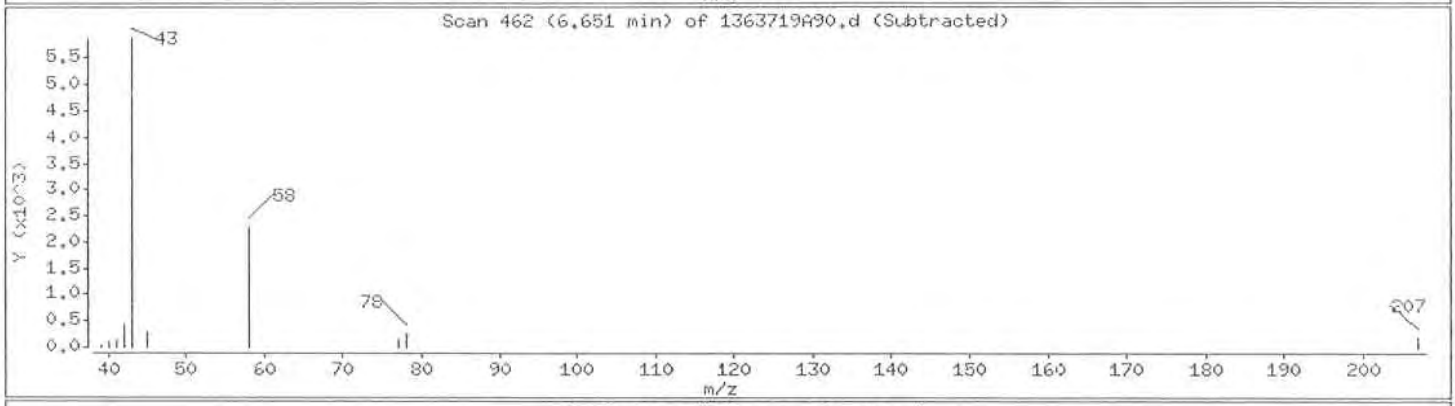
Sample Info: 1363719:2481

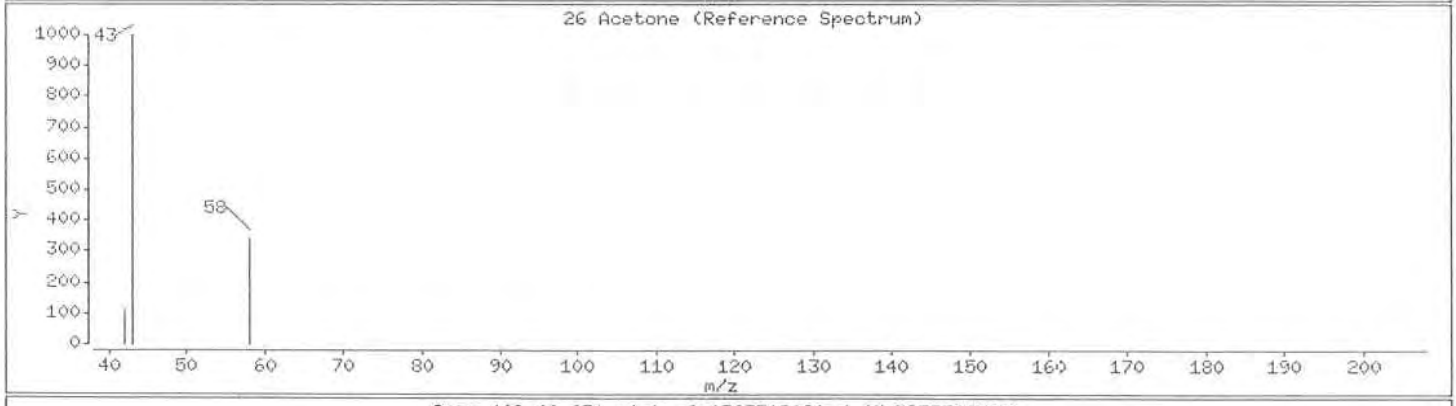
Purge Volume: 25.0 Operator: 2481

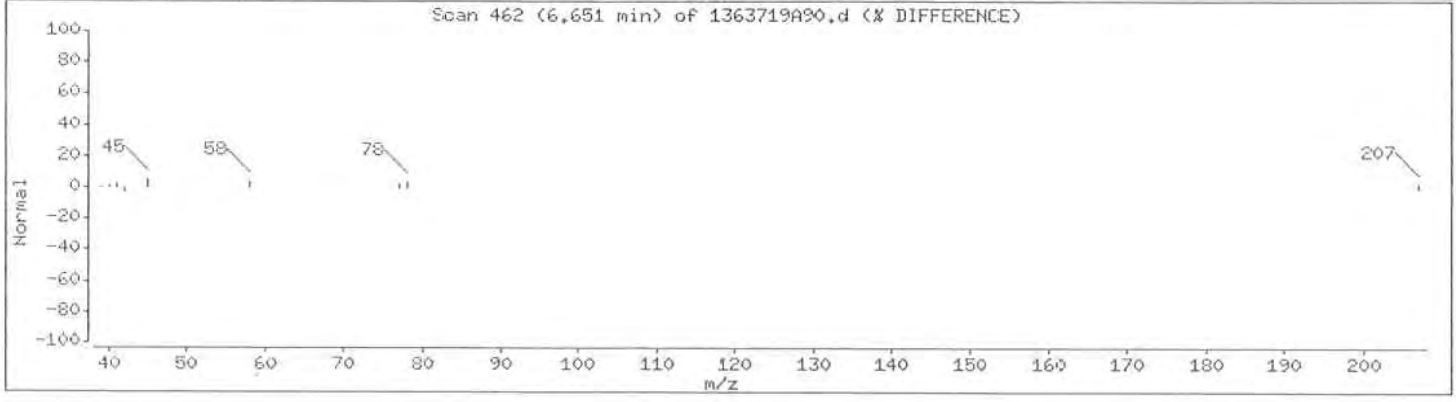
Column phase: SPB-624 Column diameter: 0.32

26 Acetone Concentration: 7.2 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d

Date : 24-AUG-2007 13:50

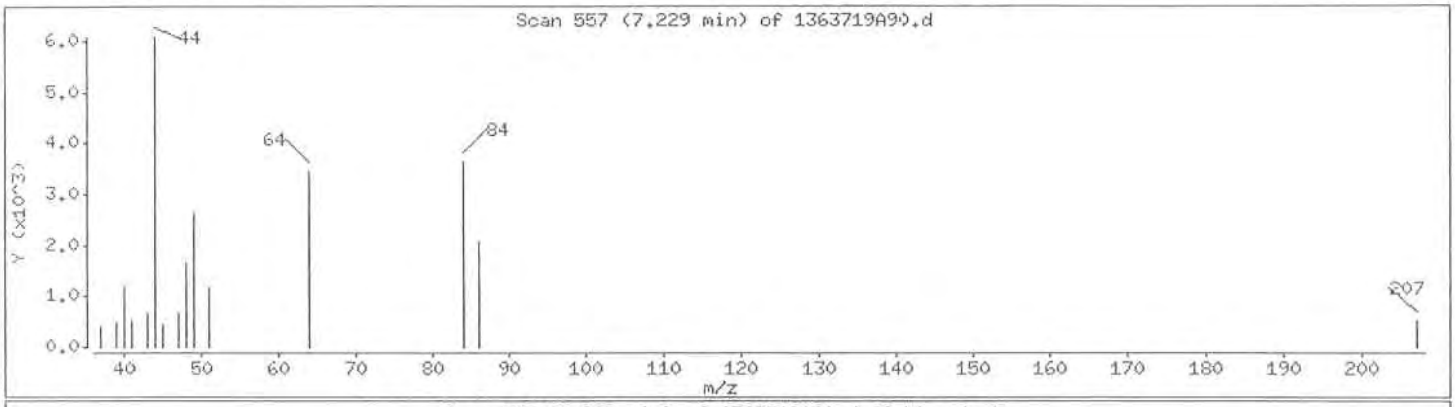
Client ID: Y3EW1 Instrument: 5973hp90.i

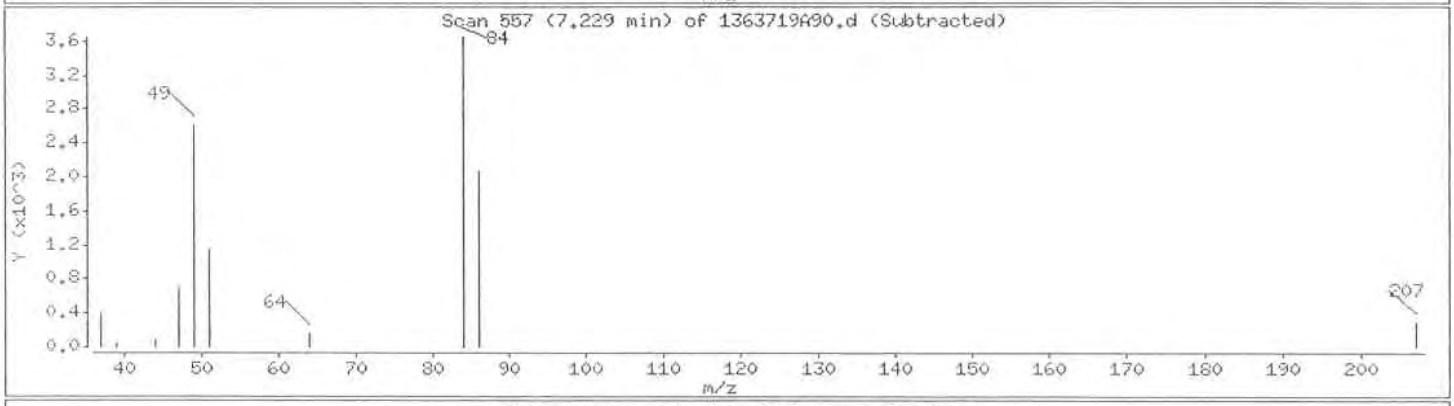
Sample Info: 1363719;2481

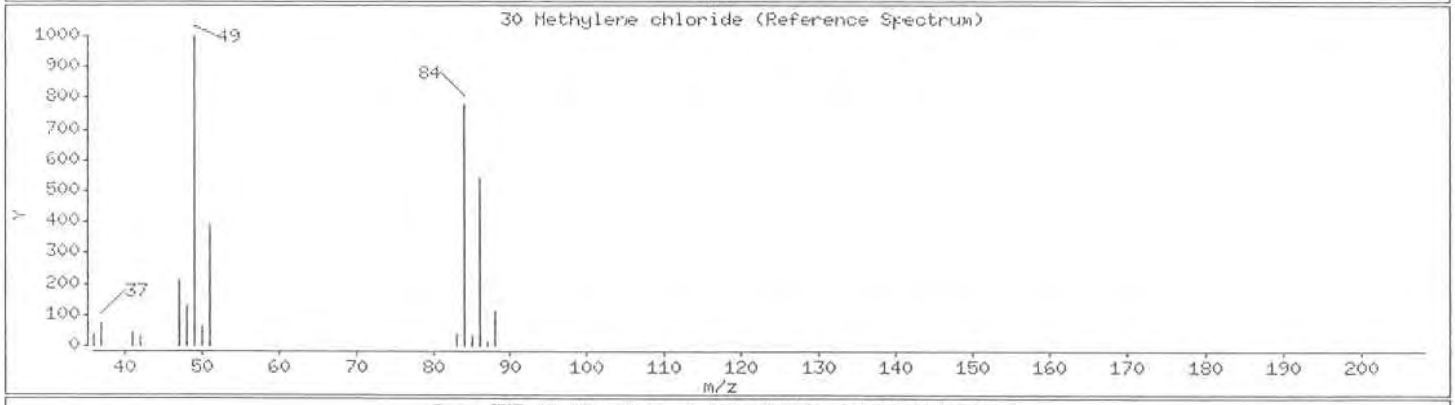
Purge Volume: 25.0 Operator: 2481

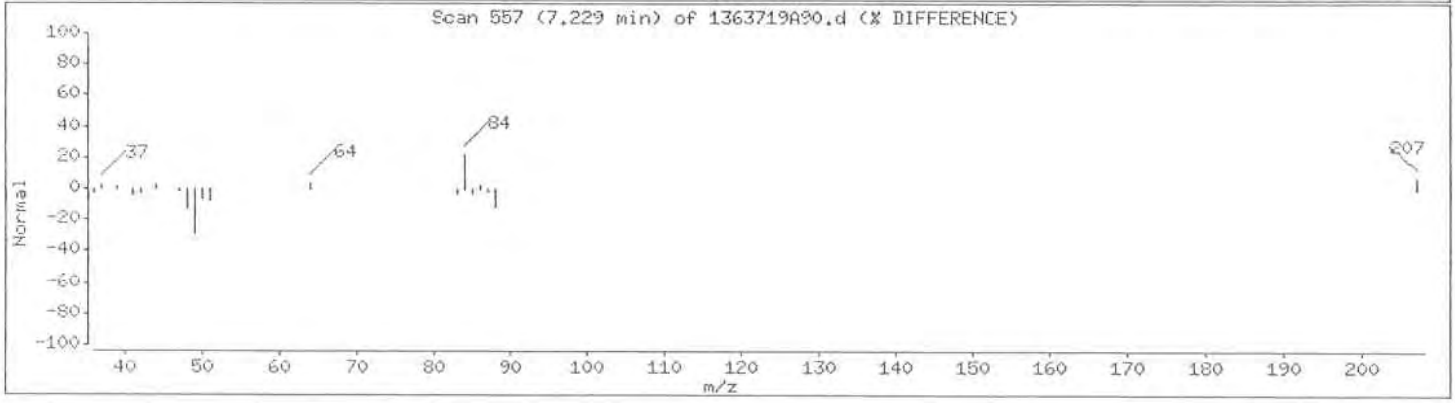
Column phase: SPB-624 Column diameter: 0.32

30 Methylene chloride Concentration: 0.25 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Report Date: 03-Sep-2007 11:09

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363719A90.d
Lab Smp Id: 1363719 Client Smp ID: Y3EW1
Inj Date : 24-AUG-2007 13:50
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363719:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 2 Chlorobenzene-d5	12.345	1198251	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-			CAS #: 556-67-2				
13.032	135727	14.1588669	0.57	91	NBS129K.1	125682	2

Data File: /chem/5973hp90.i/DF070824A90.b/1363719A90.d

Date : 24-AUG-2007 13:50

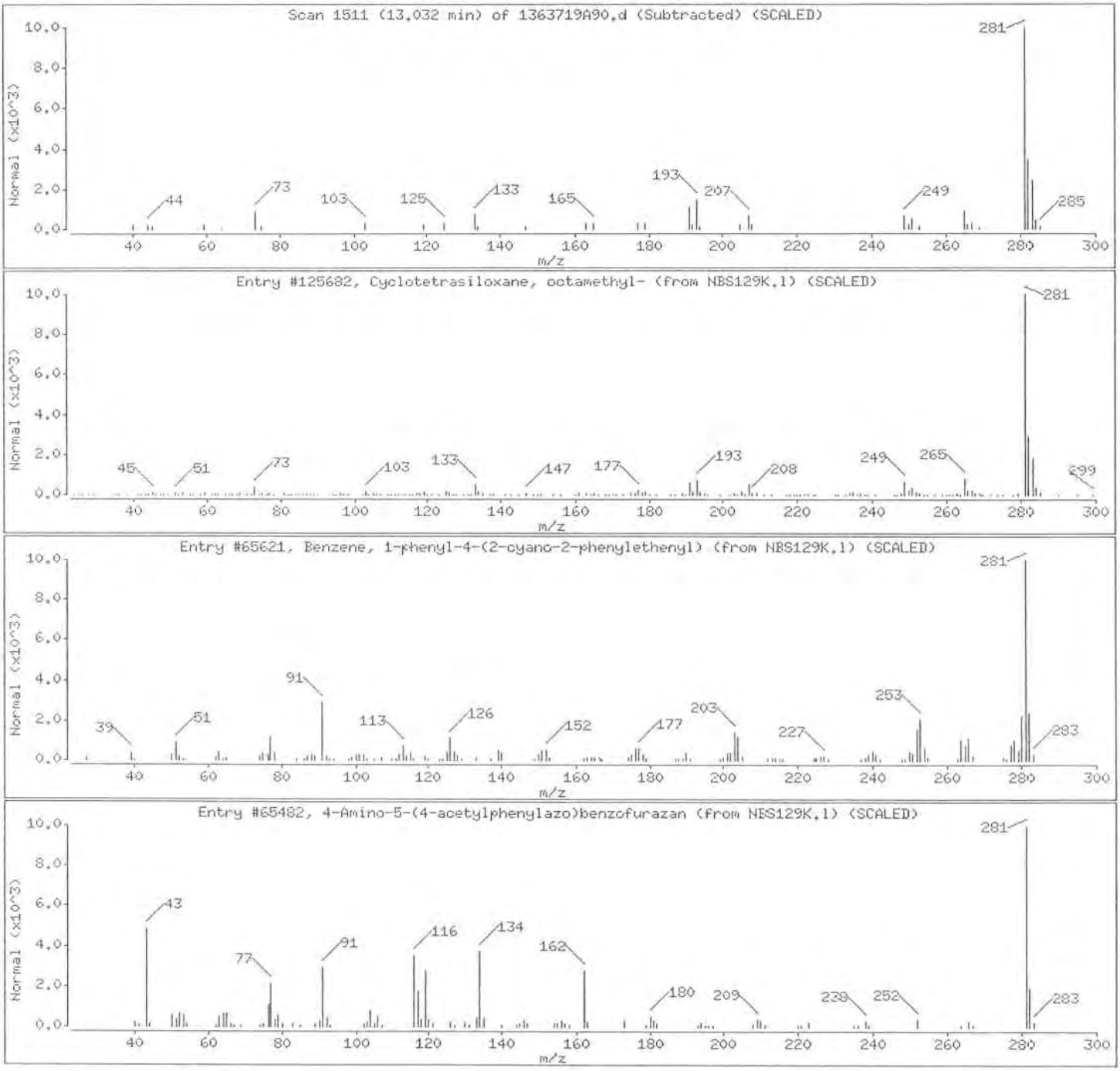
Client ID: Y3EW1 Instrument: 5973hp90.i

Sample Info: 1363719:2481

Purge Volume: 25.0 Operator: 2481

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS129K.l	125682	91	C8H24O4Si4	296
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-56-3	NBS129K.l	65621	50	C21H15N	281
4-Amino-5-(4-acetylphenylazo)benzofuraza	0-00-0	NBS129K.l	65482	43	C14H11N5O2	281



3. Standards Data

a. Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3, VOA SIM)

b. Continuing Calibration Verification Data (Form VII VOA-1, VOA-2, VOA-3, VOA-SIM)

a. Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3, VOA-SIM)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Instrument ID: 5972HP73 Calibration Date(s): 09/12/2007 09/12/2007

Heated Purge: (Y/N) Y Calibration Time(s): 20:37 22:36

Purge Volume: 25.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

LAB FILE ID: _____ RRF0.5 = GS070912B73 RRF1.0 = GT070912B73
RRF5.0 = GW070912B73 RRF10 = GV070912B73 RRF20 = GU070912B73

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	1.129	1.098	1.146	1.148	1.103	1.125	2.1
Chloromethane	0.669	0.649	0.630	0.591	0.588	0.625	5.6
Vinyl chloride	0.362	0.393	0.376	0.368	0.369	0.374	3.2
Bromomethane	0.299	0.230	0.221	0.217	0.220	0.237	14.7
Chloroethane	0.121	0.141	0.145	0.135	0.139	0.136	6.8
Trichlorofluoromethane	0.497	0.547	0.544	0.531	0.516	0.527	4.0
1,1-Dichloroethene	0.516	0.589	0.588	0.581	0.596	0.574	5.7
1,1,2-Trichloro-1,2,2-trifluoroethane	0.338	0.363	0.380	0.370	0.406	0.372	6.7
Acetone	0.062	0.049	0.046	0.043	0.042	0.048	16.7
Carbon disulfide	2.276	2.349	2.389	2.315	2.295	2.325	1.9
Methyl acetate	0.108	0.130	0.112	0.110	0.113	0.115	7.6
Methylene chloride	0.565	0.592	0.561	0.552	0.539	0.562	3.5
trans-1,2-Dichloroethene	0.618	0.666	0.672	0.673	0.658	0.657	3.5
Methyl tert-butyl ether	0.512	0.528	0.593	0.607	0.637	0.575	9.3
1,1-Dichloroethane	1.010	1.004	1.013	0.989	0.984	1.000	1.3
cis-1,2-Dichloroethene	0.537	0.551	0.607	0.624	0.608	0.585	6.6
2-Butanone	0.064	0.064	0.068	0.068	0.066	0.066	3.0
Bromochloromethane	0.242	0.248	0.241	0.226	0.233	0.238	3.6
Chloroform	0.958	0.951	1.014	0.959	0.956	0.968	2.7
1,1,1-Trichloroethane	0.880	0.893	0.926	0.854	0.822	0.875	4.5
Cyclohexane	0.757	0.587	0.523	0.409	0.533	0.562	22.6
Carbon tetrachloride	0.678	0.688	0.757	0.674	0.674	0.694	5.1
Benzene	2.527	2.424	2.624	2.492	2.396	2.493	3.6
1,2-Dichloroethane	0.402	0.387	0.421	0.401	0.396	0.401	3.1
Trichloroethene	0.638	0.640	0.740	0.677	0.672	0.673	6.1
Methylcyclohexane	0.155	0.318	0.436	0.321	0.502	0.346	38.3

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5972HP73 Calibration Date(s): 09/12/2007 09/12/2007

Heated Purge: (Y/N) Y Calibration Time(s): 20:37 22:36

Purge Volume: 25.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

LAB FILE ID: RRF0.5 = GS070912B73 RRF1.0 = GT070912B73
RRF5.0 = GW070912B73 RRF10 = GV070912B73 RRF20 = GU070912B73

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.576	0.496	0.580	0.539	0.518	0.542	6.7
Bromodichloromethane	0.610	0.668	0.703	0.654	0.653	0.657	5.1
cis-1,3-Dichloropropene	0.602	0.597	0.713	0.732	0.741	0.677	10.6
4-Methyl-2-pentanone	0.150	0.143	0.186	0.187	0.186	0.170	12.9
Toluene	1.945	1.891	2.400	2.229	2.233	2.140	10.0
trans-1,3-Dichloropropene	0.442	0.460	0.519	0.521	0.528	0.494	8.1
1,1,2-Trichloroethane	0.294	0.306	0.325	0.306	0.297	0.306	3.9
Tetrachloroethene	0.375	0.413	0.508	0.435	0.483	0.443	12.0
2-Hexanone	0.112	0.112	0.141	0.133	0.135	0.126	10.8
Dibromochloromethane	0.343	0.383	0.399	0.383	0.388	0.379	5.6
1,2-Dibromoethane	0.274	0.274	0.303	0.297	0.295	0.288	4.7
Chlorobenzene	1.272	1.310	1.481	1.366	1.387	1.363	5.9
Ethylbenzene	1.484	1.719	2.289	2.018	2.231	1.948	17.6
o-Xylene	0.486	0.559	0.806	0.740	0.822	0.683	22.2
m,p-Xylene	0.497	0.610	0.864	0.785	0.884	0.728	23.1
Styrene	0.591	0.726	1.129	1.059	1.158	0.933	27.6
Bromoform	0.415	0.423	0.419	0.426	0.411	0.419	1.4
Isopropylbenzene	0.983	1.299	1.909	1.619	1.970	1.556	26.8
1,1,2,2-Tetrachloroethane	0.318	0.290	0.320	0.298	0.304	0.306	4.1
1,3-Dichlorobenzene	1.505	1.665	1.845	1.745	1.907	1.733	9.1
1,4-Dichlorobenzene	1.591	1.752	1.998	1.652	1.789	1.756	8.9
1,2-Dichlorobenzene	1.231	1.372	1.559	1.369	1.487	1.404	8.9
1,2-Dibromo-3-chloropropane	0.083	0.079	0.066	0.057	0.054	0.068	18.9
1,2,4-Trichlorobenzene	0.523	0.619	0.796	0.633	0.784	0.671	17.4
1,2,3-Trichlorobenzene	0.452	0.481	0.669	0.507	0.598	0.541	16.6
tertiary butyl alcohol	0.011	0.011	0.011	0.011	0.011	0.011	1.3

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391. SDG No.: Y3ES6

Instrument ID: 5972HP73 Calibration Date(s): 09/12/2007 09/12/2007

Heated Purge: (Y/N) Y Calibration Time(s): 20:37 22:36

Purge Volume: 25.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

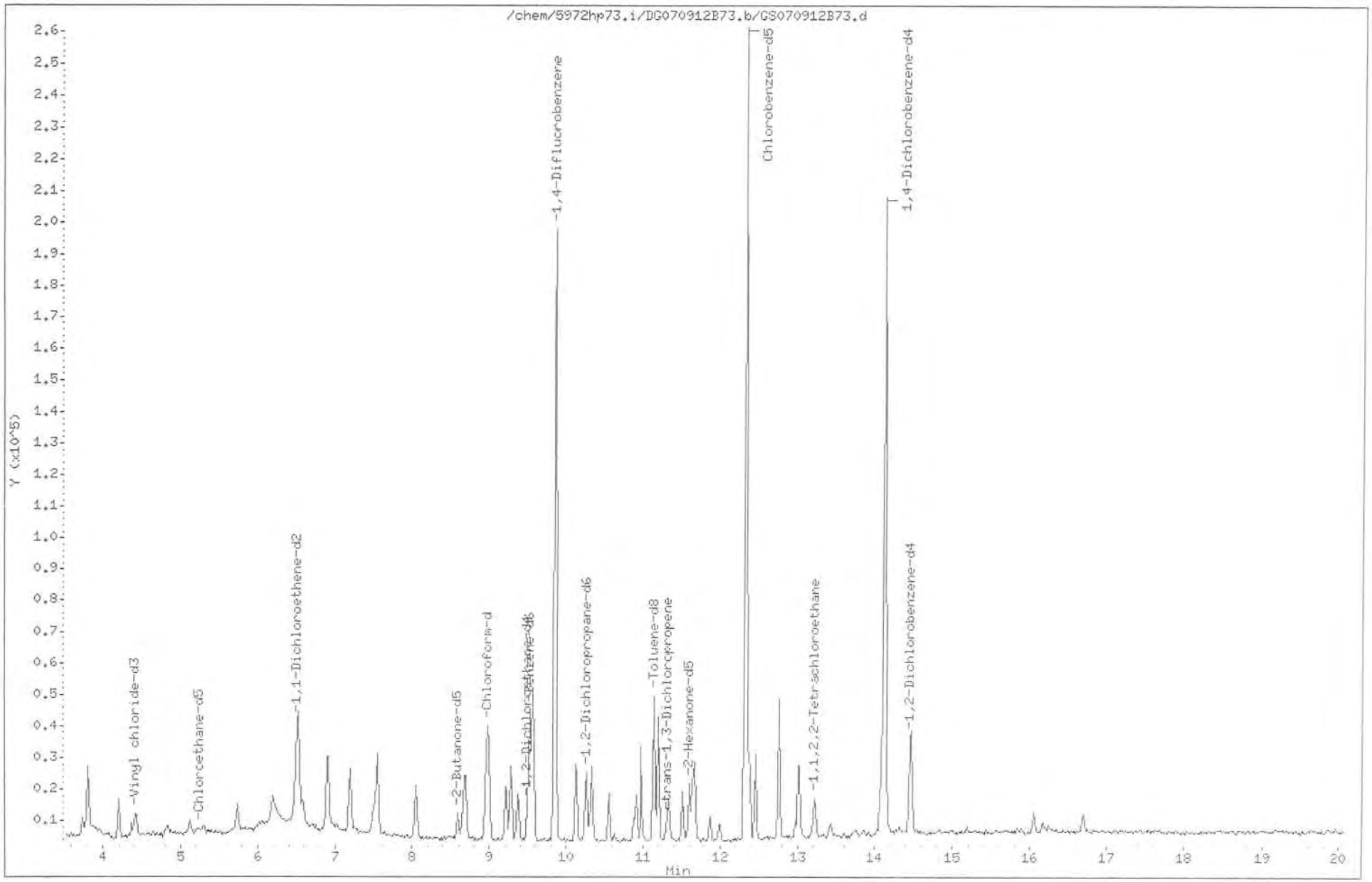
LAB FILE ID: RRF0.5 = GS070912B73 RRF1.0 = GT070912B73
RRF5.0 = GW070912B73 RRF10 = GV070912B73 RRF020 = GU070912B73

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF020	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.210	0.223	0.193	0.186	0.188	0.200	8.0
Chloroethane-d5	0.121	0.143	0.138	0.129	0.130	0.132	6.4
1,1-Dichloroethene-d2	1.101	1.169	1.134	1.147	1.178	1.146	2.7
2-Butanone-d5	0.061	0.052	0.065	0.065	0.067	0.062	9.7
Chloroform-d	1.080	1.078	1.092	1.068	1.060	1.075	1.1
1,2-Dichloroethane-d4	0.338	0.353	0.358	0.340	0.342	0.346	2.5
Benzene-d6	2.586	2.689	2.778	2.664	2.624	2.668	2.7
1,2-Dichloropropane-d6	0.737	0.761	0.759	0.714	0.711	0.736	3.2
Toluene-d8	1.940	2.042	2.282	2.282	2.340	2.177	8.0
trans-1,3-Dichloropropene-d4	0.116	0.120	0.143	0.135	0.146	0.132	10.2
2-Hexanone-d5	0.045	0.046	0.068	0.070	0.074	0.061	23.6
1,1,2,2-Tetrachloroethane-d2	0.388	0.364	0.368	0.360	0.365	0.369	3.0
1,2-Dichlorobenzene-d4	1.257	1.347	1.253	1.272	1.274	1.281	3.0

ORIGINAL

Data File: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Date : 12-SEP-2007 20:37
Client ID: VSTD0.5UT
Sample Info: VSTD0.5UT;2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: 2660
Column diameter: 0.32



Data File: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Report Date: 13-Sep-2007 11:22

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Lab Smp Id: VSTD0.5UT Client Smp ID: VSTD0.5UT
Inj Date : 12-SEP-2007 20:37
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VSTD0.5UT:2660
Misc Info : VMS:1449:150451
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 20:37 Cal File: GS070912B73.d
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.860	9.861	(1.000)	194355	125.000	
* 2	Chlorobenzene-d5	117	12.315	12.316	(1.000)	152730	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.109	14.109	(1.000)	64462	125.000	
$ 4	Vinyl chloride-d3	65	4.428	4.428	(0.449)	4073	12.5000	13
$ 5	Chloroethane-d5	69	5.246	5.247	(0.532)	2355	12.5000	11(M)
$ 6	1,1-Dichloroethene-d2	63	6.517	6.518	(0.661)	21402	12.5000	12
$ 7	2-Butanone-d5	46	8.589	8.590	(0.871)	11918	125.000	120
$ 8	Chloroform-d	84	8.972	8.973	(0.910)	20984	12.5000	13
$ 9	1,2-Dichloroethane-d4	65	9.494	9.495	(0.963)	6578	12.5000	12
$ 10	Benzene-d6	84	9.529	9.530	(0.774)	39503	12.5000	12
$ 11	1,2-Dichloropropane-d6	67	10.261	10.261	(0.833)	11250	12.5000	13(M)
$ 12	Toluene-d8	98	11.149	11.149	(0.905)	29632	12.5000	11
$ 13	trans-1,3-Dichloropropene-d4	79	11.323	11.323	(0.919)	1772	12.5000	11
$ 14	2-Hexanone-d5	63	11.601	11.602	(0.942)	6831	125.000	92
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.221	13.221	(1.074)	5928	12.5000	13
$ 17	1,2-Dichlorobenzene-d4	152	14.457	14.458	(1.025)	8106	12.5000	12

Data File: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Report Date: 13-Sep-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18 Dichlorodifluoromethane	85	3.801	3.801	(0.385)	21936	12.5000	13
19 Chloromethane	50	4.201	4.202	(0.426)	12994	12.5000	13 (M)
20 Vinyl chloride	62	4.445	4.428	(0.451)	7039	12.5000	12 (M)
21 Bromomethane	94	5.124	5.125	(0.520)	5812	12.5000	16 (M)
22 Chloroethane	64	5.298	5.299	(0.537)	2353	12.5000	11 (M)
23 Trichlorofluoromethane	101	5.734	5.734	(0.581)	9653	12.5000	12
24 1,1-Dichloroethene	96	6.534	6.535	(0.663)	10032	12.5000	11
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.500	6.500	(0.659)	6578	12.5000	11
26 Acetone	43	6.587	6.587	(0.668)	12012	125.000	160
27 Carbon disulfide	76	6.917	6.901	(0.702)	44233	12.5000	12
28 Methyl acetate	43	7.004	7.023	(0.710)	2091	12.5000	12 (M)
29 Bromochloromethane	128	8.955	8.955	(0.908)	4697	12.5000	13
30 Methylene chloride	84	7.196	7.197	(0.730)	10984	12.5000	13
107 tertiary butyl alcohol	59	7.266	7.266	(0.737)	2162	125.000	130
31 trans-1,2-Dichloroethene	96	7.544	7.545	(0.765)	12011	12.5000	12
32 Methyl tert-butyl ether	73	7.492	7.493	(0.760)	9956	12.5000	11
33 1,1-Dichloroethane	63	8.049	8.050	(0.816)	19630	12.5000	13
34 cis-1,2-Dichloroethene	96	8.693	8.694	(0.882)	10433	12.5000	11
35 2-Butanone	43	8.659	8.659	(0.878)	12527	125.000	120
36 Chloroform	83	8.989	8.990	(0.912)	18618	12.5000	12
37 1,1,1-Trichloroethane	97	9.216	9.199	(0.748)	13442	12.5000	13
38 Cyclohexane	56	9.268	9.269	(0.753)	11563	12.5000	17
39 Carbon tetrachloride	117	9.373	9.373	(0.761)	10349	12.5000	12
40 Benzene	78	9.564	9.565	(0.777)	38589	12.5000	13
41 1,2-Dichloroethane	62	9.564	9.565	(0.970)	7816	12.5000	13
42 Trichloroethene	95	10.121	10.122	(0.822)	9748	12.5000	12
43 Methylcyclohexane	83	10.313	10.313	(0.837)	2360	12.5000	5.6
44 1,2-Dichloropropane	63	10.330	10.331	(0.839)	8791	12.5000	13 (M)
45 Bromodichloromethane	83	10.557	10.557	(0.857)	9309	12.5000	12
46 cis-1,3-Dichloropropene	75	10.905	10.905	(0.885)	9192	12.5000	11
47 4-Methyl-2-pentanone	43	10.974	10.975	(0.891)	22840	125.000	110
48 Toluene	91	11.201	11.201	(0.909)	29708	12.5000	11
49 trans 1,3-Dichloropropene	75	11.340	11.341	(0.921)	6746	12.5000	11
50 1,1,2-Trichloroethane	97	11.514	11.515	(0.935)	4492	12.5000	12
51 Tetrachloroethene	164	11.671	11.672	(0.948)	5733	12.5000	11
52 2-Hexanone	43	11.636	11.637	(0.945)	17092	125.000	110
53 Dibromochloromethane	129	11.880	11.863	(0.965)	5239	12.5000	11
54 1,2-Dibromoethane	107	12.002	11.985	(0.975)	4184	12.5000	12 (M)
55 Chlorobenzene	112	12.350	12.333	(1.003)	19427	12.5000	12
56 Ethylbenzene	91	12.367	12.368	(1.004)	22658	12.5000	9.5
57 m,p-Xylene	106	12.454	12.455	(1.011)	7593	12.5000	8.5
58 o-Xylene	106	12.768	12.769	(1.037)	7423	12.5000	8.9
59 Styrene	104	12.768	12.769	(1.037)	9026	12.5000	7.9
60 Bromoform	173	12.977	12.978	(0.920)	2677	12.5000	12 (M)
61 Isopropylbenzene	105	13.012	13.012	(1.057)	15015	12.5000	7.9
62 1,1,2,2-Tetrachloroethane	83	13.238	13.239	(1.075)	4852	12.5000	13
63 1,3-Dichlorobenzene	146	14.074	14.075	(0.998)	9703	12.5000	11

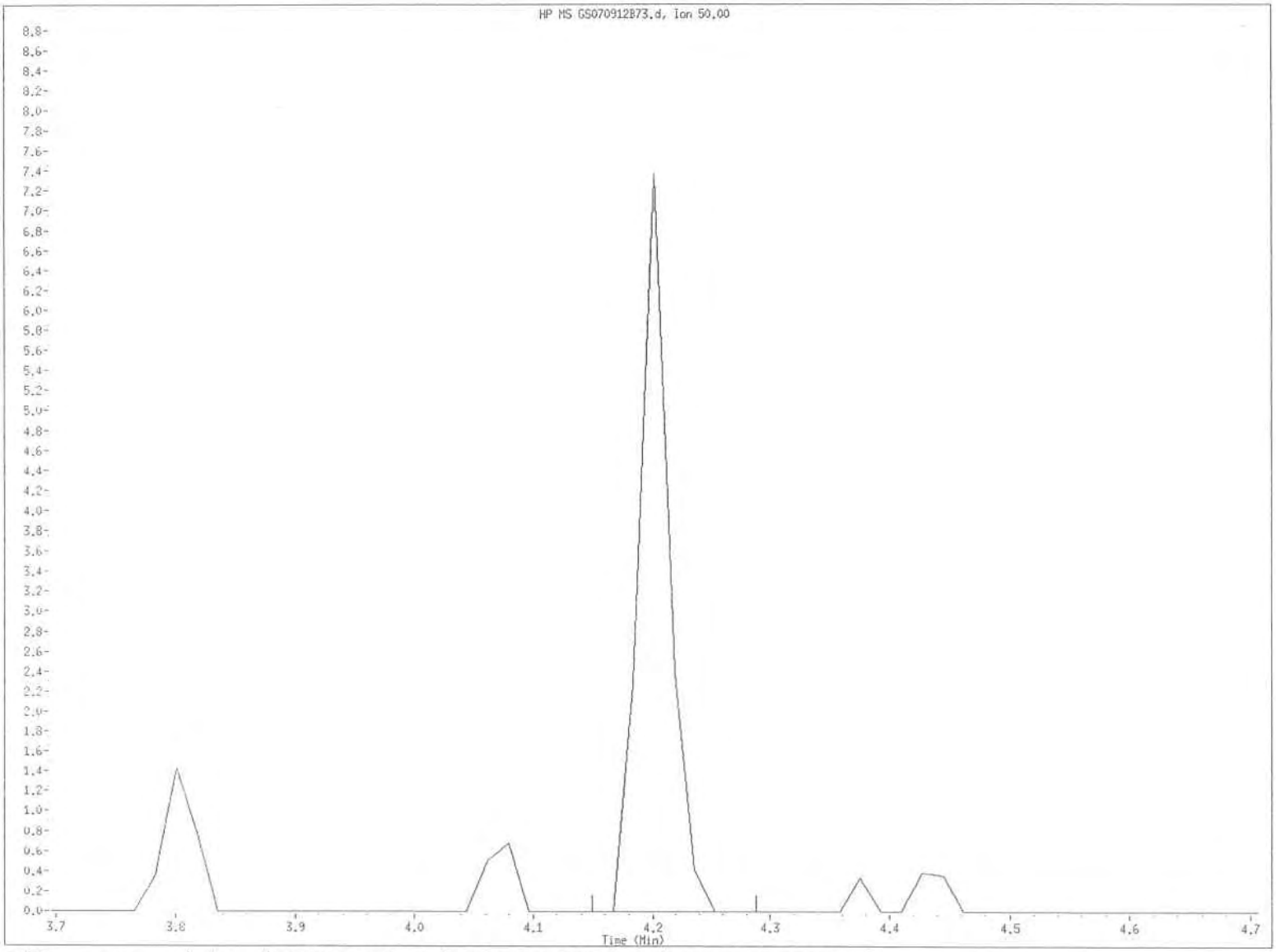
Data File: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Report Date: 13-Sep-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.143	14.127	(1.002)	10257	12.5000	11
65 1,2-Dichlorobenzene	146	14.474	14.475	(1.026)	7935	12.5000	11
66 1,2-Dibromo-3-chloropropane	75	15.188	15.189	(1.077)	538	12.5000	15(M)
67 1,2,4-Trichlorobenzene	180	16.059	16.059	(1.138)	3369	12.5000	9.7
68 1,2,3-Trichlorobenzene	180	16.686	16.686	(1.183)	2916	12.5000	10

QC Flag Legend

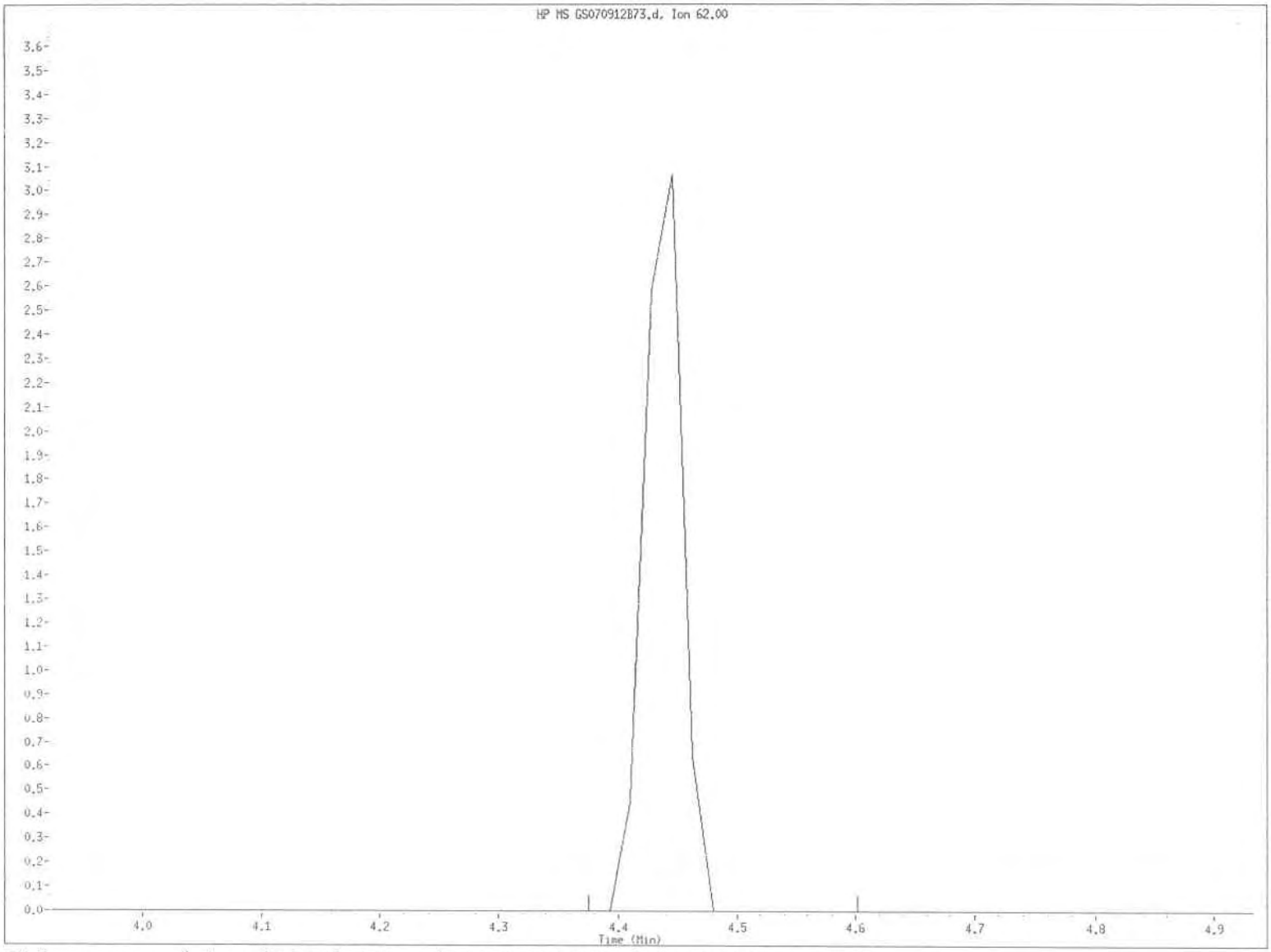
M - Compound response manually integrated.

Chloromethane CAS Number 74-87-3 Area = 12994 Manually integrated



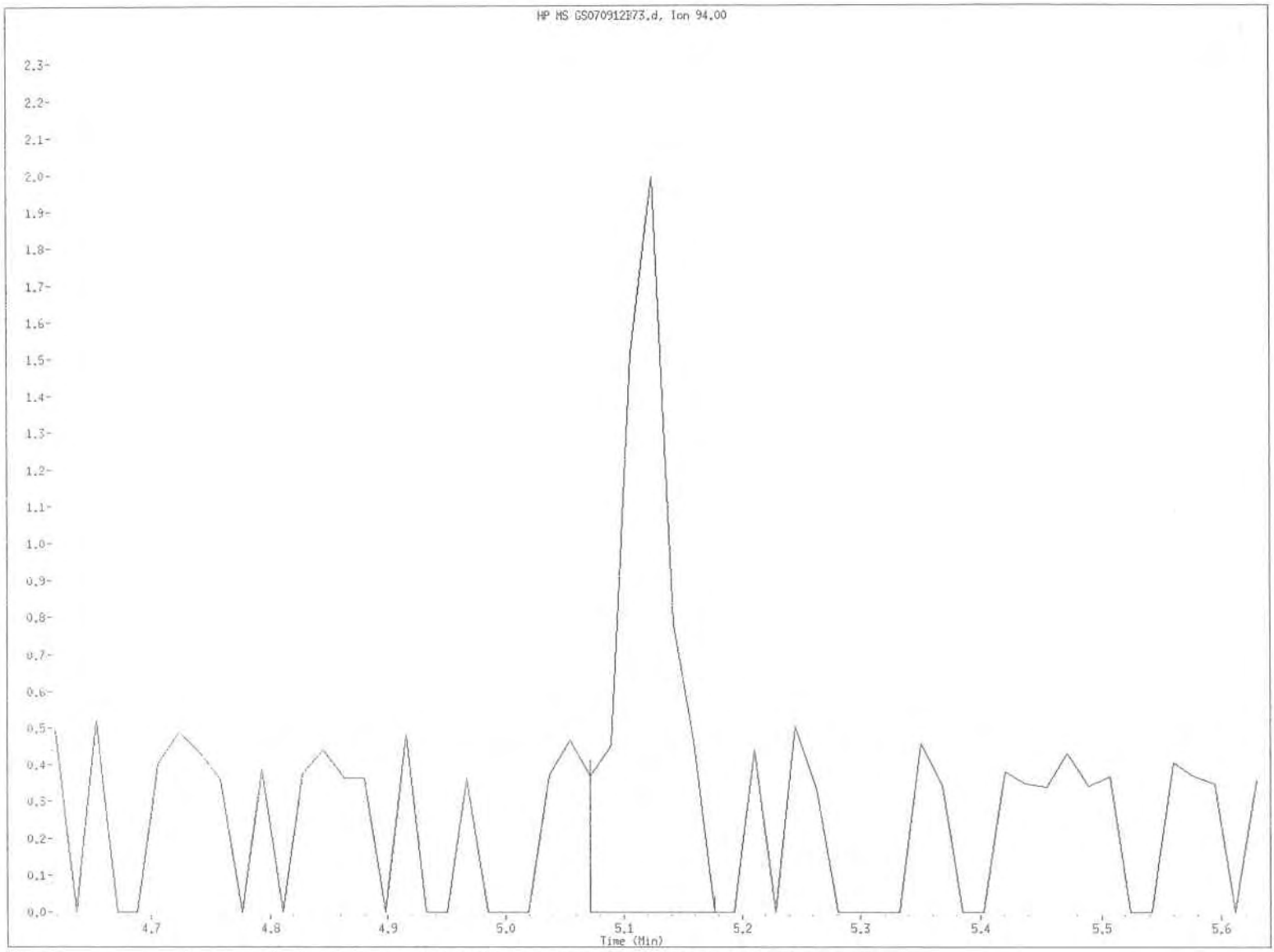
File name: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 4.20
Operator ID: 2660

Vinyl chloride CAS Number 75-01-4 Area = 7039 Manually integrated



File name: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 4.45
Operator ID: 2660

Bromomethane CAS Number 74-83-9 Area = 5812 Manually integrated



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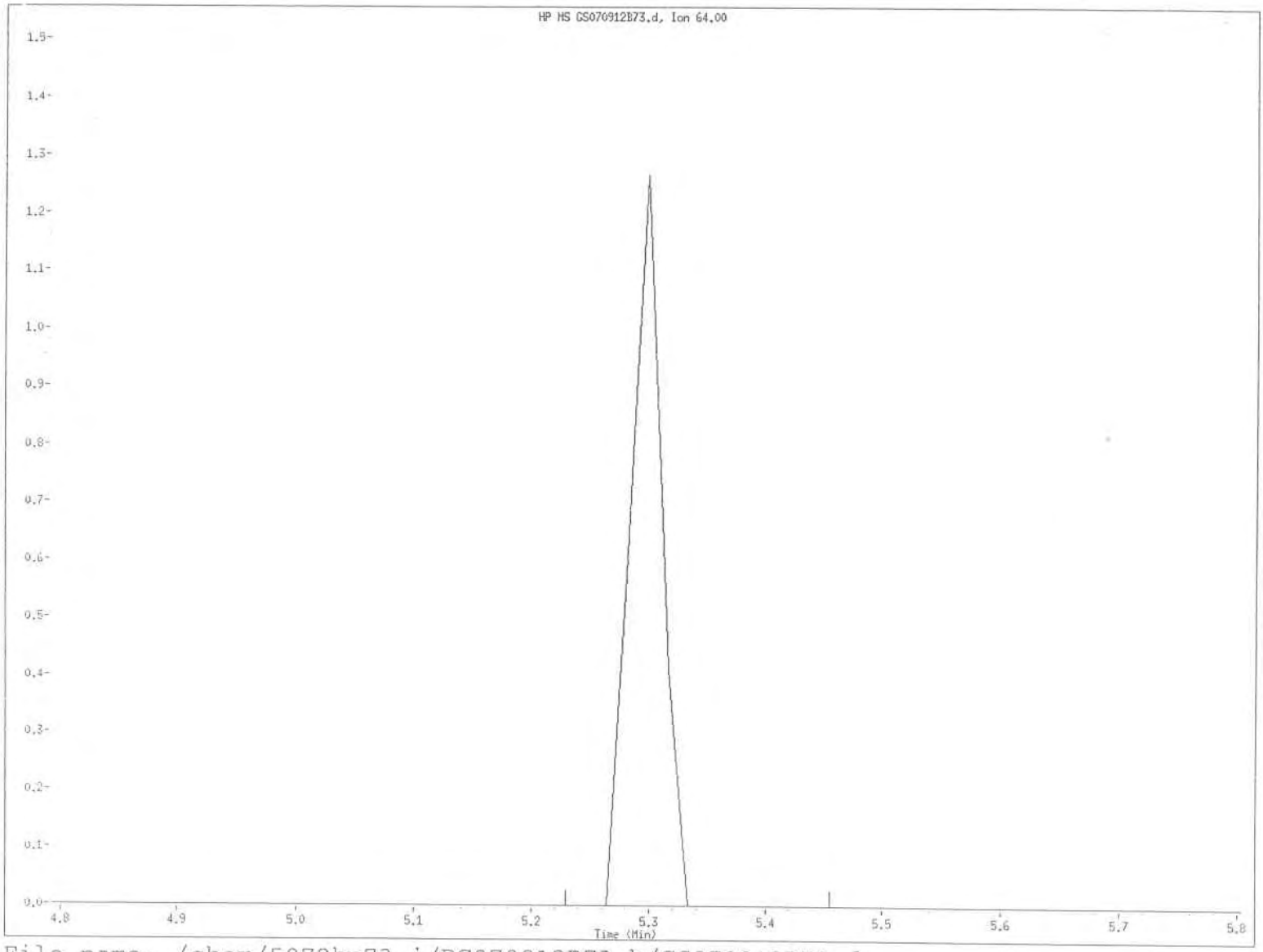
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 5.12
Operator ID: 2660

Chloroethane CAS Number 75-00-3 Area = 2353 Manually integrated



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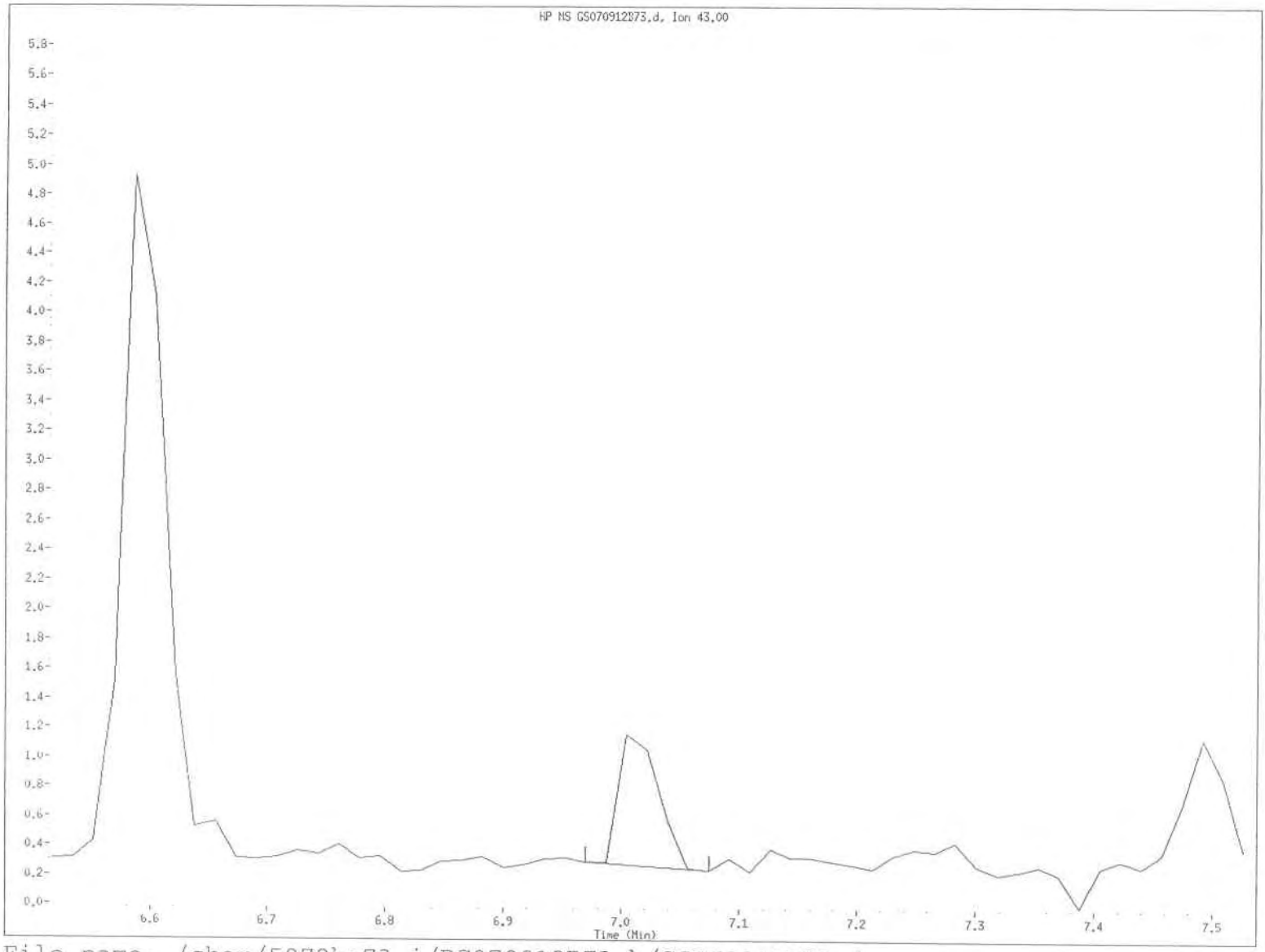
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 5.30
Operator ID: 2660

Methyl acetate CAS Number 79-20-9 Area = 2091 Manually integrated



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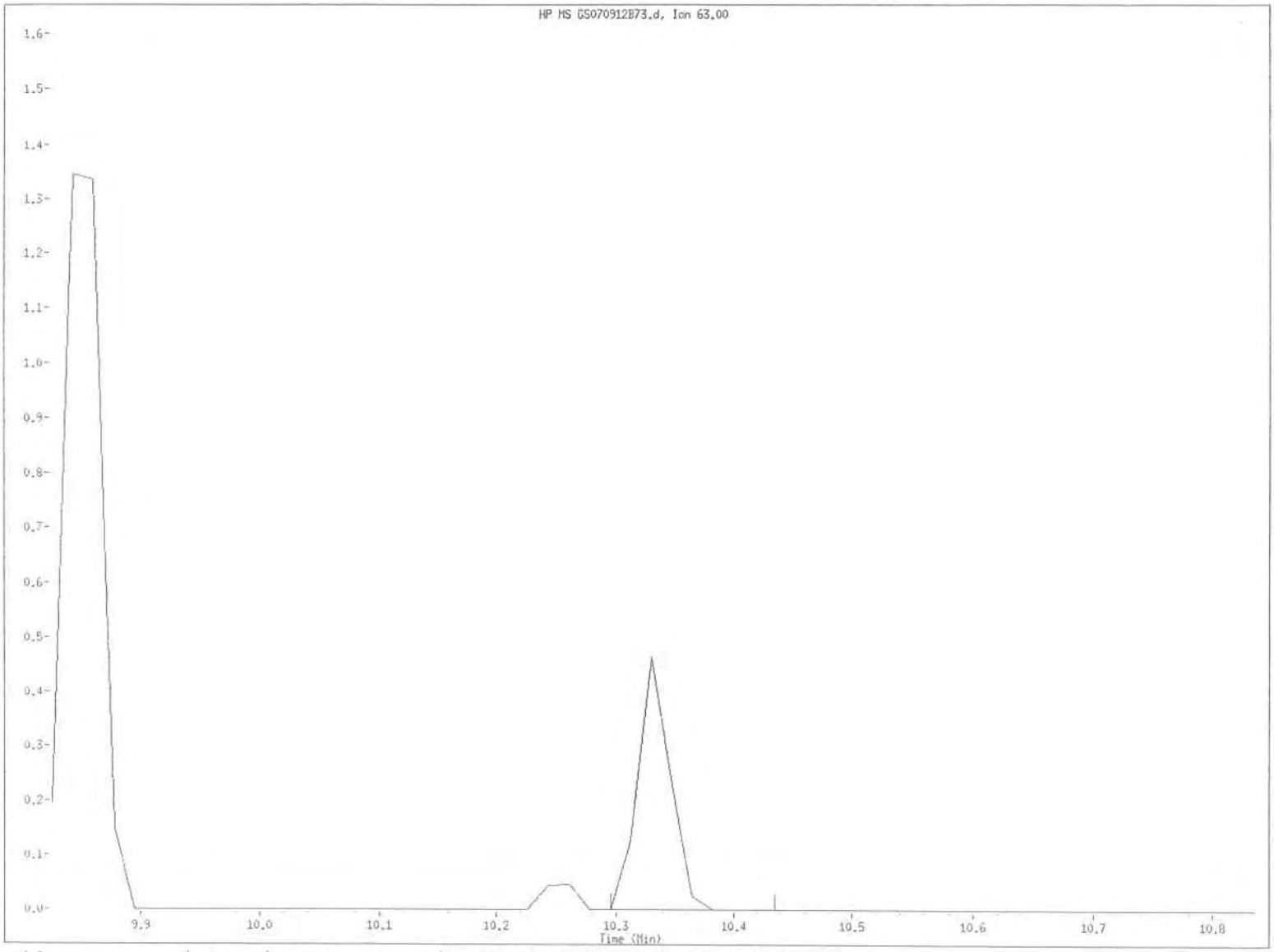
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 7.00
Operator ID: 2660

1,2-Dichloropropane CAS Number 78-87-5 Area = 8791 Manually integrated



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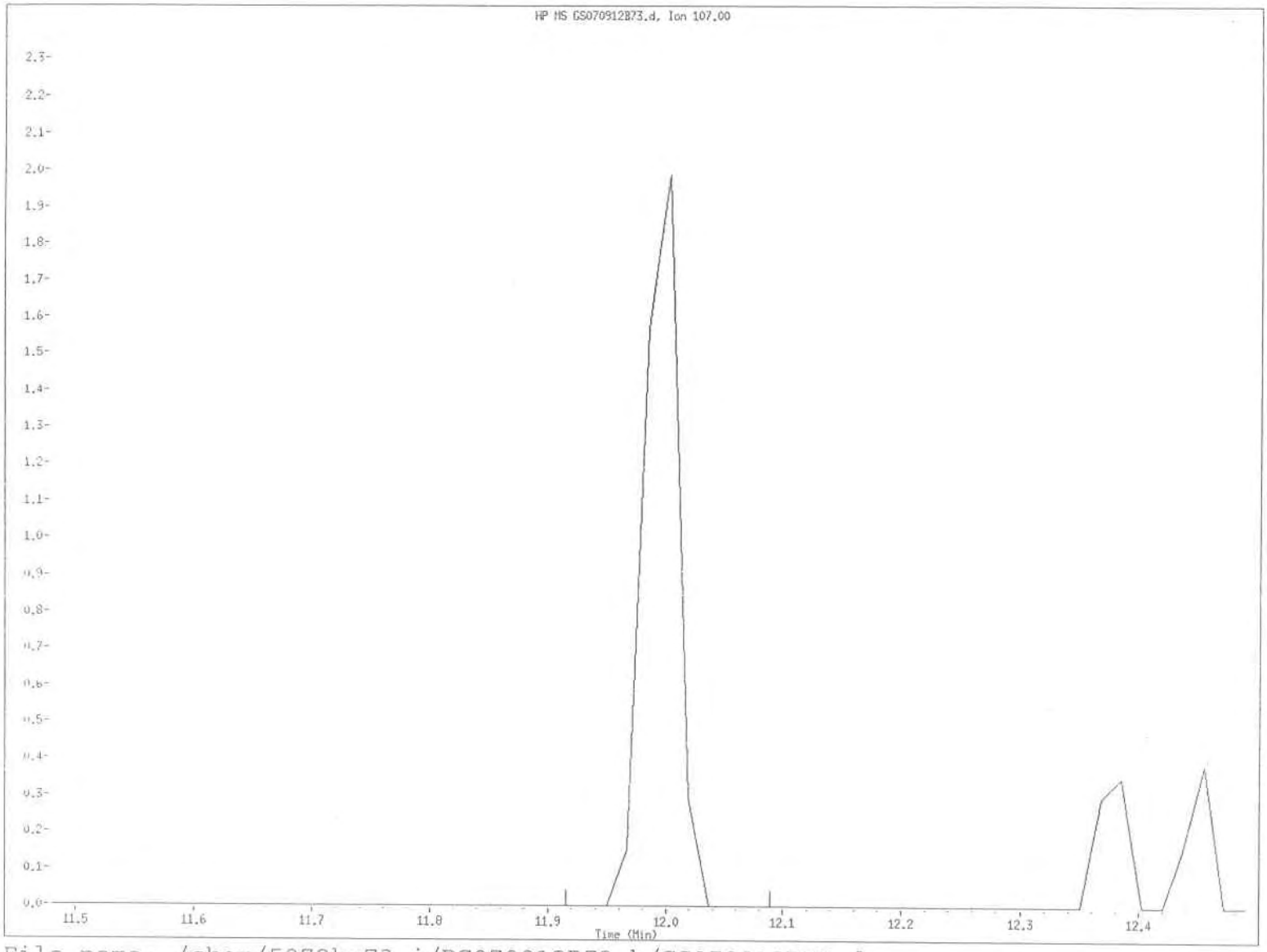
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 10.33
Operator ID: 2660

1,2-Dibromoethane CAS Number 106-93-4 Area = 4184 Manually integrated



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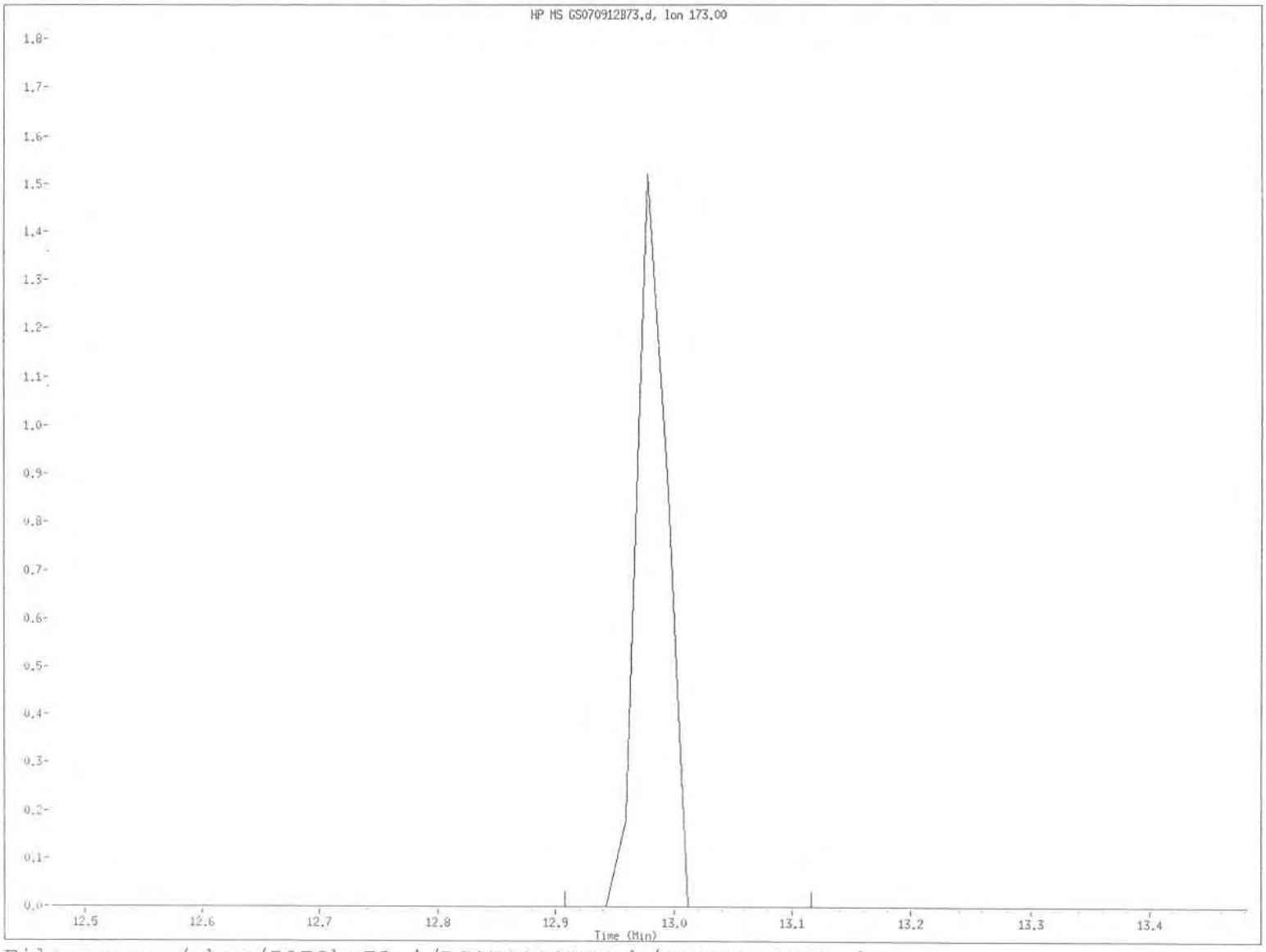
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 12.00
Operator ID: 2660

Bromoform CAS Number 75-25-2 Area = 2677 Manually integrated



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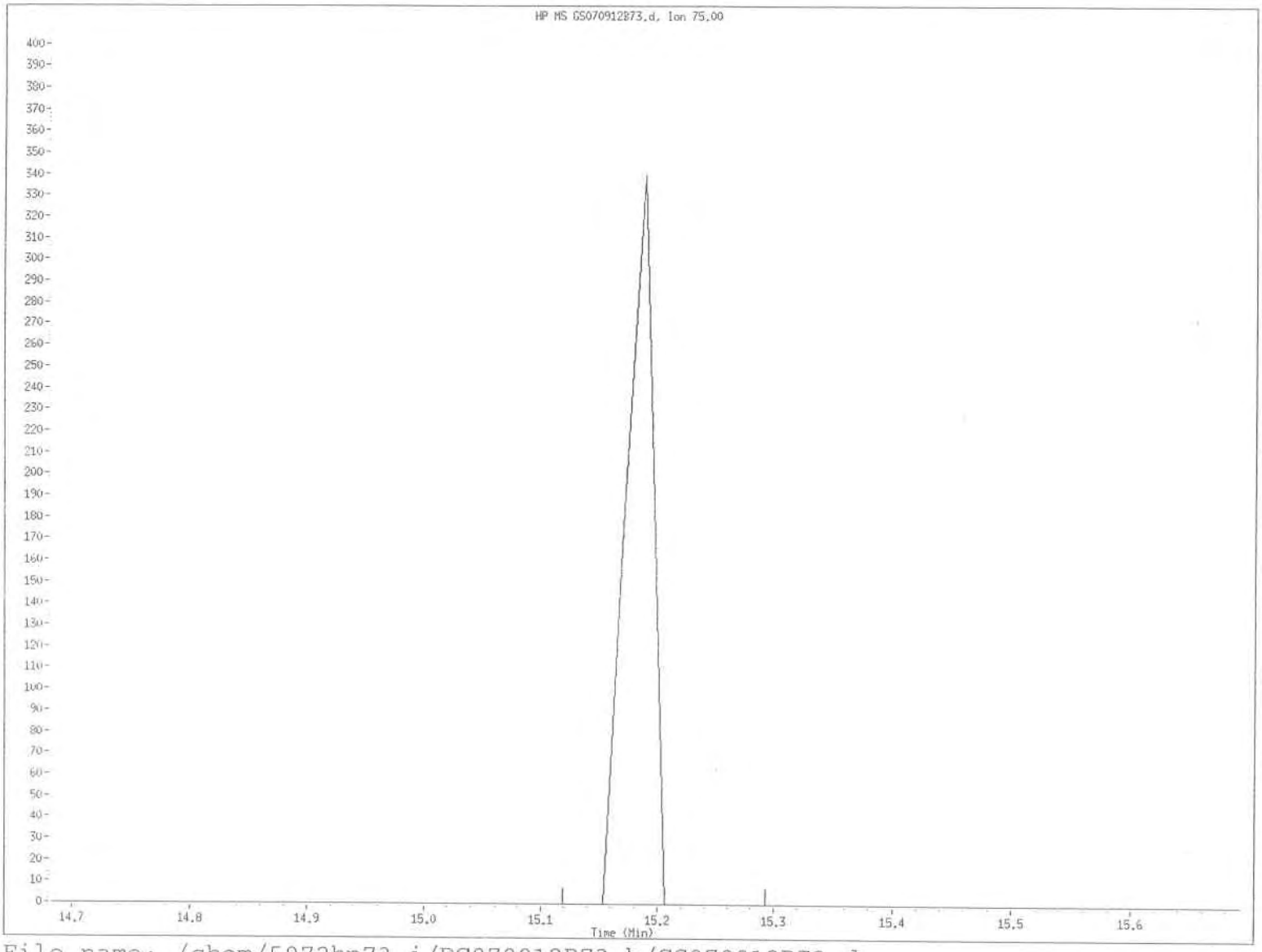
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 12.98
Operator ID: 2660

1,2-Dibromo-3-chloropropane CAS Number 96-12-8 Area = 538 Manually integrated



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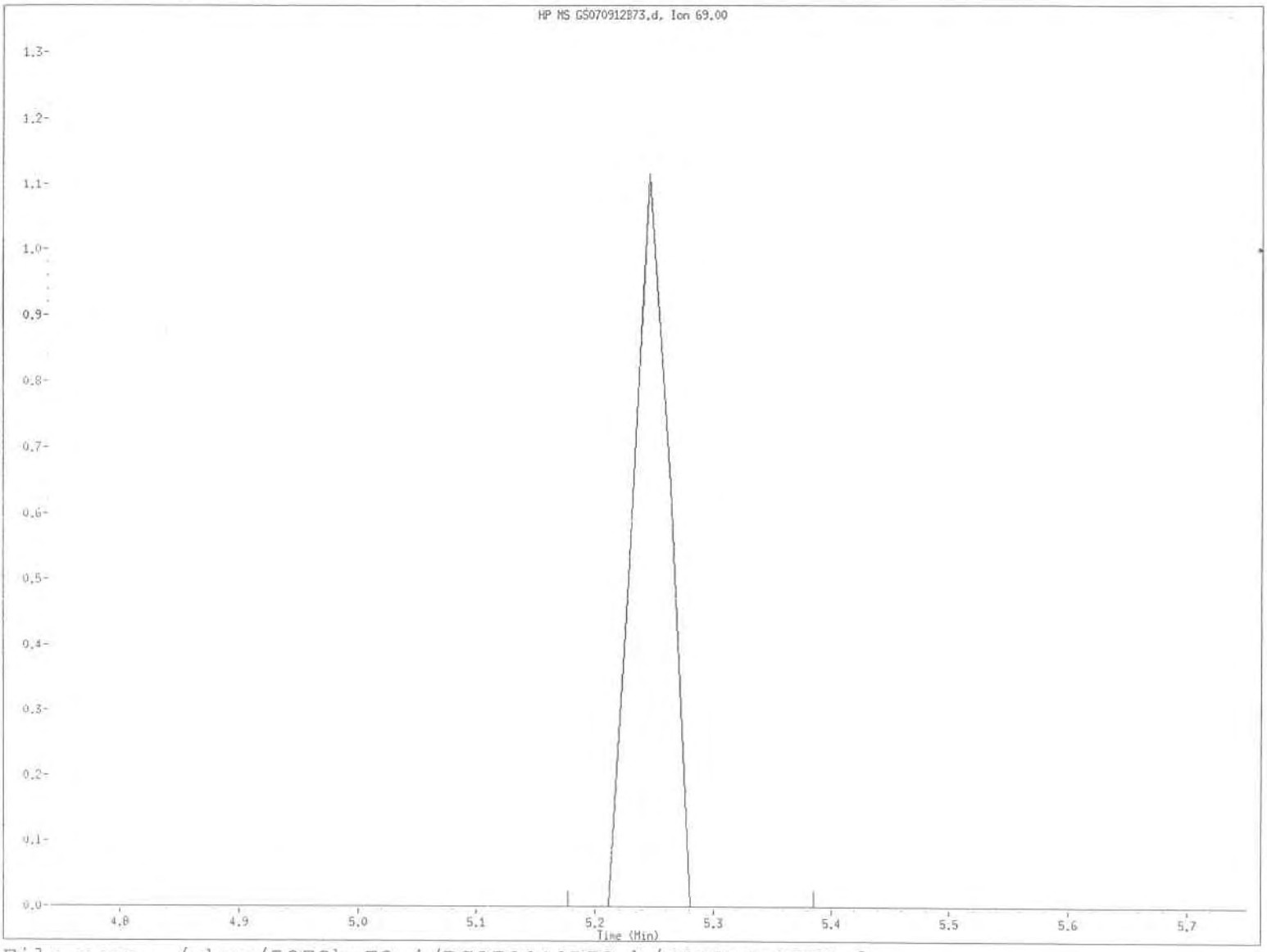
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 15.19
Operator ID: 2660

Chloroethane-d5 CAS Number 19199-91-8 Area = 2355 Manually integrated



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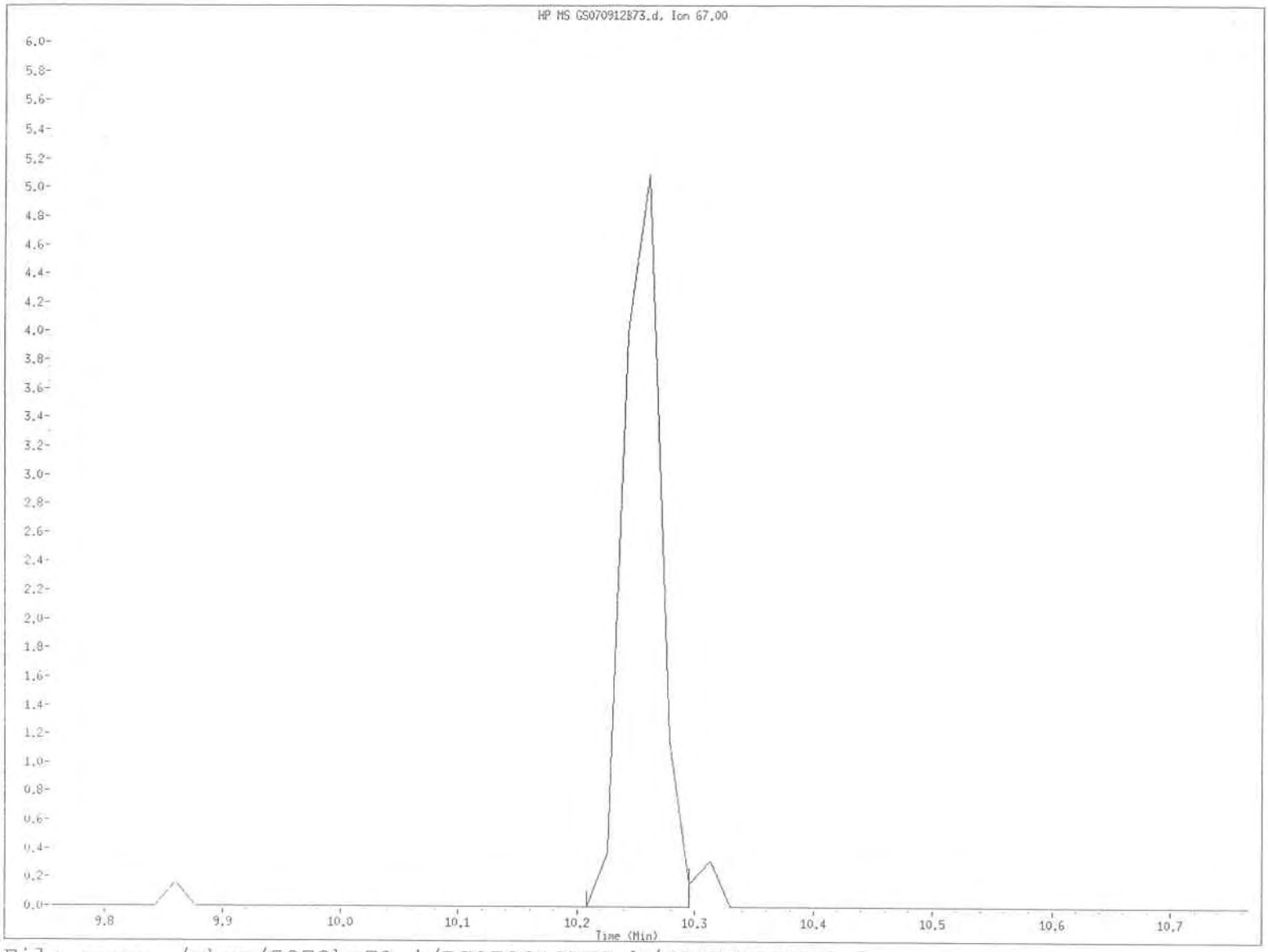
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 5.25
Operator ID: 2660

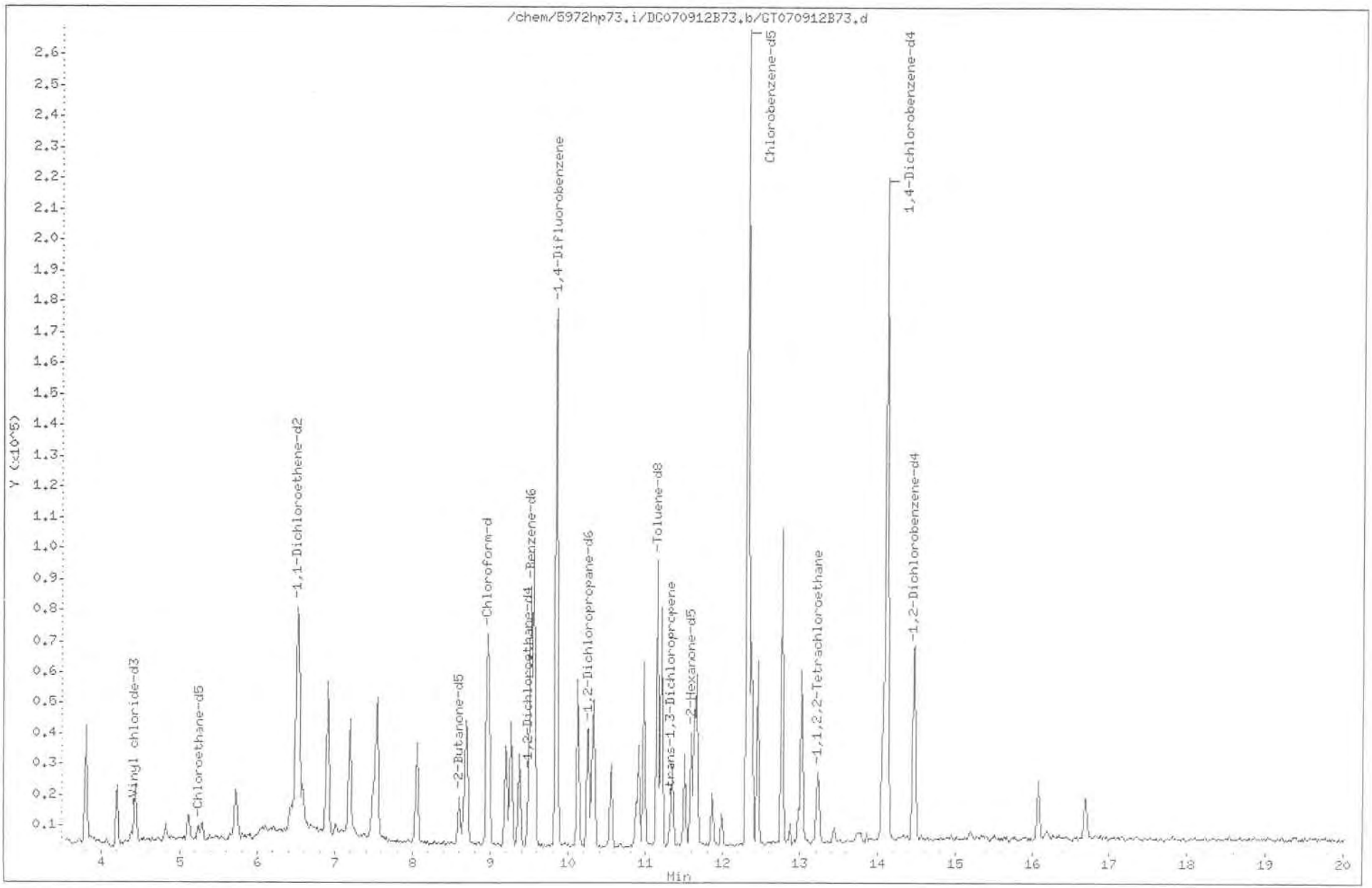
1,2-Dichloropropane-d6 CAS Number 93952-08-0 Area = 11250 Manually integrated



File name: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Client ID: VSTD0.5UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 20:37
Retention Time: 10.26
Operator ID: 2660

Data File: /chem/5972hp73.i/DC070912B73.b/GT070912B73.d
Date : 12-SEP-2007 21:07
Client ID: VSTD001UT
Sample Info: VSTD001UT;2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: 2660
Column diameter: 0.32



Data File: /chem/5972hp73.i/DG070912B73.b/GT070912B73.d
Report Date: 13-Sep-2007 11:22

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/GT070912B73.d
Lab Smp Id: VSTD001UT Client Smp ID: VSTD001UT
Inj Date : 12-SEP-2007 21:07
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VSTD001UT:2660
Misc Info : VMS:1449:150452
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 21:07 Cal File: GT070912B73.d
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 1,4-Difluorobenzene	114	9.861	9.861	(1.000)	184052	125.000	
*	2 Chlorobenzene-d5	117	12.316	12.316	(1.000)	147363	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.110	14.109	(1.000)	64345	125.000	
$	4 Vinyl chloride-d3	65	4.417	4.428	(0.448)	8202	25.0000	28
$	5 Chloroethane-d5	69	5.252	5.247	(0.533)	5260	25.0000	27
$	6 1,1-Dichloroethene-d2	63	6.518	6.518	(0.661)	43024	25.0000	25
$	7 2-Butanone-d5	46	8.590	8.590	(0.871)	19060	250.000	210
$	8 Chloroform-d	84	8.973	8.973	(0.910)	39675	25.0000	25
$	9 1,2-Dichloroethane-d4	65	9.495	9.495	(0.963)	12994	25.0000	25
$	10 Benzene-d6	84	9.530	9.530	(0.774)	79250	25.0000	25
$	11 1,2-Dichloropropane-d6	67	10.262	10.261	(0.833)	22424	25.0000	26
$	12 Toluene-d8	98	11.150	11.149	(0.905)	60183	25.0000	23
$	13 trans-1,3-Dichloropropene-d4	79	11.324	11.323	(0.919)	3547	25.0000	23
$	14 2-Hexanone-d5	63	11.602	11.602	(0.942)	13445	250.000	190
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.222	13.221	(1.073)	10719	25.0000	25
$	17 1,2-Dichlorobenzene-d4	152	14.458	14.458	(1.025)	17333	25.0000	26

Data File: /chem/5972hp73.i/DG070912B73.b/GT070912B73.d
Report Date: 13-Sep-2007 11:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18	Dichlorodifluoromethane	85	3.807	3.801	(0.386)	40406	25.0000	24
19	Chloromethane	50	4.208	4.202	(0.427)	23879	25.0000	26
20	Vinyl chloride	62	4.434	4.428	(0.450)	14467	25.0000	26 (M)
21	Bromomethane	94	5.113	5.125	(0.519)	8453	25.0000	24
22	Chloroethane	64	5.305	5.299	(0.538)	5198	25.0000	26 (M)
23	Trichlorofluoromethane	101	5.740	5.734	(0.582)	20152	25.0000	26
24	1,1-Dichloroethene	96	6.535	6.535	(0.663)	21686	25.0000	26
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.501	6.500	(0.659)	13364	25.0000	24
26	Acetone	43	6.588	6.587	(0.668)	17875	250.000	250
27	Carbon disulfide	76	6.901	6.901	(0.700)	86465	25.0000	25
28	Methyl acetate	43	7.023	7.023	(0.712)	4775	25.0000	28
29	Bromochloromethane	128	8.956	8.955	(0.908)	9130	25.0000	26
30	Methylene chloride	84	7.197	7.197	(0.730)	21803	25.0000	26
107	tertiary butyl alcohol	59	7.267	7.266	(0.737)	4018	250.000	250
31	trans-1,2-Dichloroethene	96	7.545	7.545	(0.765)	24509	25.0000	25
32	Methyl tert-butyl ether	73	7.493	7.493	(0.760)	19432	25.0000	23
33	1,1-Dichloroethane	63	8.050	8.050	(0.816)	36941	25.0000	25
34	cis-1,2-Dichloroethene	96	8.694	8.694	(0.882)	20282	25.0000	24
35	2-Butanone	43	8.660	8.659	(0.878)	23386	250.000	240
36	Chloroform	83	8.990	8.990	(0.912)	35012	25.0000	25
37	1,1,1-Trichloroethane	97	9.199	9.199	(0.747)	26324	25.0000	26
38	Cyclohexane	56	9.269	9.269	(0.753)	17290	25.0000	26
39	Carbon tetrachloride	117	9.374	9.373	(0.761)	20265	25.0000	25
40	Benzene	78	9.565	9.565	(0.777)	71443	25.0000	24
41	1,2-Dichloroethane	62	9.565	9.565	(0.970)	14250	25.0000	24
42	Trichloroethene	95	10.122	10.122	(0.822)	18869	25.0000	24
43	Methylcyclohexane	83	10.314	10.313	(0.837)	9374	25.0000	23
44	1,2-Dichloropropane	63	10.331	10.331	(0.839)	14621	25.0000	23
45	Bromodichloromethane	83	10.558	10.557	(0.857)	19699	25.0000	25
46	cis-1,3-Dichloropropene	75	10.906	10.905	(0.885)	17589	25.0000	22
47	4-Methyl-2-pentanone	43	10.975	10.975	(0.891)	42251	250.000	210
48	Toluene	91	11.202	11.201	(0.910)	55734	25.0000	22
49	trans-1,3-Dichloropropene	75	11.341	11.341	(0.921)	13553	25.0000	23
50	1,1,2-Trichloroethane	97	11.515	11.515	(0.935)	9023	25.0000	25
51	Tetrachloroethene	164	11.672	11.672	(0.948)	12167	25.0000	23
52	2-Hexanone	43	11.637	11.637	(0.945)	32935	250.000	220
53	Dibromochloromethane	129	11.863	11.863	(0.963)	11298	25.0000	25
54	1,2-Dibromoethane	107	11.985	11.985	(0.973)	8066	25.0000	24
55	Chlorobenzene	112	12.334	12.333	(1.001)	38601	25.0000	24
56	Ethylbenzene	91	12.368	12.368	(1.004)	50669	25.0000	22
57	m,p-Xylene	106	12.455	12.455	(1.011)	17982	25.0000	21
58	o-Xylene	106	12.769	12.769	(1.037)	16477	25.0000	20
59	Styrene	104	12.769	12.769	(1.037)	21391	25.0000	19
60	Bromoform	173	12.978	12.978	(0.920)	5438	25.0000	25
61	Isopropylbenzene	105	13.013	13.012	(1.057)	38283	25.0000	21
62	1,1,2,2-Tetrachloroethane	83	13.239	13.239	(1.075)	8559	25.0000	24
63	1,3-Dichlorobenzene	146	14.075	14.075	(0.998)	21424	25.0000	24

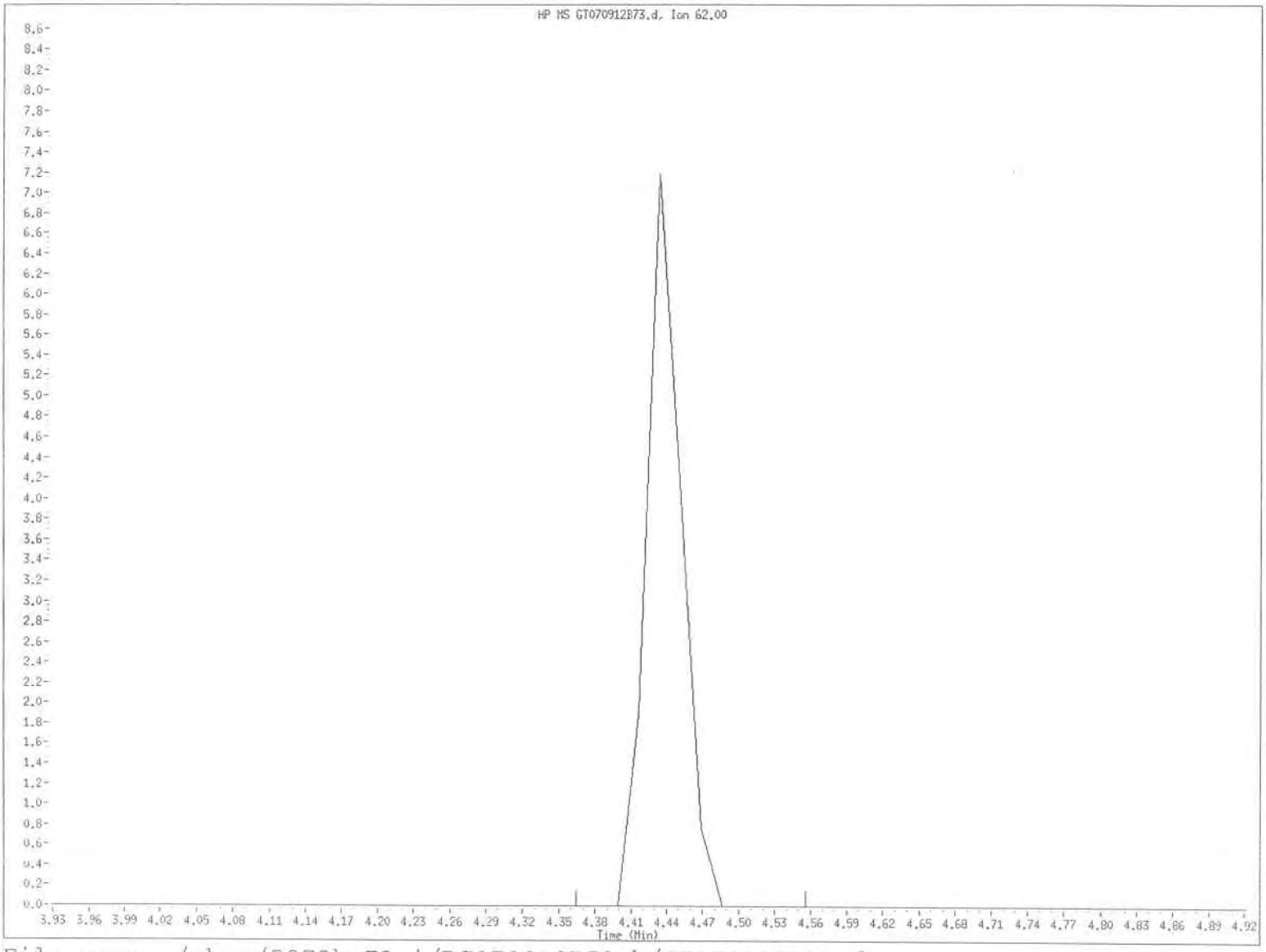
Data File: /chem/5972hp73.i/DG070912B73.b/GT070912B73.d
Report Date: 13-Sep-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.127	14.127	(1.001)	22549	25.0000	25
65 1,2-Dichlorobenzene	146	14.475	14.475	(1.026)	17656	25.0000	24
66 1,2-Dibromo-3-chloropropane	75	15.189	15.189	(1.077)	1011	25.0000	29(M)
67 1,2,4-Trichlorobenzene	180	16.060	16.059	(1.138)	7970	25.0000	23
68 1,2,3-Trichlorobenzene	180	16.687	16.686	(1.183)	6194	25.0000	22

QC Flag Legend

M - Compound response manually integrated.

Vinyl chloride CAS Number 75-01-4 Area = 14467 Manually integrated



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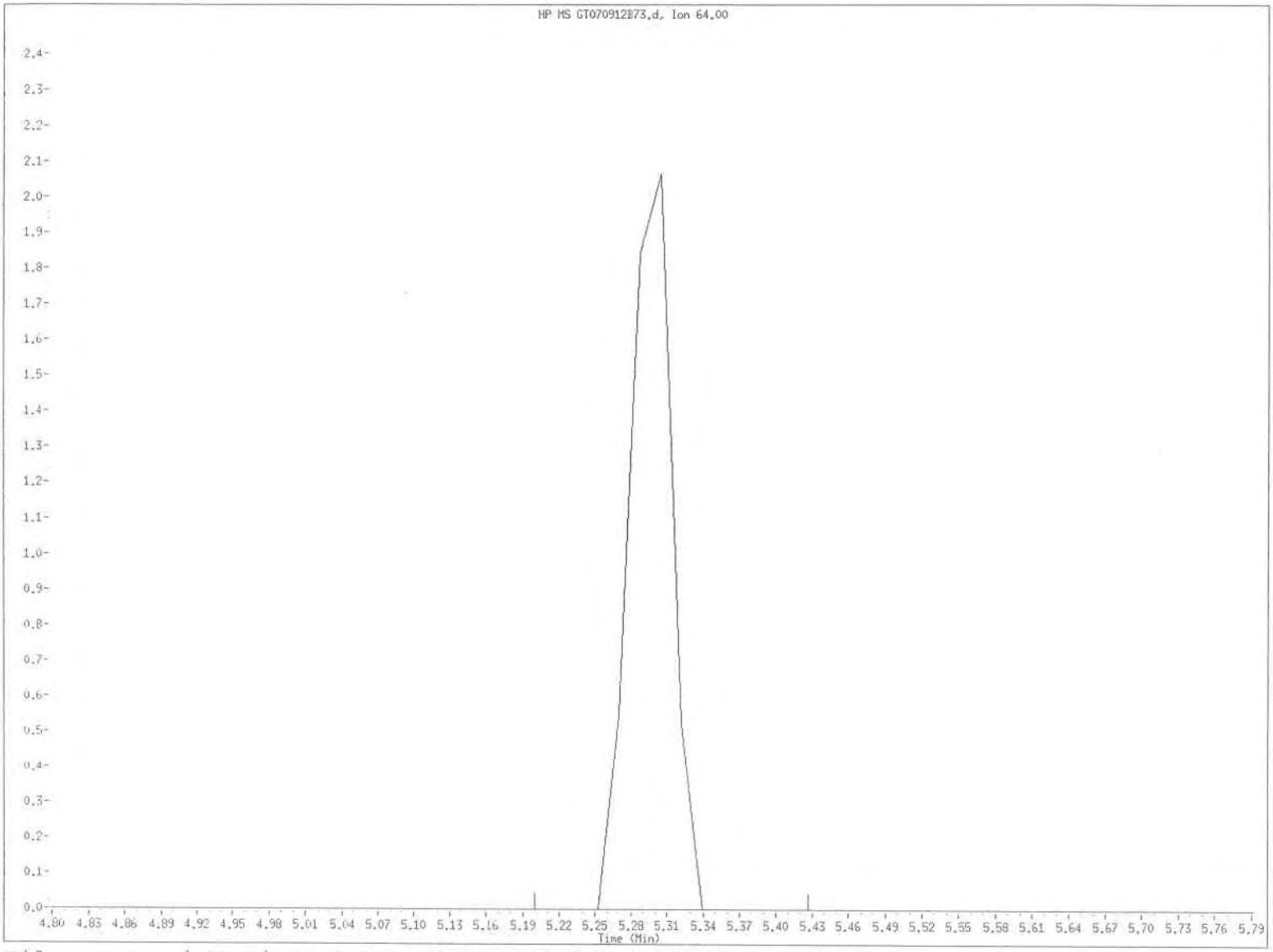
Client ID: VSTD001UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 21:07
Retention Time: 4.43
Operator ID: 2660

Chloroethane CAS Number 75-00-3 Area = 5198 Manually integrated



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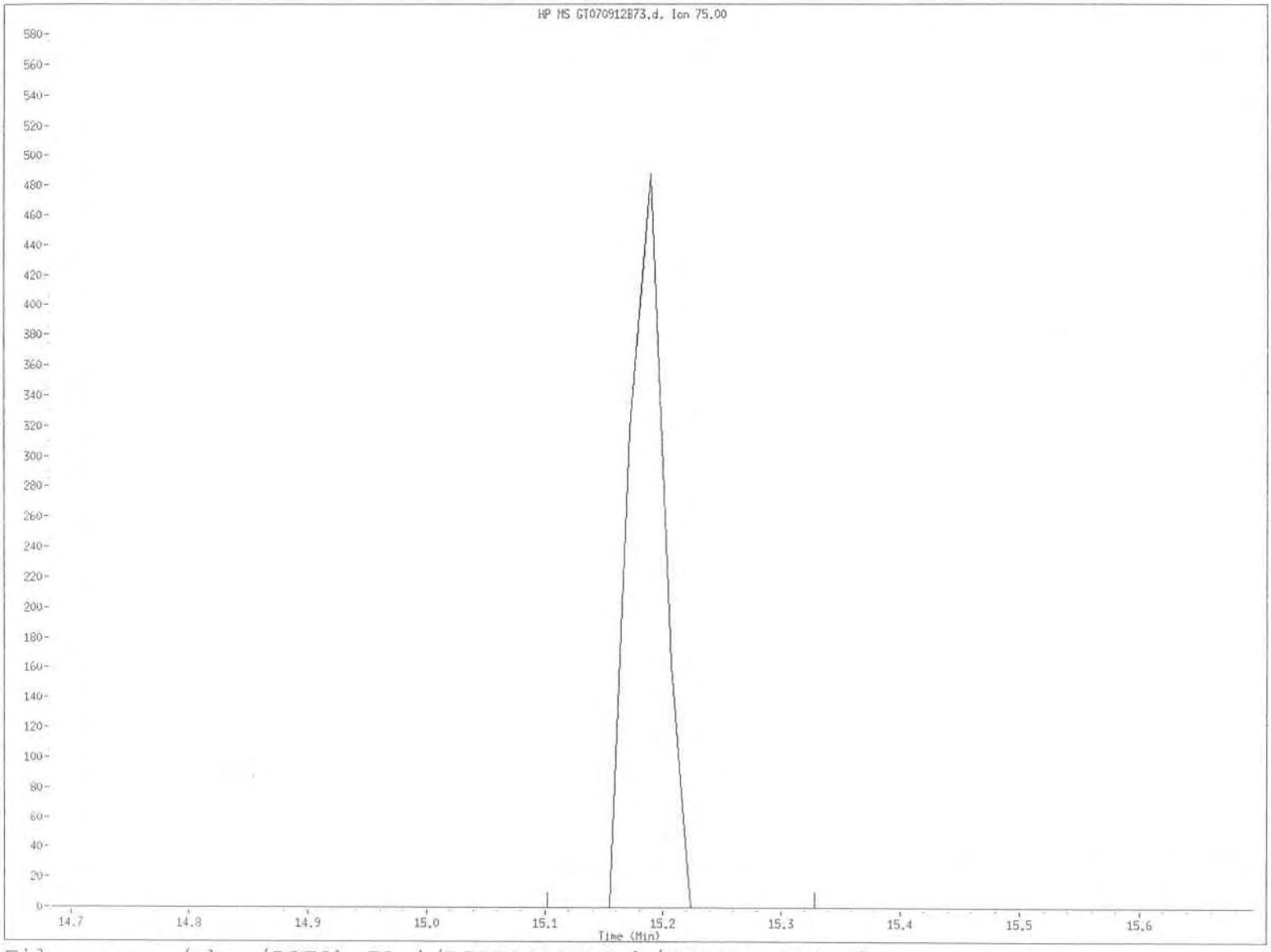
Client ID: VSTD001UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 21:07
Retention Time: 5.30
Operator ID: 2660

1,2-Dibromo-3-chloropropane CAS Number 96-12-8 Area = 1011 Manually integrated



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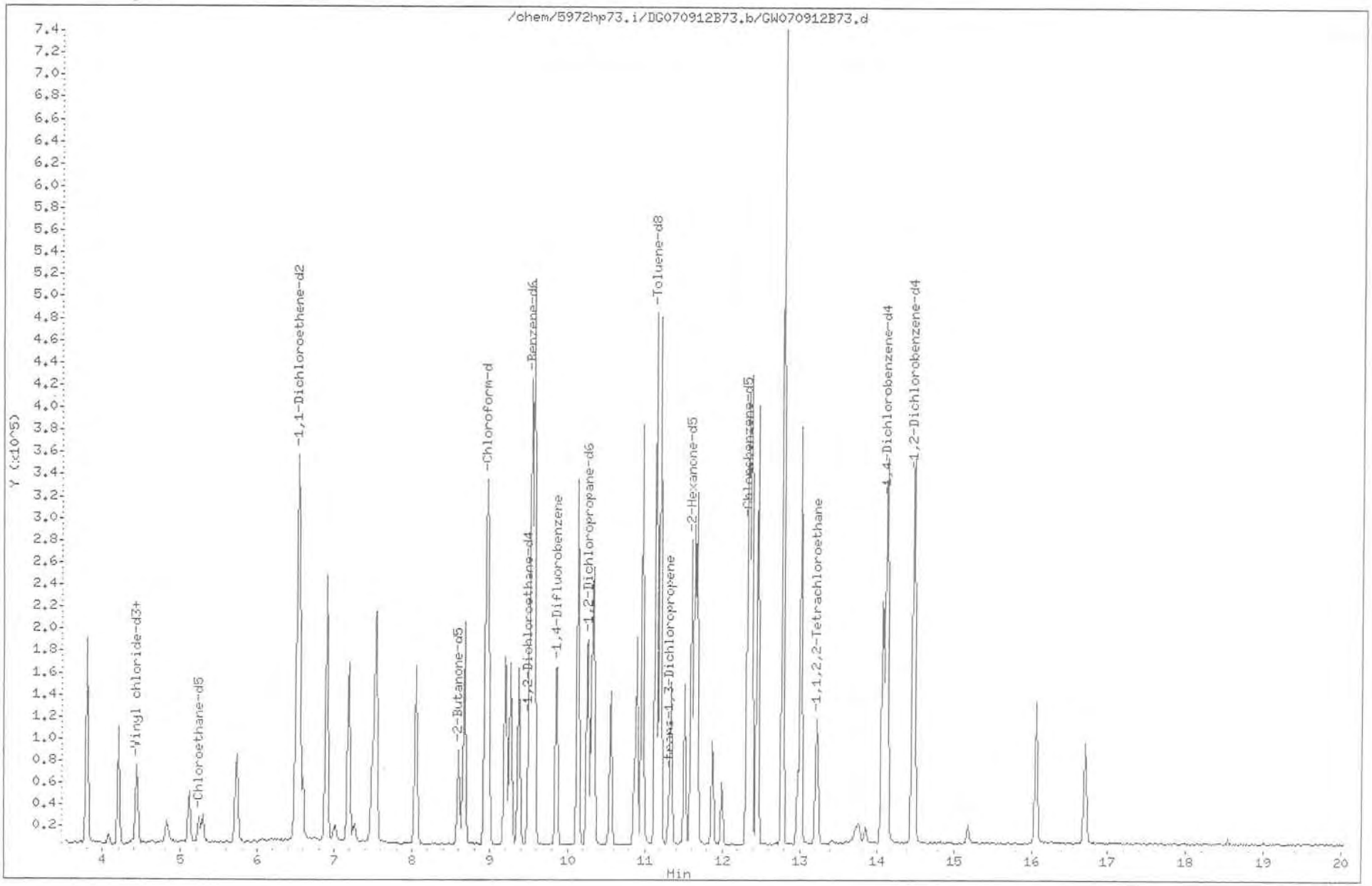
Client ID: VSTD001UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 21:07
Retention Time: 15.19
Operator ID: 2660

Data File: /chem/5972hp73.i/DG070912B73.b/GW070912B73.d
Date : 12-SEP-2007 22:36
Client ID: VSTD005UT
Sample Info: VSTD005UT:2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: 2660
Column diameter: 0.32



Data File: /chem/5972hp73.i/DG070912B73.b/GW070912B73.d
Report Date: 13-Sep-2007 11:22

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/GW070912B73.d
Lab Smp Id: VSTD005UT Client Smp ID: VSTD005UT
Inj Date : 12-SEP-2007 22:36
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VSTD005UT:2660
Misc Info : VMS:1449:150453
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:36 Cal File: GW070912B73.d
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.861	9.861	(1.000)	175279	125.000	
* 2	Chlorobenzene-d5	117	12.316	12.316	(1.000)	145928	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.109	14.109	(1.000)	72521	125.000	
$ 4	Vinyl chloride-d3	65	4.428	4.428	(0.449)	33760	125.000	120
$ 5	Chloroethane-d5	69	5.247	5.247	(0.532)	24166	125.000	130
$ 6	1,1-Dichloroethene-d2	63	6.518	6.518	(0.661)	198810	125.000	120
$ 7	2-Butanone-d5	46	8.590	8.590	(0.871)	114122	1250.00	1300
$ 8	Chloroform-d	84	8.973	8.973	(0.910)	191343	125.000	130
$ 9	1,2-Dichloroethane-d4	65	9.495	9.495	(0.963)	62789	125.000	130
$ 10	Benzene-d6	84	9.530	9.530	(0.774)	405438	125.000	130
$ 11	1,2-Dichloropropane-d6	67	10.261	10.261	(0.833)	110699	125.000	130
$ 12	Toluene-d8	98	11.149	11.149	(0.905)	332938	125.000	130
$ 13	trans-1,3-Dichloropropene-d4	79	11.323	11.323	(0.919)	20837	125.000	140
$ 14	2-Hexanone-d5	63	11.602	11.602	(0.942)	99504	1250.00	1400
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.221	13.221	(1.074)	53697	125.000	120
$ 17	1,2-Dichlorobenzene-d4	152	14.458	14.458	(1.025)	90863	125.000	120

Data File: /chem/5972hp73.i/DG070912B73.b/GW070912B73.d
Report Date: 13-Sep-2007 11:22

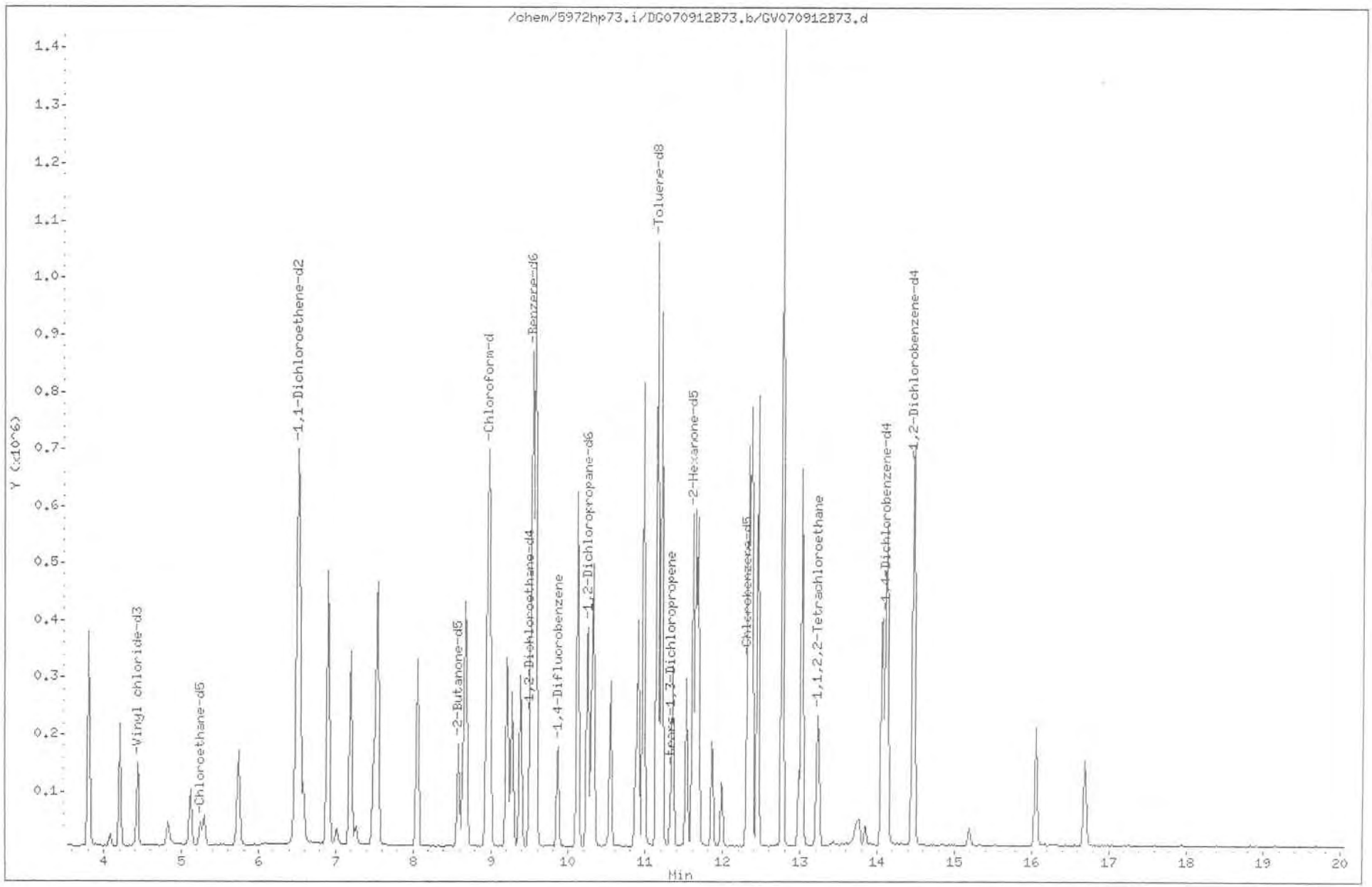
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18	Dichlorodifluoromethane	85	3.801	3.801	(0.386)	200888	125.000	130
19	Chloromethane	50	4.202	4.202	(0.426)	110377	125.000	130
20	Vinyl chloride	62	4.428	4.428	(0.449)	65900	125.000	130
21	Bromomethane	94	5.125	5.125	(0.520)	38821	125.000	120
22	Chloroethane	64	5.299	5.299	(0.537)	25389	125.000	130
23	Trichlorofluoromethane	101	5.734	5.734	(0.582)	95389	125.000	130
24	1,1-Dichloroethene	96	6.535	6.535	(0.663)	103005	125.000	130
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.500	6.500	(0.659)	66579	125.000	130
26	Acetone	43	6.587	6.587	(0.668)	80069	1250.00	1200
27	Carbon disulfide	76	6.901	6.901	(0.700)	418688	125.000	130
28	Methyl acetate	43	7.023	7.023	(0.712)	19701	125.000	120
29	Bromochloromethane	128	8.955	8.955	(0.908)	42277	125.000	130
30	Methylene chloride	84	7.197	7.197	(0.730)	98321	125.000	120
107	tertiary butyl alcohol	59	7.266	7.266	(0.737)	19529	1250.00	1300
31	trans-1,2-Dichloroethene	96	7.545	7.545	(0.765)	117769	125.000	130
32	Methyl tert-butyl ether	73	7.493	7.493	(0.760)	103863	125.000	130
33	1,1-Dichloroethane	63	8.050	8.050	(0.816)	177623	125.000	130
34	cis-1,2-Dichloroethene	96	8.694	8.694	(0.882)	106379	125.000	130
35	2-Butanone	43	8.659	8.659	(0.878)	119156	1250.00	1300
36	Chloroform	83	8.990	8.990	(0.912)	177791	125.000	130
37	1,1,1-Trichloroethane	97	9.199	9.199	(0.747)	135186	125.000	130
38	Cyclohexane	56	9.269	9.269	(0.753)	76389	125.000	120
39	Carbon tetrachloride	117	9.373	9.373	(0.761)	110432	125.000	140
40	Benzene	78	9.565	9.565	(0.777)	382972	125.000	130
41	1,2-Dichloroethane	62	9.565	9.565	(0.970)	73810	125.000	130
42	Trichloroethene	95	10.122	10.122	(0.822)	107999	125.000	140
43	Methylcyclohexane	83	10.313	10.313	(0.837)	63617	125.000	160
44	1,2-Dichloropropane	63	10.331	10.331	(0.839)	84587	125.000	130
45	Bromodichloromethane	83	10.557	10.557	(0.857)	102552	125.000	130
46	cis-1,3-Dichloropropene	75	10.905	10.905	(0.885)	104029	125.000	130
47	4-Methyl-2-pentanone	43	10.975	10.975	(0.891)	271027	1250.00	1400
48	Toluene	91	11.201	11.201	(0.910)	350288	125.000	140
49	trans-1,3-Dichloropropene	75	11.341	11.341	(0.921)	75722	125.000	130
50	1,1,2-Trichloroethane	97	11.515	11.515	(0.935)	47428	125.000	130
51	Tetrachloroethene	164	11.672	11.672	(0.948)	74065	125.000	140
52	2-Hexanone	43	11.637	11.637	(0.945)	205383	1250.00	1400
53	Dibromochloromethane	129	11.863	11.863	(0.963)	58220	125.000	130
54	1,2-Dibromoethane	107	11.985	11.985	(0.973)	44190	125.000	130
55	Chlorobenzene	112	12.333	12.333	(1.001)	216064	125.000	140
56	Ethylbenzene	91	12.368	12.368	(1.004)	333984	125.000	150
57	m,p-Xylene	106	12.455	12.455	(1.011)	126013	125.000	150
58	o-Xylene	106	12.769	12.769	(1.037)	117605	125.000	150
59	Styrene	104	12.769	12.769	(1.037)	164688	125.000	150
60	Bromoform	173	12.978	12.978	(0.920)	30405	125.000	130
61	Isopropylbenzene	105	13.012	13.012	(1.057)	278572	125.000	150
62	1,1,2,2-Tetrachloroethane	83	13.239	13.239	(1.075)	46666	125.000	130
63	1,3-Dichlorobenzene	146	14.075	14.075	(0.998)	133775	125.000	130

Data File: /chem/5972hp73.i/DG070912B73.b/GW070912B73.d
Report Date: 13-Sep-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.127	14.127	(1.001)	144871	125.000	140
65 1,2-Dichlorobenzene	146	14.475	14.475	(1.026)	113027	125.000	140
66 1,2-Dibromo-3-chloropropane	75	15.189	15.189	(1.077)	4799	125.000	120
67 1,2,4-Trichlorobenzene	180	16.059	16.059	(1.138)	57756	125.000	150
68 1,2,3-Trichlorobenzene	180	16.686	16.686	(1.183)	48486	125.000	150

Data File: /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Date : 12-SEP-2007 22:06
Client ID: VSTD010UT
Sample Info: VSTD010UT;2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: 2660
Column diameter: 0.32



Data File: /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Report Date: 13-Sep-2007 11:22

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Lab Smp Id: VSTD010UT Client Smp ID: VSTD010UT
Inj Date : 12-SEP-2007 22:06
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VSTD010UT:2660
Misc Info : VMS:1449:150454
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:06 Cal File: GV070912B73.d
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Difluorobenzene	114	9.860	9.861	(1.000)	183489	125.000	
* 2 Chlorobenzene-d5	117	12.315	12.316	(1.000)	155723	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.109	14.109	(1.000)	75149	125.000	
$ 4 Vinyl chloride-d3	65	4.428	4.428	(0.449)	68272	250.000	230
$ 5 Chloroethane-d5	69	5.246	5.247	(0.532)	47266	250.000	240
$ 6 1,1-Dichloroethene-d2	63	6.517	6.518	(0.661)	420960	250.000	250
$ 7 2-Butanone-d5	46	8.589	8.590	(0.871)	237273	2500.00	2600
$ 8 Chloroform-d	84	8.972	8.973	(0.910)	391792	250.000	250
$ 9 1,2-Dichloroethane-d4	65	9.494	9.495	(0.963)	124729	250.000	250
$ 10 Benzene-d6	84	9.529	9.530	(0.774)	829764	250.000	250
$ 11 1,2-Dichloropropane-d6	67	10.261	10.261	(0.833)	222345	250.000	240(M)
$ 12 Toluene-d8	98	11.149	11.149	(0.905)	710590	250.000	260
$ 13 trans-1,3-Dichloropropene-d4	79	11.323	11.323	(0.919)	42167	250.000	260
$ 14 2-Hexanone-d5	63	11.601	11.602	(0.942)	219491	2500.00	2900
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.221	13.221	(1.074)	112040	250.000	240
$ 17 1,2-Dichlorobenzene-d4	152	14.457	14.458	(1.025)	191159	250.000	250

Data File: /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Report Date: 13-Sep-2007 11:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18	Dichlorodifluoromethane	85	3.801	3.801	(0.385)	421416	250.000	260
19	Chloromethane	50	4.202	4.202	(0.426)	216859	250.000	240
20	Vinyl chloride	62	4.445	4.428	(0.451)	135153	250.000	250
21	Bromomethane	94	5.124	5.125	(0.520)	79552	250.000	230
22	Chloroethane	64	5.299	5.299	(0.537)	49665	250.000	250
23	Trichlorofluoromethane	101	5.734	5.734	(0.582)	194883	250.000	250
24	1,1-Dichloroethene	96	6.534	6.535	(0.663)	213182	250.000	250
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.499	6.500	(0.659)	135824	250.000	250
26	Acetone	43	6.587	6.587	(0.668)	157221	2500.00	2200
27	Carbon disulfide	76	6.900	6.901	(0.700)	849409	250.000	250
28	Methyl acetate	43	7.022	7.023	(0.712)	40531	250.000	240
29	Bromochloromethane	128	8.955	8.955	(0.908)	83042	250.000	240
30	Methylene chloride	84	7.196	7.197	(0.730)	202523	250.000	250
107	tertiary butyl alcohol	59	7.266	7.266	(0.737)	39686	2500.00	2500
31	trans-1,2-Dichloroethene	96	7.544	7.545	(0.765)	247077	250.000	260
32	Methyl tert-butyl ether	73	7.492	7.493	(0.760)	222689	250.000	260
33	1,1-Dichloroethane	63	8.049	8.050	(0.816)	363077	250.000	250
34	cis-1,2-Dichloroethene	96	8.693	8.694	(0.882)	228948	250.000	270
35	2-Butanone	43	8.659	8.659	(0.878)	249158	2500.00	2600
36	Chloroform	83	8.989	8.990	(0.912)	351966	250.000	250
37	1,1,1-Trichloroethane	97	9.198	9.199	(0.747)	265963	250.000	240
38	Cyclohexane	56	9.268	9.269	(0.753)	127236	250.000	180
39	Carbon tetrachloride	117	9.372	9.373	(0.761)	209948	250.000	240
40	Benzene	78	9.564	9.565	(0.777)	776064	250.000	250
41	1,2-Dichloroethane	62	9.564	9.565	(0.970)	146975	250.000	250
42	Trichloroethene	95	10.121	10.122	(0.822)	210732	250.000	250
43	Methylcyclohexane	83	10.313	10.313	(0.837)	100018	250.000	230
44	1,2-Dichloropropane	63	10.330	10.331	(0.839)	167954	250.000	250
45	Bromodichloromethane	83	10.556	10.557	(0.857)	203555	250.000	250
46	cis-1,3-Dichloropropene	75	10.905	10.905	(0.885)	228093	250.000	270
47	4-Methyl-2-pentanone	43	10.974	10.975	(0.891)	583433	2500.00	2700
48	Toluene	91	11.201	11.201	(0.909)	694147	250.000	260
49	trans-1,3-Dichloropropene	75	11.340	11.341	(0.921)	162203	250.000	260
50	1,1,2-Trichloroethane	97	11.514	11.515	(0.935)	95432	250.000	250
51	Tetrachloroethene	164	11.671	11.672	(0.948)	135535	250.000	250
52	2-Hexanone	43	11.636	11.637	(0.945)	413560	2500.00	2600
53	Dibromochloromethane	129	11.862	11.863	(0.963)	119288	250.000	250
54	1,2-Dibromoethane	107	11.984	11.985	(0.973)	92351	250.000	260
55	Chlorobenzene	112	12.333	12.333	(1.001)	425532	250.000	250
56	Ethylbenzene	91	12.367	12.368	(1.004)	628482	250.000	260
57	m,p-Xylene	106	12.454	12.455	(1.011)	244590	250.000	270
58	o-Xylene	106	12.768	12.769	(1.037)	230622	250.000	270
59	Styrene	104	12.768	12.769	(1.037)	329866	250.000	280
60	Bromoform	173	12.977	12.978	(0.920)	64034	250.000	250
61	Isopropylbenzene	105	13.012	13.012	(1.057)	504152	250.000	260
62	1,1,2,2-Tetrachloroethane	83	13.238	13.239	(1.075)	92954	250.000	240
63	1,3-Dichlorobenzene	146	14.074	14.075	(0.998)	262302	250.000	250

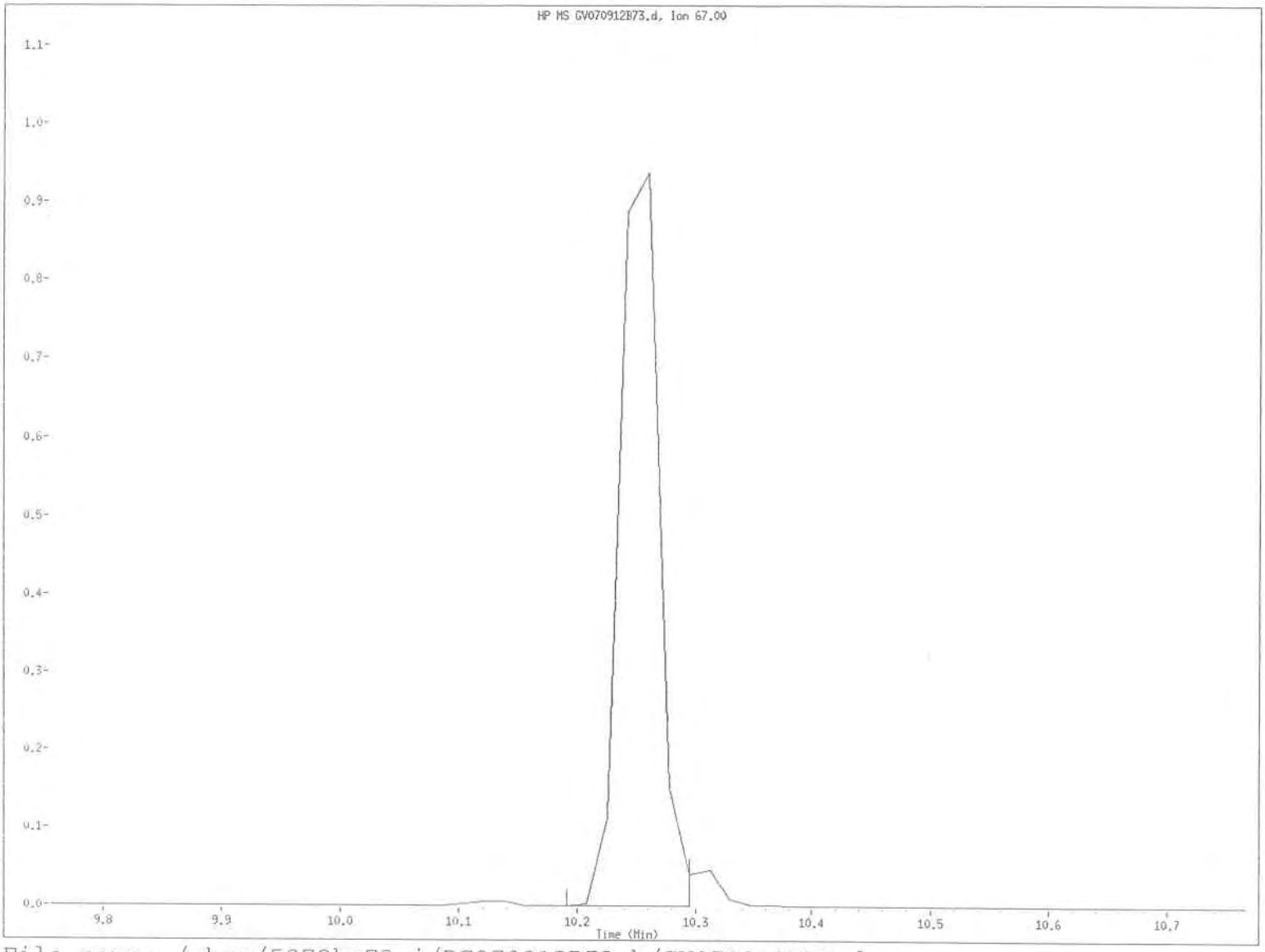
Data File: /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Report Date: 13-Sep-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.126	14.127	(1.001)	248236	250.000	240
65 1,2-Dichlorobenzene	146	14.474	14.475	(1.026)	205815	250.000	240
66 1,2-Dibromo-3-chloropropane	75	15.188	15.189	(1.077)	8553	250.000	210
67 1,2,4-Trichlorobenzene	180	16.059	16.059	(1.138)	95143	250.000	240
68 1,2,3-Trichlorobenzene	180	16.686	16.686	(1.183)	76151	250.000	230

QC Flag Legend

M - Compound response manually integrated.

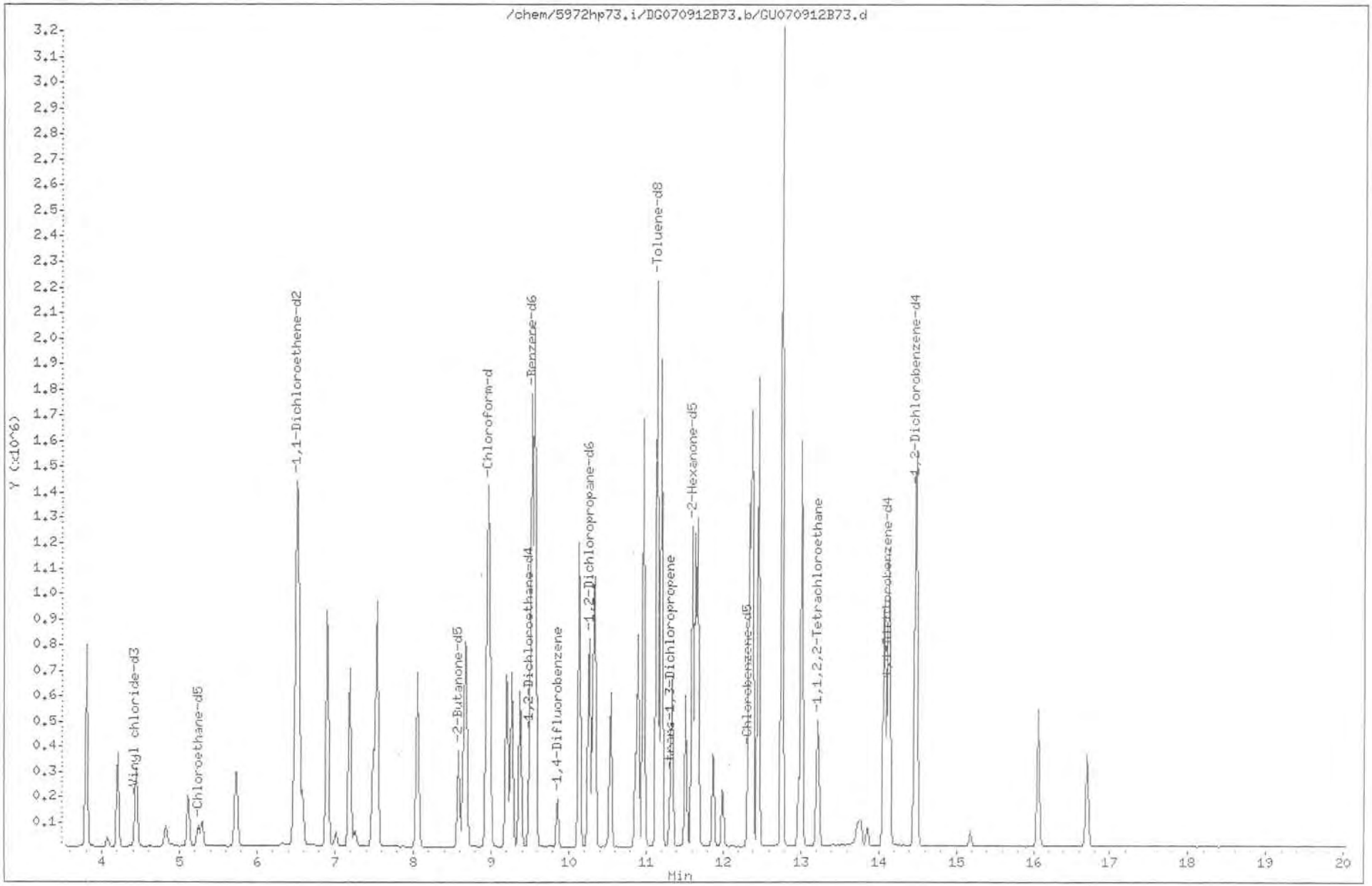
1,2-Dichloropropane-d6 CAS Number 93952-08-0 Area = 222345 Manually integrated



File name: /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Client ID: VSTD010UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 22:06
Retention Time: 10.26
Operator ID: 2660

Data File: /chem/5972hp73.i/DG070912B73.b/GU070912B73.d
Date : 12-SEP-2007 21:37
Client ID: VSTD020UT
Sample Info: VSTD020UT:2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i
Operator: 2660
Column diameter: 0.32



Data File: /chem/5972hp73.i/DG070912B73.b/GU070912B73.d
Report Date: 13-Sep-2007 11:22

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/GU070912B73.d
Lab Smp Id: VSTD020UT Client Smp ID: VSTD020UT
Inj Date : 12-SEP-2007 21:37
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VSTD020UT:2660
Misc Info : VMS:1449:150455
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 21:37 Cal File: GU070912B73.d
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.860	9.861	(1.000)	190216	125.000	
* 2	Chlorobenzene-d5	117	12.315	12.316	(1.000)	162680	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.108	14.109	(1.000)	81724	125.000	
$ 4	Vinyl chloride-d3	65	4.415	4.428	(0.448)	142883	500.000	470
$ 5	Chloroethane-d5	69	5.251	5.247	(0.533)	98881	500.000	490
$ 6	1,1-Dichloroethene-d2	63	6.516	6.518	(0.661)	896589	500.000	510(A)
$ 7	2-Butanone-d5	46	8.589	8.590	(0.871)	508116	5000.00	5400(A)
$ 8	Chloroform-d	84	8.972	8.973	(0.910)	806729	500.000	490
$ 9	1,2-Dichloroethane-d4	65	9.494	9.495	(0.963)	260494	500.000	490
$ 10	Benzene-d6	84	9.529	9.530	(0.774)	1707603	500.000	490
$ 11	1,2-Dichloropropane-d6	67	10.260	10.261	(0.833)	462753	500.000	480(M)
$ 12	Toluene-d8	98	11.148	11.149	(0.905)	1522728	500.000	540(A)
$ 13	trans-1,3-Dichloropropene-d4	79	11.322	11.323	(0.919)	95189	500.000	550(A)
$ 14	2-Hexanone-d5	63	11.601	11.602	(0.942)	483189	5000.00	6100(A)
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.220	13.221	(1.074)	237227	500.000	490
$ 17	1,2-Dichlorobenzene-d4	152	14.456	14.458	(1.025)	416529	500.000	500

Data File: /chem/5972hp73.i/DG070912B73.b/GU070912B73.d
Report Date: 13-Sep-2007 11:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18	Dichlorodifluoromethane	85	3.806	3.801	(0.386)	839181	500.000	490
19	Chloromethane	50	4.206	4.202	(0.427)	447768	500.000	470
20	Vinyl chloride	62	4.433	4.428	(0.450)	281065	500.000	490
21	Bromomethane	94	5.112	5.125	(0.518)	167276	500.000	460
22	Chloroethane	64	5.303	5.299	(0.538)	106122	500.000	510(A)
23	Trichlorofluoromethane	101	5.738	5.734	(0.582)	392245	500.000	490
24	1,1-Dichloroethene	96	6.534	6.535	(0.663)	453427	500.000	520(A)
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.499	6.500	(0.659)	309220	500.000	550(A)
26	Acetone	43	6.586	6.587	(0.668)	318815	5000.00	4400
27	Carbon disulfide	76	6.900	6.901	(0.700)	1746285	500.000	490
28	Methyl acetate	43	7.021	7.023	(0.712)	86175	500.000	490
29	Bromochloromethane	128	8.954	8.955	(0.908)	177183	500.000	490
30	Methylene chloride	84	7.196	7.197	(0.730)	409944	500.000	480
107	tertiary butyl alcohol	59	7.265	7.266	(0.737)	83770	5000.00	5000(A)
31	trans-1,2-Dichloroethene	96	7.544	7.545	(0.765)	500339	500.000	500(A)
32	Methyl tert-butyl ether	73	7.492	7.493	(0.760)	484786	500.000	550(A)
33	1,1-Dichloroethane	63	8.049	8.050	(0.816)	748996	500.000	490
34	cis-1,2-Dichloroethene	96	8.693	8.694	(0.882)	462641	500.000	520(A)
35	2-Butanone	43	8.658	8.659	(0.878)	499722	5000.00	5000
36	Chloroform	83	8.989	8.990	(0.912)	727079	500.000	490
37	1,1,1-Trichloroethane	97	9.198	9.199	(0.747)	535186	500.000	470
38	Cyclohexane	56	9.268	9.269	(0.753)	346978	500.000	470
39	Carbon tetrachloride	117	9.372	9.373	(0.761)	438570	500.000	490
40	Benzene	78	9.564	9.565	(0.777)	1558908	500.000	480
41	1,2-Dichloroethane	62	9.564	9.565	(0.970)	301169	500.000	490
42	Trichloroethene	95	10.121	10.122	(0.822)	436999	500.000	500
43	Methylcyclohexane	83	10.312	10.313	(0.837)	326788	500.000	720(A)
44	1,2-Dichloropropane	63	10.330	10.331	(0.839)	336844	500.000	480
45	Bromodichloromethane	83	10.556	10.557	(0.857)	424987	500.000	500
46	cis-1,3-Dichloropropene	75	10.904	10.905	(0.885)	481943	500.000	550(A)
47	4-Methyl-2-pentanone	43	10.974	10.975	(0.891)	1209831	5000.00	5500(A)
48	Toluene	91	11.200	11.201	(0.909)	1452810	500.000	520(A)
49	trans-1,3-Dichloropropene	75	11.340	11.341	(0.921)	343766	500.000	530(A)
50	1,1,2-Trichloroethane	97	11.514	11.515	(0.935)	193270	500.000	490
51	Tetrachloroethene	164	11.671	11.672	(0.948)	314439	500.000	550(A)
52	2-Hexanone	43	11.636	11.637	(0.945)	876595	5000.00	5300(A)
53	Dibromochloromethane	129	11.879	11.863	(0.965)	252752	500.000	510(A)
54	1,2-Dibromoethane	107	11.984	11.985	(0.973)	192104	500.000	510(A)
55	Chlorobenzene	112	12.350	12.333	(1.003)	902369	500.000	510(A)
56	Ethylbenzene	91	12.367	12.368	(1.004)	1451491	500.000	570(A)
57	m,p-Xylene	106	12.454	12.455	(1.011)	575321	500.000	610(A)
58	o-Xylene	106	12.767	12.769	(1.037)	534567	500.000	600(A)
59	Styrene	104	12.767	12.769	(1.037)	753624	500.000	620(A)
60	Bromoform	173	12.976	12.978	(0.920)	134296	500.000	490
61	Isopropylbenzene	105	13.011	13.012	(1.057)	1281796	500.000	630(A)
62	1,1,2,2-Tetrachloroethane	83	13.238	13.239	(1.075)	197569	500.000	500
63	1,3-Dichlorobenzene	146	14.073	14.075	(0.998)	623499	500.000	550(A)

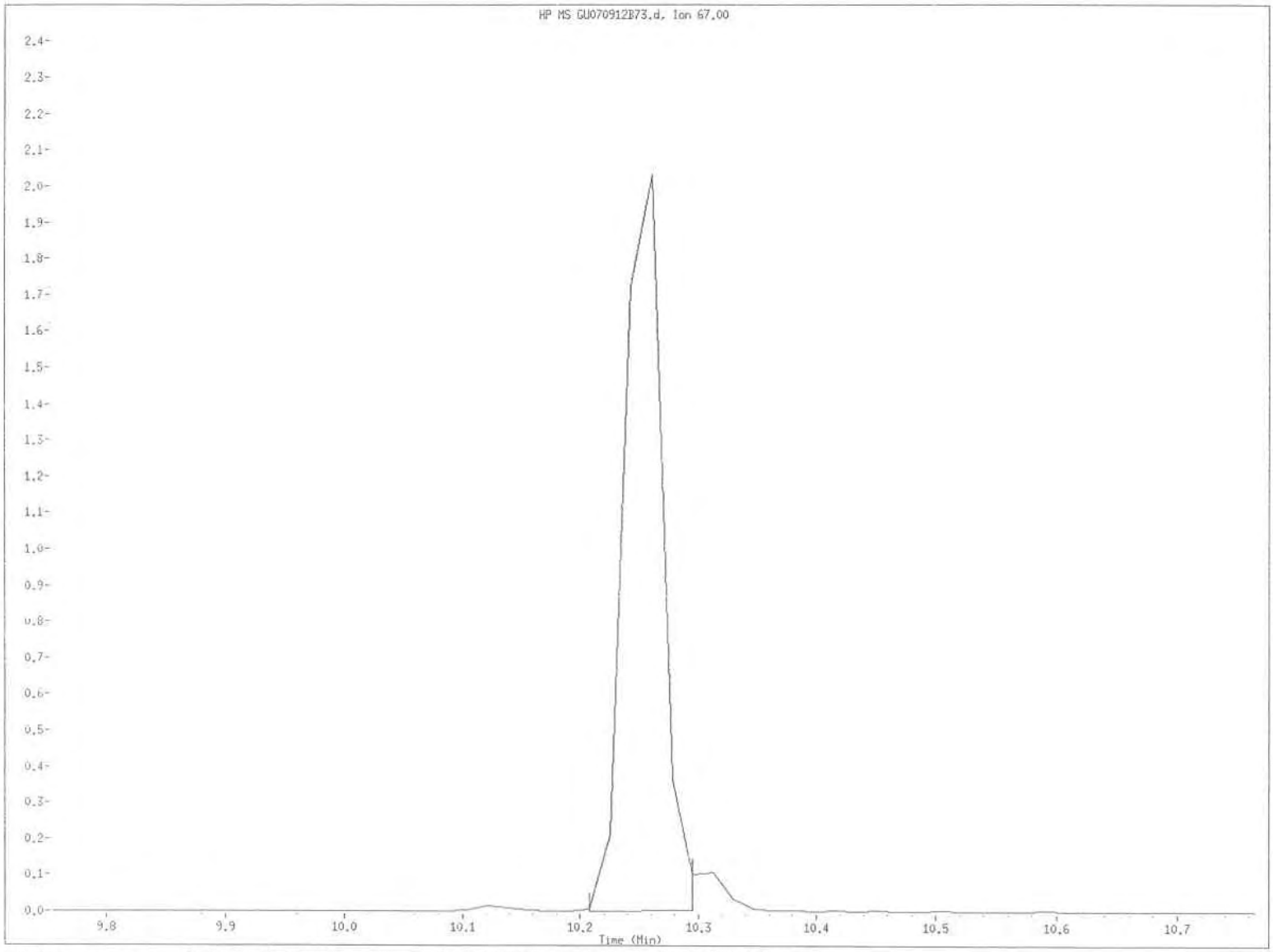
Data File: /chem/5972hp73.i/DG070912B73.b/GU070912B73.d
Report Date: 13-Sep-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.126	14.127	(1.001)	584944	500.000	510(A)
65 1,2-Dichlorobenzene	146	14.474	14.475	(1.026)	486116	500.000	530(A)
66 1,2-Dibromo-3-chloropropane	75	15.188	15.189	(1.077)	17805	500.000	400
67 1,2,4-Trichlorobenzene	180	16.058	16.059	(1.138)	256295	500.000	580(A)
68 1,2,3-Trichlorobenzene	180	16.685	16.686	(1.183)	195459	500.000	550(A)

QC Flag Legend

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

1,2-Dichloropropane-d6 CAS Number 93952-08-0 Area = 462753 Manually integrated



File name: /chem/5972hp73.i/DG070912B73.b/GU070912B73.d
Client ID: VSTD020UT
Instrument ID: 5972hp73.i
Injection Date and Time: 12-SEP-2007 21:37
Retention Time: 10.26
Operator ID: 2660

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date(s): 08/23/2007 08/23/2007

Heated Purge: (Y/N) Y Calibration Time(s): 11:51 13:46

Purge Volume: 25.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

LAB FILE ID: RRF0.5 = GT070823A90 RRF1.0 = GS070823A90
RRF5.0 = GW070823A90 RRF10 = GV070823A90 RRF20 = GU070823A90

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	1.162	1.186	1.205	1.150	1.039	1.148	5.6
Chloromethane	0.639	0.610	0.622	0.592	0.525	0.598	7.4
Vinyl chloride	0.658	0.638	0.676	0.638	0.582	0.638	5.5
Bromomethane	0.428	0.452	0.463	0.440	0.418	0.440	4.1
Chloroethane	0.388	0.314	0.325	0.308	0.294	0.326	11.1
Trichlorofluoromethane	1.332	1.321	1.317	1.231	1.190	1.278	5.0
1,1-Dichloroethene	0.546	0.538	0.450	0.425	0.409	0.474	13.5
1,1,2-Trichloro-1,2,2-trifluoroethane	0.630	0.646	0.534	0.492	0.472	0.555	14.3
Acetone	0.035	0.033	0.026	0.024	0.022	0.028	19.8
Carbon disulfide	1.616	1.647	1.518	1.471	1.434	1.537	6.0
Methyl acetate	0.083	0.082	0.075	0.069	0.061	0.074	12.5
Methylene chloride	0.452	0.464	0.403	0.382	0.361	0.413	10.7
trans-1,2-Dichloroethene	0.622	0.595	0.520	0.495	0.477	0.542	11.7
Methyl tert-butyl ether	0.813	0.888	0.734	0.725	0.680	0.768	10.7
1,1-Dichloroethane	0.803	0.809	0.753	0.727	0.689	0.756	6.7
cis-1,2-Dichloroethene	0.369	0.392	0.345	0.333	0.315	0.351	8.6
2-Butanone	0.048	0.050	0.045	0.044	0.040	0.045	8.3
Bromochloromethane	0.153	0.150	0.131	0.125	0.120	0.136	11.0
Chloroform	0.919	0.897	0.747	0.706	0.669	0.788	14.4
1,1,1-Trichloroethane	1.148	1.094	0.963	0.888	0.862	0.991	12.7
Cyclohexane	0.540	0.610	0.515	0.460	0.464	0.518	11.9
Carbon tetrachloride	1.055	1.052	0.904	0.831	0.805	0.930	12.8
Benzene	1.493	1.548	1.330	1.231	1.195	1.359	11.5
1,2-Dichloroethane	0.487	0.514	0.444	0.416	0.391	0.450	11.2
Trichloroethene	0.464	0.494	0.447	0.420	0.411	0.447	7.5
Methylcyclohexane	0.622	0.711	0.555	0.489	0.495	0.574	16.3

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date(s): 08/23/2007 08/23/2007

Heated Purge: (Y/N) Y Calibration Time(s): 11:51 13:46

Purge Volume: 25.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

LAB FILE ID: RRF0.5 = GT070823A90 RRF1.0 = GS070823A90
RRF5.0 = GW070823A90 RRF10 = GV070823A90 RRF20 = GU070823A90

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF20	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.345	0.350	0.323	0.295	0.272	0.317	10.4
Bromodichloromethane	0.625	0.631	0.586	0.554	0.525	0.585	7.8
cis-1,3-Dichloropropene	0.497	0.572	0.536	0.518	0.494	0.523	6.1
4-Methyl-2-pentanone	0.107	0.127	0.120	0.113	0.101	0.113	9.0
Toluene	1.615	1.659	1.509	1.410	1.371	1.513	8.3
trans-1,3-Dichloropropene	0.444	0.486	0.448	0.450	0.439	0.454	4.1
1,1,2-Trichloroethane	0.196	0.220	0.195	0.187	0.178	0.195	8.2
Tetrachloroethene	0.375	0.418	0.321	0.299	0.300	0.343	15.3
2-Hexanone	0.075	0.092	0.086	0.080	0.072	0.081	9.9
Dibromochloromethane	0.325	0.357	0.325	0.322	0.317	0.329	4.8
1,2-Dibromoethane	0.202	0.215	0.195	0.199	0.190	0.200	4.6
Chlorobenzene	0.980	1.035	0.950	0.917	0.908	0.958	5.4
Ethylbenzene	1.884	2.014	1.806	1.661	1.642	1.801	8.7
o-Xylene	0.590	0.702	0.646	0.619	0.635	0.638	6.4
m,p-Xylene	0.646	0.759	0.669	0.616	0.636	0.665	8.4
Styrene	0.781	0.904	0.902	0.856	0.855	0.860	5.8
Bromoform	0.320	0.340	0.325	0.328	0.323	0.327	2.4
Isopropylbenzene	1.899	2.076	1.769	1.646	1.675	1.813	9.8
1,1,2,2-Tetrachloroethane	0.220	0.235	0.211	0.202	0.187	0.211	8.6
1,3-Dichlorobenzene	1.546	1.759	1.520	1.403	1.383	1.522	9.9
1,4-Dichlorobenzene	1.538	1.622	1.417	1.336	1.298	1.442	9.4
1,2-Dichlorobenzene	1.250	1.378	1.193	1.134	1.088	1.208	9.3
1,2-Dibromo-3-chloropropane	0.094	0.105	0.093	0.091	0.086	0.094	7.5
1,2,4-Trichlorobenzene	0.946	1.114	0.900	0.853	0.864	0.936	11.4
1,2,3-Trichlorobenzene	0.746	0.898	0.730	0.685	0.685	0.749	11.7
tertiary butyl alcohol	0.016	0.017	0.014	0.014	0.013	0.015	11.6

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391. SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date(s): 08/23/2007 08/23/2007

Heated Purge: (Y/N) Y Calibration Time(s): 11:51 13:46

Purge Volume: 25.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

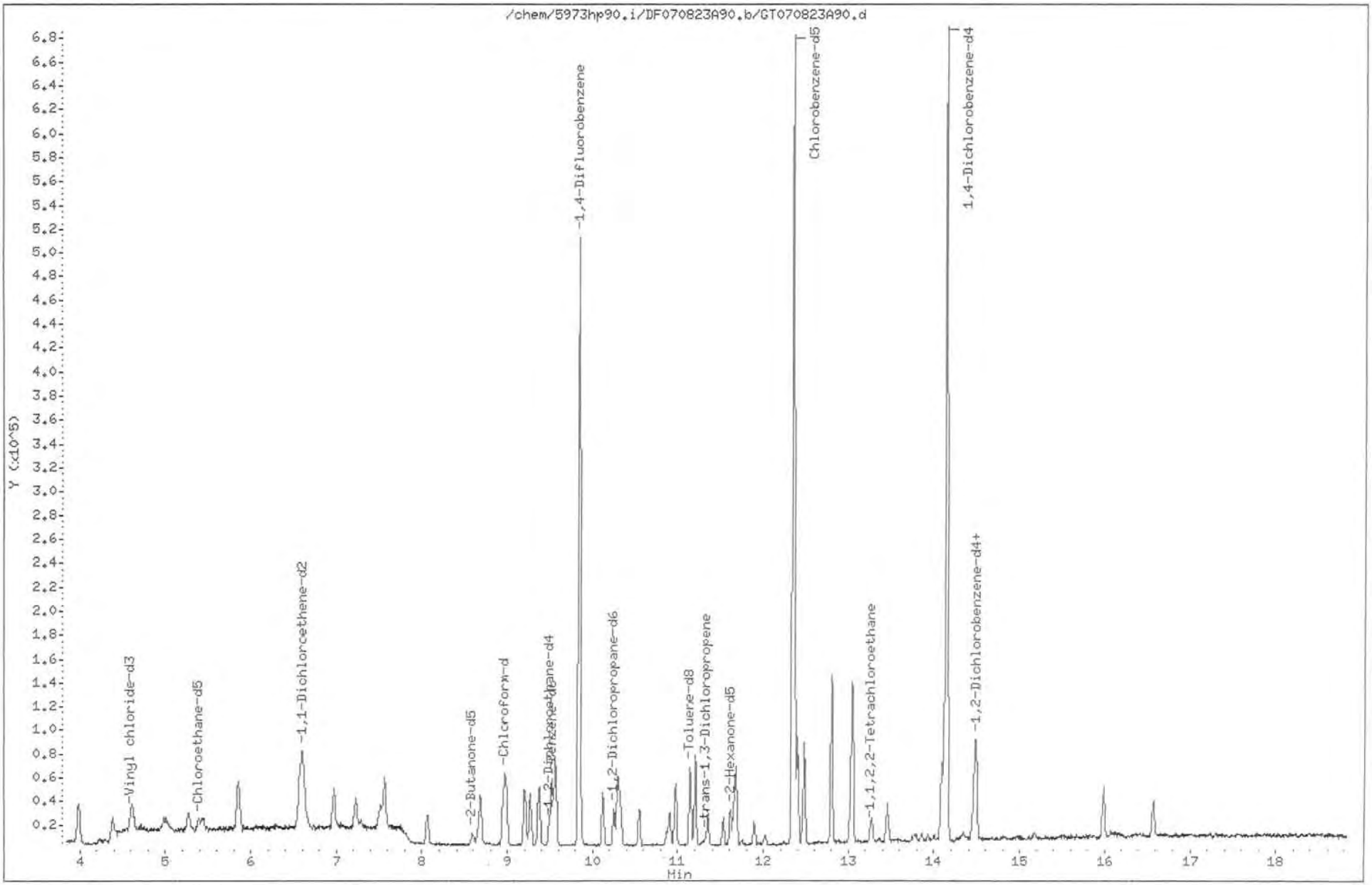
LAB FILE ID: RRF0.5 = GT070823A90 RRF1.0 = GS070823A90
RRF5.0 = GW070823A90 RRF10 = GV070823A90 RRF020 = GU070823A90

COMPOUND	RRF0.5	RRF1.0	RRF5.0	RRF10	RRF020	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.359	0.355	0.304	0.290	0.265	0.314	13.1
Chloroethane-d5	0.288	0.280	0.261	0.252	0.239	0.264	7.5
1,1-Dichloroethene-d2	1.006	0.950	0.821	0.765	0.727	0.854	14.0
2-Butanone-d5	0.042	0.062	0.044	0.045	0.042	0.047	18.3
Chloroform-d	0.942	0.966	0.837	0.788	0.735	0.854	11.6
1,2-Dichloroethane-d4	0.421	0.441	0.379	0.368	0.343	0.391	10.3
Benzene-d6	1.445	1.480	1.283	1.199	1.168	1.315	10.8
1,2-Dichloropropane-d6	0.400	0.419	0.372	0.352	0.328	0.374	9.8
Toluene-d8	1.321	1.427	1.308	1.250	1.224	1.306	6.0
trans-1,3-Dichloropropene-d4	0.126	0.134	0.110	0.116	0.119	0.121	7.6
2-Hexanone-d5	0.030	0.055	0.041	0.040	0.038	0.041	22.2
1,1,2,2-Tetrachloroethane-d2	0.225	0.231	0.213	0.212	0.197	0.216	6.1
1,2-Dichlorobenzene-d4	0.843	0.901	0.840	0.821	0.828	0.847	3.8

ORIGINAL

Data File: /chem/5973hp90.i/DF070823A90.b/GT070823A90.d
Date : 23-AUG-2007 12:20
Client ID: VSTD0.5RR
Sample Info: VSTD0.5RR:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/GT070823A90.d
Report Date: 03-Sep-2007 09:41

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/GT070823A90.d
Lab Smp Id: VSTD0.5RR Client Smp ID: VSTD0.5RR
Inj Date : 23-AUG-2007 12:20
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD0.5RR:2481
Misc Info : VMS:1445:149918
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:40 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 12:20 Cal File: GT070823A90.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Difluorobenzene	114	9.842	9.841	(1.000)	367392	125.000	
* 2 Chlorobenzene-d5	117	12.342	12.341	(1.000)	331813	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	173482	125.000	
$ 4 Vinyl chloride-d3	65	4.592	4.597	(0.467)	13186	12.5000	14
$ 5 Chloroethane-d5	69	5.389	5.388	(0.548)	10571	12.5000	14
$ 6 1,1-Dichloroethene-d2	63	6.599	6.599	(0.671)	36943	12.5000	15
$ 7 2-Butanone-d5	46	8.589	8.588	(0.873)	15477	125.000	110
$ 8 Chloroform-d	84	8.966	8.965	(0.911)	34618	12.5000	14
$ 9 1,2-Dichloroethane-d4	65	9.489	9.494	(0.964)	15480	12.5000	13
$ 10 Benzene-d6	84	9.519	9.519	(0.771)	47938	12.5000	14
$ 11 1,2-Dichloropropane-d6	67	10.243	10.249	(0.830)	13283	12.5000	13
$ 12 Toluene-d8	98	11.144	11.143	(0.903)	43822	12.5000	13
$ 13 trans-1,3-Dichloropropene-d4	79	11.326	11.325	(0.918)	4165	12.5000	13
$ 14 2-Hexanone-d5	63	11.612	11.611	(0.941)	10032	125.000	92
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	7470	12.5000	13
$ 17 1,2-Dichlorobenzene-d4	152	14.477	14.471	(1.025)	14633	12.5000	12

6
9-3-07

Data File: /chem/5973hp90.i/DF070823A90.b/GT070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
18 Dichlorodifluoromethane	85	3.983	3.983	(0.405)	42685	12.5000	13	
19 Chloromethane	50	4.385	4.378	(0.446)	23460	12.5000	13	
20 Vinyl chloride	62	4.616	4.609	(0.469)	24191	12.5000	13	
21 Bromomethane	94	5.279	5.272	(0.536)	15728	12.5000	12	
22 Chloroethane	64	5.449	5.443	(0.554)	14240	12.5000	15	(M)
23 Trichlorofluoromethane	101	5.857	5.850	(0.595)	48945	12.5000	13	
24 1,1-Dichloroethene	96	6.618	6.617	(0.672)	20068	12.5000	14	
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.569	6.562	(0.667)	23158	12.5000	14	
26 Acetone	43	6.654	6.653	(0.676)	12737	125.000	150	
27 Carbon disulfide	76	6.970	6.970	(0.708)	59374	12.5000	13	
28 Methyl acetate	43	7.056	7.055	(0.717)	3034	12.5000	14	(MH)
29 Bromochloromethane	128	8.947	8.947	(0.909)	5629	12.5000	14	
30 Methylene chloride	84	7.226	7.225	(0.734)	16623	12.5000	14	
107 tertiary butyl alcohol	59	7.287	7.286	(0.740)	5997	125.000	140	(M)
31 trans-1,2-Dichloroethene	96	7.567	7.566	(0.769)	22838	12.5000	14	
32 Methyl tert-butyl ether	73	7.512	7.517	(0.763)	29864	12.5000	13	
33 1,1-Dichloroethane	63	8.065	8.065	(0.819)	29511	12.5000	13	
34 cis-1,2-Dichloroethene	96	8.692	8.685	(0.883)	13545	12.5000	13	
35 2-Butanone	43	8.655	8.655	(0.879)	17707	125.000	130	
36 Chloroform	83	8.990	8.983	(0.913)	33755	12.5000	15	
37 1,1,1-Trichloroethane	97	9.203	9.202	(0.746)	38095	12.5000	14	
38 Cyclohexane	56	9.264	9.269	(0.751)	17909	12.5000	13	
39 Carbon tetrachloride	117	9.373	9.367	(0.759)	35001	12.5000	14	
40 Benzene	78	9.562	9.561	(0.775)	49539	12.5000	14	
41 1,2-Dichloroethane	62	9.568	9.561	(0.972)	17908	12.5000	14	
42 Trichloroethene	95	10.116	10.121	(0.820)	15398	12.5000	13	
43 Methylcyclohexane	83	10.298	10.297	(0.834)	20641	12.5000	14	
44 1,2-Dichloropropane	63	10.328	10.328	(0.837)	11431	12.5000	14	(M)
45 Bromodichloromethane	83	10.554	10.547	(0.855)	20750	12.5000	13	
46 cis-1,3-Dichloropropene	75	10.906	10.906	(0.884)	16502	12.5000	12	
47 4-Methyl-2-pentanone	43	10.973	10.973	(0.889)	35359	125.000	120	
48 Toluene	91	11.204	11.204	(0.908)	53598	12.5000	13	
49 trans-1,3-Dichloropropene	75	11.350	11.350	(0.920)	14740	12.5000	12	
50 1,1,2-Trichloroethane	97	11.527	11.526	(0.934)	6491	12.5000	13	
51 Tetrachloroethene	164	11.679	11.678	(0.946)	12431	12.5000	14	
52 2-Hexanone	43	11.649	11.648	(0.944)	24980	125.000	120	
53 Dibromochloromethane	129	11.892	11.891	(0.964)	10781	12.5000	12	
54 1,2-Dibromoethane	107	12.020	12.019	(0.974)	6692	12.5000	13	(M)
55 Chlorobenzene	112	12.372	12.366	(1.002)	32515	12.5000	13	
56 Ethylbenzene	91	12.403	12.396	(1.005)	62506	12.5000	13	
57 m,p-Xylene	106	12.482	12.481	(1.011)	21434	12.5000	12	
58 o-Xylene	106	12.798	12.798	(1.037)	19590	12.5000	12	
59 Styrene	104	12.804	12.804	(1.037)	25902	12.5000	11	
60 Bromoform	173	13.017	13.017	(0.921)	5550	12.5000	12	
61 Isopropylbenzene	105	13.048	13.047	(1.057)	63016	12.5000	13	
62 1,1,2,2-Tetrachloroethane	83	13.285	13.278	(1.076)	7284	12.5000	13	
63 1,3-Dichlorobenzene	146	14.094	14.087	(0.997)	26821	12.5000	13	

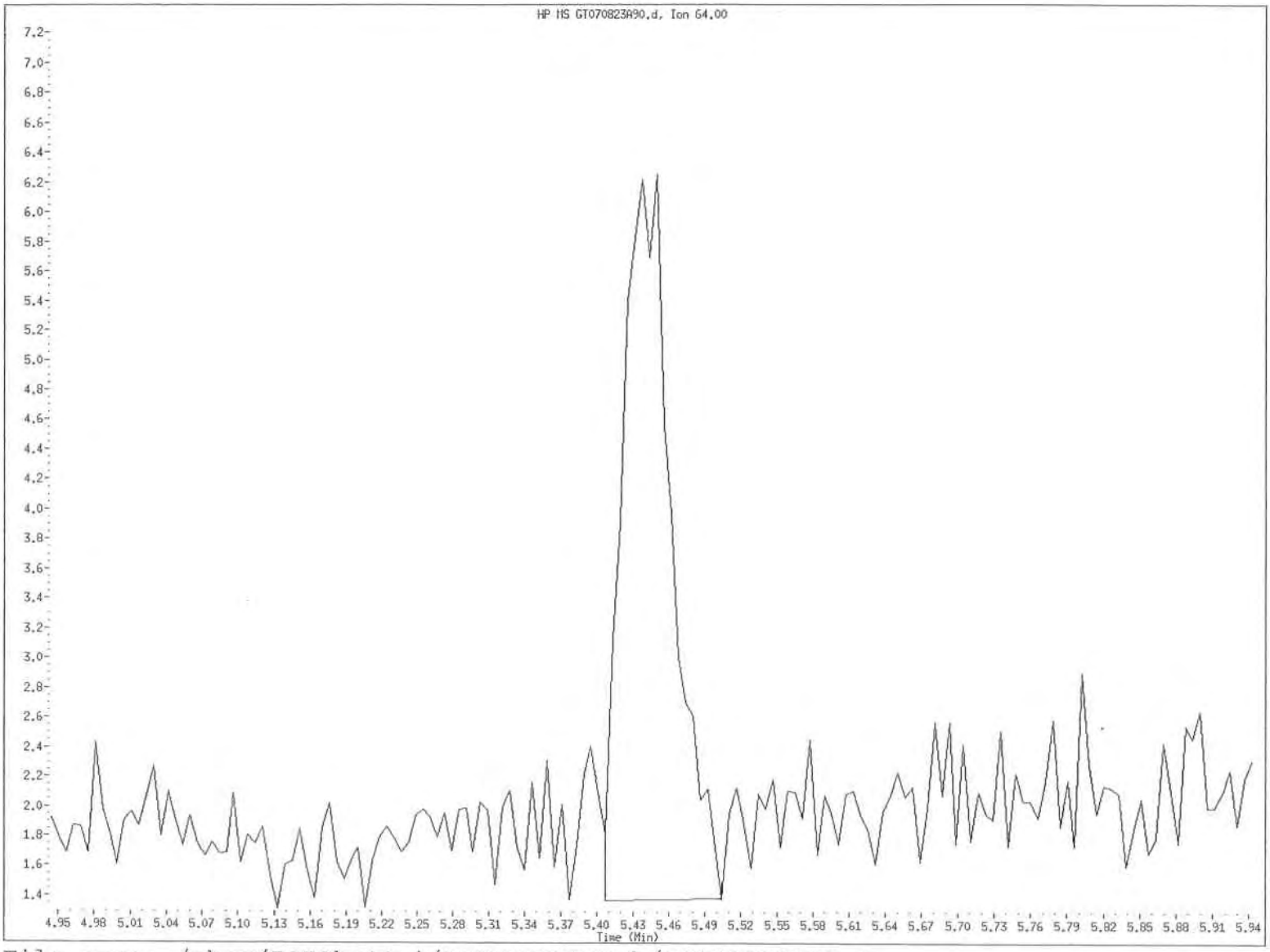
Data File: /chem/5973hp90.i/DF070823A90.b/GT070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.155	14.154	(1.002)	26690	12.5000	13
65 1,2-Dichlorobenzene	146	14.496	14.489	(1.026)	21685	12.5000	13
66 1,2-Dibromo-3-chloropropane	75	15.177	15.170	(1.074)	1635	12.5000	13(M)
67 1,2,4-Trichlorobenzene	180	15.980	15.979	(1.131)	16410	12.5000	13
68 1,2,3-Trichlorobenzene	180	16.570	16.569	(1.173)	12942	12.5000	12

QC Flag Legend

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

Chloroethane CAS Number 75-00-3 Area = 14240 Manually integrated



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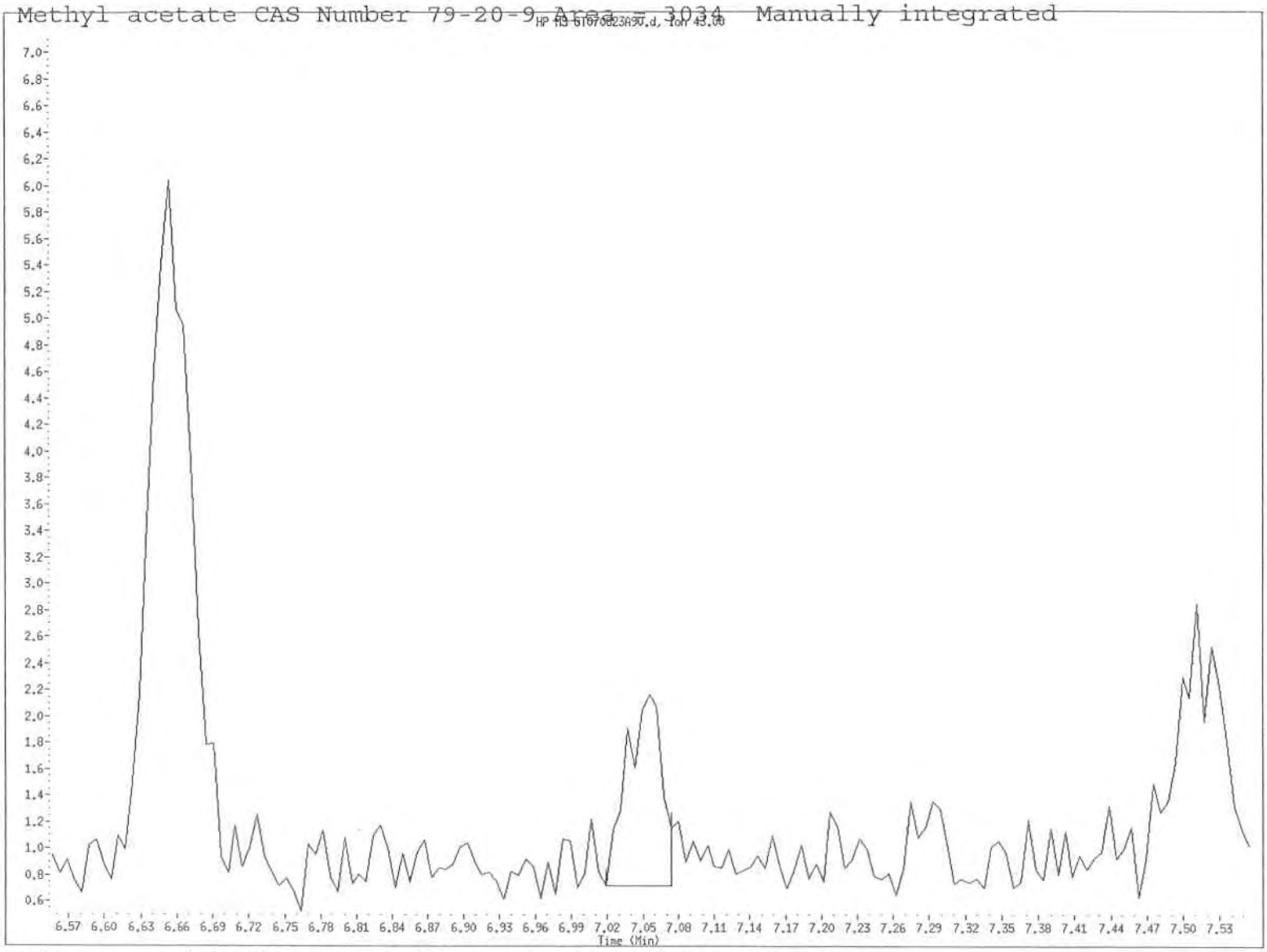
Client ID: VSTD0.5RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:20
Retention Time: 5.45
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 3034 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 3034 Manually integrated



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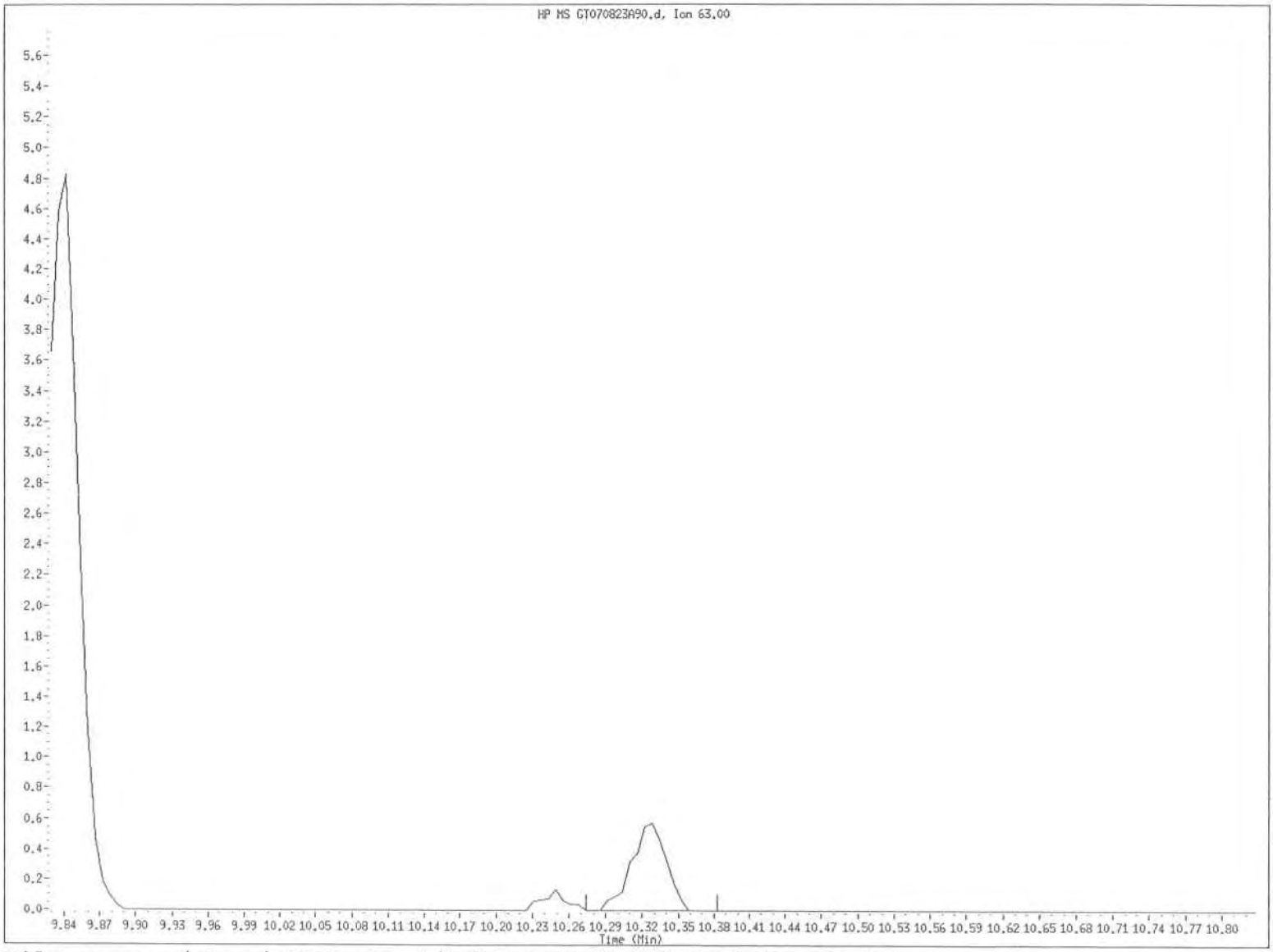
Client ID: VSTD0.5RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:20
Retention Time: 7.06
Operator ID: 2481

1,2-Dichloropropane CAS Number 78-87-5 Area = 11431 Manually integrated



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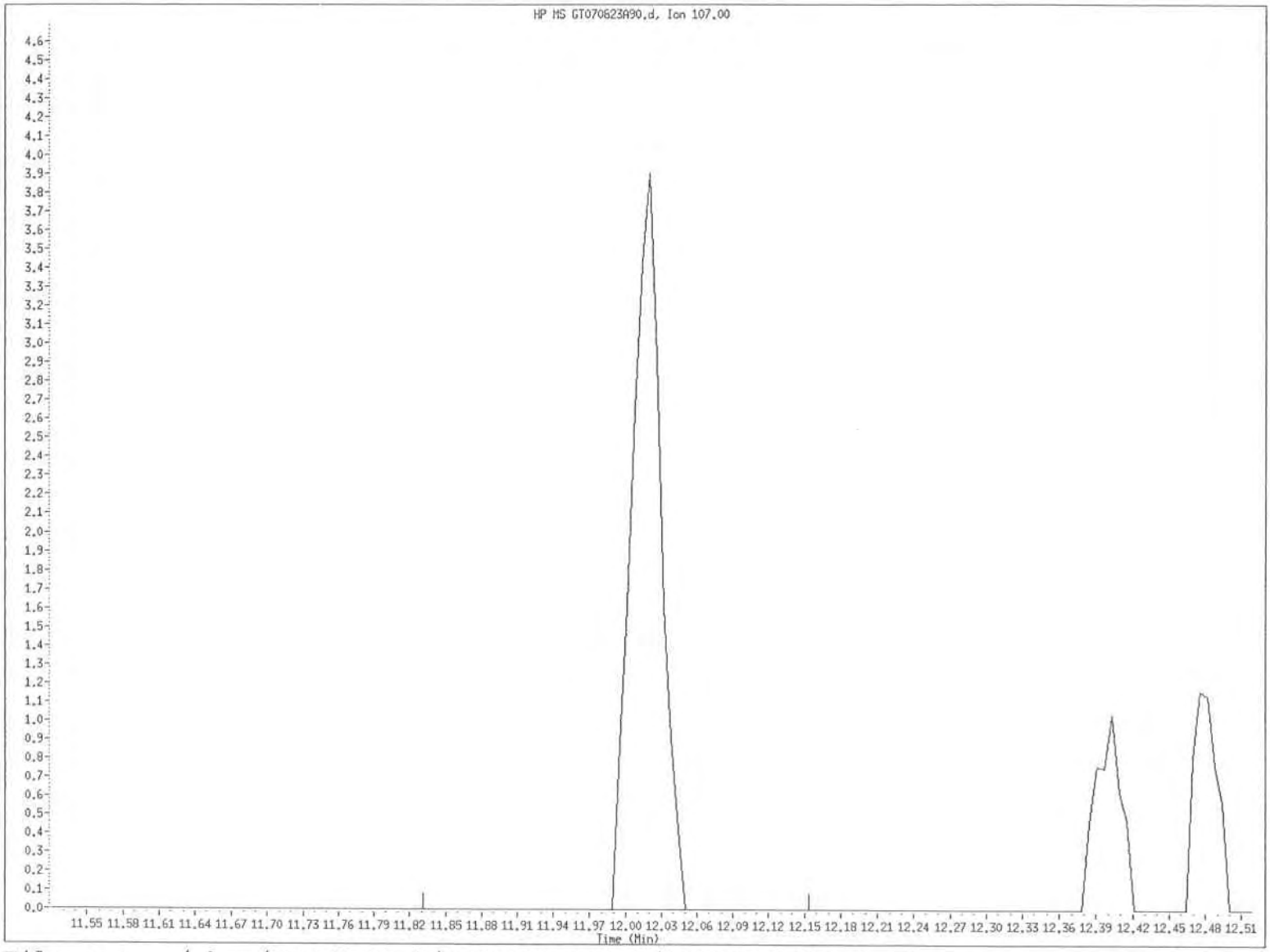
Client ID: VSTD0.5RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:20
Retention Time: 10.33
Operator ID: 2481

1,2-Dibromoethane CAS Number 106-93-4 Area = 6692 Manually integrated



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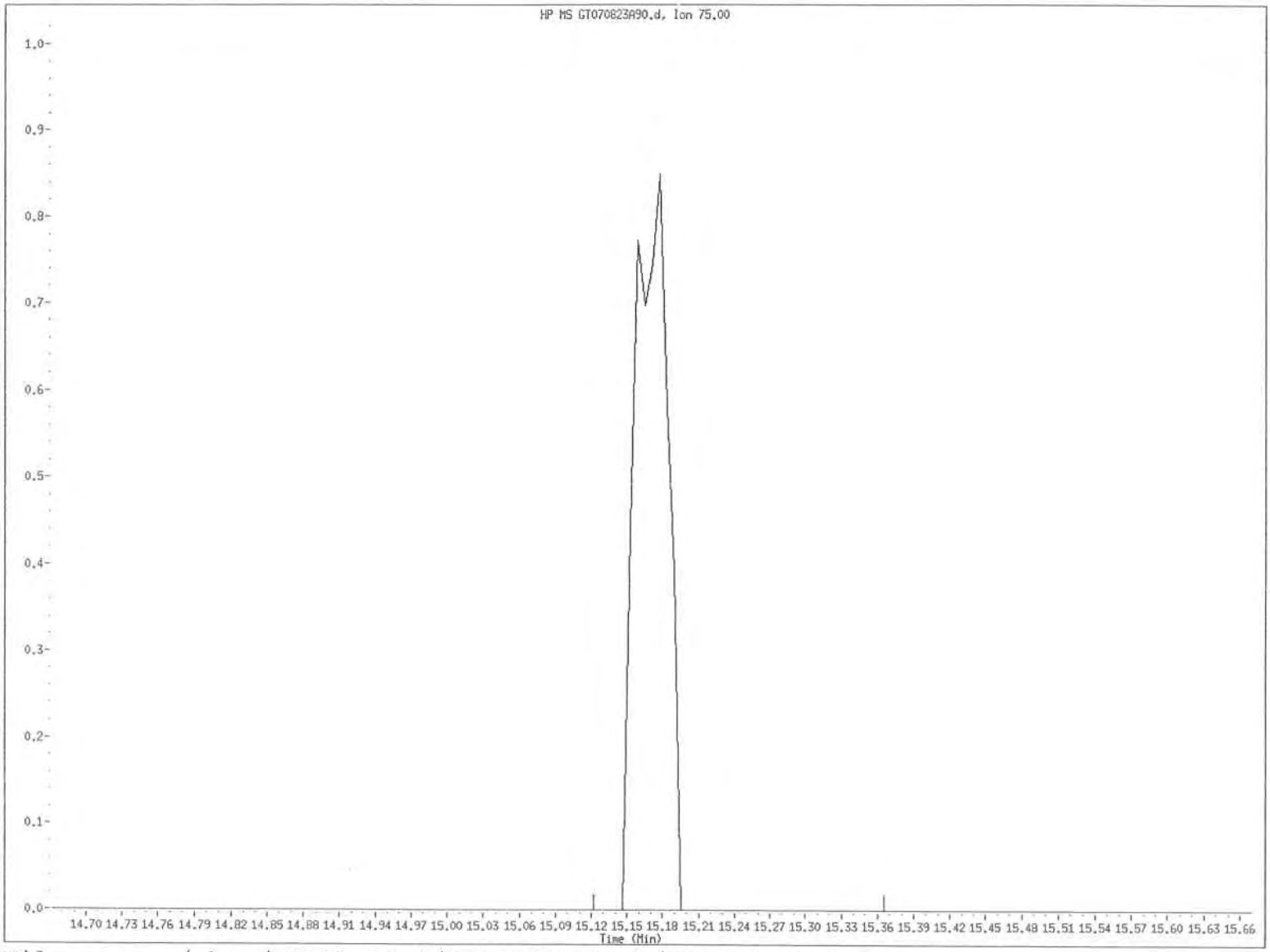
Client ID: VSTD0.5RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:20
Retention Time: 12.02
Operator ID: 2481

1,2-Dibromo-3-chloropropane CAS Number 96-12-8 Area = 1635 Manually integrated



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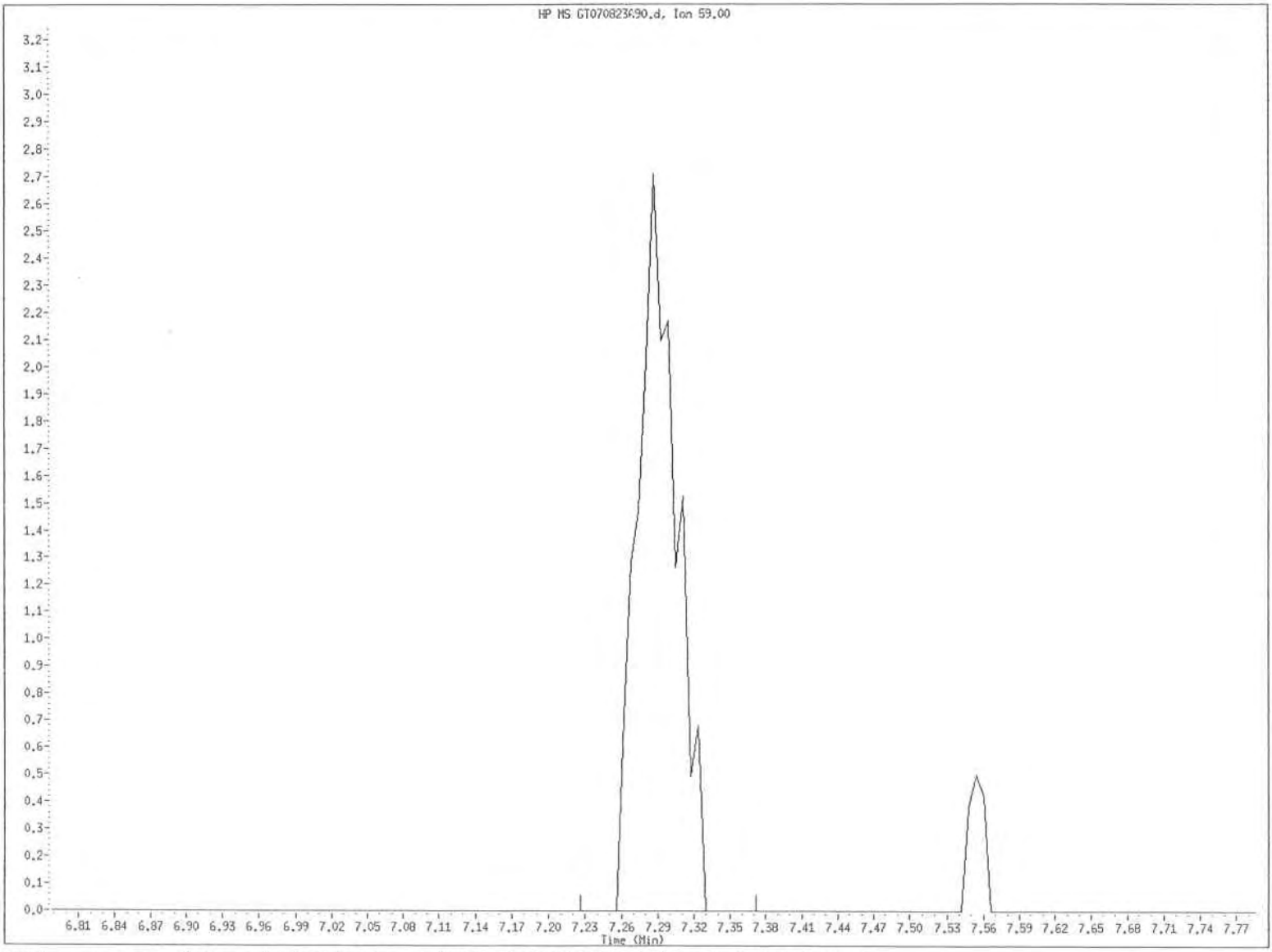
Client ID: VSTD0.5RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:20
Retention Time: 15.18
Operator ID: 2481

tertiary butyl alcohol CAS Number 75-65-0 Area = 5997 Manually integrated



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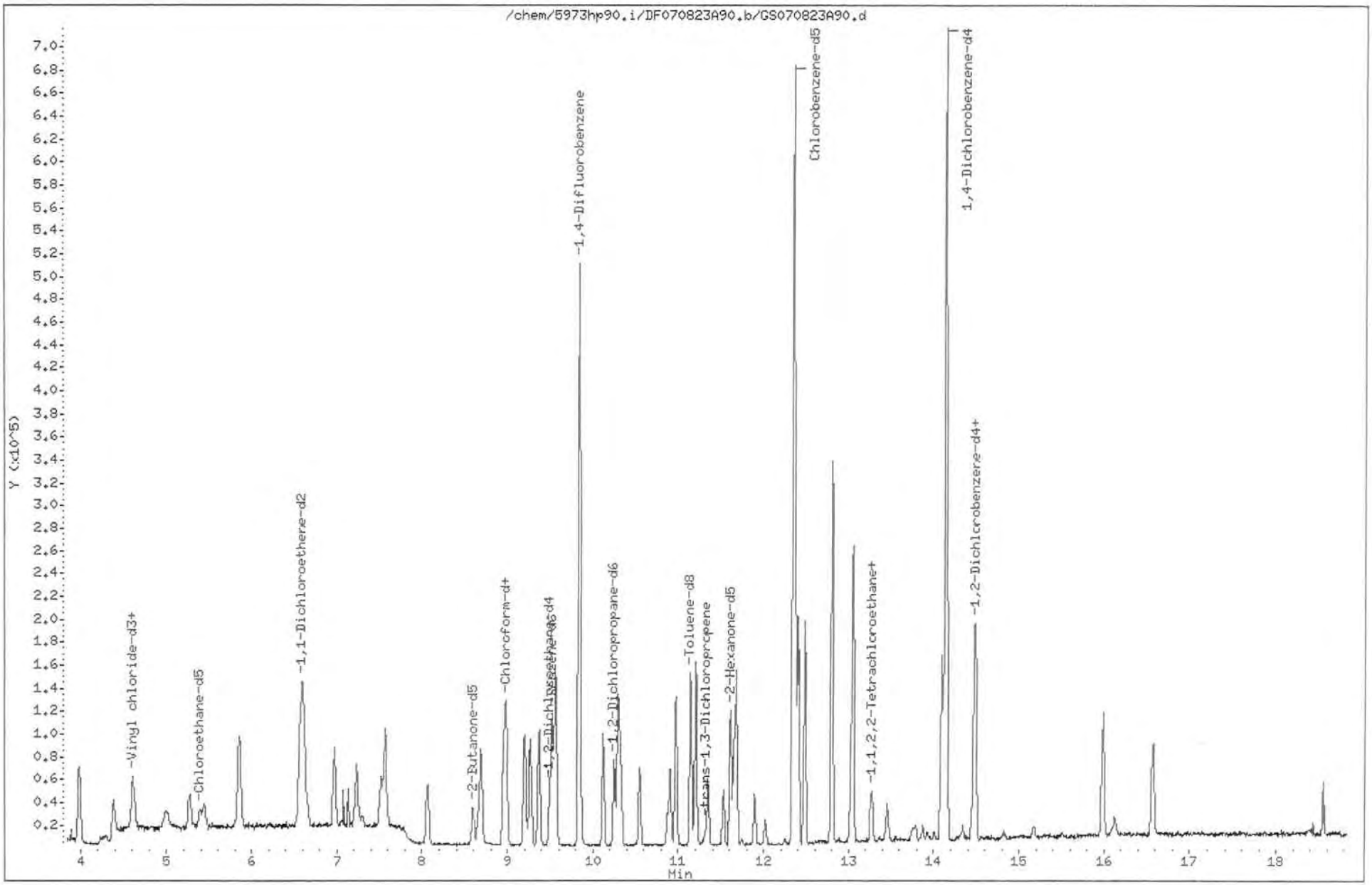
Client ID: VSTD0.5RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:20
Retention Time: 7.29
Operator ID: 2481

Data File: /chem/5973hp90.i/DF070823A90.b/GS070823A90.d
Date : 23-AUG-2007 11:51
Client ID: VSTD001RR
Instrument: 5973hp90.i
Sample Info: VSTD001RR:2481
Purge Volume: 25.0
Operator: 2481
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/GS070823A90.d
Report Date: 03-Sep-2007 09:41

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/GS070823A90.d
Lab Smp Id: VSTD001RR Client Smp ID: VSTD001RR
Inj Date : 23-AUG-2007 11:51
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD001RR:2481
Misc Info : VMS:1445:149919
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:40 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 11:51 Cal File: GS070823A90.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.842	9.841	(1.000)	374476	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.341	(1.000)	337771	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	183717	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.597	(0.467)	26567	25.0000	28
$ 5	Chloroethane-d5	69	5.389	5.388	(0.548)	20939	25.0000	26
$ 6	1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	71168	25.0000	28
$ 7	2-Butanone-d5	46	8.595	8.588	(0.873)	46627	250.000	330
$ 8	Chloroform-d	84	8.966	8.965	(0.911)	72319	25.0000	28
$ 9	1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	33041	25.0000	28
$ 10	Benzene-d6	84	9.519	9.519	(0.771)	99993	25.0000	28
$ 11	1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	28337	25.0000	28
$ 12	Toluene-d8	98	11.144	11.143	(0.903)	96407	25.0000	27
$ 13	trans-1,3-Dichloropropene-d4	79	11.326	11.325	(0.918)	9053	25.0000	28
$ 14	2-Hexanone-d5	63	11.612	11.611	(0.941)	37307	250.000	340
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.261	13.260	(1.074)	15623	25.0000	27
$ 17	1,2-Dichlorobenzene-d4	152	14.477	14.471	(1.025)	33118	25.0000	27

Data File: /chem/5973hp90.i/DF070823A90.b/GS070823A90.d
Report Date: 03-Sep-2007 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
18	Dichlorodifluoromethane	85	3.990	3.983	(0.405)	88830	25.0000	26	
19	Chloromethane	50	4.379	4.378	(0.445)	45722	25.0000	26	
20	Vinyl chloride	62	4.610	4.609	(0.468)	47763	25.0000	25	
21	Bromomethane	94	5.267	5.272	(0.535)	33857	25.0000	26	
22	Chloroethane	64	5.443	5.443	(0.553)	23511	25.0000	24	(M)
23	Trichlorofluoromethane	101	5.851	5.850	(0.595)	98954	25.0000	26	
24	1,1-Dichloroethene	96	6.611	6.617	(0.672)	40262	25.0000	28	
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.563	6.562	(0.667)	48372	25.0000	29	
26	Acetone	43	6.654	6.653	(0.676)	24866	250.000	300	
27	Carbon disulfide	76	6.970	6.970	(0.708)	123372	25.0000	27	
28	Methyl acetate	43	7.056	7.055	(0.717)	6151	25.0000	28	(H)
29	Bromochloromethane	128	8.948	8.947	(0.909)	11212	25.0000	28	
30	Methylene chloride	84	7.226	7.225	(0.734)	34730	25.0000	28	
107	tertiary butyl alcohol	59	7.287	7.286	(0.740)	12612	250.000	290	
31	trans-1,2-Dichloroethene	96	7.561	7.566	(0.768)	44578	25.0000	27	
32	Methyl tert-butyl ether	73	7.518	7.517	(0.764)	66509	25.0000	29	
33	1,1-Dichloroethane	63	8.065	8.065	(0.819)	60607	25.0000	27	
34	cis-1,2-Dichloroethene	96	8.686	8.685	(0.883)	29364	25.0000	28	
35	2-Butanone	43	8.656	8.655	(0.879)	37383	250.000	270	
36	Chloroform	83	8.984	8.983	(0.913)	67188	25.0000	28	
37	1,1,1-Trichloroethane	97	9.203	9.202	(0.746)	73913	25.0000	28	
38	Cyclohexane	56	9.270	9.269	(0.751)	41226	25.0000	29	
39	Carbon tetrachloride	117	9.373	9.367	(0.759)	71081	25.0000	28	
40	Benzene	78	9.562	9.561	(0.775)	104585	25.0000	28	
41	1,2-Dichloroethane	62	9.568	9.561	(0.972)	38465	25.0000	29	
42	Trichloroethene	95	10.122	10.121	(0.820)	33382	25.0000	28	
43	Methylcyclohexane	83	10.292	10.297	(0.834)	48053	25.0000	31	
44	1,2-Dichloropropane	63	10.328	10.328	(0.837)	23641	25.0000	28	
45	Bromodichloromethane	83	10.547	10.547	(0.855)	42641	25.0000	27	
46	cis-1,3-Dichloropropene	75	10.900	10.906	(0.883)	38615	25.0000	27	
47	4-Methyl-2-pentanone	43	10.973	10.973	(0.889)	85576	250.000	280	
48	Toluene	91	11.204	11.204	(0.908)	112041	25.0000	27	
49	trans-1,3-Dichloropropene	75	11.351	11.350	(0.920)	32815	25.0000	27	
50	1,1,2-Trichloroethane	97	11.527	11.526	(0.934)	14894	25.0000	28	
51	Tetrachloroethene	164	11.679	11.678	(0.946)	28267	25.0000	31	
52	2-Hexanone	43	11.655	11.648	(0.944)	62171	250.000	280	
53	Dibromochloromethane	129	11.892	11.891	(0.964)	24113	25.0000	27	
54	1,2-Dibromoethane	107	12.014	12.019	(0.973)	14502	25.0000	27	(M)
55	Chlorobenzene	112	12.366	12.366	(1.002)	69900	25.0000	27	
56	Ethylbenzene	91	12.403	12.396	(1.005)	136065	25.0000	28	
57	m,p-Xylene	106	12.482	12.481	(1.011)	51271	25.0000	29	
58	o-Xylene	106	12.798	12.798	(1.037)	47425	25.0000	27	
59	Styrene	104	12.804	12.804	(1.037)	61071	25.0000	26	
60	Bromoform	173	13.017	13.017	(0.921)	12508	25.0000	26	
61	Isopropylbenzene	105	13.048	13.047	(1.057)	140253	25.0000	29	
62	1,1,2,2-Tetrachloroethane	83	13.279	13.278	(1.076)	15871	25.0000	28	
63	1,3-Dichlorobenzene	146	14.088	14.087	(0.997)	64627	25.0000	29	

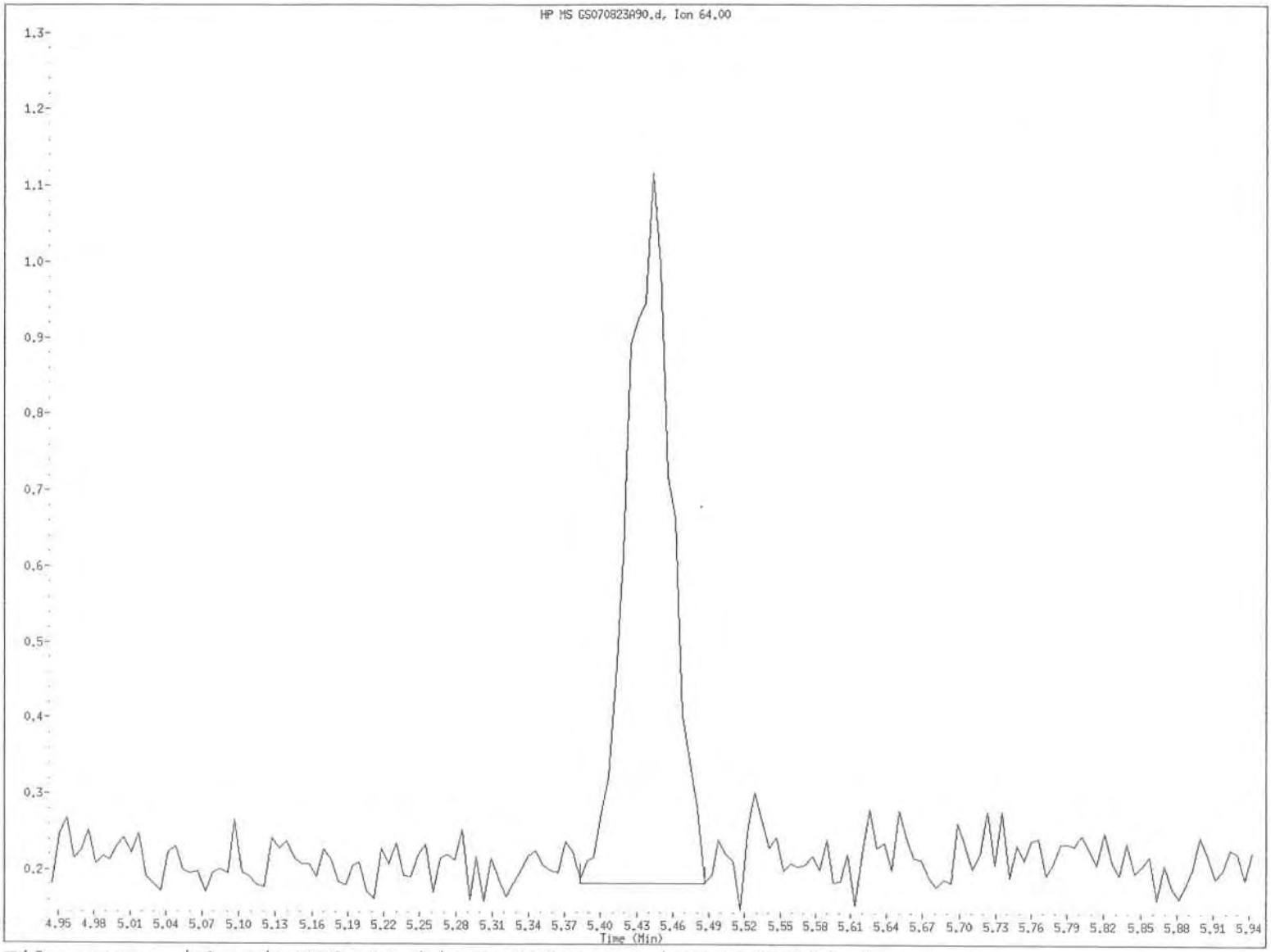
Data File: /chem/5973hp90.i/DF070823A90.b/GS070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.155	14.154	(1.002)	59592	25.0000	28
65 1,2-Dichlorobenzene	146	14.496	14.489	(1.026)	50634	25.0000	29
66 1,2-Dibromo-3-chloropropane	75	15.171	15.170	(1.074)	3876	25.0000	28
67 1,2,4-Trichlorobenzene	180	15.986	15.979	(1.131)	40937	25.0000	30
68 1,2,3-Trichlorobenzene	180	16.564	16.569	(1.172)	32995	25.0000	30

QC Flag Legend

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

Chloroethane CAS Number 75-00-3 Area = 23511 Manually integrated



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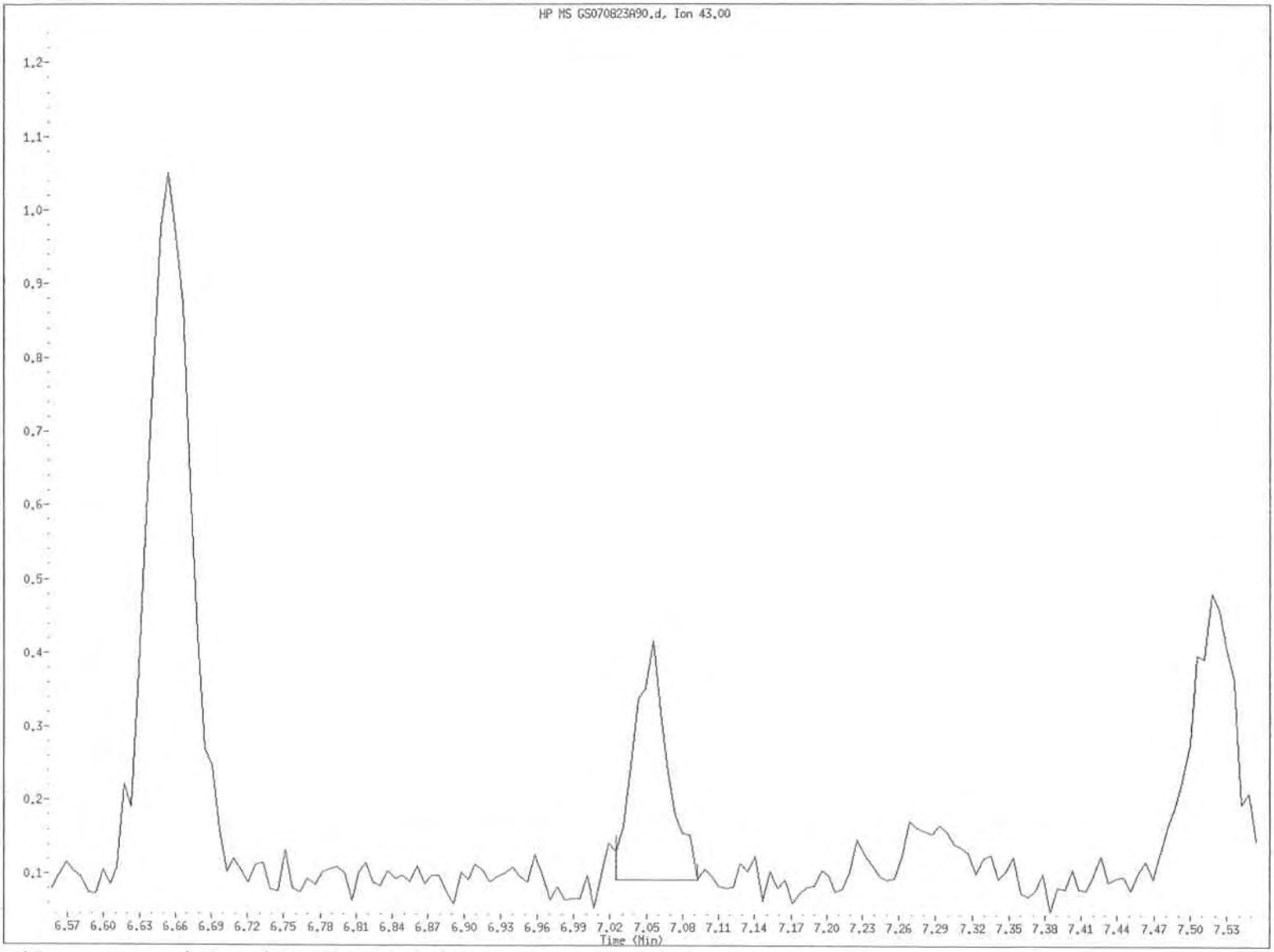
Client ID: VSTD001RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 11:51
Retention Time: 5.44
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 6151 User selected hit



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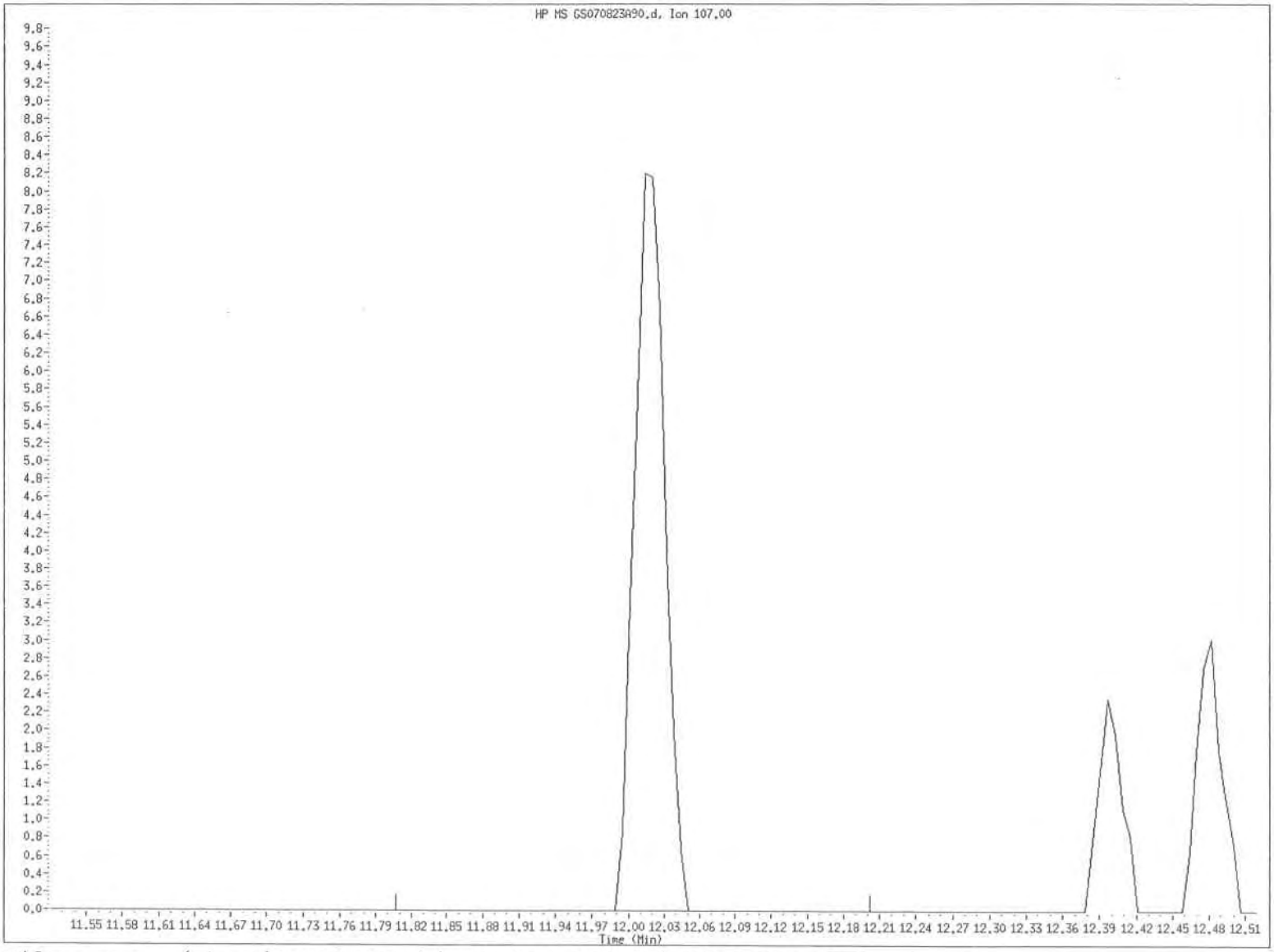
Client ID: VSTD001RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 11:51
Retention Time: 7.06
Operator ID: 2481

1,2-Dibromoethane CAS Number 106-93-4 Area = 14502 Manually integrated



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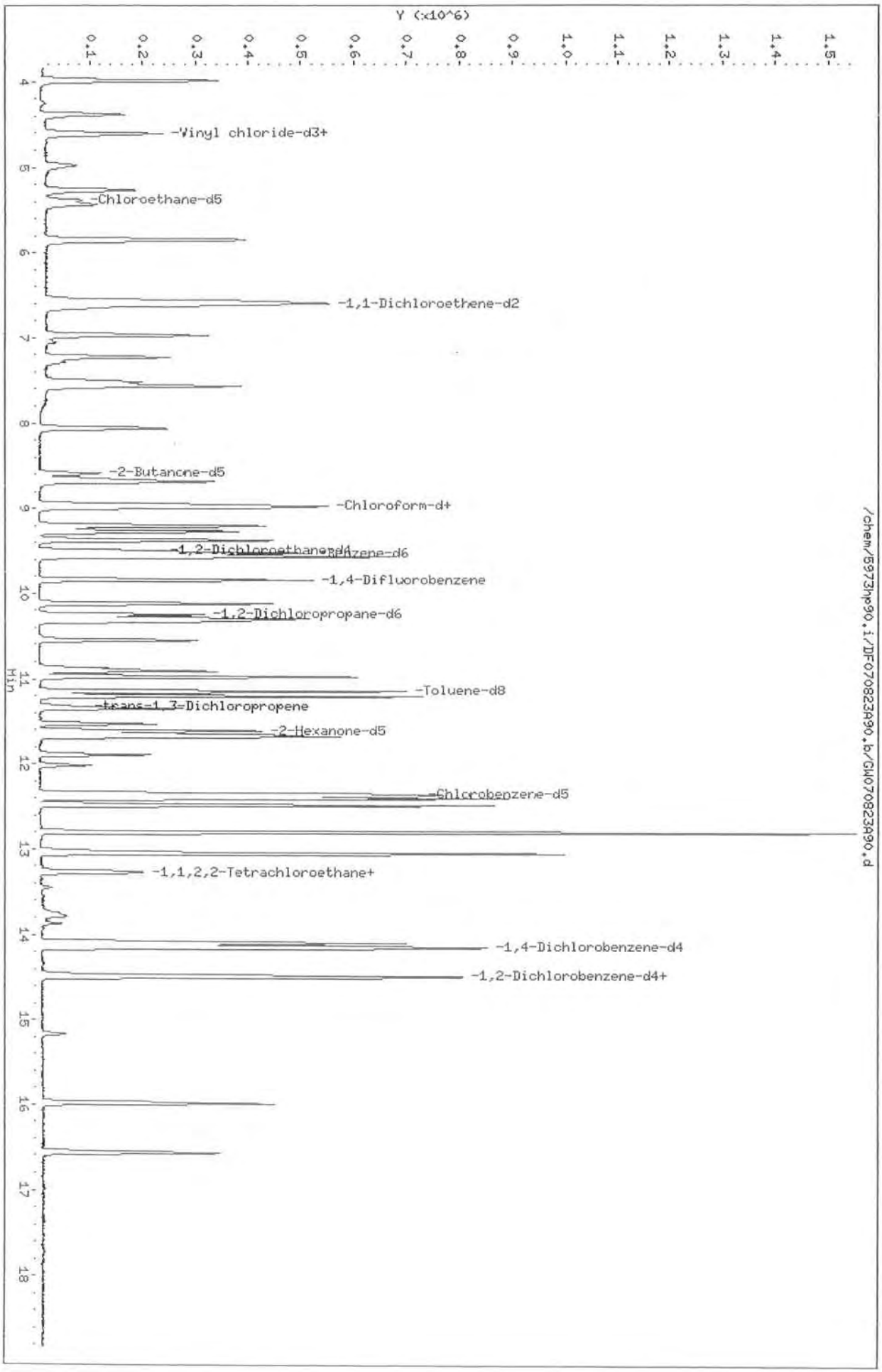
Client ID: VSTD001RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 11:51
Retention Time: 12.01
Operator ID: 2481


Data File: /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Date : 23-AUG-2007 13:46
Client ID: VSTD005RR
Sample Info: VSTD005RR;2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^6)
Min
-Vinyl chloride-d3+
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d+
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-Toluene-d8
-trans-1,3-Dichloropropene
-2-Hexanone-d5
-Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane+
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4+
/chem/5973hp90.i/DF070823A90.b/GW070823A90.d

Data File: /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Report Date: 03-Sep-2007 09:41

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Lab Smp Id: VSTD005RR Client Smp ID: VSTD005RR
Inj Date : 23-AUG-2007 13:46
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RR:2481
Misc Info : VMS:1445:149920
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:40 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	373743	125.000	
*	2 Chlorobenzene-d5	117	12.341	12.341	(1.000)	337930	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.130	14.130	(1.000)	180225	125.000	
$	4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	113501	125.000	120
$	5 Chloroethane-d5	69	5.388	5.388	(0.547)	97733	125.000	120
$	6 1,1-Dichloroethene-d2	63	6.599	6.599	(0.671)	306810	125.000	120
$	7 2-Butanone-d5	46	8.588	8.588	(0.873)	164452	1250.00	1200
$	8 Chloroform-d	84	8.965	8.965	(0.911)	312898	125.000	120
$	9 1,2-Dichloroethane-d4	65	9.494	9.494	(0.965)	141629	125.000	120
$	10 Benzene-d6	84	9.519	9.519	(0.771)	433402	125.000	120
$	11 1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	125847	125.000	120
$	12 Toluene-d8	98	11.143	11.143	(0.903)	442109	125.000	130
$	13 trans-1,3-Dichloropropene-d4	79	11.325	11.325	(0.918)	37213	125.000	110
$	14 2-Hexanone-d5	63	11.611	11.611	(0.941)	137884	1250.00	1200
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.260	13.260	(1.074)	71991	125.000	120
$	17 1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	151351	125.000	120

Data File: /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Dichlorodifluoromethane	85	3.983	3.983	(0.405)	450303	125.000	130
19 Chloromethane	50	4.378	4.378	(0.445)	232610	125.000	130
20 Vinyl chloride	62	4.609	4.609	(0.468)	252564	125.000	130
21 Bromomethane	94	5.272	5.272	(0.536)	172941	125.000	130
22 Chloroethane	64	5.443	5.443	(0.553)	121333	125.000	120 (M)
23 Trichlorofluoromethane	101	5.850	5.850	(0.594)	492053	125.000	130
24 1,1-Dichloroethene	96	6.617	6.617	(0.672)	168197	125.000	120
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.562	6.562	(0.667)	199497	125.000	120
26 Acetone	43	6.653	6.653	(0.676)	96927	1250.00	1200
27 Carbon disulfide	76	6.970	6.970	(0.708)	567429	125.000	120
28 Methyl acetate	43	7.055	7.055	(0.717)	28085	125.000	130 (MH)
29 Bromochloromethane	128	8.947	8.947	(0.909)	48820	125.000	120
30 Methylene chloride	84	7.225	7.225	(0.734)	150612	125.000	120
107 tertiary butyl alcohol	59	7.286	7.286	(0.740)	52354	1250.00	1200
31 trans-1,2-Dichloroethene	96	7.566	7.566	(0.769)	194230	125.000	120
32 Methyl tert-butyl ether	73	7.517	7.517	(0.764)	274382	125.000	120
33 1,1-Dichloroethane	63	8.065	8.065	(0.819)	281286	125.000	120
34 cis-1,2-Dichloroethene	96	8.685	8.685	(0.883)	129122	125.000	120
35 2-Butanone	43	8.655	8.655	(0.879)	168593	1250.00	1200
36 Chloroform	83	8.983	8.983	(0.913)	279236	125.000	120
37 1,1,1-Trichloroethane	97	9.202	9.202	(0.746)	325280	125.000	120
38 Cyclohexane	56	9.269	9.269	(0.751)	174054	125.000	120
39 Carbon tetrachloride	117	9.367	9.367	(0.759)	305648	125.000	120
40 Benzene	78	9.561	9.561	(0.775)	449327	125.000	120
41 1,2-Dichloroethane	62	9.561	9.561	(0.972)	165762	125.000	120
42 Trichloroethene	95	10.121	10.121	(0.820)	150941	125.000	120
43 Methylcyclohexane	83	10.297	10.297	(0.834)	187701	125.000	120
44 1,2-Dichloropropane	63	10.328	10.328	(0.837)	109041	125.000	130
45 Bromodichloromethane	83	10.547	10.547	(0.855)	198134	125.000	130
46 cis-1,3-Dichloropropene	75	10.906	10.906	(0.884)	181230	125.000	130
47 4-Methyl-2-pentanone	43	10.973	10.973	(0.889)	404426	1250.00	1300
48 Toluene	91	11.204	11.204	(0.908)	510056	125.000	120
49 trans-1,3-Dichloropropene	75	11.350	11.350	(0.920)	151453	125.000	120
50 1,1,2-Trichloroethane	97	11.526	11.526	(0.934)	65904	125.000	120
51 Tetrachloroethene	164	11.678	11.678	(0.946)	108594	125.000	120
52 2-Hexanone	43	11.648	11.648	(0.944)	290334	1250.00	1300
53 Dibromochloromethane	129	11.891	11.891	(0.964)	109935	125.000	120
54 1,2-Dibromoethane	107	12.019	12.019	(0.974)	66036	125.000	120
55 Chlorobenzene	112	12.366	12.366	(1.002)	321082	125.000	120
56 Ethylbenzene	91	12.396	12.396	(1.004)	610314	125.000	130
57 m,p-Xylene	106	12.481	12.481	(1.011)	226041	125.000	130
58 o-Xylene	106	12.798	12.798	(1.037)	218189	125.000	130
59 Styrene	104	12.804	12.804	(1.037)	304968	125.000	130
60 Bromoform	173	13.017	13.017	(0.921)	58620	125.000	120
61 Isopropylbenzene	105	13.047	13.047	(1.057)	597733	125.000	120
62 1,1,2,2-Tetrachloroethane	83	13.278	13.278	(1.076)	71220	125.000	120
63 1,3-Dichlorobenzene	146	14.087	14.087	(0.997)	273979	125.000	120

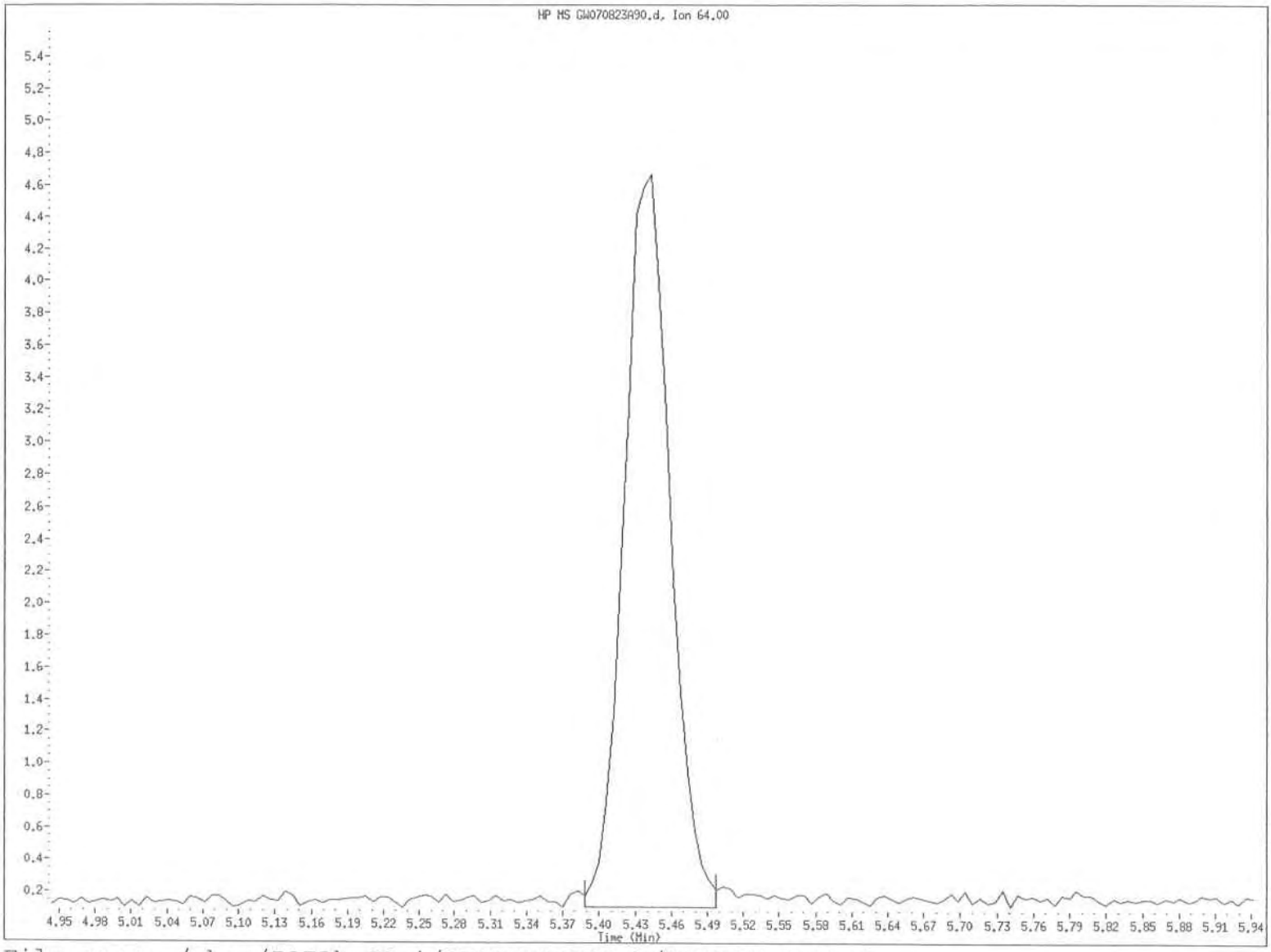
Data File: /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.154	14.154	(1.002)	255454	125.000	120
65 1,2-Dichlorobenzene	146	14.489	14.489	(1.025)	214943	125.000	120
66 1,2-Dibromo-3-chloropropane	75	15.170	15.170	(1.074)	16700	125.000	120
67 1,2,4-Trichlorobenzene	180	15.979	15.979	(1.131)	162269	125.000	120
68 1,2,3-Trichlorobenzene	180	16.569	16.569	(1.173)	131488	125.000	120

QC Flag Legend

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

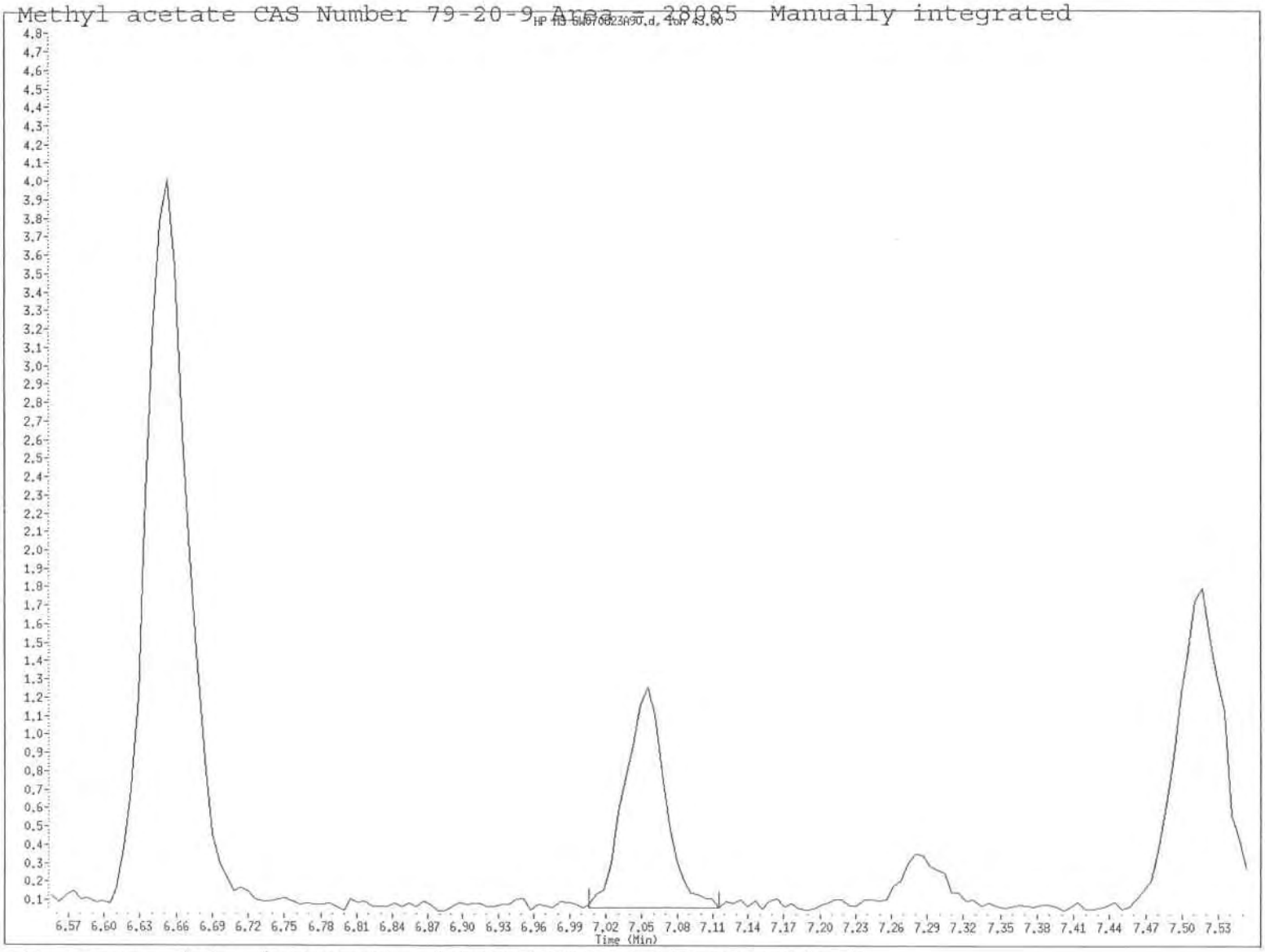
Chloroethane CAS Number 75-00-3 Area = 121333 Manually integrated



File name: /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Client ID: VSTD005RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 13:46
Retention Time: 5.44
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 28085 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 28085 Manually integrated



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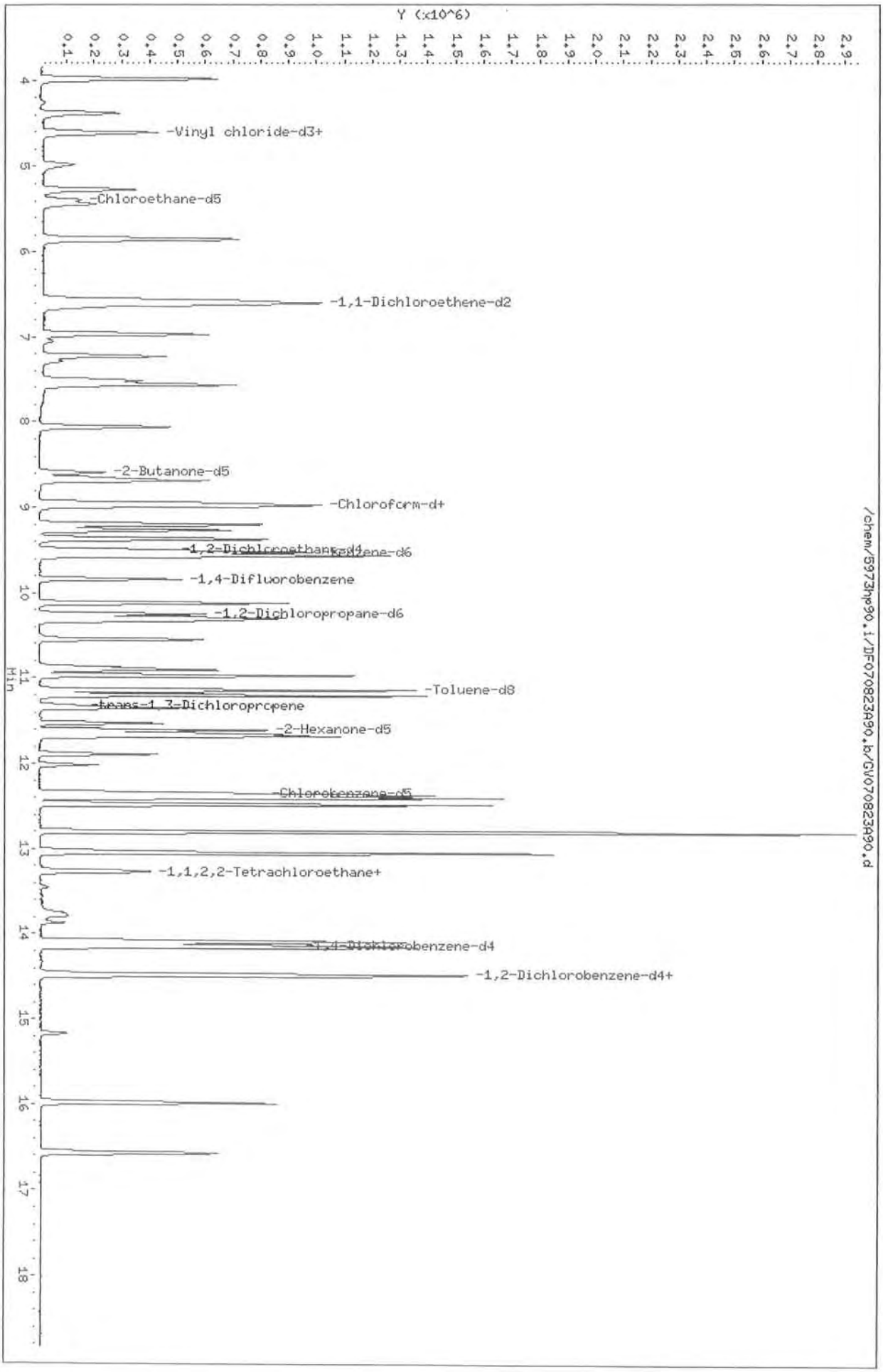
Client ID: VSTD005RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 13:46
Retention Time: 7.05
Operator ID: 2481


Data File: /chem/5973hp90.i/DF070823A90.b/GV070823A90.d
Date : 23-AUG-2007 13:17
Client ID: VSTD010RR
Sample Info: VSTD010RR,2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2491
Column diameter: 0.32
Y (x10^6)
Min
-Vinyl chloride-d3+
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d+
-1,2-Dichloroethane-d4
-Toluene-d8
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-trans-1,3-Dichloropropene
-2-Hexanone-d5
-Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane+
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4+
/chem/5973hp90.i/DF070823A90.b/GV070823A90.d

Data File: /chem/5973hp90.i/DF070823A90.b/GV070823A90.d
Report Date: 03-Sep-2007 09:41

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/GV070823A90.d
Lab Smp Id: VSTD010RR Client Smp ID: VSTD010RR
Inj Date : 23-AUG-2007 13:17
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD010RR:2481
Misc Info : VMS:1445:149921
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:40 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:17 Cal File: GV070823A90.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.842	9.841	(1.000)	373471	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.341	(1.000)	351040	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	185911	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.597	(0.467)	216437	250.000	230
$ 5	Chloroethane-d5	69	5.395	5.388	(0.548)	188513	250.000	240
$ 6	1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	571650	250.000	220
$ 7	2-Butanone-d5	46	8.589	8.588	(0.873)	333617	2500.00	2400
$ 8	Chloroform-d	84	8.966	8.965	(0.911)	588357	250.000	230
$ 9	1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	275108	250.000	240
$ 10	Benzene-d6	84	9.519	9.519	(0.771)	841873	250.000	230
$ 11	1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	246929	250.000	230
$ 12	Toluene-d8	98	11.144	11.143	(0.903)	877414	250.000	240
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	81366	250.000	240
$ 14	2-Hexanone-d5	63	11.606	11.611	(0.940)	283718	2500.00	2500
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	148803	250.000	250
$ 17	1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	305193	250.000	240

Data File: /chem/5973hp90.i/DF070823A90.b/GV070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
18 Dichlorodifluoromethane	85	3.983	3.983	(0.405)	859112	250.000	250	
19 Chloromethane	50	4.379	4.378	(0.445)	441970	250.000	250	
20 Vinyl chloride	62	4.610	4.609	(0.468)	476427	250.000	250	(M)
21 Bromomethane	94	5.273	5.272	(0.536)	328656	250.000	250	
22 Chloroethane	64	5.437	5.443	(0.552)	230194	250.000	240	(M)
23 Trichlorofluoromethane	101	5.851	5.850	(0.595)	919851	250.000	240	
24 1,1-Dichloroethene	96	6.612	6.617	(0.672)	317550	250.000	220	
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.569	6.562	(0.667)	367779	250.000	220	
26 Acetone	43	6.654	6.653	(0.676)	181450	2500.00	2200	
27 Carbon disulfide	76	6.970	6.970	(0.708)	1098921	250.000	240	
28 Methyl acetate	43	7.050	7.055	(0.716)	51692	250.000	230	(MH)
29 Bromochloromethane	128	8.948	8.947	(0.909)	93325	250.000	230	
30 Methylene chloride	84	7.226	7.225	(0.734)	285442	250.000	230	
107 tertiary butyl alcohol	59	7.287	7.286	(0.740)	100841	2500.00	2300	
31 trans-1,2-Dichloroethene	96	7.567	7.566	(0.769)	369590	250.000	230	
32 Methyl tert-butyl ether	73	7.512	7.517	(0.763)	541396	250.000	240	
33 1,1-Dichloroethane	63	8.059	8.065	(0.819)	543398	250.000	240	
34 cis-1,2-Dichloroethene	96	8.686	8.685	(0.883)	248935	250.000	240	
35 2-Butanone	43	8.649	8.655	(0.879)	327064	2500.00	2400	
36 Chloroform	83	8.984	8.983	(0.913)	527195	250.000	220	
37 1,1,1-Trichloroethane	97	9.197	9.202	(0.745)	623303	250.000	220	
38 Cyclohexane	56	9.264	9.269	(0.751)	323062	250.000	220	
39 Carbon tetrachloride	117	9.367	9.367	(0.759)	583738	250.000	220	
40 Benzene	78	9.556	9.561	(0.774)	864296	250.000	230	
41 1,2-Dichloroethane	62	9.562	9.561	(0.972)	310776	250.000	230	
42 Trichloroethene	95	10.116	10.121	(0.820)	295097	250.000	230	
43 Methylcyclohexane	83	10.292	10.297	(0.834)	343031	250.000	210	
44 1,2-Dichloropropane	63	10.322	10.328	(0.836)	207217	250.000	230	
45 Bromodichloromethane	83	10.548	10.547	(0.855)	389197	250.000	240	
46 cis-1,3-Dichloropropene	75	10.906	10.906	(0.884)	363552	250.000	250	
47 4-Methyl-2-pentanone	43	10.967	10.973	(0.889)	790473	2500.00	2500	
48 Toluene	91	11.205	11.204	(0.908)	989949	250.000	230	
49 trans-1,3-Dichloropropene	75	11.351	11.350	(0.920)	316129	250.000	250	
50 1,1,2-Trichloroethane	97	11.527	11.526	(0.934)	130940	250.000	240	
51 Tetrachloroethene	164	11.679	11.678	(0.946)	209610	250.000	220	
52 2-Hexanone	43	11.649	11.648	(0.944)	559762	2500.00	2500	
53 Dibromochloromethane	129	11.892	11.891	(0.964)	225897	250.000	240	
54 1,2-Dibromoethane	107	12.014	12.019	(0.973)	139417	250.000	250	
55 Chlorobenzene	112	12.366	12.366	(1.002)	643720	250.000	240	
56 Ethylbenzene	91	12.397	12.396	(1.004)	1166037	250.000	230	
57 m,p-Xylene	106	12.476	12.481	(1.011)	432261	250.000	230	
58 o-Xylene	106	12.798	12.798	(1.037)	434847	250.000	240	
59 Styrene	104	12.805	12.804	(1.037)	600723	250.000	250	
60 Bromoform	173	13.017	13.017	(0.921)	122101	250.000	250	
61 Isopropylbenzene	105	13.048	13.047	(1.057)	1155804	250.000	230	
62 1,1,2,2-Tetrachloroethane	83	13.279	13.278	(1.076)	142033	250.000	240	
63 1,3-Dichlorobenzene	146	14.088	14.087	(0.997)	521836	250.000	230	

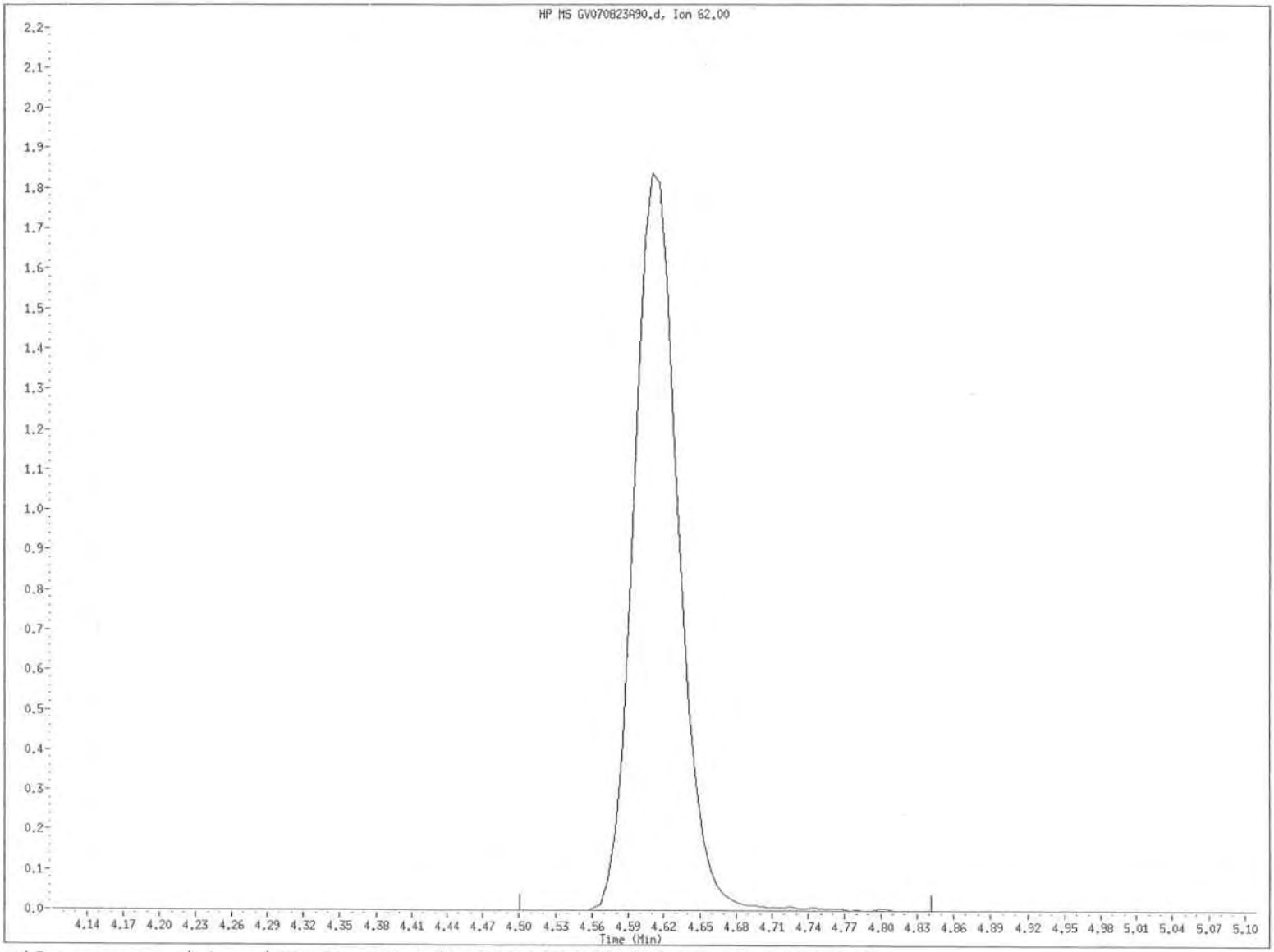
Data File: /chem/5973hp90.i/DF070823A90.b/GV070823A90.d
Report Date: 03-Sep-2007 09:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64	1,4-Dichlorobenzene	146	14.155	14.154	(1.002)	496630	250.000	230
65	1,2-Dichlorobenzene	146	14.490	14.489	(1.025)	421473	250.000	230
66	1,2-Dibromo-3-chloropropane	75	15.171	15.170	(1.074)	33809	250.000	240
67	1,2,4-Trichlorobenzene	180	15.980	15.979	(1.131)	317048	250.000	230
68	1,2,3-Trichlorobenzene	180	16.564	16.569	(1.172)	254559	250.000	230

QC Flag Legend

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

Vinyl chloride CAS Number 75-01-4 Area = 476427 Manually integrated



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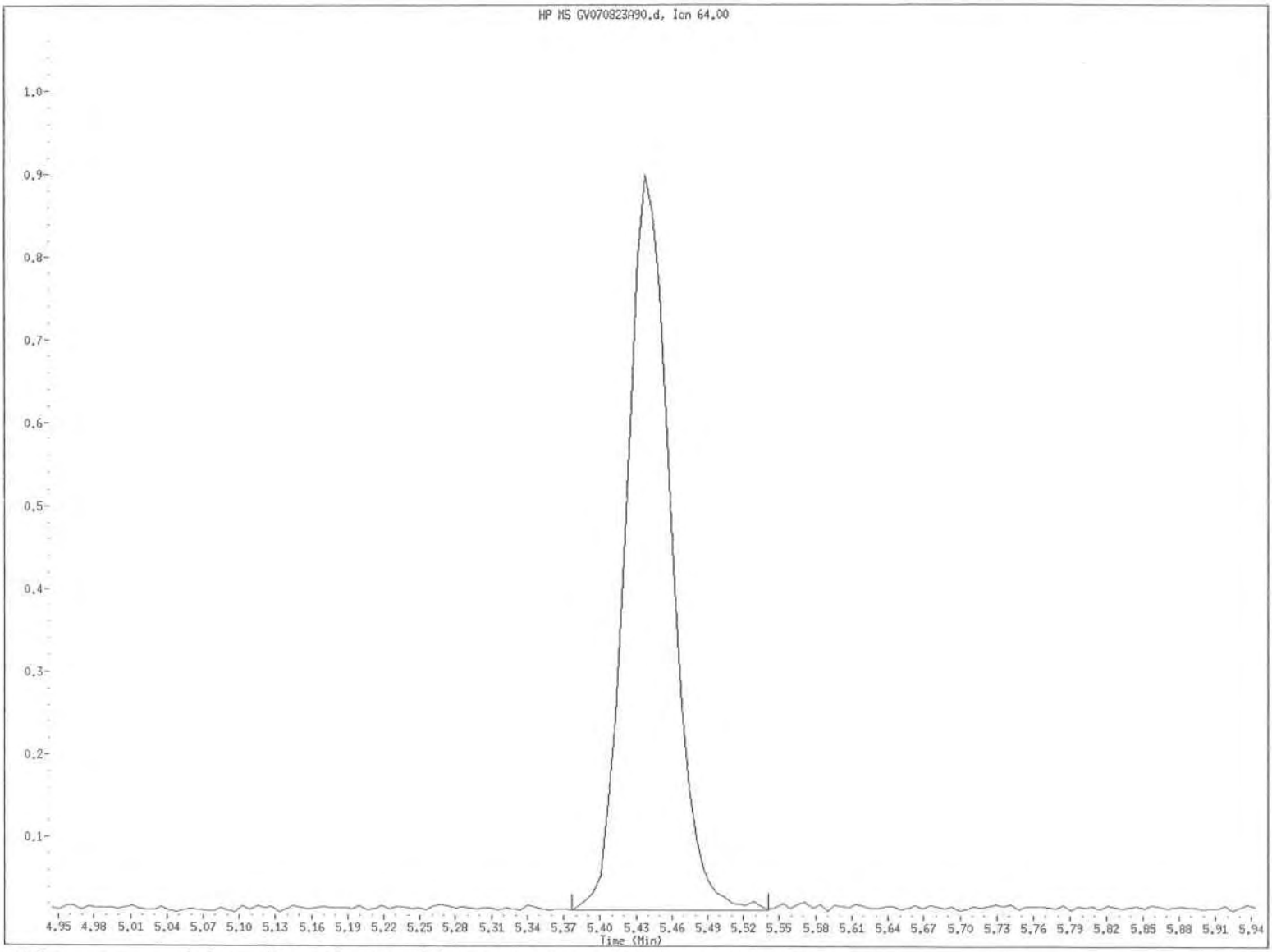
Client ID: VSTD010RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 13:17
Retention Time: 4.61
Operator ID: 2481

Chloroethane CAS Number 75-00-3 Area = 230194 Manually integrated



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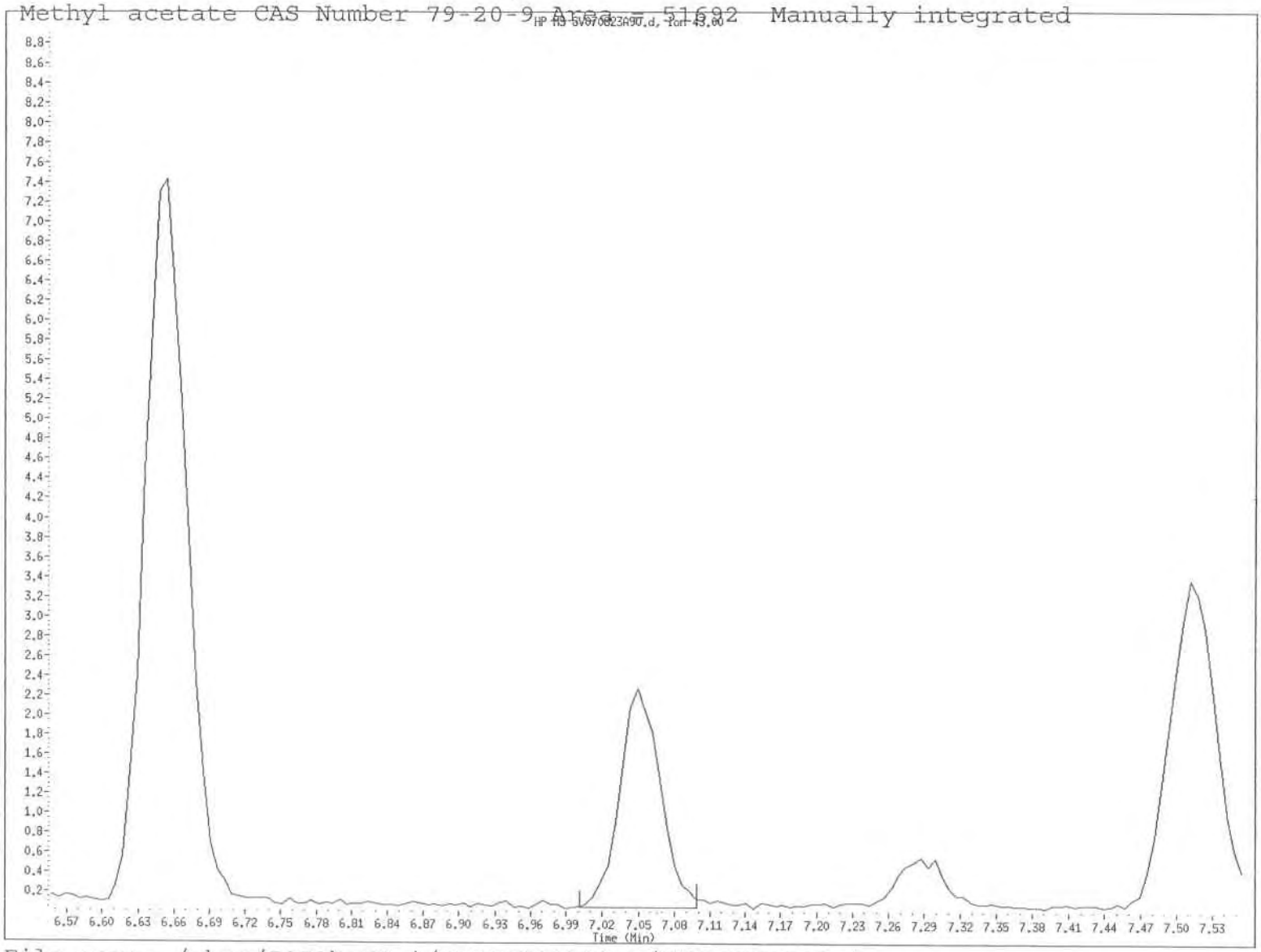
Client ID: VSTD010RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 13:17
Retention Time: 5.44
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 51692 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 51692 Manually integrated



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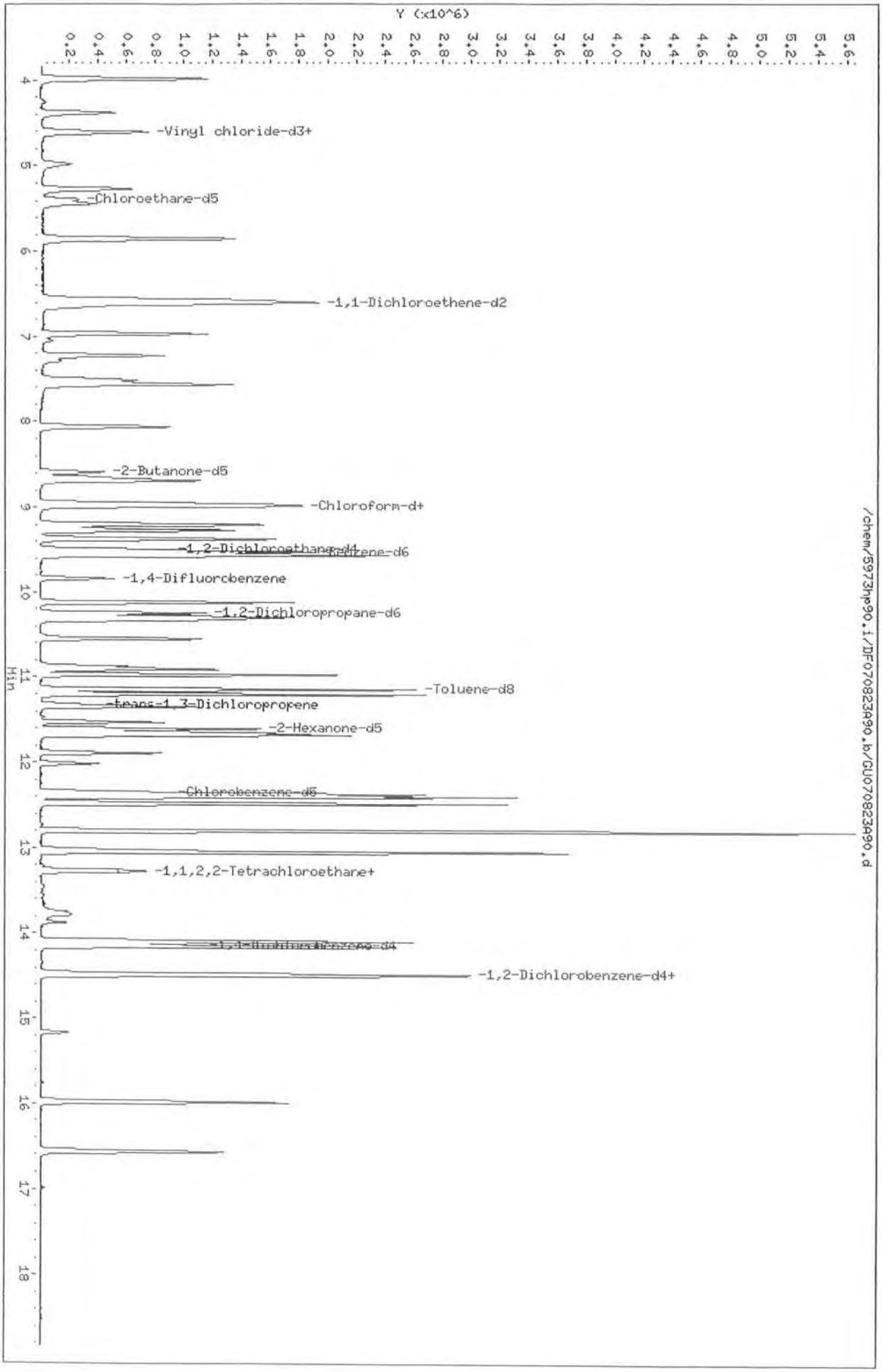
Client ID: VSTD010RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 13:17
Retention Time: 7.05
Operator ID: 2481


Data File: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Date : 23-AUG-2007 12:49
Client ID: VSTD020RR
Sample Info: VSTD020RR,2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^6)
Min
-Vinyl chloride-d3+
-Chloroethane-d5
-1,1-Dichloroethene-d2
-2-Butanone-d5
-Chloroform-d+
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-Toluene-d8
-2-Hexanone-d5
-Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane+
-1,2-Dichlorobenzene-d4+
/chem/5973hp90.i/DF070823A90.b/GU070823A90.d

Data File: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Report Date: 03-Sep-2007 09:41

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Lab Smp Id: VSTD020RR Client Smp ID: VSTD020RR
Inj Date : 23-AUG-2007 12:49
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD020RR:2481
Misc Info : VMS:1445:149922
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:40 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 12:49 Cal File: GU070823A90.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.842	9.841	(1.000)	371783	125.000	
* 2	Chlorobenzene-d5	117	12.342	12.341	(1.000)	353560	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.130	(1.000)	190197	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.597	(0.467)	394114	500.000	420
$ 5	Chloroethane-d5	69	5.389	5.388	(0.548)	355576	500.000	450
$ 6	1,1-Dichloroethene-d2	63	6.599	6.599	(0.671)	1080999	500.000	430
$ 7	2-Butanone-d5	46	8.589	8.588	(0.873)	624286	5000.00	4500
$ 8	Chloroform-d	84	8.966	8.965	(0.911)	1093084	500.000	430
$ 9	1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	509810	500.000	440
$ 10	Benzene-d6	84	9.519	9.519	(0.771)	1652060	500.000	440
$ 11	1,2-Dichloropropane-d6	67	10.243	10.249	(0.830)	463787	500.000	440
$ 12	Toluene-d8	98	11.144	11.143	(0.903)	1730685	500.000	470
$ 13	trans-1,3-Dichloropropene-d4	79	11.326	11.325	(0.918)	168546	500.000	490
$ 14	2-Hexanone-d5	63	11.606	11.611	(0.940)	534850	5000.00	4600
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	278766	500.000	460
$ 17	1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	629856	500.000	490

Data File: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18 Dichlorodifluoromethane	85	3.983	3.983	(0.405)	1544947	500.000	450
19 Chloromethane	50	4.379	4.378	(0.445)	780542	500.000	440
20 Vinyl chloride	62	4.610	4.609	(0.468)	865654	500.000	460(M)
21 Bromomethane	94	5.273	5.272	(0.536)	622100	500.000	480
22 Chloroethane	64	5.437	5.443	(0.552)	437430	500.000	450
23 Trichlorofluoromethane	101	5.857	5.850	(0.595)	1769524	500.000	470
24 1,1-Dichloroethene	96	6.618	6.617	(0.672)	608649	500.000	430
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.569	6.562	(0.667)	702112	500.000	430
26 Acetone	43	6.654	6.653	(0.676)	329941	5000.00	4000
27 Carbon disulfide	76	6.964	6.970	(0.708)	2132382	500.000	470
28 Methyl acetate	43	7.049	7.055	(0.716)	90238	500.000	410(H)
29 Bromochloromethane	128	8.947	8.947	(0.909)	178463	500.000	440
30 Methylene chloride	84	7.226	7.225	(0.734)	537557	500.000	440
107 tertiary butyl alcohol	59	7.287	7.286	(0.740)	194235	5000.00	4400
31 trans-1,2-Dichloroethene	96	7.567	7.566	(0.769)	709167	500.000	440
32 Methyl tert-butyl ether	73	7.512	7.517	(0.763)	1010730	500.000	440
33 1,1-Dichloroethane	63	8.059	8.065	(0.819)	1025067	500.000	460
34 cis-1,2-Dichloroethene	96	8.686	8.685	(0.883)	468683	500.000	450
35 2-Butanone	43	8.649	8.655	(0.879)	598880	5000.00	4400
36 Chloroform	83	8.990	8.983	(0.913)	995629	500.000	420
37 1,1,1-Trichloroethane	97	9.203	9.202	(0.746)	1219763	500.000	440
38 Cyclohexane	56	9.264	9.269	(0.751)	656568	500.000	450
39 Carbon tetrachloride	117	9.367	9.367	(0.759)	1138482	500.000	430
40 Benzene	78	9.562	9.561	(0.775)	1690627	500.000	440
41 1,2-Dichloroethane	62	9.562	9.561	(0.972)	581600	500.000	430
42 Trichloroethene	95	10.116	10.121	(0.820)	580953	500.000	460
43 Methylcyclohexane	83	10.298	10.297	(0.834)	699748	500.000	430
44 1,2-Dichloropropane	63	10.322	10.328	(0.836)	385001	500.000	430
45 Bromodichloromethane	83	10.547	10.547	(0.855)	742864	500.000	450
46 cis-1,3-Dichloropropene	75	10.906	10.906	(0.884)	698747	500.000	470
47 4-Methyl-2-pentanone	43	10.967	10.973	(0.889)	1427651	5000.00	4500
48 Toluene	91	11.204	11.204	(0.908)	1939388	500.000	450
49 trans-1,3-Dichloropropene	75	11.350	11.350	(0.920)	621127	500.000	480
50 1,1,2-Trichloroethane	97	11.527	11.526	(0.934)	251174	500.000	460
51 Tetrachloroethene	164	11.679	11.678	(0.946)	424548	500.000	440
52 2-Hexanone	43	11.649	11.648	(0.944)	1020303	5000.00	4500
53 Dibromochloromethane	129	11.892	11.891	(0.964)	448269	500.000	480
54 1,2-Dibromoethane	107	12.014	12.019	(0.973)	268593	500.000	470
55 Chlorobenzene	112	12.366	12.366	(1.002)	1284525	500.000	470
56 Ethylbenzene	91	12.397	12.396	(1.004)	2321979	500.000	460
57 m,p-Xylene	106	12.476	12.481	(1.011)	899952	500.000	480
58 o-Xylene	106	12.798	12.798	(1.037)	897878	500.000	500
59 Styrene	104	12.804	12.804	(1.037)	1209367	500.000	500
60 Bromoform	173	13.017	13.017	(0.921)	245718	500.000	490
61 Isopropylbenzene	105	13.048	13.047	(1.057)	2368863	500.000	460
62 1,1,2,2-Tetrachloroethane	83	13.279	13.278	(1.076)	264073	500.000	440
63 1,3-Dichlorobenzene	146	14.088	14.087	(0.997)	1052248	500.000	450

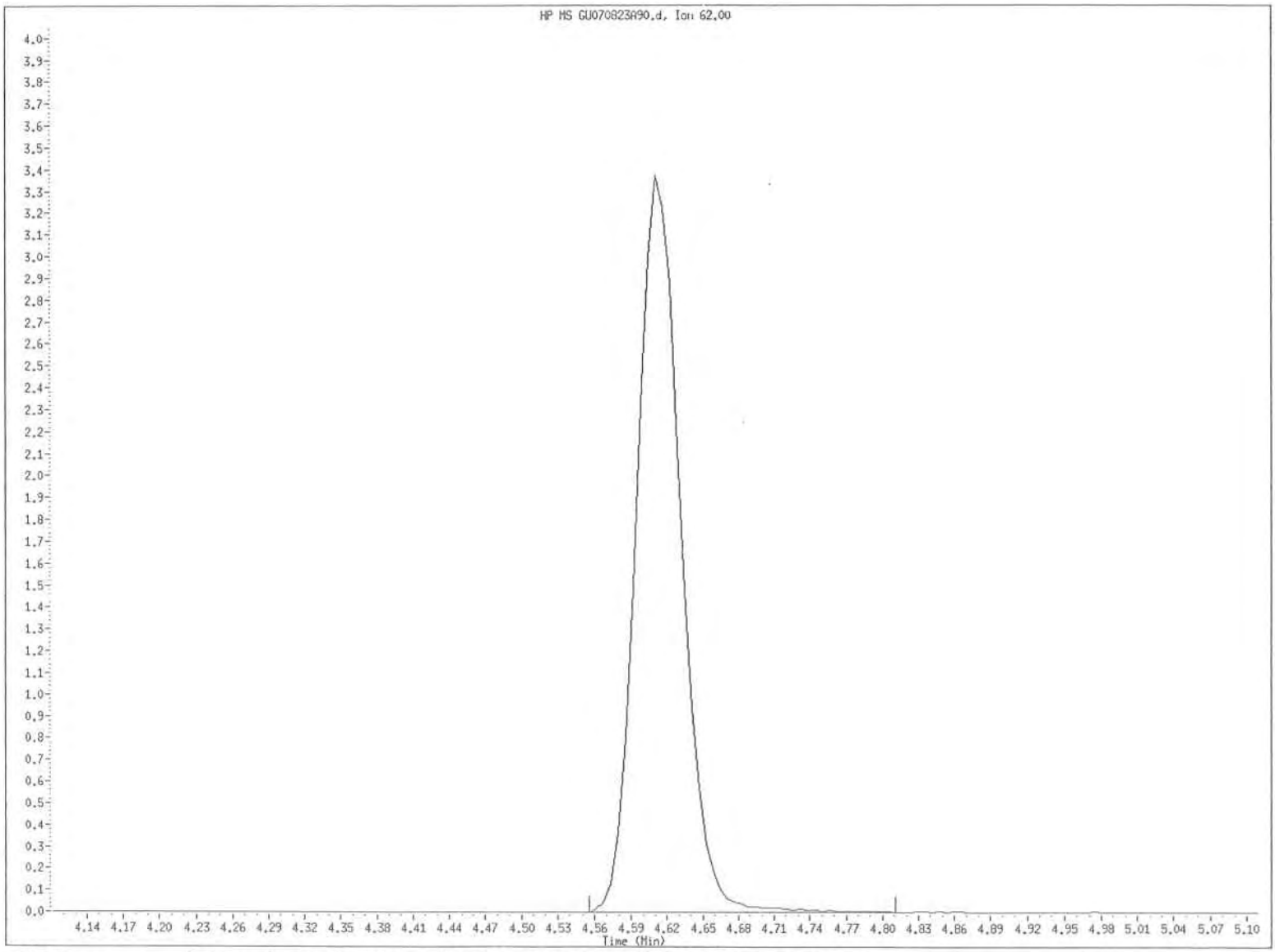
Data File: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Report Date: 03-Sep-2007 09:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.155	14.154	(1.002)	987759	500.000	450
65 1,2-Dichlorobenzene	146	14.490	14.489	(1.025)	827813	500.000	450
66 1,2-Dibromo-3-chloropropane	75	15.171	15.170	(1.074)	65740	500.000	460
67 1,2,4-Trichlorobenzene	180	15.980	15.979	(1.131)	657654	500.000	460
68 1,2,3-Trichlorobenzene	180	16.564	16.569	(1.172)	520926	500.000	460

QC Flag Legend

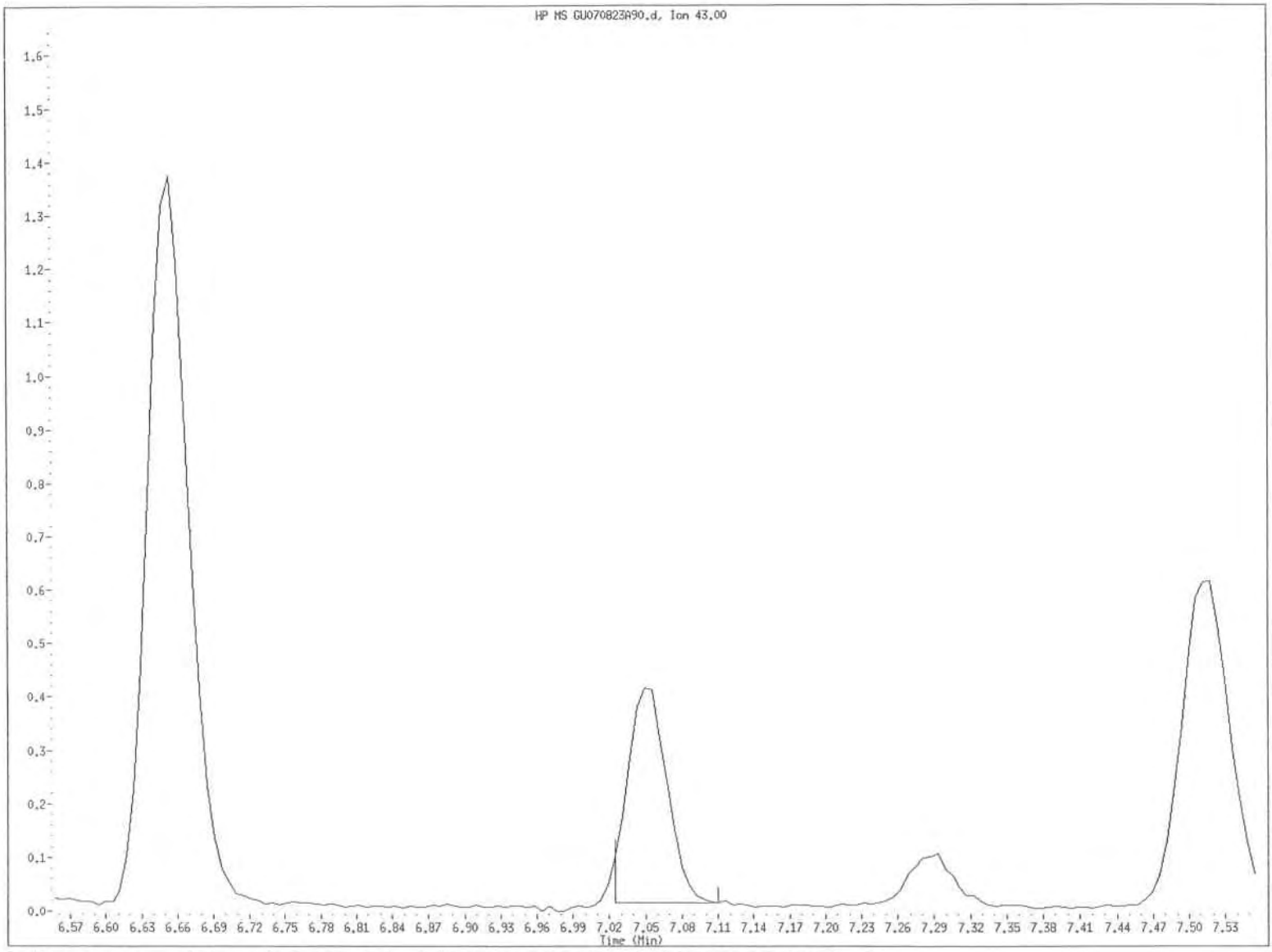
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Vinyl chloride CAS Number 75-01-4 Area = 865654 Manually integrated



File name: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Client ID: VSTD020RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:49
Retention Time: 4.61
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 90238 User selected hit



File name: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d
Client ID: VSTD020RR
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 12:49
Retention Time: 7.05
Operator ID: 2481

b. Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3, VOA- SIM)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibration standards from the same instrument are used, they shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5972HP73 Calibration Date: 09/13/2007 Time: 0:23

Lab File ID: GZ070912B73 Init. Calib. Date(s): 09/12/2007 09/12/2007

EPA Sample No. (VSTD#####): VSTD005UT Init. Calib. Time(s): 20:37 22:36

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.125	1.258	0.010	11.8	±50.0
Chloromethane	0.625	0.699	0.010	11.8	±50.0
Vinyl chloride	0.374	0.414	0.010	10.8	±50.0
Bromomethane	0.237	0.236	0.010	-0.5	±50.0
Chloroethane	0.136	0.160	0.010	17.5	±50.0
Trichlorofluoromethane	0.527	0.588	0.010	11.5	±50.0
1,1-Dichloroethene	0.574	0.636	0.010	10.7	±50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.372	0.423	0.010	13.8	±50.0
Acetone	0.048	0.047	0.010	-2.7	±50.0
Carbon disulfide	2.325	2.520	0.010	8.4	±50.0
Methyl acetate	0.115	0.120	0.010	4.7	±50.0
Methylene chloride	0.562	0.614	0.010	9.3	±50.0
trans-1,2-Dichloroethene	0.657	0.711	0.010	8.2	±50.0
Methyl tert-butyl ether	0.575	0.597	0.010	3.8	±50.0
1,1-Dichloroethane	1.000	1.086	0.010	8.6	±50.0
cis-1,2-Dichloroethene	0.585	0.632	0.010	7.9	±50.0
2-Butanone	0.066	0.071	0.010	8.0	±50.0
Bromochloromethane	0.238	0.242	0.010	1.7	±50.0
Chloroform	0.968	1.110	0.010	14.8	±50.0
1,1,1-Trichloroethane	0.875	0.905	0.010	3.5	±50.0
Cyclohexane	0.562	0.430	0.010	-23.4	±50.0
Carbon tetrachloride	0.694	0.708	0.010	2.1	±50.0
Benzene	2.493	2.652	0.010	6.4	±50.0
1,2-Dichloroethane	0.401	0.445	0.010	10.8	±50.0
Trichloroethene	0.673	0.761	0.010	13.1	±50.0
Methylcyclohexane	0.346	0.319	0.010	-8.0	±50.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5972HP73 Calibration Date: 09/13/2007 Time: 0:23

Lab File ID: GZ070912B73 Init. Calib. Date(s): 09/12/2007 09/12/2007

EPA Sample No. (VSTD#####): VSTD005UT Init. Calib. Time(s): 20:37 22:36

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.542	0.590	0.010	8.9	±50.0
Bromodichloromethane	0.657	0.712	0.010	8.3	±50.0
cis-1,3-Dichloropropene	0.677	0.700	0.010	3.4	±50.0
4-Methyl-2-pentanone	0.170	0.188	0.010	10.4	±50.0
Toluene	2.140	2.337	0.010	9.2	±50.0
trans-1,3-Dichloropropene	0.494	0.500	0.010	1.3	±50.0
1,1,2-Trichloroethane	0.306	0.316	0.010	3.4	±50.0
Tetrachloroethene	0.443	0.478	0.010	8.1	±50.0
2-Hexanone	0.126	0.138	0.010	9.3	±50.0
Dibromochloromethane	0.379	0.412	0.010	8.6	±50.0
1,2-Dibromoethane	0.288	0.303	0.010	5.1	±50.0
Chlorobenzene	1.363	1.438	0.010	5.5	±50.0
Ethylbenzene	1.948	2.114	0.010	8.5	±50.0
o-Xylene	0.683	0.753	0.010	10.3	±50.0
m,p-Xylene	0.728	0.787	0.010	8.1	±50.0
Styrene	0.933	1.027	0.010	10.1	±50.0
Bromoform	0.419	0.445	0.010	6.3	±50.0
Isopropylbenzene	1.556	1.612	0.010	3.6	±50.0
1,1,2,2-Tetrachloroethane	0.306	0.295	0.010	-3.7	±50.0
1,3-Dichlorobenzene	1.733	1.618	0.010	-6.6	±50.0
1,4-Dichlorobenzene	1.756	1.793	0.010	2.1	±50.0
1,2-Dichlorobenzene	1.404	1.418	0.010	1.0	±50.0
1,2-Dibromo-3-chloropropane	0.068	0.068	0.010	-0.2	±50.0
1,2,4-Trichlorobenzene	0.671	0.562	0.010	-16.2	±50.0
1,2,3-Trichlorobenzene	0.541	0.477	0.010	-12.0	±50.0
tertiary butyl alcohol	0.011	0.010	0.010	-6.5	±50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5972HP73 Calibration Date: 09/13/2007 Time: 0:23

Lab File ID: GZ070912B73 Init. Calib. Date(s): 09/12/2007 09/12/2007

EPA Sample No. (VSTD#####): VSTD005UT Init. Calib. Time(s): 20:37 22:36

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

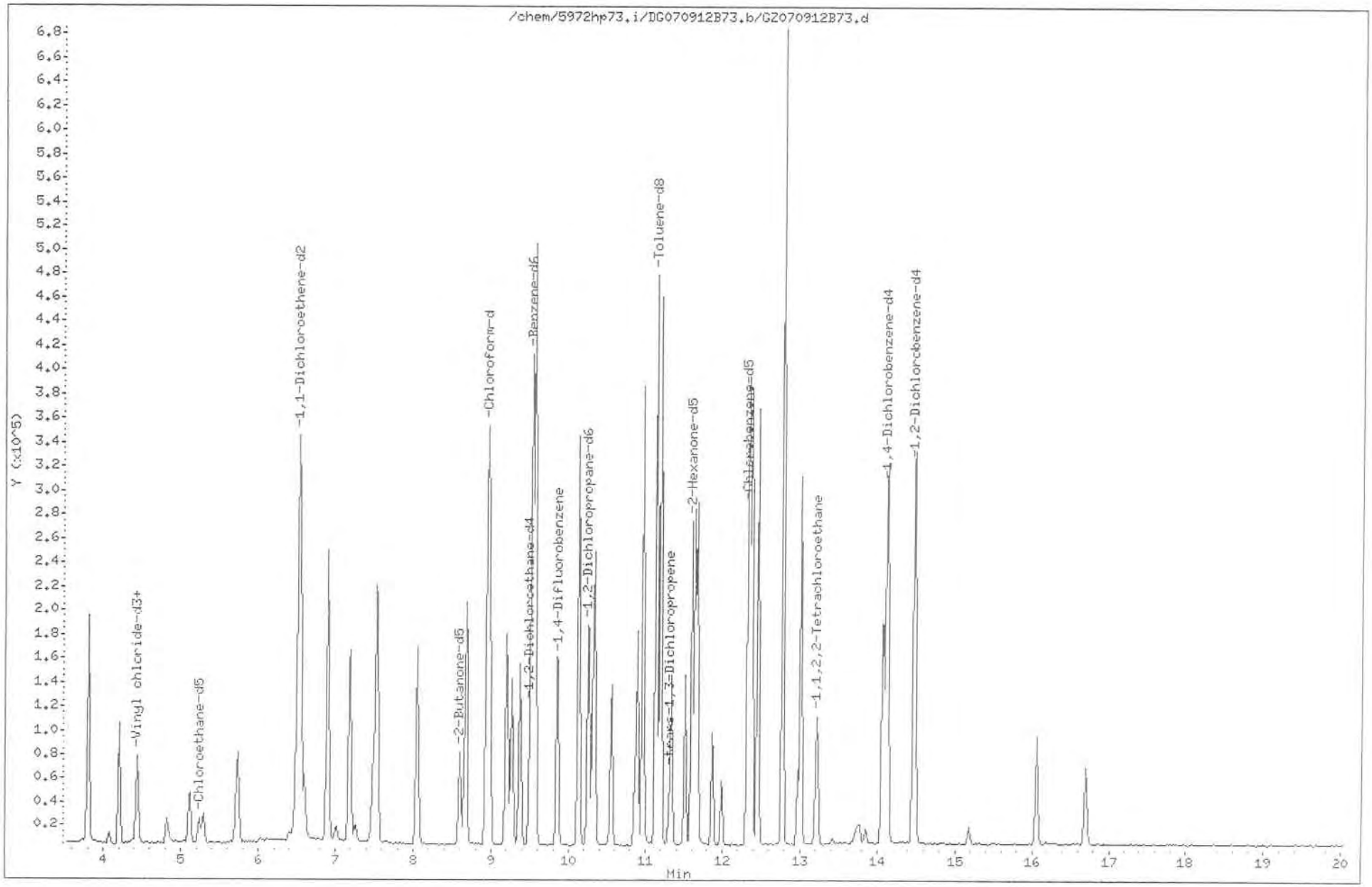
COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.200	0.218	0.010	8.9	± 50.0
Chloroethane-d5	0.132	0.151	0.010	14.6	± 50.0
1,1-Dichloroethene-d2	1.146	1.234	0.010	7.7	± 50.0
2-Butanone-d5	0.062	0.063	0.010	2.5	± 50.0
Chloroform-d	1.075	1.179	0.010	9.6	± 50.0
1,2-Dichloroethane-d4	0.346	0.388	0.010	12.1	± 50.0
Benzene-d6	2.668	2.743	0.010	2.8	± 50.0
1,2-Dichloropropane-d6	0.736	0.784	0.010	6.5	± 50.0
Toluene-d8	2.177	2.272	0.010	4.3	± 50.0
trans-1,3-Dichloropropene-d4	0.132	0.135	0.010	2.3	± 50.0
2-Hexanone-d5	0.061	0.067	0.010	10.0	± 50.0
1,1,2,2-Tetrachloroethane-d2	0.369	0.358	0.010	-2.9	± 50.0
1,2-Dichlorobenzene-d4	1.281	1.235	0.010	-3.5	± 50.0

Data File: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Date : 13-SEP-2007 00:23
Client ID: VSTD005UT
Sample Info: VSTD005UT:2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i

Operator: 2660
Column diameter: 0.32

ORIGINAL



Data File: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Report Date: 13-Sep-2007 11:57

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Lab Smp Id: VSTD005UT Client Smp ID: VSTD005UT
Inj Date : 13-SEP-2007 00:23
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VSTD005UT:2660
Misc Info : VMS:1449:150450
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:56 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:36 Cal File: GW070912B73.d
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.860	9.860	(1.000)	163025	125.000	
* 2	Chlorobenzene-d5	117	12.315	12.315	(1.000)	142107	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.108	14.108	(1.000)	70002	125.000	
$ 4	Vinyl chloride-d3	65	4.427	4.427	(0.449)	35475	125.000	140
$ 5	Chloroethane-d5	69	5.245	5.245	(0.532)	24685	125.000	140
$ 6	1,1-Dichloroethene-d2	63	6.517	6.517	(0.661)	201209	125.000	130
$ 7	2-Butanone-d5	46	8.589	8.589	(0.871)	103455	1250.00	1300
$ 8	Chloroform-d	84	8.972	8.972	(0.910)	192139	125.000	140
$ 9	1,2-Dichloroethane-d4	65	9.494	9.494	(0.963)	63306	125.000	140
$ 10	Benzene-d6	84	9.529	9.529	(0.774)	389835	125.000	130
$ 11	1,2-Dichloropropane-d6	67	10.243	10.243	(0.832)	111379	125.000	130
$ 12	Toluene-d8	98	11.148	11.148	(0.905)	322832	125.000	130
$ 13	trans-1,3-Dichloropropene-d4	79	11.322	11.322	(0.919)	19211	125.000	130
$ 14	2-Hexanone-d5	63	11.601	11.601	(0.942)	94799	1250.00	1400
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.220	13.220	(1.074)	50918	125.000	120
$ 17	1,2-Dichlorobenzene-d4	152	14.457	14.457	(1.025)	86473	125.000	120(H)

8
9-13-7

Data File: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Report Date: 13-Sep-2007 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18	Dichlorodifluoromethane	85	3.800	3.800	(0.385)	205082	125.000	140
19	Chloromethane	50	4.201	4.201	(0.426)	113944	125.000	140
20	Vinyl chloride	62	4.427	4.427	(0.449)	67525	125.000	140
21	Bromomethane	94	5.123	5.123	(0.520)	38510	125.000	120
22	Chloroethane	64	5.298	5.298	(0.537)	26119	125.000	150
23	Trichlorofluoromethane	101	5.733	5.733	(0.581)	95807	125.000	140
24	1,1-Dichloroethene	96	6.534	6.534	(0.663)	103605	125.000	140
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.499	6.499	(0.659)	68931	125.000	140
26	Acetone	43	6.586	6.586	(0.668)	76414	1250.00	1200
27	Carbon disulfide	76	6.900	6.900	(0.700)	410894	125.000	140
28	Methyl acetate	43	7.022	7.022	(0.712)	19566	125.000	130
29	Bromochloromethane	128	8.954	8.954	(0.908)	39475	125.000	130
30	Methylene chloride	84	7.196	7.196	(0.730)	100132	125.000	140
107	tertiary butyl alcohol	59	7.265	7.265	(0.737)	16775	1250.00	1200
31	trans-1,2-Dichloroethene	96	7.544	7.544	(0.765)	115975	125.000	140
32	Methyl tert-butyl ether	73	7.492	7.492	(0.760)	97346	125.000	130
33	1,1-Dichloroethane	63	8.049	8.049	(0.816)	177004	125.000	140
34	cis-1,2-Dichloroethene	96	8.676	8.676	(0.880)	102986	125.000	130
35	2-Butanone	43	8.658	8.658	(0.878)	116013	1250.00	1300
36	Chloroform	83	8.989	8.989	(0.912)	181022	125.000	140
37	1,1,1-Trichloroethane	97	9.198	9.198	(0.747)	128666	125.000	130
38	Cyclohexane	56	9.268	9.268	(0.753)	61159	125.000	96
39	Carbon tetrachloride	117	9.372	9.372	(0.761)	100655	125.000	130
40	Benzene	78	9.564	9.564	(0.777)	376827	125.000	130
41	1,2-Dichloroethane	62	9.564	9.564	(0.970)	72487	125.000	140
42	Trichloroethene	95	10.121	10.121	(0.822)	108203	125.000	140
43	Methylcyclohexane	83	10.312	10.312	(0.837)	45284	125.000	110
44	1,2-Dichloropropane	63	10.330	10.330	(0.839)	83821	125.000	140
45	Bromodichloromethane	83	10.556	10.556	(0.857)	101187	125.000	140
46	cis-1,3-Dichloropropene	75	10.905	10.905	(0.885)	99487	125.000	130
47	4-Methyl-2-pentanone	43	10.974	10.974	(0.891)	267378	1250.00	1400
48	Toluene	91	11.201	11.201	(0.909)	332105	125.000	140
49	trans-1,3-Dichloropropene	75	11.340	11.340	(0.921)	71113	125.000	130
50	1,1,2-Trichloroethane	97	11.514	11.514	(0.935)	44911	125.000	130
51	Tetrachloroethene	164	11.671	11.671	(0.948)	67996	125.000	140
52	2-Hexanone	43	11.636	11.636	(0.945)	196359	1250.00	1400
53	Dibromochloromethane	129	11.862	11.862	(0.963)	58569	125.000	140
54	1,2-Dibromoethane	107	11.984	11.984	(0.973)	43085	125.000	130
55	Chlorobenzene	112	12.332	12.332	(1.001)	204289	125.000	130
56	Ethylbenzene	91	12.367	12.367	(1.004)	300476	125.000	140
57	m,p-Xylene	106	12.454	12.454	(1.011)	111813	125.000	140
58	o-Xylene	106	12.768	12.768	(1.037)	106979	125.000	140
59	Styrene	104	12.768	12.768	(1.037)	145955	125.000	140
60	Bromoform	173	12.977	12.977	(0.920)	31169	125.000	130
61	Isopropylbenzene	105	13.011	13.011	(1.057)	229022	125.000	130
62	1,1,2,2-Tetrachloroethane	83	13.238	13.238	(1.075)	41859	125.000	120
63	1,3-Dichlorobenzene	146	14.074	14.074	(0.998)	113289	125.000	120

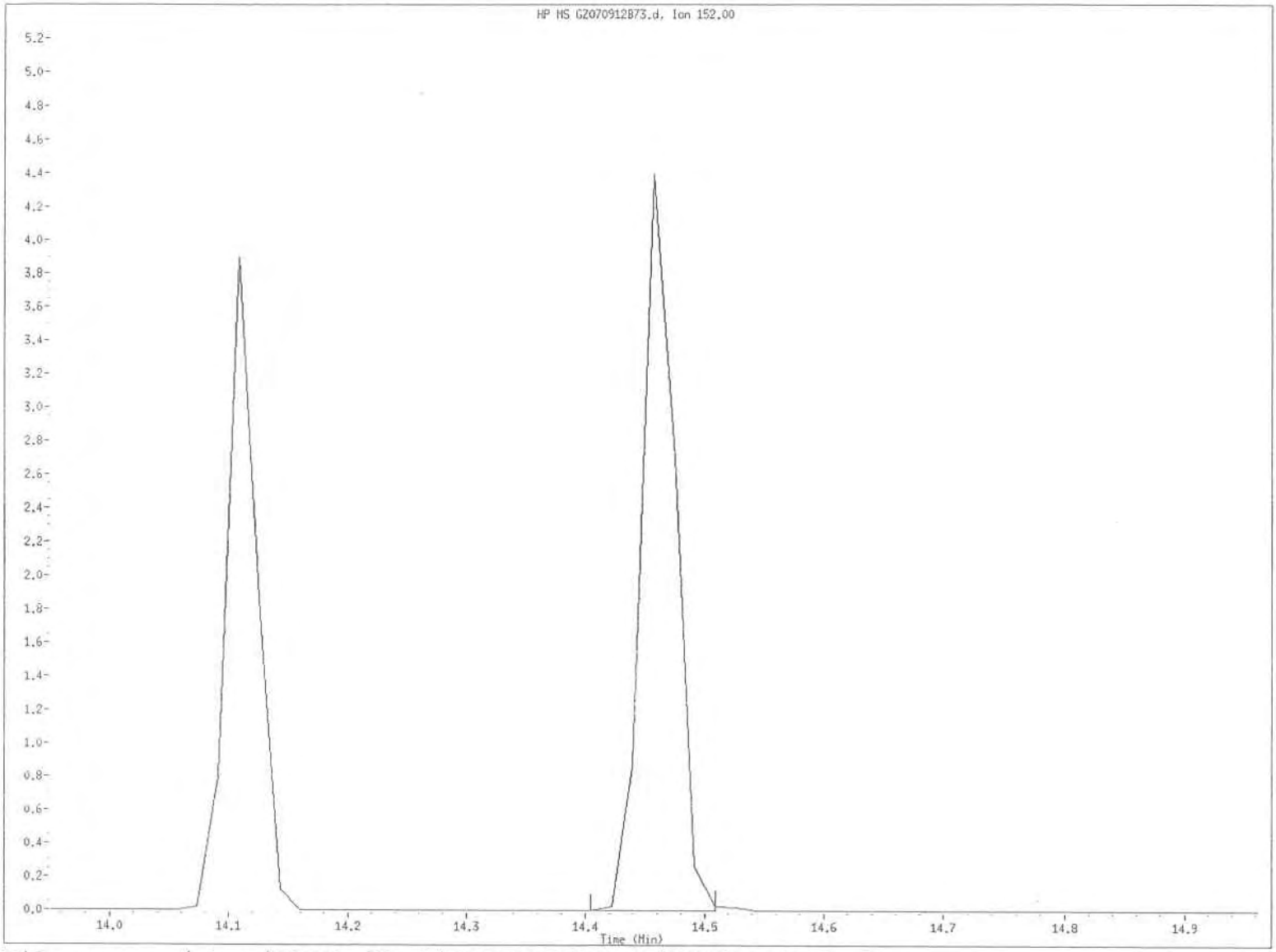
Data File: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Report Date: 13-Sep-2007 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.126	14.126	(1.001)	125516	125.000	130
65 1,2-Dichlorobenzene	146	14.474	14.474	(1.026)	99276	125.000	130
66 1,2-Dibromo-3-chloropropane	75	15.188	15.188	(1.077)	4743	125.000	120
67 1,2,4-Trichlorobenzene	180	16.058	16.058	(1.138)	39351	125.000	100
68 1,2,3-Trichlorobenzene	180	16.685	16.685	(1.183)	33357	125.000	110

QC Flag Legend

H - Operator selected an alternate compound hit.

1,2-Dichlorobenzene-d4 CAS Number 2199-69-1 Area = 86473 User selected hit



File name: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Client ID: VSTD005UT
Instrument ID: 5972hp73.i
Injection Date and Time: 13-SEP-2007 00:23
Retention Time: 14.46
Operator ID: 2660

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/23/2007 Time: 20:37

Lab File ID: GZ070823A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RS Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	1.138	0.010	-0.9	±50.0
Chloromethane	0.598	0.641	0.010	7.3	±50.0
Vinyl chloride	0.638	0.698	0.010	9.3	±50.0
Bromomethane	0.440	0.290	0.010	-34.2	±50.0
Chloroethane	0.326	0.346	0.010	6.1	±50.0
Trichlorofluoromethane	1.278	1.286	0.010	0.6	±50.0
1,1-Dichloroethene	0.474	0.461	0.010	-2.7	±50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.537	0.010	-3.2	±50.0
Acetone	0.028	0.028	0.010	-1.7	±50.0
Carbon disulfide	1.537	1.626	0.010	5.8	±50.0
Methyl acetate	0.074	0.080	0.010	7.7	±50.0
Methylene chloride	0.413	0.430	0.010	4.1	±50.0
trans-1,2-Dichloroethene	0.542	0.541	0.010	-0.2	±50.0
Methyl tert-butyl ether	0.768	0.700	0.010	-8.8	±50.0
1,1-Dichloroethane	0.756	0.784	0.010	3.6	±50.0
cis-1,2-Dichloroethene	0.351	0.363	0.010	3.4	±50.0
2-Butanone	0.045	0.048	0.010	5.8	±50.0
Bromochloromethane	0.136	0.133	0.010	-2.1	±50.0
Chloroform	0.788	0.800	0.010	1.5	±50.0
1,1,1-Trichloroethane	0.991	0.898	0.010	-9.4	±50.0
Cyclohexane	0.518	0.475	0.010	-8.4	±50.0
Carbon tetrachloride	0.930	0.858	0.010	-7.7	±50.0
Benzene	1.359	1.363	0.010	0.3	±50.0
1,2-Dichloroethane	0.450	0.474	0.010	5.4	±50.0
Trichloroethene	0.447	0.419	0.010	-6.2	±50.0
Methylcyclohexane	0.574	0.506	0.010	-12.0	±50.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/23/2007 Time: 20:37

Lab File ID: GZ070823A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RS Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.337	0.010	6.4	±50.0
Bromodichloromethane	0.585	0.578	0.010	-1.2	±50.0
cis-1,3-Dichloropropene	0.523	0.498	0.010	-4.9	±50.0
4-Methyl-2-pentanone	0.113	0.124	0.010	9.7	±50.0
Toluene	1.513	1.524	0.010	0.8	±50.0
trans-1,3-Dichloropropene	0.454	0.424	0.010	-6.5	±50.0
1,1,2-Trichloroethane	0.195	0.197	0.010	0.8	±50.0
Tetrachloroethene	0.343	0.323	0.010	-5.8	±50.0
2-Hexanone	0.081	0.090	0.010	11.0	±50.0
Dibromochloromethane	0.329	0.328	0.010	-0.2	±50.0
1,2-Dibromoethane	0.200	0.194	0.010	-3.3	±50.0
Chlorobenzene	0.958	0.977	0.010	1.9	±50.0
Ethylbenzene	1.801	1.800	0.010	-0.1	±50.0
o-Xylene	0.638	0.655	0.010	2.6	±50.0
m,p-Xylene	0.665	0.649	0.010	-2.5	±50.0
Styrene	0.860	0.920	0.010	7.0	±50.0
Bromoform	0.327	0.318	0.010	-2.9	±50.0
Isopropylbenzene	1.813	1.720	0.010	-5.1	±50.0
1,1,2,2-Tetrachloroethane	0.211	0.222	0.010	5.2	±50.0
1,3-Dichlorobenzene	1.522	1.425	0.010	-6.4	±50.0
1,4-Dichlorobenzene	1.442	1.399	0.010	-3.0	±50.0
1,2-Dichlorobenzene	1.208	1.182	0.010	-2.2	±50.0
1,2-Dibromo-3-chloropropane	0.094	0.083	0.010	-11.7	±50.0
1,2,4-Trichlorobenzene	0.936	0.802	0.010	-14.2	±50.0
1,2,3-Trichlorobenzene	0.749	0.649	0.010	-13.2	±50.0
tertiary butyl alcohol	0.015	0.014	0.010	-8.3	±50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/23/2007 Time: 20:37

Lab File ID: GZ070823A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RS Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

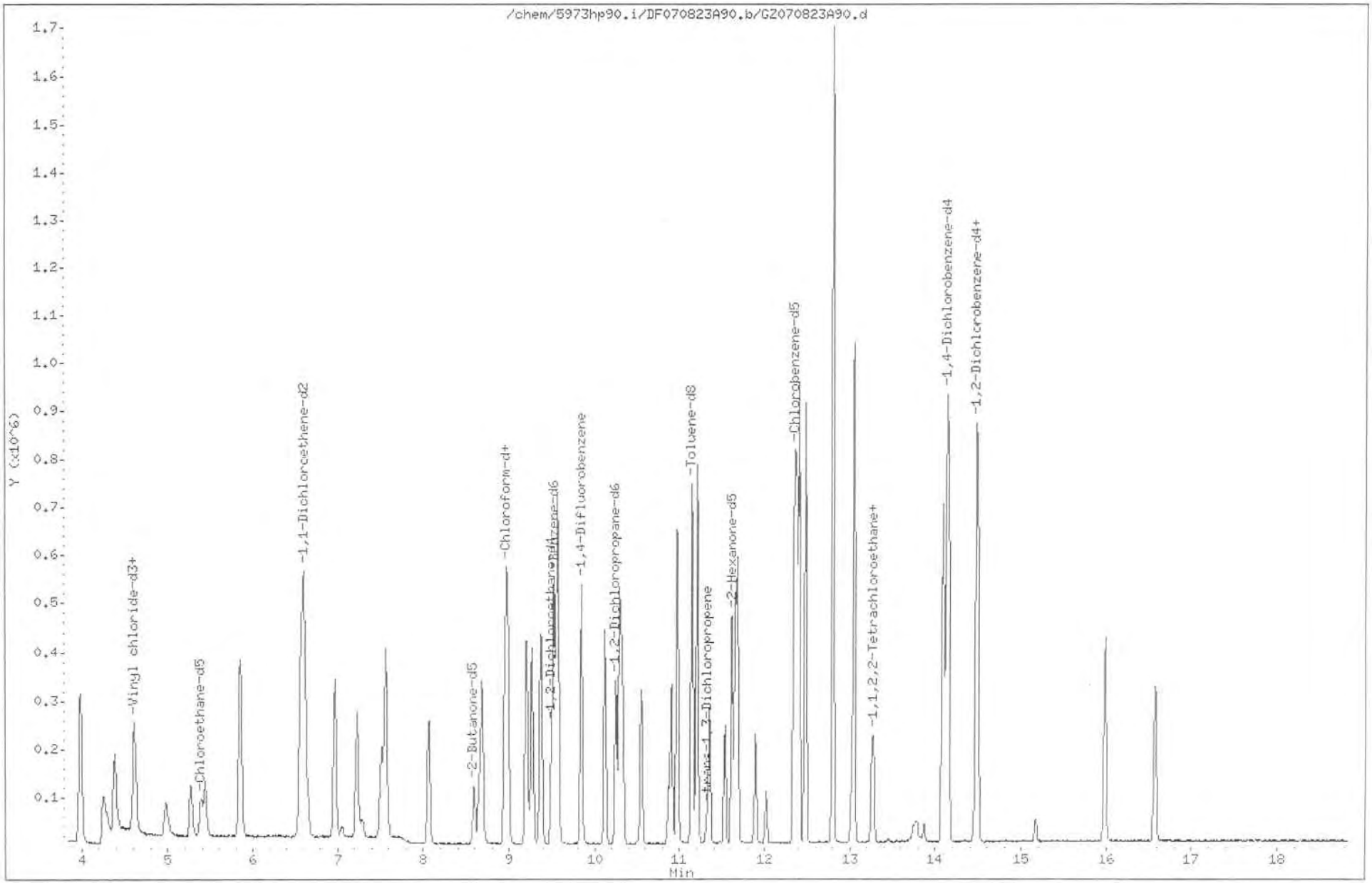
Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.324	0.010	2.9	± 50.0
Chloroethane-d5	0.264	0.282	0.010	6.9	± 50.0
1,1-Dichloroethene-d2	0.854	0.853	0.010	-0.1	± 50.0
2-Butanone-d5	0.047	0.043	0.010	-8.2	± 50.0
Chloroform-d	0.854	0.879	0.010	2.9	± 50.0
1,2-Dichloroethane-d4	0.391	0.392	0.010	0.4	± 50.0
Benzene-d6	1.315	1.293	0.010	-1.7	± 50.0
1,2-Dichloropropane-d6	0.374	0.441	0.010	17.7	± 50.0
Toluene-d8	1.306	1.311	0.010	0.4	± 50.0
trans-1,3-Dichloropropene-d4	0.121	0.100	0.010	-17.3	± 50.0
2-Hexanone-d5	0.041	0.041	0.010	0.9	± 50.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.226	0.010	4.6	± 50.0
1,2-Dichlorobenzene-d4	0.847	0.832	0.010	-1.7	± 50.0

ORIGINAL

Data File: /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Date : 23-AUG-2007 20:37
Client ID: VSTD005RS
Sample Info: VSTD005RS;2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Report Date: 03-Sep-2007 10:36

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Lab Smp Id: VSTD005RS Client Smp ID: VSTD005RS
Inj Date : 23-AUG-2007 20:37
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RS:2481
Misc Info : VMS:1445:149917
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:36 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.842	9.842	(1.000)	369192	125.000	
* 2	Chlorobenzene-d5	117	12.343	12.343	(1.000)	359262	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.131	14.131	(1.000)	194056	125.000	
$ 4	Vinyl chloride-d3	65	4.598	4.598	(0.467)	119487	125.000	130
$ 5	Chloroethane-d5	69	5.395	5.395	(0.548)	104171	125.000	130
$ 6	1,1-Dichloroethene-d2	63	6.594	6.594	(0.670)	314917	125.000	120
$ 7	2-Butanone-d5	46	8.589	8.589	(0.873)	159297	1250.00	1100
$ 8	Chloroform-d	84	8.966	8.966	(0.911)	324400	125.000	130
$ 9	1,2-Dichloroethane-d4	65	9.495	9.495	(0.965)	144686	125.000	130
$ 10	Benzene-d6	84	9.520	9.520	(0.771)	464524	125.000	120
$ 11	1,2-Dichloropropane-d6	67	10.250	10.250	(0.830)	158329	125.000	150
$ 12	Toluene-d8	98	11.144	11.144	(0.903)	471057	125.000	130
$ 13	trans-1,3-Dichloropropene-d4	79	11.320	11.320	(0.917)	35937	125.000	100
$ 14	2-Hexanone-d5	63	11.606	11.606	(0.940)	148208	1250.00	1300
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.255	13.255	(1.074)	81046	125.000	130
$ 17	1,2-Dichlorobenzene-d4	152	14.472	14.472	(1.024)	161445	125.000	120

Data File: /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Report Date: 03-Sep-2007 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
18	Dichlorodifluoromethane	85	3.984	3.984	(0.405)	420182	125.000	120	
19	Chloromethane	50	4.385	4.385	(0.446)	236702	125.000	130	
20	Vinyl chloride	62	4.610	4.610	(0.468)	257673	125.000	140	(M)
21	Bromomethane	94	5.274	5.274	(0.536)	106888	125.000	82	
22	Chloroethane	64	5.438	5.438	(0.552)	127622	125.000	130	(M)
23	Trichlorofluoromethane	101	5.851	5.851	(0.595)	474743	125.000	130	
24	1,1-Dichloroethene	96	6.618	6.618	(0.672)	170123	125.000	120	
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.563	6.563	(0.667)	198261	125.000	120	
26	Acetone	43	6.654	6.654	(0.676)	101797	1250.00	1200	
27	Carbon disulfide	76	6.971	6.971	(0.708)	600368	125.000	130	
28	Methyl acetate	43	7.044	7.044	(0.716)	29393	125.000	130	(MH)
29	Bromochloromethane	128	8.948	8.948	(0.909)	49063	125.000	120	
30	Methylene chloride	84	7.226	7.226	(0.734)	158629	125.000	130	
107	tertiary butyl alcohol	59	7.287	7.287	(0.740)	49936	1250.00	1100	
31	trans-1,2-Dichloroethene	96	7.561	7.561	(0.768)	199619	125.000	120	
32	Methyl tert-butyl ether	73	7.518	7.518	(0.764)	258425	125.000	110	
33	1,1-Dichloroethane	63	8.066	8.066	(0.819)	289309	125.000	130	
34	cis-1,2-Dichloroethene	96	8.686	8.686	(0.883)	133966	125.000	130	
35	2-Butanone	43	8.656	8.656	(0.879)	177469	1250.00	1300	
36	Chloroform	83	8.984	8.984	(0.913)	295184	125.000	130	
37	1,1,1-Trichloroethane	97	9.203	9.203	(0.746)	322486	125.000	110	
38	Cyclohexane	56	9.264	9.264	(0.751)	170475	125.000	110	
39	Carbon tetrachloride	117	9.368	9.368	(0.759)	308188	125.000	120	
40	Benzene	78	9.562	9.562	(0.775)	489734	125.000	130	
41	1,2-Dichloroethane	62	9.562	9.562	(0.972)	175165	125.000	130	
42	Trichloroethene	95	10.116	10.116	(0.820)	150703	125.000	120	
43	Methylcyclohexane	83	10.298	10.298	(0.834)	181712	125.000	110	
44	1,2-Dichloropropane	63	10.323	10.323	(0.836)	121162	125.000	130	
45	Bromodichloromethane	83	10.548	10.548	(0.855)	207528	125.000	120	
46	cis-1,3-Dichloropropene	75	10.907	10.907	(0.884)	178846	125.000	120	
47	4-Methyl-2-pentanone	43	10.968	10.968	(0.889)	446311	1250.00	1400	
48	Toluene	91	11.205	11.205	(0.908)	547632	125.000	130	
49	trans-1,3-Dichloropropene	75	11.351	11.351	(0.920)	152400	125.000	120	
50	1,1,2-Trichloroethane	97	11.533	11.533	(0.934)	70609	125.000	130	
51	Tetrachloroethene	164	11.679	11.679	(0.946)	115925	125.000	120	
52	2-Hexanone	43	11.649	11.649	(0.944)	323181	1250.00	1400	
53	Dibromochloromethane	129	11.892	11.892	(0.964)	117988	125.000	120	
54	1,2-Dibromoethane	107	12.014	12.014	(0.973)	69529	125.000	120	
55	Chlorobenzene	112	12.367	12.367	(1.002)	350823	125.000	130	
56	Ethylbenzene	91	12.397	12.397	(1.004)	646639	125.000	120	
57	m,p-Xylene	106	12.476	12.476	(1.011)	233008	125.000	120	
58	o-Xylene	106	12.799	12.799	(1.037)	235323	125.000	130	
59	Styrene	104	12.805	12.805	(1.037)	330346	125.000	130	
60	Bromoform	173	13.018	13.018	(0.921)	61685	125.000	120	
61	Isopropylbenzene	105	13.048	13.048	(1.057)	617829	125.000	120	
62	1,1,2,2-Tetrachloroethane	83	13.279	13.279	(1.076)	79661	125.000	130	
63	1,3-Dichlorobenzene	146	14.088	14.088	(0.997)	276542	125.000	120	

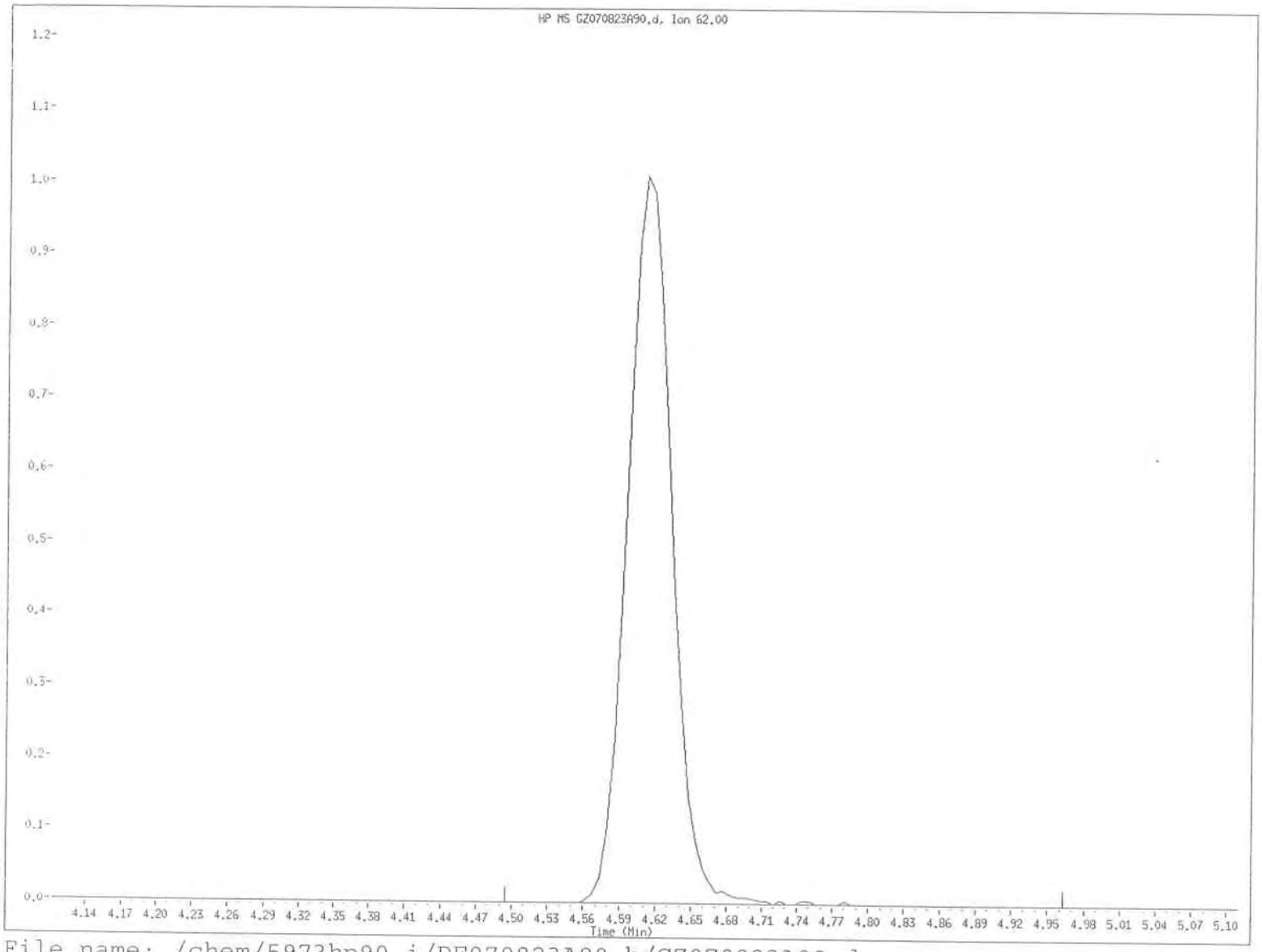
Data File: /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Report Date: 03-Sep-2007 10:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
64	1,4-Dichlorobenzene	146	14.155	14.155	(1.002)	271414	125.000	120
65	1,2-Dichlorobenzene	146	14.490	14.490	(1.025)	229344	125.000	120
66	1,2-Dibromo-3-chloropropane	75	15.171	15.171	(1.074)	16089	125.000	110
67	1,2,4-Trichlorobenzene	180	15.980	15.980	(1.131)	155711	125.000	110
68	1,2,3-Trichlorobenzene	180	16.571	16.571	(1.173)	126037	125.000	110

QC Flag Legend

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

Vinyl chloride CAS Number 75-01-4 Area = 257673 Manually integrated



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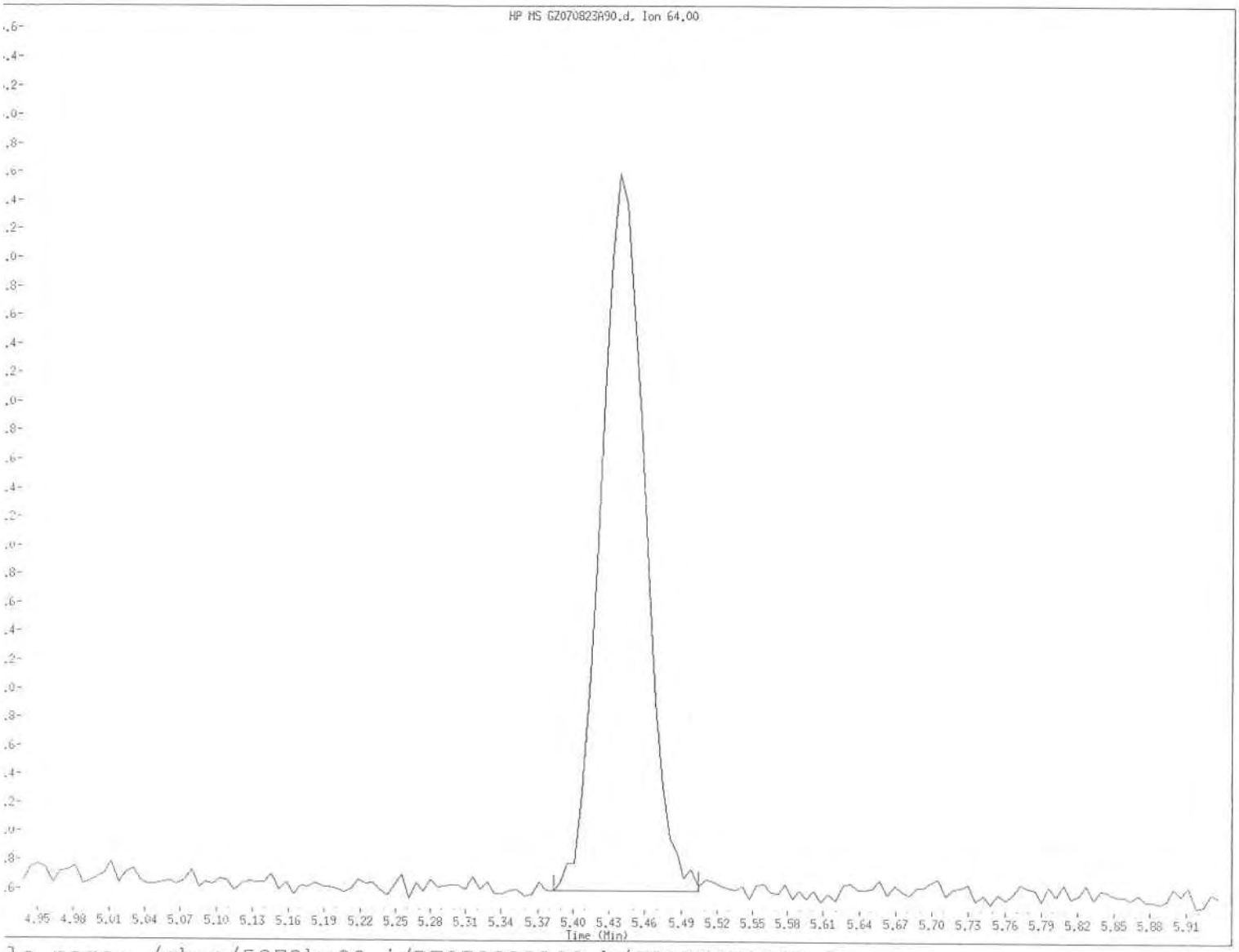
Client ID: VSTD005RS
Instrument ID: 5973hp90.i
Injection Date and Time: 23-AUG-2007 20:37
Retention Time: 4.61
Operator ID: 2481

:hloroethane CAS Number 75-00-3 Area = 127622 Manually integrated



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jection Date and Time: 23-AUG-2007 20:37
tention Time: 5.44
erator ID: 2481

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/24/2007 Time: 10:04

Lab File ID: GS070824A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RT Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	1.077	0.010	-6.2	±40.0
Chloromethane	0.598	0.546	0.010	-8.6	±40.0
Vinyl chloride	0.638	0.613	0.100	-3.9	±30.0
Bromomethane	0.440	0.330	0.100	-25.0	±30.0
Chloroethane	0.326	0.298	0.010	-8.4	±40.0
Trichlorofluoromethane	1.278	1.134	0.010	-11.3	±40.0
1,1-Dichloroethene	0.474	0.422	0.100	-10.8	±30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.467	0.010	-15.9	±40.0
Acetone	0.028	0.025	0.010	-11.2	±40.0
Carbon disulfide	1.537	1.446	0.010	-5.9	±40.0
Methyl acetate	0.074	0.073	0.010	-1.6	±40.0
Methylene chloride	0.413	0.389	0.010	-5.7	±40.0
trans-1,2-Dichloroethene	0.542	0.494	0.010	-8.8	±40.0
Methyl tert-butyl ether	0.768	0.692	0.010	-9.9	±40.0
1,1-Dichloroethane	0.756	0.730	0.200	-3.5	±30.0
cis-1,2-Dichloroethene	0.351	0.336	0.010	-4.2	±40.0
2-Butanone	0.045	0.042	0.010	-7.6	±40.0
Bromochloromethane	0.136	0.132	0.050	-2.5	±30.0
Chloroform	0.788	0.724	0.200	-8.1	±30.0
1,1,1-Trichloroethane	0.991	0.899	0.100	-9.3	±30.0
Cyclohexane	0.518	0.435	0.010	-16.0	±40.0
Carbon tetrachloride	0.930	0.852	0.100	-8.3	±30.0
Benzene	1.359	1.280	0.400	-5.8	±30.0
1,2-Dichloroethane	0.450	0.415	0.100	-7.9	±30.0
Trichloroethene	0.447	0.421	0.300	-5.9	±30.0
Methylcyclohexane	0.574	0.440	0.010	-23.3	±40.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/24/2007 Time: 10:04

Lab File ID: GS070824A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RT Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.302	0.010	-4.6	±40.0
Bromodichloromethane	0.585	0.545	0.200	-6.8	±30.0
cis-1,3-Dichloropropene	0.523	0.502	0.200	-4.0	±30.0
4-Methyl-2-pentanone	0.113	0.111	0.010	-2.1	±40.0
Toluene	1.513	1.461	0.400	-3.4	±30.0
trans-1,3-Dichloropropene	0.454	0.433	0.100	-4.6	±30.0
1,1,2-Trichloroethane	0.195	0.191	0.100	-2.2	±30.0
Tetrachloroethene	0.343	0.320	0.100	-6.6	±30.0
2-Hexanone	0.081	0.079	0.010	-2.7	±40.0
Dibromochloromethane	0.329	0.318	0.100	-3.3	±30.0
1,2-Dibromoethane	0.200	0.191	0.010	-4.8	±40.0
Chlorobenzene	0.958	0.936	0.500	-2.3	±30.0
Ethylbenzene	1.801	1.690	0.100	-6.2	±30.0
o-Xylene	0.638	0.640	0.300	0.2	±30.0
m,p-Xylene	0.665	0.627	0.300	-5.7	±30.0
Styrene	0.860	0.876	0.300	2.0	±30.0
Bromoform	0.327	0.327	0.050	0.0	±30.0
Isopropylbenzene	1.813	1.615	0.010	-10.9	±40.0
1,1,2,2-Tetrachloroethane	0.211	0.209	0.100	-0.9	±30.0
1,3-Dichlorobenzene	1.522	1.466	0.400	-3.7	±30.0
1,4-Dichlorobenzene	1.442	1.381	0.400	-4.3	±30.0
1,2-Dichlorobenzene	1.208	1.184	0.400	-2.0	±30.0
1,2-Dibromo-3-chloropropane	0.094	0.082	0.010	-12.5	±40.0
1,2,4-Trichlorobenzene	0.936	0.827	0.200	-11.6	±30.0
1,2,3-Trichlorobenzene	0.749	0.662	0.200	-11.6	±30.0
tertiary butyl alcohol	0.015	0.014	0.010	-7.7	±40.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/24/2007 Time: 10:04

Lab File ID: GS070824A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RT Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

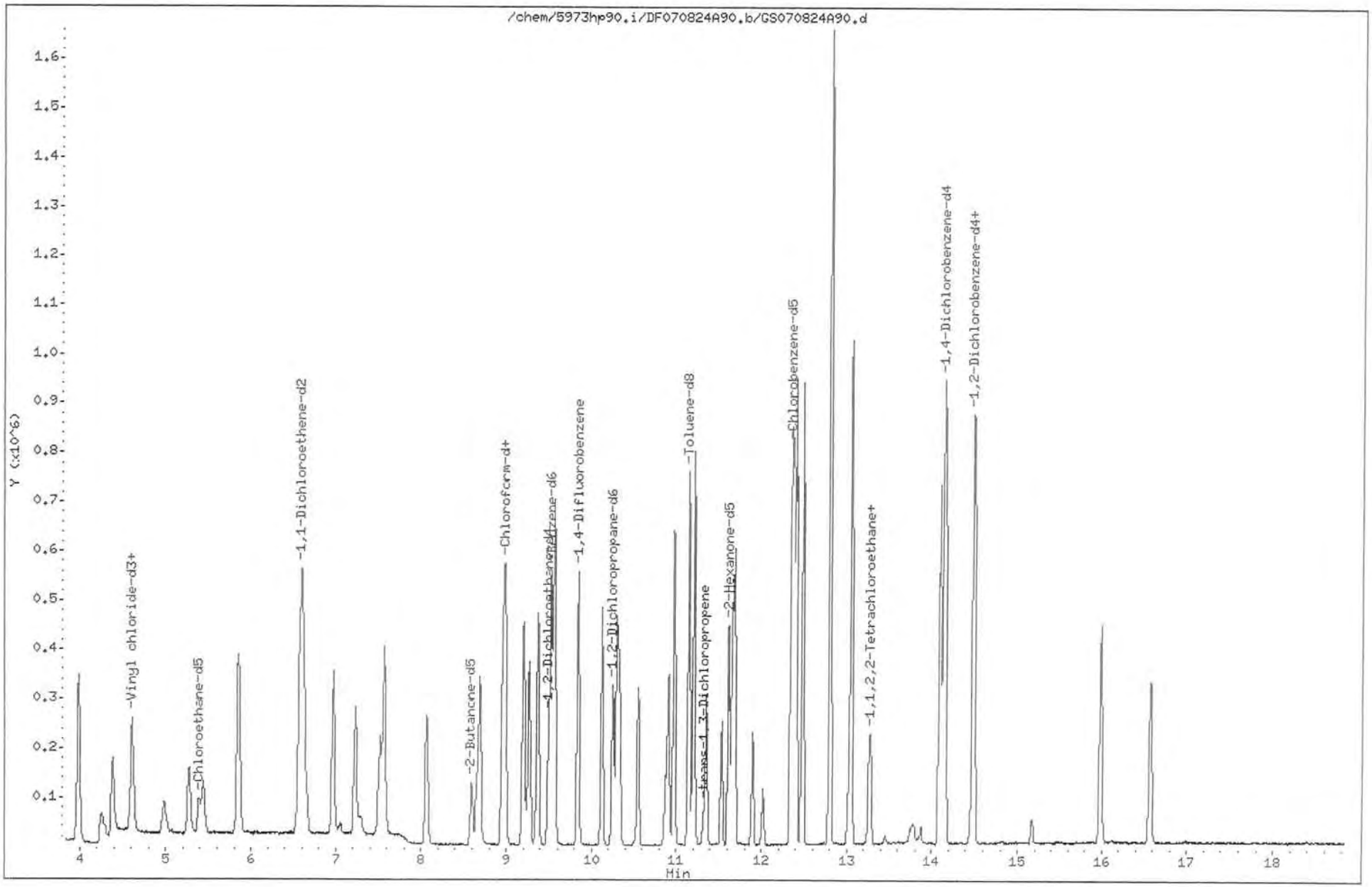
COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.286	0.010	-9.0	± 30.0
Chloroethane-d5	0.264	0.248	0.010	-6.1	± 40.0
1,1-Dichloroethene-d2	0.854	0.753	0.010	-11.9	± 30.0
2-Butanone-d5	0.047	0.042	0.010	-11.1	± 40.0
Chloroform-d	0.854	0.800	0.010	-6.3	± 30.0
1,2-Dichloroethane-d4	0.391	0.357	0.010	-8.5	± 30.0
Benzene-d6	1.315	1.238	0.010	-5.9	± 30.0
1,2-Dichloropropane-d6	0.374	0.357	0.010	-4.7	± 40.0
Toluene-d8	1.306	1.253	0.010	-4.1	± 30.0
trans-1,3-Dichloropropene-d4	0.121	0.109	0.010	-10.1	± 30.0
2-Hexanone-d5	0.041	0.038	0.010	-6.9	± 40.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.210	0.010	-2.8	± 30.0
1,2-Dichlorobenzene-d4	0.847	0.859	0.010	1.5	± 30.0

ORIGINAL

Data File: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Date : 24-AUG-2007 10:04
Client ID: VSTD005RT
Sample Info: VSTD005RT:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i

Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Report Date: 03-Sep-2007 11:00

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Lab Smp Id: VSTD005RT Client Smp ID: VSTD005RT
Inj Date : 24-AUG-2007 10:04
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RT:2481
Misc Info : VMS:1446:149924
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 1,4-Difluorobenzene	114	9.844	9.844	(1.000)	416549	125.000	
*	2 Chlorobenzene-d5	117	12.344	12.344	(1.000)	386712	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.132	14.132	(1.000)	202605	125.000	
$	4 Vinyl chloride-d3	65	4.600	4.600	(0.467)	119168	125.000	110
$	5 Chloroethane-d5	69	5.390	5.390	(0.548)	103254	125.000	120
$	6 1,1-Dichloroethene-d2	63	6.601	6.601	(0.671)	313492	125.000	110
$	7 2-Butanone-d5	46	8.590	8.590	(0.873)	174125	1250.00	1100
$	8 Chloroform-d	84	8.967	8.967	(0.911)	333057	125.000	120
$	9 1,2-Dichloroethane-d4	65	9.497	9.497	(0.965)	148836	125.000	110
$	10 Benzene-d6	84	9.521	9.521	(0.771)	478665	125.000	120
$	11 1,2-Dichloropropane-d6	67	10.245	10.245	(0.830)	137956	125.000	120
$	12 Toluene-d8	98	11.145	11.145	(0.903)	484462	125.000	120
$	13 trans-1,3-Dichloropropene-d4	79	11.322	11.322	(0.917)	42062	125.000	110
$	14 2-Hexanone-d5	63	11.608	11.608	(0.940)	147287	1250.00	1200
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.256	13.256	(1.074)	81081	125.000	120
$	17 1,2-Dichlorobenzene-d4	152	14.473	14.473	(1.024)	174082	125.000	130

Data File: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Report Date: 03-Sep-2007 11:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18 Dichlorodifluoromethane	85	3.985	3.985	(0.405)	448757	125.000	120
19 Chloromethane	50	4.381	4.381	(0.445)	227399	125.000	110
20 Vinyl chloride	62	4.612	4.612	(0.469)	255422	125.000	120 (M)
21 Bromomethane	94	5.269	5.269	(0.535)	137545	125.000	94
22 Chloroethane	64	5.439	5.439	(0.553)	124337	125.000	110 (M)
23 Trichlorofluoromethane	101	5.853	5.853	(0.595)	472372	125.000	110
24 1,1-Dichloroethene	96	6.613	6.613	(0.672)	175908	125.000	110
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.571	6.571	(0.667)	194421	125.000	110
26 Acetone	43	6.650	6.650	(0.676)	103778	1250.00	1100
27 Carbon disulfide	76	6.972	6.972	(0.708)	602321	125.000	120
28 Methyl acetate	43	7.051	7.051	(0.716)	30319	125.000	120 (MH)
29 Bromochloromethane	128	8.949	8.949	(0.909)	55124	125.000	120
30 Methylene chloride	84	7.228	7.228	(0.734)	162090	125.000	120
107 tertiary butyl alcohol	59	7.288	7.288	(0.740)	56700	1250.00	1200
31 trans-1,2-Dichloroethene	96	7.568	7.568	(0.769)	205860	125.000	110
32 Methyl tert-butyl ether	73	7.514	7.514	(0.763)	288135	125.000	110
33 1,1-Dichloroethane	63	8.061	8.061	(0.819)	304051	125.000	120
34 cis-1,2-Dichloroethene	96	8.688	8.688	(0.883)	140010	125.000	120
35 2-Butanone	43	8.651	8.651	(0.879)	174963	1250.00	1200
36 Chloroform	83	8.986	8.986	(0.913)	301626	125.000	110
37 1,1,1-Trichloroethane	97	9.205	9.205	(0.746)	347589	125.000	110
38 Cyclohexane	56	9.266	9.266	(0.751)	168134	125.000	100
39 Carbon tetrachloride	117	9.369	9.369	(0.759)	329572	125.000	110
40 Benzene	78	9.558	9.558	(0.774)	495153	125.000	120
41 1,2-Dichloroethane	62	9.564	9.564	(0.972)	172782	125.000	120
42 Trichloroethene	95	10.117	10.117	(0.820)	162684	125.000	120
43 Methylcyclohexane	83	10.300	10.300	(0.834)	170331	125.000	96
44 1,2-Dichloropropane	63	10.324	10.324	(0.836)	116876	125.000	120
45 Bromodichloromethane	83	10.549	10.549	(0.855)	210708	125.000	120
46 cis-1,3-Dichloropropene	75	10.908	10.908	(0.884)	194256	125.000	120
47 4-Methyl-2-pentanone	43	10.969	10.969	(0.889)	428705	1250.00	1200
48 Toluene	91	11.206	11.206	(0.908)	565177	125.000	120
49 trans-1,3-Dichloropropene	75	11.352	11.352	(0.920)	167376	125.000	120
50 1,1,2-Trichloroethane	97	11.529	11.529	(0.934)	73765	125.000	120
51 Tetrachloroethene	164	11.681	11.681	(0.946)	123794	125.000	120
52 2-Hexanone	43	11.650	11.650	(0.944)	304713	1250.00	1200
53 Dibromochloromethane	129	11.894	11.894	(0.964)	123059	125.000	120
54 1,2-Dibromoethane	107	12.015	12.015	(0.973)	73675	125.000	120
55 Chlorobenzene	112	12.368	12.368	(1.002)	361839	125.000	120
56 Ethylbenzene	91	12.399	12.399	(1.004)	653549	125.000	120
57 m,p-Xylene	106	12.478	12.478	(1.011)	242641	125.000	120
58 o-Xylene	106	12.800	12.800	(1.037)	247374	125.000	130
59 Styrene	104	12.806	12.806	(1.037)	338896	125.000	130
60 Bromoform	173	13.019	13.019	(0.921)	66328	125.000	120
61 Isopropylbenzene	105	13.049	13.049	(1.057)	624381	125.000	110
62 1,1,2,2-Tetrachloroethane	83	13.281	13.281	(1.076)	80785	125.000	120
63 1,3-Dichlorobenzene	146	14.090	14.090	(0.997)	297095	125.000	120

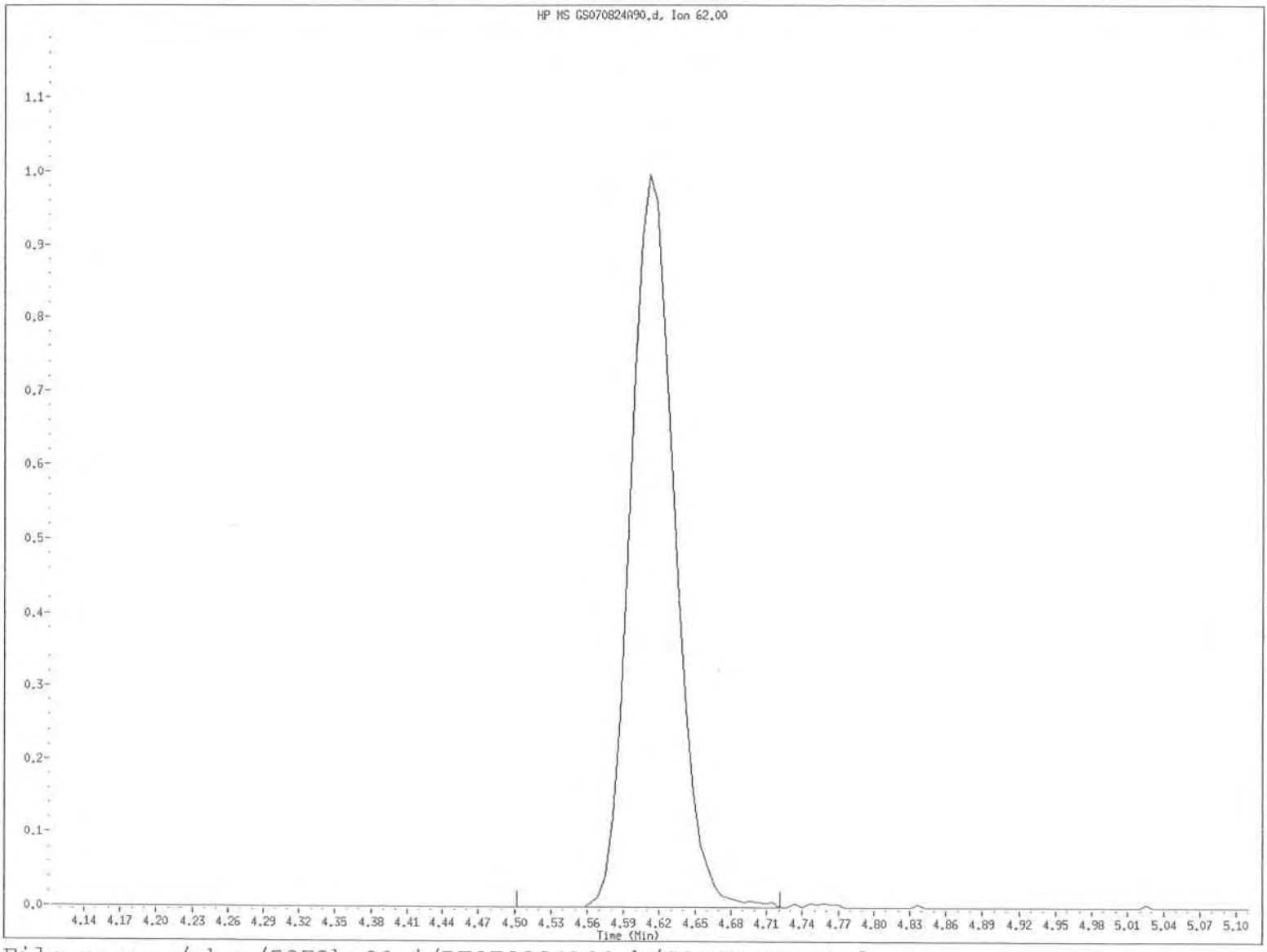
Data File: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Report Date: 03-Sep-2007 11:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.157	14.157	(1.002)	279707	125.000	120
65 1,2-Dichlorobenzene	146	14.491	14.491	(1.025)	239895	125.000	120
66 1,2-Dibromo-3-chloropropane	75	15.173	15.173	(1.074)	16648	125.000	110
67 1,2,4-Trichlorobenzene	180	15.982	15.982	(1.131)	167633	125.000	110
68 1,2,3-Trichlorobenzene	180	16.572	16.572	(1.173)	134088	125.000	110

QC Flag Legend

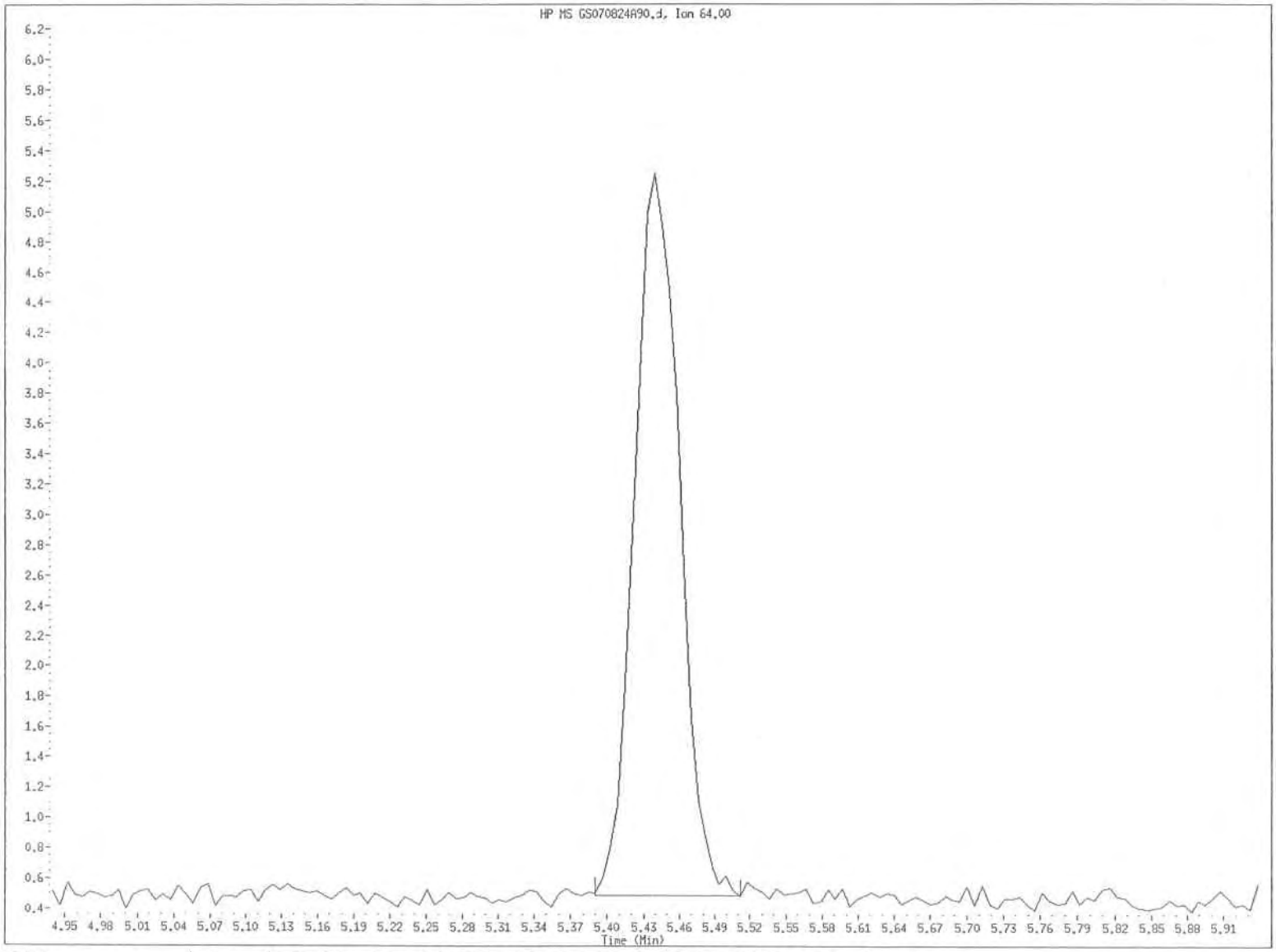
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Vinyl chloride CAS Number 75-01-4 Area = 255422 Manually integrated



File name: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Client ID: VSTD005RT
Instrument ID: 5973hp90.i
Injection Date and Time: 24-AUG-2007 10:04
Retention Time: 4.61
Operator ID: 2481

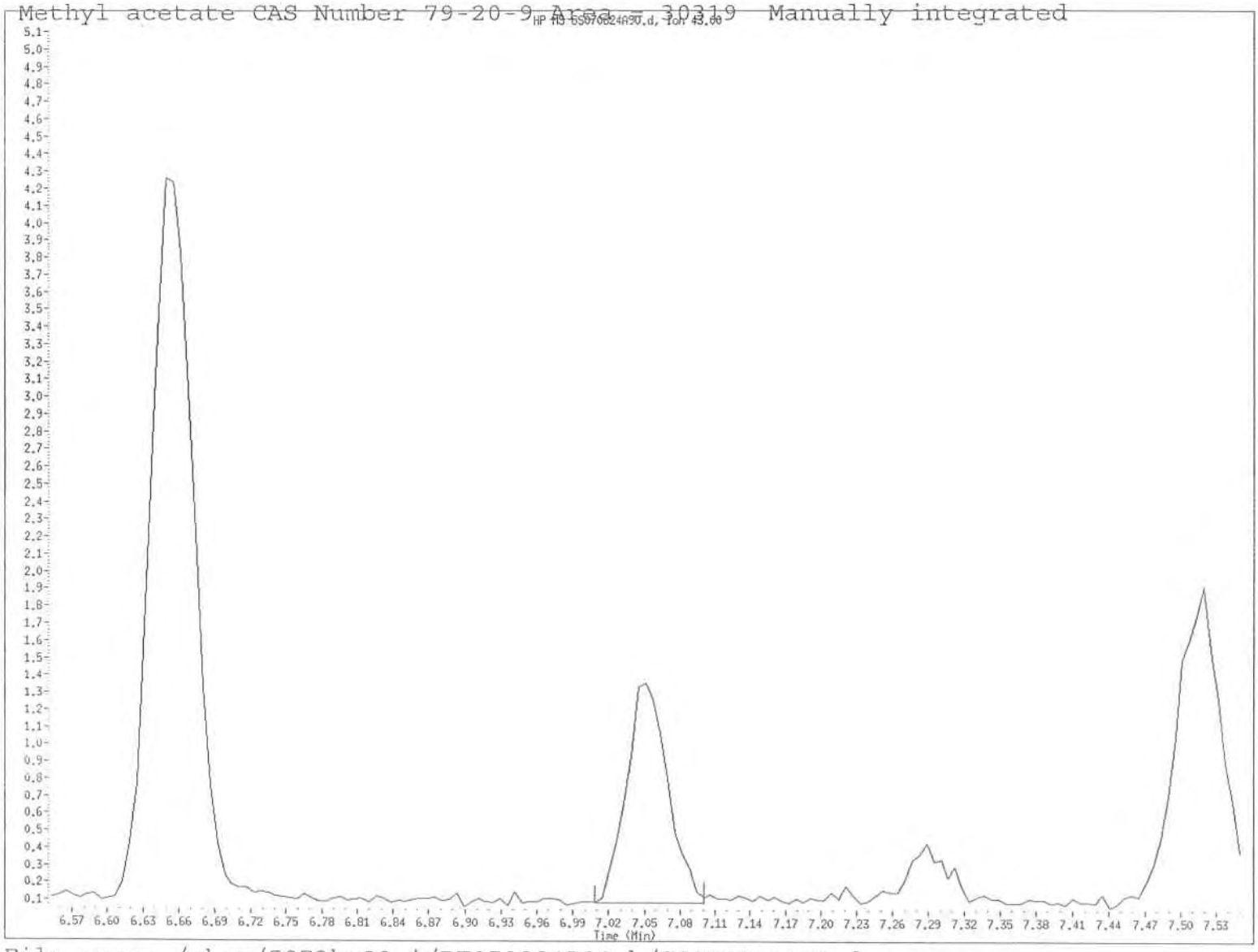
Chloroethane CAS Number 75-00-3 Area = 124337 Manually integrated



File name: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Client ID: VSTD005RT
Instrument ID: 5973hp90.i
Injection Date and Time: 24-AUG-2007 10:04
Retention Time: 5.44
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 30319 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 30319 Manually integrated



File name: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Client ID: VSTD005RT
Instrument ID: 5973hp90.i
Injection Date and Time: 24-AUG-2007 10:04
Retention Time: 7.05
Operator ID: 2481

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/24/2007 Time: 18:37

Lab File ID: GZ070824A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RU Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	1.124	0.010	-2.1	±50.0
Chloromethane	0.598	0.695	0.010	16.2	±50.0
Vinyl chloride	0.638	0.720	0.010	12.8	±50.0
Bromomethane	0.440	0.380	0.010	-13.6	±50.0
Chloroethane	0.326	0.371	0.010	13.9	±50.0
Trichlorofluoromethane	1.278	1.260	0.010	-1.4	±50.0
1,1-Dichloroethene	0.474	0.463	0.010	-2.2	±50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.521	0.010	-6.2	±50.0
Acetone	0.028	0.028	0.010	1.6	±50.0
Carbon disulfide	1.537	1.622	0.010	5.5	±50.0
Methyl acetate	0.074	0.080	0.010	8.1	±50.0
Methylene chloride	0.413	0.435	0.010	5.4	±50.0
trans-1,2-Dichloroethene	0.542	0.530	0.010	-2.2	±50.0
Methyl tert-butyl ether	0.768	0.643	0.010	-16.2	±50.0
1,1-Dichloroethane	0.756	0.769	0.010	1.7	±50.0
cis-1,2-Dichloroethene	0.351	0.359	0.010	2.2	±50.0
2-Butanone	0.045	0.045	0.010	-0.6	±50.0
Bromochloromethane	0.136	0.134	0.010	-1.3	±50.0
Chloroform	0.788	0.796	0.010	1.0	±50.0
1,1,1-Trichloroethane	0.991	0.904	0.010	-8.8	±50.0
Cyclohexane	0.518	0.443	0.010	-14.4	±50.0
Carbon tetrachloride	0.930	0.876	0.010	-5.7	±50.0
Benzene	1.359	1.394	0.010	2.5	±50.0
1,2-Dichloroethane	0.450	0.471	0.010	4.6	±50.0
Trichloroethene	0.447	0.408	0.010	-8.9	±50.0
Methylcyclohexane	0.574	0.456	0.010	-20.6	±50.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/24/2007 Time: 18:37

Lab File ID: GZ070824A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RU Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.349	0.010	10.1	±50.0
Bromodichloromethane	0.585	0.576	0.010	-1.4	±50.0
cis-1,3-Dichloropropene	0.523	0.471	0.010	-10.0	±50.0
4-Methyl-2-pentanone	0.113	0.122	0.010	7.5	±50.0
Toluene	1.513	1.595	0.010	5.4	±50.0
trans-1,3-Dichloropropene	0.454	0.413	0.010	-8.9	±50.0
1,1,2-Trichloroethane	0.195	0.199	0.010	2.0	±50.0
Tetrachloroethene	0.343	0.327	0.010	-4.4	±50.0
2-Hexanone	0.081	0.089	0.010	9.6	±50.0
Dibromochloromethane	0.329	0.318	0.010	-3.5	±50.0
1,2-Dibromoethane	0.200	0.190	0.010	-5.3	±50.0
Chlorobenzene	0.958	1.017	0.010	6.1	±50.0
Ethylbenzene	1.801	1.841	0.010	2.2	±50.0
o-Xylene	0.638	0.661	0.010	3.5	±50.0
m,p-Xylene	0.665	0.665	0.010	0.0	±50.0
Styrene	0.860	0.918	0.010	6.8	±50.0
Bromoform	0.327	0.305	0.010	-6.9	±50.0
Isopropylbenzene	1.813	1.657	0.010	-8.6	±50.0
1,1,2,2-Tetrachloroethane	0.211	0.227	0.010	7.8	±50.0
1,3-Dichlorobenzene	1.522	1.367	0.010	-10.2	±50.0
1,4-Dichlorobenzene	1.442	1.341	0.010	-7.0	±50.0
1,2-Dichlorobenzene	1.208	1.137	0.010	-5.9	±50.0
1,2-Dibromo-3-chloropropane	0.094	0.077	0.010	-18.5	±50.0
1,2,4-Trichlorobenzene	0.936	0.664	0.010	-29.1	±50.0
1,2,3-Trichlorobenzene	0.749	0.548	0.010	-26.8	±50.0
tertiary butyl alcohol	0.015	0.013	0.010	-13.9	±50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/24/2007 Time: 18:37

Lab File ID: GZ070824A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RU Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

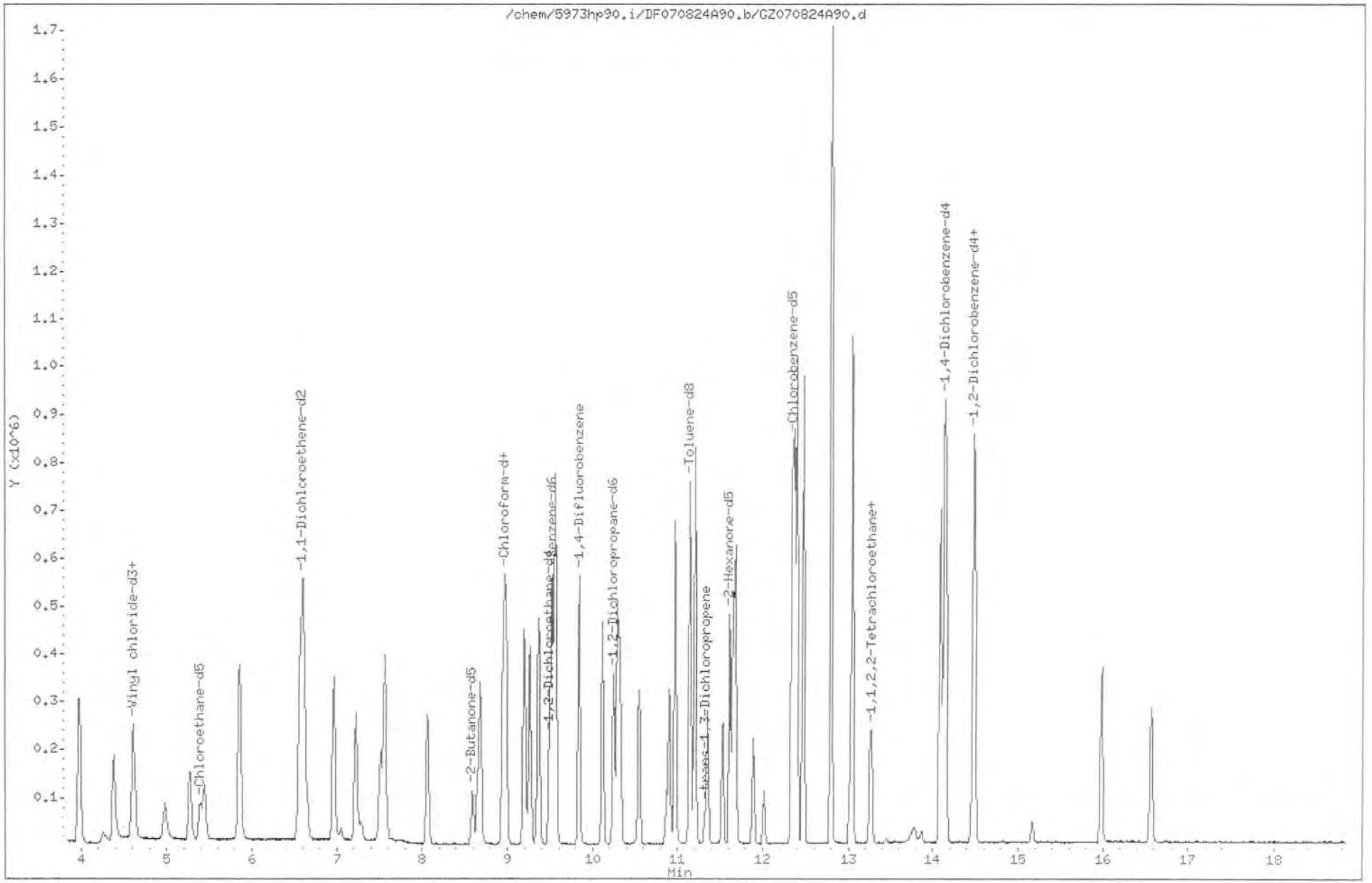
Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.319	0.010	1.4	± 50.0
Chloroethane-d5	0.264	0.285	0.010	8.1	± 50.0
1,1-Dichloroethene-d2	0.854	0.846	0.010	-0.9	± 50.0
2-Butanone-d5	0.047	0.039	0.010	-17.7	± 50.0
Chloroform-d	0.854	0.898	0.010	5.2	± 50.0
1,2-Dichloroethane-d4	0.391	0.393	0.010	0.8	± 50.0
Benzene-d6	1.315	1.301	0.010	-1.1	± 50.0
1,2-Dichloropropane-d6	0.374	0.410	0.010	9.5	± 50.0
Toluene-d8	1.306	1.319	0.010	1.0	± 50.0
trans-1,3-Dichloropropene-d4	0.121	0.097	0.010	-19.6	± 50.0
2-Hexanone-d5	0.041	0.039	0.010	-5.2	± 50.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.233	0.010	8.2	± 50.0
1,2-Dichlorobenzene-d4	0.847	0.800	0.010	-5.5	± 50.0

ORIGINAL

Data File: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Date : 24-AUG-2007 18:37
Client ID: VSTD005RU
Sample Info: VSTD005RU:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Report Date: 03-Sep-2007 11:10

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Lab Smp Id: VSTD005RU Client Smp ID: VSTD005RU
Inj Date : 24-AUG-2007 18:37
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RU:2481
Misc Info : VMS:1446:149925
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 11:10 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	9.838	9.838	(1.000)	375283	125.000	
* 2 Chlorobenzene-d5	117	12.345	12.345	(1.000)	367138	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.133	14.133	(1.000)	202803	125.000	
$ 4 Vinyl chloride-d3	65	4.594	4.594	(0.467)	119687	125.000	130
$ 5 Chloroethane-d5	69	5.391	5.391	(0.548)	107076	125.000	140
$ 6 1,1-Dichloroethene-d2	63	6.596	6.596	(0.670)	317472	125.000	120
$ 7 2-Butanone-d5	46	8.591	8.591	(0.873)	145158	1250.00	1000
$ 8 Chloroform-d	84	8.962	8.962	(0.911)	336857	125.000	130
$ 9 1,2-Dichloroethane-d4	65	9.491	9.491	(0.965)	147660	125.000	130
$ 10 Benzene-d6	84	9.522	9.522	(0.771)	477585	125.000	120
$ 11 1,2-Dichloropropane-d6	67	10.246	10.246	(0.830)	150529	125.000	140
$ 12 Toluene-d8	98	11.140	11.140	(0.902)	484189	125.000	130
$ 13 trans-1,3-Dichloropropene-d4	79	11.322	11.322	(0.917)	35703	125.000	100
$ 14 2-Hexanone-d5	63	11.608	11.608	(0.940)	142360	1250.00	1200
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.257	13.257	(1.074)	85708	125.000	140
$ 17 1,2-Dichlorobenzene-d4	152	14.474	14.474	(1.024)	162294	125.000	120

Data File: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Report Date: 03-Sep-2007 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18 Dichlorodifluoromethane	85	3.986	3.986	(0.405)	421813	125.000	120
19 Chloromethane	50	4.381	4.381	(0.445)	260665	125.000	150
20 Vinyl chloride	62	4.612	4.612	(0.469)	270260	125.000	140
21 Bromomethane	94	5.269	5.269	(0.536)	142780	125.000	110
22 Chloroethane	64	5.440	5.440	(0.553)	139255	125.000	140
23 Trichlorofluoromethane	101	5.853	5.853	(0.595)	472932	125.000	120
24 1,1-Dichloroethene	96	6.614	6.614	(0.672)	173883	125.000	120
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.565	6.565	(0.667)	195429	125.000	120
26 Acetone	43	6.656	6.656	(0.677)	106936	1250.00	1300
27 Carbon disulfide	76	6.967	6.967	(0.708)	608582	125.000	130
28 Methyl acetate	43	7.052	7.052	(0.717)	30004	125.000	140 (MH)
29 Bromochloromethane	128	8.944	8.944	(0.909)	50256	125.000	120
30 Methylene chloride	84	7.228	7.228	(0.735)	163222	125.000	130
107 tertiary butyl alcohol	59	7.283	7.283	(0.740)	47661	1250.00	1100
31 trans-1,2-Dichloroethene	96	7.563	7.563	(0.769)	198803	125.000	120
32 Methyl tert-butyl ether	73	7.514	7.514	(0.764)	241431	125.000	100
33 1,1-Dichloroethane	63	8.062	8.062	(0.819)	288766	125.000	130
34 cis-1,2-Dichloroethene	96	8.688	8.688	(0.883)	134553	125.000	130
35 2-Butanone	43	8.652	8.652	(0.879)	169501	1250.00	1200
36 Chloroform	83	8.986	8.986	(0.913)	298551	125.000	130
37 1,1,1-Trichloroethane	97	9.199	9.199	(0.745)	331829	125.000	110
38 Cyclohexane	56	9.266	9.266	(0.751)	162788	125.000	110
39 Carbon tetrachloride	117	9.370	9.370	(0.759)	321747	125.000	120
40 Benzene	78	9.558	9.558	(0.774)	511665	125.000	130
41 1,2-Dichloroethane	62	9.564	9.564	(0.972)	176721	125.000	130
42 Trichloroethene	95	10.118	10.118	(0.820)	149620	125.000	110
43 Methylcyclohexane	83	10.294	10.294	(0.834)	167473	125.000	99
44 1,2-Dichloropropane	63	10.325	10.325	(0.836)	128081	125.000	140
45 Bromodichloromethane	83	10.544	10.544	(0.854)	211575	125.000	120
46 cis-1,3-Dichloropropene	75	10.903	10.903	(0.883)	172954	125.000	110
47 4-Methyl-2-pentanone	43	10.970	10.970	(0.889)	447118	1250.00	1300
48 Toluene	91	11.201	11.201	(0.907)	585688	125.000	130
49 trans-1,3-Dichloropropene	75	11.347	11.347	(0.919)	151632	125.000	110
50 1,1,2-Trichloroethane	97	11.529	11.529	(0.934)	73007	125.000	130
51 Tetrachloroethene	164	11.675	11.675	(0.946)	120199	125.000	120
52 2-Hexanone	43	11.651	11.651	(0.944)	325955	1250.00	1400
53 Dibromochloromethane	129	11.888	11.888	(0.963)	116615	125.000	120
54 1,2-Dibromoethane	107	12.016	12.016	(0.973)	69582	125.000	120
55 Chlorobenzene	112	12.369	12.369	(1.002)	373280	125.000	130
56 Ethylbenzene	91	12.399	12.399	(1.004)	675814	125.000	130
57 m,p-Xylene	106	12.478	12.478	(1.011)	244188	125.000	120
58 o-Xylene	106	12.795	12.795	(1.036)	242645	125.000	130
59 Styrene	104	12.801	12.801	(1.037)	337072	125.000	130
60 Bromoform	173	13.020	13.020	(0.921)	61796	125.000	120
61 Isopropylbenzene	105	13.044	13.044	(1.057)	608525	125.000	110
62 1,1,2,2-Tetrachloroethane	83	13.281	13.281	(1.076)	83417	125.000	130
63 1,3-Dichlorobenzene	146	14.084	14.084	(0.997)	277327	125.000	110

Data File: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Report Date: 03-Sep-2007 11:10

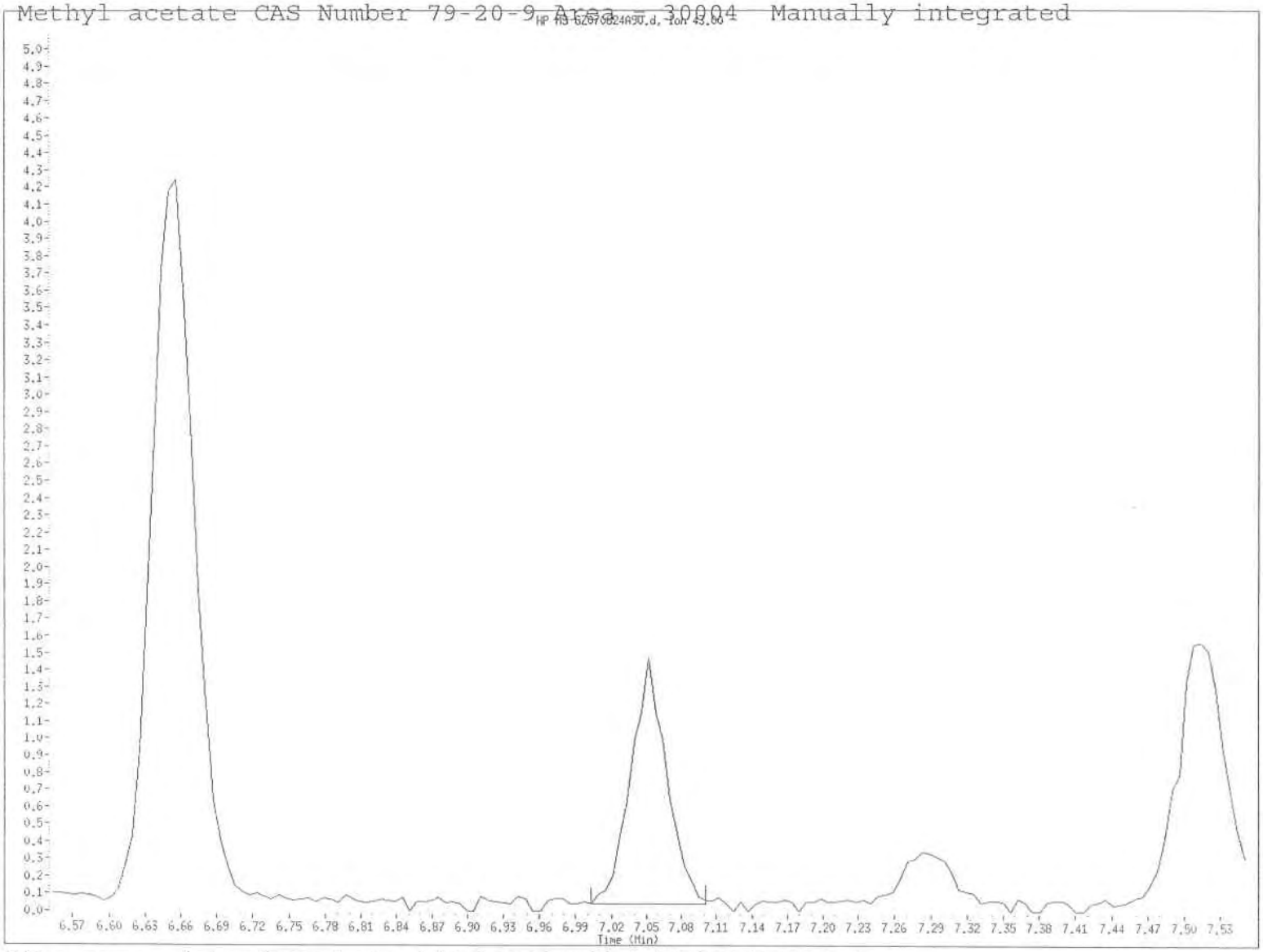
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64	1,4-Dichlorobenzene	146	14.151	14.151	(1.001)	272000	125.000	120
65	1,2-Dichlorobenzene	146	14.492	14.492	(1.025)	230531	125.000	120
66	1,2-Dibromo-3-chloropropane	75	15.167	15.167	(1.073)	15537	125.000	100
67	1,2,4-Trichlorobenzene	180	15.982	15.982	(1.131)	134574	125.000	89
68	1,2,3-Trichlorobenzene	180	16.566	16.566	(1.172)	111103	125.000	91

QC Flag Legend

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

Methyl acetate CAS Number 79-20-9 Area = 30004 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 30004 Manually integrated



File name: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Client ID: VSTD005RU
Instrument ID: 5973hp90.i
Injection Date and Time: 24-AUG-2007 18:37
Retention Time: 7.05
Operator ID: 2481

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/27/2007 Time: 10:16

Lab File ID: GS070827A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RV Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	1.034	0.010	-10.0	±40.0
Chloromethane	0.598	0.567	0.010	-5.1	±40.0
Vinyl chloride	0.638	0.611	0.100	-4.3	±30.0
Bromomethane	0.440	0.349	0.100	-20.7	±30.0
Chloroethane	0.326	0.299	0.010	-8.3	±40.0
Trichlorofluoromethane	1.278	1.065	0.010	-16.7	±40.0
1,1-Dichloroethene	0.474	0.410	0.100	-13.4	±30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.451	0.010	-18.7	±40.0
Acetone	0.028	0.024	0.010	-14.3	±40.0
Carbon disulfide	1.537	1.443	0.010	-6.2	±40.0
Methyl acetate	0.074	0.066	0.010	-11.1	±40.0
Methylene chloride	0.413	0.380	0.010	-7.8	±40.0
trans-1,2-Dichloroethene	0.542	0.477	0.010	-12.0	±40.0
Methyl tert-butyl ether	0.768	0.658	0.010	-14.4	±40.0
1,1-Dichloroethane	0.756	0.700	0.200	-7.4	±30.0
cis-1,2-Dichloroethene	0.351	0.338	0.010	-3.6	±40.0
2-Butanone	0.045	0.042	0.010	-7.0	±40.0
Bromochloromethane	0.136	0.130	0.050	-4.4	±30.0
Chloroform	0.788	0.702	0.200	-10.8	±30.0
1,1,1-Trichloroethane	0.991	0.894	0.100	-9.8	±30.0
Cyclohexane	0.518	0.445	0.010	-14.0	±40.0
Carbon tetrachloride	0.930	0.837	0.100	-10.0	±30.0
Benzene	1.359	1.284	0.400	-5.5	±30.0
1,2-Dichloroethane	0.450	0.399	0.100	-11.5	±30.0
Trichloroethene	0.447	0.415	0.300	-7.2	±30.0
Methylcyclohexane	0.574	0.453	0.010	-21.1	±40.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/27/2007 Time: 10:16

Lab File ID: GS070827A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RV Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.296	0.010	-6.5	±40.0
Bromodichloromethane	0.585	0.538	0.200	-8.0	±30.0
cis-1,3-Dichloropropene	0.523	0.494	0.200	-5.7	±30.0
4-Methyl-2-pentanone	0.113	0.105	0.010	-7.6	±40.0
Toluene	1.513	1.432	0.400	-5.3	±30.0
trans-1,3-Dichloropropene	0.454	0.415	0.100	-8.4	±30.0
1,1,2-Trichloroethane	0.195	0.191	0.100	-2.0	±30.0
Tetrachloroethene	0.343	0.328	0.100	-4.2	±30.0
2-Hexanone	0.081	0.075	0.010	-7.5	±40.0
Dibromochloromethane	0.329	0.314	0.100	-4.6	±30.0
1,2-Dibromoethane	0.200	0.187	0.010	-6.4	±40.0
Chlorobenzene	0.958	0.937	0.500	-2.2	±30.0
Ethylbenzene	1.801	1.675	0.100	-7.0	±30.0
o-Xylene	0.638	0.634	0.300	-0.8	±30.0
m,p-Xylene	0.665	0.631	0.300	-5.2	±30.0
Styrene	0.860	0.862	0.300	0.3	±30.0
Bromoform	0.327	0.318	0.050	-3.0	±30.0
Isopropylbenzene	1.813	1.627	0.010	-10.3	±40.0
1,1,2,2-Tetrachloroethane	0.211	0.201	0.100	-4.6	±30.0
1,3-Dichlorobenzene	1.522	1.441	0.400	-5.3	±30.0
1,4-Dichlorobenzene	1.442	1.368	0.400	-5.2	±30.0
1,2-Dichlorobenzene	1.208	1.169	0.400	-3.3	±30.0
1,2-Dibromo-3-chloropropane	0.094	0.079	0.010	-16.1	±40.0
1,2,4-Trichlorobenzene	0.936	0.809	0.200	-13.6	±30.0
1,2,3-Trichlorobenzene	0.749	0.680	0.200	-9.2	±30.0
tertiary butyl alcohol	0.015	0.013	0.010	-14.7	±40.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/27/2007 Time: 10:16

Lab File ID: GS070827A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RV Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

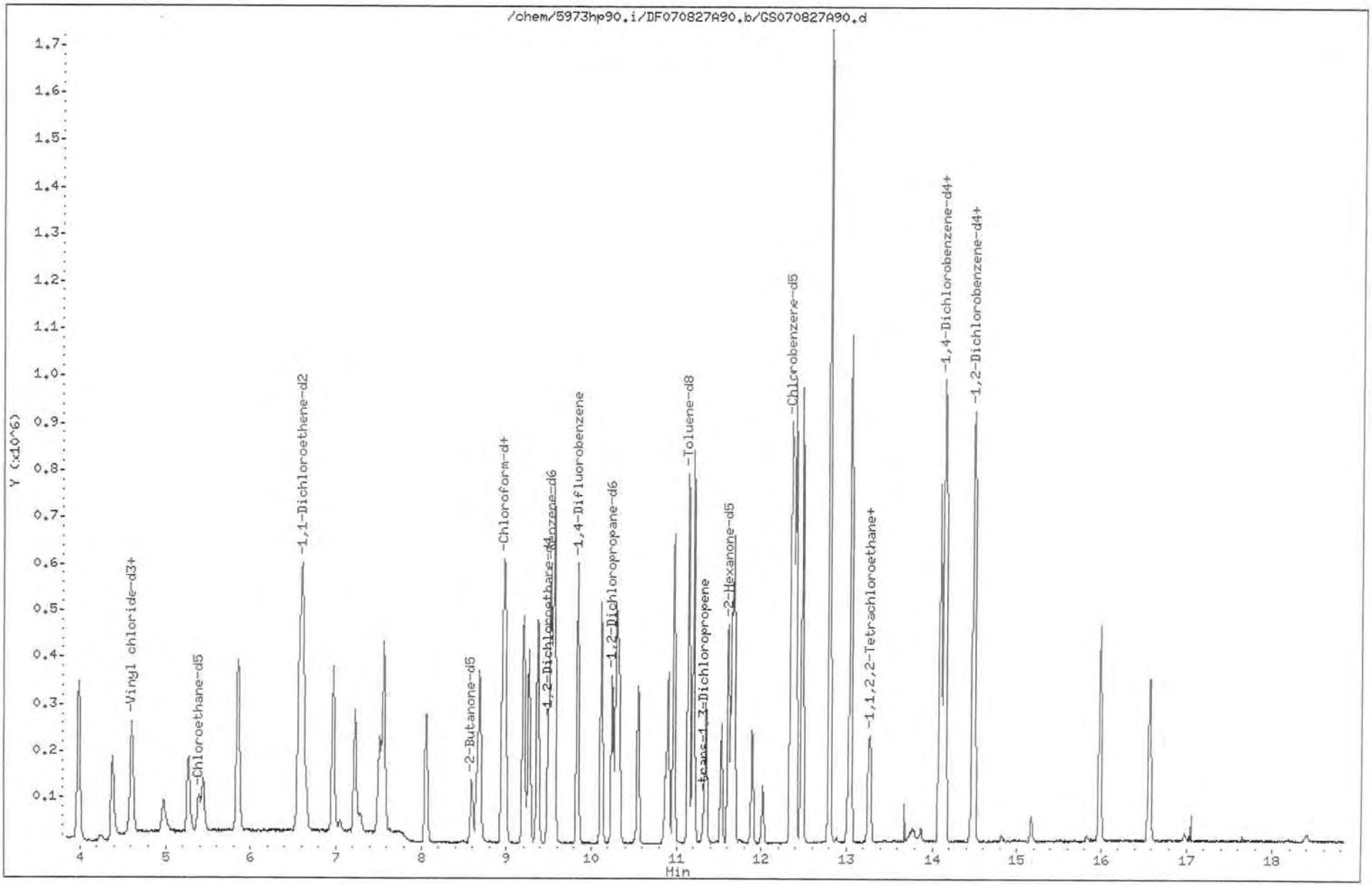
COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.281	0.010	-10.6	± 30.0
Chloroethane-d5	0.264	0.242	0.010	-8.3	± 40.0
1,1-Dichloroethene-d2	0.854	0.728	0.010	-14.7	± 30.0
2-Butanone-d5	0.047	0.041	0.010	-13.8	± 40.0
Chloroform-d	0.854	0.790	0.010	-7.4	± 30.0
1,2-Dichloroethane-d4	0.391	0.345	0.010	-11.7	± 30.0
Benzene-d6	1.315	1.260	0.010	-4.2	± 30.0
1,2-Dichloropropane-d6	0.374	0.369	0.010	-1.3	± 40.0
Toluene-d8	1.306	1.255	0.010	-3.9	± 30.0
trans-1,3-Dichloropropene-d4	0.121	0.102	0.010	-16.0	± 30.0
2-Hexanone-d5	0.041	0.037	0.010	-9.2	± 40.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.204	0.010	-5.6	± 30.0
1,2-Dichlorobenzene-d4	0.847	0.823	0.010	-2.8	± 30.0

ORIGINAL

Data File: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Date : 27-AUG-2007 10:16
Client ID: VSTD005RV
Sample Info: VSTD005RV:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i

Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Report Date: 03-Sep-2007 12:03

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Lab Smp Id: VSTD005RV Client Smp ID: VSTD005RV
Inj Date : 27-AUG-2007 10:16
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RV:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	448167	125.000	
*	2 Chlorobenzene-d5	117	12.347	12.347	(1.000)	411946	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.136	14.136	(1.000)	222021	125.000	
$	4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	125914	125.000	110
$	5 Chloroethane-d5	69	5.388	5.388	(0.547)	108477	125.000	110
$	6 1,1-Dichloroethene-d2	63	6.598	6.598	(0.671)	326457	125.000	110
$	7 2-Butanone-d5	46	8.588	8.588	(0.873)	181614	1250.00	1100
$	8 Chloroform-d	84	8.965	8.965	(0.911)	354119	125.000	120
$	9 1,2-Dichloroethane-d4	65	9.494	9.494	(0.965)	154498	125.000	110
$	10 Benzene-d6	84	9.518	9.518	(0.771)	518859	125.000	120
$	11 1,2-Dichloropropane-d6	67	10.248	10.248	(0.830)	152195	125.000	120
$	12 Toluene-d8	98	11.143	11.143	(0.902)	517058	125.000	120
$	13 trans-1,3-Dichloropropene-d4	79	11.325	11.325	(0.917)	41876	125.000	110
$	14 2-Hexanone-d5	63	11.611	11.611	(0.940)	152923	1250.00	1100
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.260	13.260	(1.074)	83899	125.000	120
$	17 1,2-Dichlorobenzene-d4	152	14.470	14.470	(1.024)	182785	125.000	120

Data File: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Report Date: 03-Sep-2007 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
18 Dichlorodifluoromethane	85	3.982	3.982	(0.405)	463343	125.000	110	
19 Chloromethane	50	4.384	4.384	(0.445)	254125	125.000	120	
20 Vinyl chloride	62	4.609	4.609	(0.468)	273789	125.000	120	
21 Bromomethane	94	5.272	5.272	(0.536)	156532	125.000	99	
22 Chloroethane	64	5.436	5.436	(0.552)	133883	125.000	110	(M)
23 Trichlorofluoromethane	101	5.856	5.856	(0.595)	477361	125.000	100	
24 1,1-Dichloroethene	96	6.617	6.617	(0.672)	183829	125.000	110	
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.568	6.568	(0.667)	202236	125.000	100	
26 Acetone	43	6.653	6.653	(0.676)	107735	1250.00	1100	
27 Carbon disulfide	76	6.969	6.969	(0.708)	646590	125.000	120	
28 Methyl acetate	43	7.055	7.055	(0.717)	29461	125.000	110	(MH)
29 Bromochloromethane	128	8.947	8.947	(0.909)	58140	125.000	120	
30 Methylene chloride	84	7.225	7.225	(0.734)	170423	125.000	120	
107 tertiary butyl alcohol	59	7.286	7.286	(0.740)	56361	1250.00	1100	
31 trans-1,2-Dichloroethene	96	7.560	7.560	(0.768)	213635	125.000	110	
32 Methyl tert-butyl ether	73	7.517	7.517	(0.764)	294728	125.000	110	
33 1,1-Dichloroethane	63	8.064	8.064	(0.819)	313857	125.000	120	
34 cis-1,2-Dichloroethene	96	8.685	8.685	(0.883)	151592	125.000	120	
35 2-Butanone	43	8.655	8.655	(0.879)	189493	1250.00	1200	
36 Chloroform	83	8.983	8.983	(0.913)	314778	125.000	110	
37 1,1,1-Trichloroethane	97	9.202	9.202	(0.745)	368332	125.000	110	
38 Cyclohexane	56	9.269	9.269	(0.751)	183378	125.000	110	
39 Carbon tetrachloride	117	9.372	9.372	(0.759)	344637	125.000	110	
40 Benzene	78	9.561	9.561	(0.774)	529113	125.000	120	
41 1,2-Dichloroethane	62	9.567	9.567	(0.972)	178683	125.000	110	
42 Trichloroethene	95	10.121	10.121	(0.820)	170972	125.000	120	
43 Methylcyclohexane	83	10.297	10.297	(0.834)	186776	125.000	99	
44 1,2-Dichloropropane	63	10.328	10.328	(0.836)	122104	125.000	120	
45 Bromodichloromethane	83	10.547	10.547	(0.854)	221515	125.000	110	
46 cis-1,3-Dichloropropene	75	10.905	10.905	(0.883)	203408	125.000	120	
47 4-Methyl-2-pentanone	43	10.972	10.972	(0.889)	431010	1250.00	1200	
48 Toluene	91	11.204	11.204	(0.907)	589958	125.000	120	
49 trans-1,3-Dichloropropene	75	11.350	11.350	(0.919)	171153	125.000	110	
50 1,1,2-Trichloroethane	97	11.532	11.532	(0.934)	78716	125.000	120	
51 Tetrachloroethene	164	11.678	11.678	(0.946)	135159	125.000	120	
52 2-Hexanone	43	11.648	11.648	(0.943)	308737	1250.00	1200	
53 Dibromochloromethane	129	11.891	11.891	(0.963)	129416	125.000	120	
54 1,2-Dibromoethane	107	12.019	12.019	(0.973)	77171	125.000	120	
55 Chlorobenzene	112	12.372	12.372	(1.002)	386123	125.000	120	
56 Ethylbenzene	91	12.402	12.402	(1.004)	689846	125.000	120	
57 m,p-Xylene	106	12.481	12.481	(1.011)	259829	125.000	120	
58 o-Xylene	106	12.797	12.797	(1.036)	261016	125.000	120	
59 Styrene	104	12.803	12.803	(1.037)	355216	125.000	130	
60 Bromoform	173	13.022	13.022	(0.921)	70518	125.000	120	
61 Isopropylbenzene	105	13.047	13.047	(1.057)	670095	125.000	110	
62 1,1,2,2-Tetrachloroethane	83	13.278	13.278	(1.075)	82849	125.000	120	
63 1,3-Dichlorobenzene	146	14.087	14.087	(0.997)	319963	125.000	120	

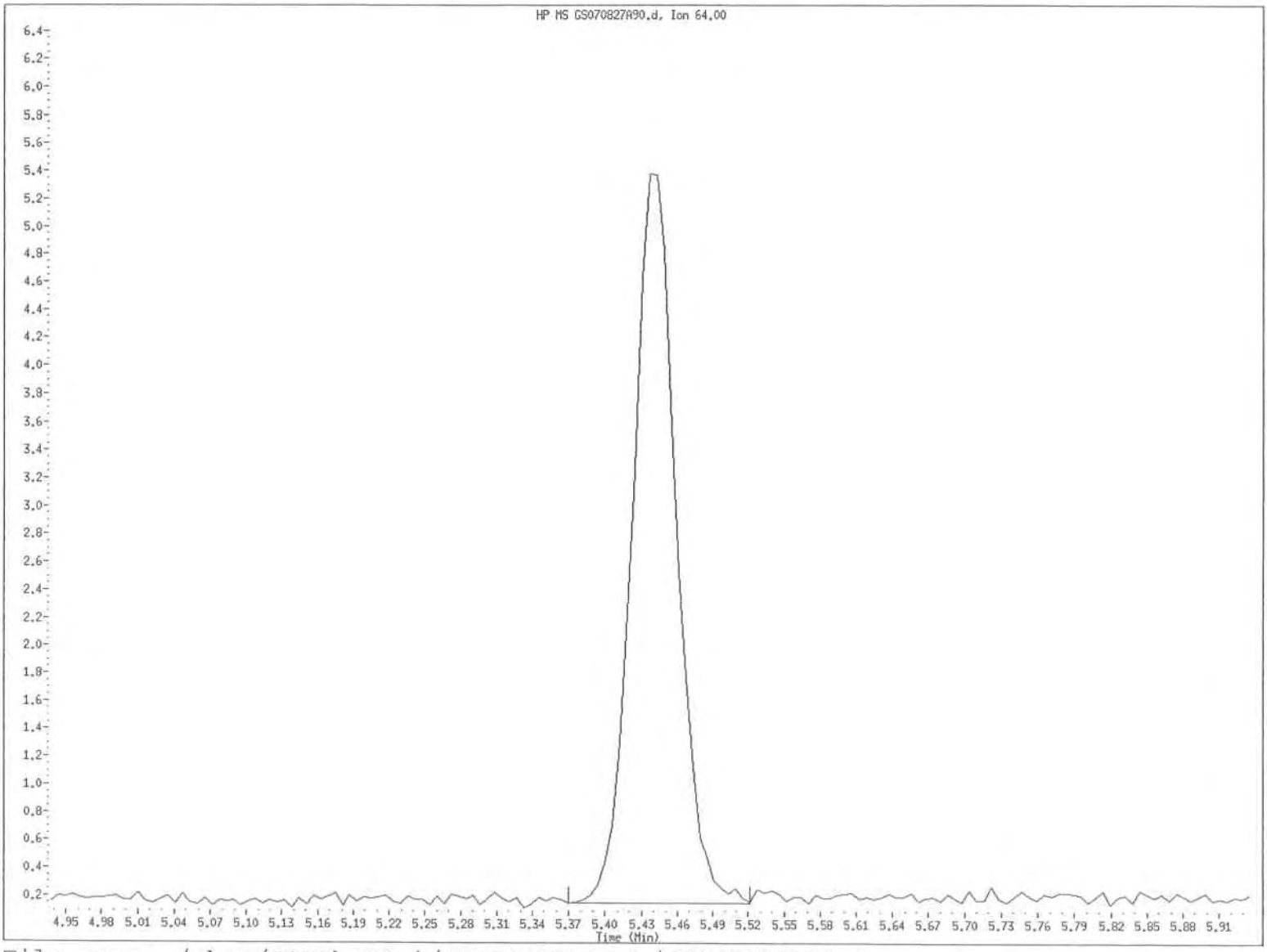
Data File: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Report Date: 03-Sep-2007 12:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.154	14.154	(1.001)	303682	125.000	120
65 1,2-Dichlorobenzene	146	14.489	14.489	(1.025)	259530	125.000	120
66 1,2-Dibromo-3-chloropropane	75	15.170	15.170	(1.073)	17495	125.000	100
67 1,2,4-Trichlorobenzene	180	15.985	15.985	(1.131)	179532	125.000	110
68 1,2,3-Trichlorobenzene	180	16.569	16.569	(1.172)	150942	125.000	110

QC Flag Legend

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

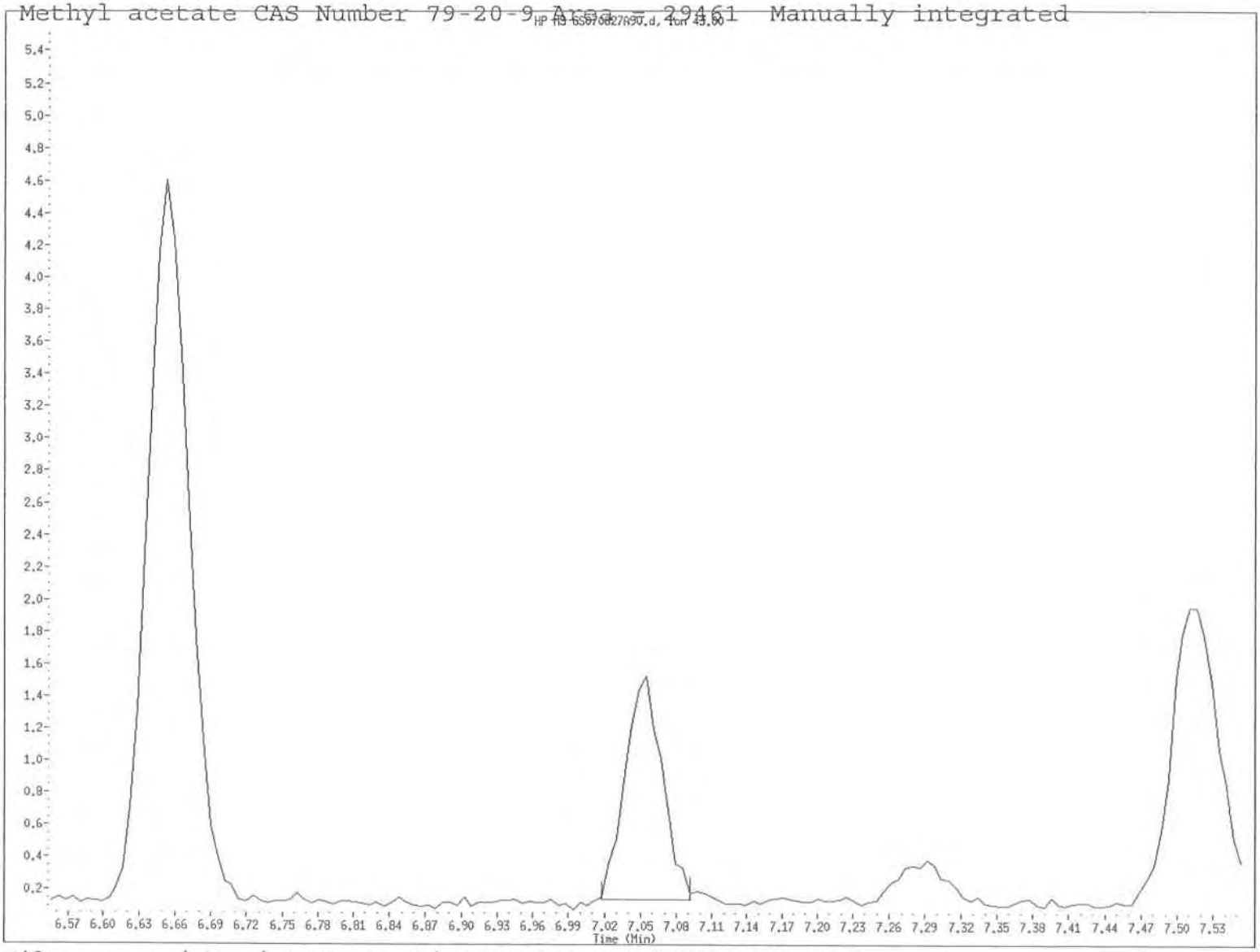
Chloroethane CAS Number 75-00-3 Area = 133883 Manually integrated



File name: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Client ID: VSTD005RV
Instrument ID: 5973hp90.i
Injection Date and Time: 27-AUG-2007 10:16
Retention Time: 5.44
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 29461 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 29461 Manually integrated



File name: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Client ID: VSTD005RV
Instrument ID: 5973hp90.i
Injection Date and Time: 27-AUG-2007 10:16
Retention Time: 7.05
Operator ID: 2481

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/27/2007 Time: 14:36

Lab File ID: GZ070827A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RW Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	1.140	0.010	-0.8	±50.0
Chloromethane	0.598	0.703	0.010	17.7	±50.0
Vinyl chloride	0.638	0.723	0.010	13.2	±50.0
Bromomethane	0.440	0.459	0.010	4.3	±50.0
Chloroethane	0.326	0.347	0.010	6.5	±50.0
Trichlorofluoromethane	1.278	1.215	0.010	-4.9	±50.0
1,1-Dichloroethene	0.474	0.445	0.010	-6.0	±50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.502	0.010	-9.6	±50.0
Acetone	0.028	0.027	0.010	-2.8	±50.0
Carbon disulfide	1.537	1.616	0.010	5.1	±50.0
Methyl acetate	0.074	0.079	0.010	6.9	±50.0
Methylene chloride	0.413	0.429	0.010	4.0	±50.0
trans-1,2-Dichloroethene	0.542	0.513	0.010	-5.2	±50.0
Methyl tert-butyl ether	0.768	0.639	0.010	-16.7	±50.0
1,1-Dichloroethane	0.756	0.778	0.010	2.8	±50.0
cis-1,2-Dichloroethene	0.351	0.354	0.010	0.9	±50.0
2-Butanone	0.045	0.044	0.010	-3.4	±50.0
Bromochloromethane	0.136	0.133	0.010	-2.1	±50.0
Chloroform	0.788	0.792	0.010	0.5	±50.0
1,1,1-Trichloroethane	0.991	0.889	0.010	-10.3	±50.0
Cyclohexane	0.518	0.436	0.010	-15.8	±50.0
Carbon tetrachloride	0.930	0.868	0.010	-6.7	±50.0
Benzene	1.359	1.350	0.010	-0.7	±50.0
1,2-Dichloroethane	0.450	0.448	0.010	-0.5	±50.0
Trichloroethene	0.447	0.394	0.010	-11.9	±50.0
Methylcyclohexane	0.574	0.443	0.010	-22.9	±50.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/27/2007 Time: 14:36

Lab File ID: GZ070827A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RW Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.332	0.010	4.9	±50.0
Bromodichloromethane	0.585	0.562	0.010	-3.9	±50.0
cis-1,3-Dichloropropene	0.523	0.461	0.010	-11.9	±50.0
4-Methyl-2-pentanone	0.113	0.114	0.010	0.3	±50.0
Toluene	1.513	1.535	0.010	1.4	±50.0
trans-1,3-Dichloropropene	0.454	0.396	0.010	-12.6	±50.0
1,1,2-Trichloroethane	0.195	0.194	0.010	-0.5	±50.0
Tetrachloroethene	0.343	0.318	0.010	-7.1	±50.0
2-Hexanone	0.081	0.083	0.010	1.9	±50.0
Dibromochloromethane	0.329	0.311	0.010	-5.6	±50.0
1,2-Dibromoethane	0.200	0.181	0.010	-9.7	±50.0
Chlorobenzene	0.958	0.976	0.010	1.9	±50.0
Ethylbenzene	1.801	1.786	0.010	-0.9	±50.0
o-Xylene	0.638	0.662	0.010	3.7	±50.0
m,p-Xylene	0.665	0.646	0.010	-2.9	±50.0
Styrene	0.860	0.898	0.010	4.5	±50.0
Bromoform	0.327	0.297	0.010	-9.2	±50.0
Isopropylbenzene	1.813	1.639	0.010	-9.6	±50.0
1,1,2,2-Tetrachloroethane	0.211	0.207	0.010	-2.0	±50.0
1,3-Dichlorobenzene	1.522	1.353	0.010	-11.1	±50.0
1,4-Dichlorobenzene	1.442	1.339	0.010	-7.2	±50.0
1,2-Dichlorobenzene	1.208	1.146	0.010	-5.1	±50.0
1,2-Dibromo-3-chloropropane	0.094	0.079	0.010	-15.9	±50.0
1,2,4-Trichlorobenzene	0.936	0.681	0.010	-27.2	±50.0
1,2,3-Trichlorobenzene	0.749	0.562	0.010	-25.0	±50.0
tertiary butyl alcohol	0.015	0.012	0.010	-18.0	±50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/27/2007 Time: 14:36

Lab File ID: GZ070827A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RW Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

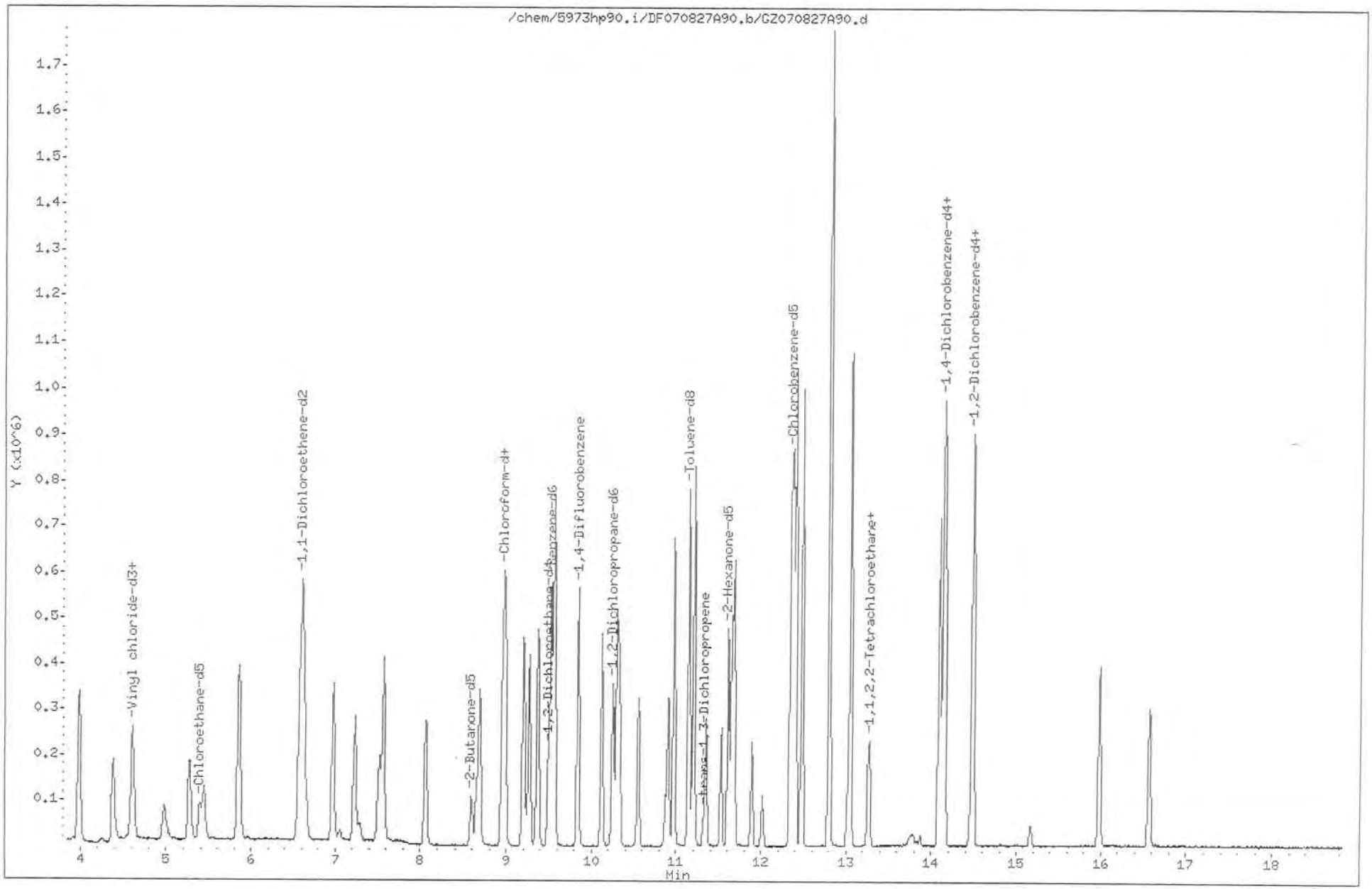
COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.320	0.010	1.9	± 50.0
Chloroethane-d5	0.264	0.287	0.010	8.8	± 50.0
1,1-Dichloroethene-d2	0.854	0.834	0.010	-2.3	± 50.0
2-Butanone-d5	0.047	0.036	0.010	-23.0	± 50.0
Chloroform-d	0.854	0.880	0.010	3.0	± 50.0
1,2-Dichloroethane-d4	0.391	0.376	0.010	-3.7	± 50.0
Benzene-d6	1.315	1.274	0.010	-3.1	± 50.0
1,2-Dichloropropane-d6	0.374	0.361	0.010	-3.6	± 50.0
Toluene-d8	1.306	1.281	0.010	-1.9	± 50.0
trans-1,3-Dichloropropene-d4	0.121	0.092	0.010	-24.2	± 50.0
2-Hexanone-d5	0.041	0.037	0.010	-10.1	± 50.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.217	0.010	0.7	± 50.0
1,2-Dichlorobenzene-d4	0.847	0.780	0.010	-7.9	± 50.0

Data File: /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Date : 27-AUG-2007 14:36
Client ID: VSTD005RW
Sample Info: VSTD005RW;2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i

Operator: 2481
Column diameter: 0.32

ORIGINAL



Data File: /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Report Date: 03-Sep-2007 12:14

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Lab Smp Id: VSTD005RW Client Smp ID: VSTD005RW
Inj Date : 27-AUG-2007 14:36
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RW:2481
Misc Info : VMS:1447:149928
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:14 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 1,4-Difluorobenzene	114	9.842	9.842	(1.000)	393463	125.000	
*	2 Chlorobenzene-d5	117	12.342	12.342	(1.000)	385136	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.131	14.131	(1.000)	212867	125.000	
$	4 Vinyl chloride-d3	65	4.592	4.592	(0.467)	126018	125.000	130
$	5 Chloroethane-d5	69	5.395	5.395	(0.548)	113024	125.000	140
$	6 1,1-Dichloroethene-d2	63	6.600	6.600	(0.671)	328153	125.000	120
$	7 2-Butanone-d5	46	8.589	8.589	(0.873)	142335	1250.00	960
$	8 Chloroform-d	84	8.966	8.966	(0.911)	346057	125.000	130
$	9 1,2-Dichloroethane-d4	65	9.489	9.489	(0.964)	147929	125.000	120
$	10 Benzene-d6	84	9.520	9.520	(0.771)	490812	125.000	120
$	11 1,2-Dichloropropane-d6	67	10.244	10.244	(0.830)	139009	125.000	120
$	12 Toluene-d8	98	11.144	11.144	(0.903)	493183	125.000	120
$	13 trans-1,3-Dichloropropene-d4	79	11.320	11.320	(0.917)	35314	125.000	95
$	14 2-Hexanone-d5	63	11.606	11.606	(0.940)	141549	1250.00	1100
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.255	13.255	(1.074)	83619	125.000	130
$	17 1,2-Dichlorobenzene-d4	152	14.472	14.472	(1.024)	166055	125.000	120

Data File: /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Report Date: 03-Sep-2007 12:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18 Dichlorodifluoromethane	85	3.984	3.984	(0.405)	448412	125.000	120
19 Chloromethane	50	4.385	4.385	(0.446)	276731	125.000	150
20 Vinyl chloride	62	4.610	4.610	(0.468)	284442	125.000	140
21 Bromomethane	94	5.267	5.267	(0.535)	180585	125.000	130
22 Chloroethane	64	5.438	5.438	(0.552)	136485	125.000	130(M)
23 Trichlorofluoromethane	101	5.851	5.851	(0.595)	478063	125.000	120
24 1,1-Dichloroethene	96	6.612	6.612	(0.672)	175248	125.000	120
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.569	6.569	(0.667)	197440	125.000	110
26 Acetone	43	6.648	6.648	(0.675)	107305	1250.00	1200
27 Carbon disulfide	76	6.965	6.965	(0.708)	635764	125.000	130
28 Methyl acetate	43	7.044	7.044	(0.716)	31109	125.000	130(MH)
29 Bromochloromethane	128	8.948	8.948	(0.909)	52270	125.000	120
30 Methylene chloride	84	7.226	7.226	(0.734)	168762	125.000	130
107 tertiary butyl alcohol	59	7.281	7.281	(0.740)	47594	1250.00	1000
31 trans-1,2-Dichloroethene	96	7.561	7.561	(0.768)	201947	125.000	120
32 Methyl tert-butyl ether	73	7.512	7.512	(0.763)	251589	125.000	100
33 1,1-Dichloroethane	63	8.060	8.060	(0.819)	306000	125.000	130
34 cis-1,2-Dichloroethene	96	8.686	8.686	(0.883)	139342	125.000	130
35 2-Butanone	43	8.650	8.650	(0.879)	172685	1250.00	1200
36 Chloroform	83	8.984	8.984	(0.913)	311500	125.000	130
37 1,1,1-Trichloroethane	97	9.197	9.197	(0.745)	342408	125.000	110
38 Cyclohexane	56	9.264	9.264	(0.751)	167890	125.000	110
39 Carbon tetrachloride	117	9.368	9.368	(0.759)	334117	125.000	120
40 Benzene	78	9.556	9.556	(0.774)	520058	125.000	120
41 1,2-Dichloroethane	62	9.562	9.562	(0.972)	176339	125.000	120
42 Trichloroethene	95	10.116	10.116	(0.820)	151707	125.000	110
43 Methylcyclohexane	83	10.292	10.292	(0.834)	170596	125.000	96
44 1,2-Dichloropropane	63	10.323	10.323	(0.836)	128000	125.000	130
45 Bromodichloromethane	83	10.542	10.542	(0.854)	216293	125.000	120
46 cis-1,3-Dichloropropene	75	10.907	10.907	(0.884)	177542	125.000	110
47 4-Methyl-2-pentanone	43	10.967	10.967	(0.889)	437507	1250.00	1300
48 Toluene	91	11.199	11.199	(0.907)	591055	125.000	130
49 trans-1,3-Dichloropropene	75	11.351	11.351	(0.920)	152632	125.000	110
50 1,1,2-Trichloroethane	97	11.527	11.527	(0.934)	74767	125.000	120
51 Tetrachloroethene	164	11.679	11.679	(0.946)	122538	125.000	120
52 2-Hexanone	43	11.649	11.649	(0.944)	318073	1250.00	1300
53 Dibromochloromethane	129	11.892	11.892	(0.964)	119718	125.000	120
54 1,2-Dibromoethane	107	12.014	12.014	(0.973)	69583	125.000	110
55 Chlorobenzene	112	12.367	12.367	(1.002)	375863	125.000	130
56 Ethylbenzene	91	12.397	12.397	(1.004)	687772	125.000	120
57 m,p-Xylene	106	12.476	12.476	(1.011)	248636	125.000	120
58 o-Xylene	106	12.793	12.793	(1.036)	254920	125.000	130
59 Styrene	104	12.799	12.799	(1.037)	345948	125.000	130
60 Bromoform	173	13.018	13.018	(0.921)	63273	125.000	110
61 Isopropylbenzene	105	13.048	13.048	(1.057)	631420	125.000	110
62 1,1,2,2-Tetrachloroethane	83	13.279	13.279	(1.076)	79612	125.000	120
63 1,3-Dichlorobenzene	146	14.088	14.088	(0.997)	288024	125.000	110

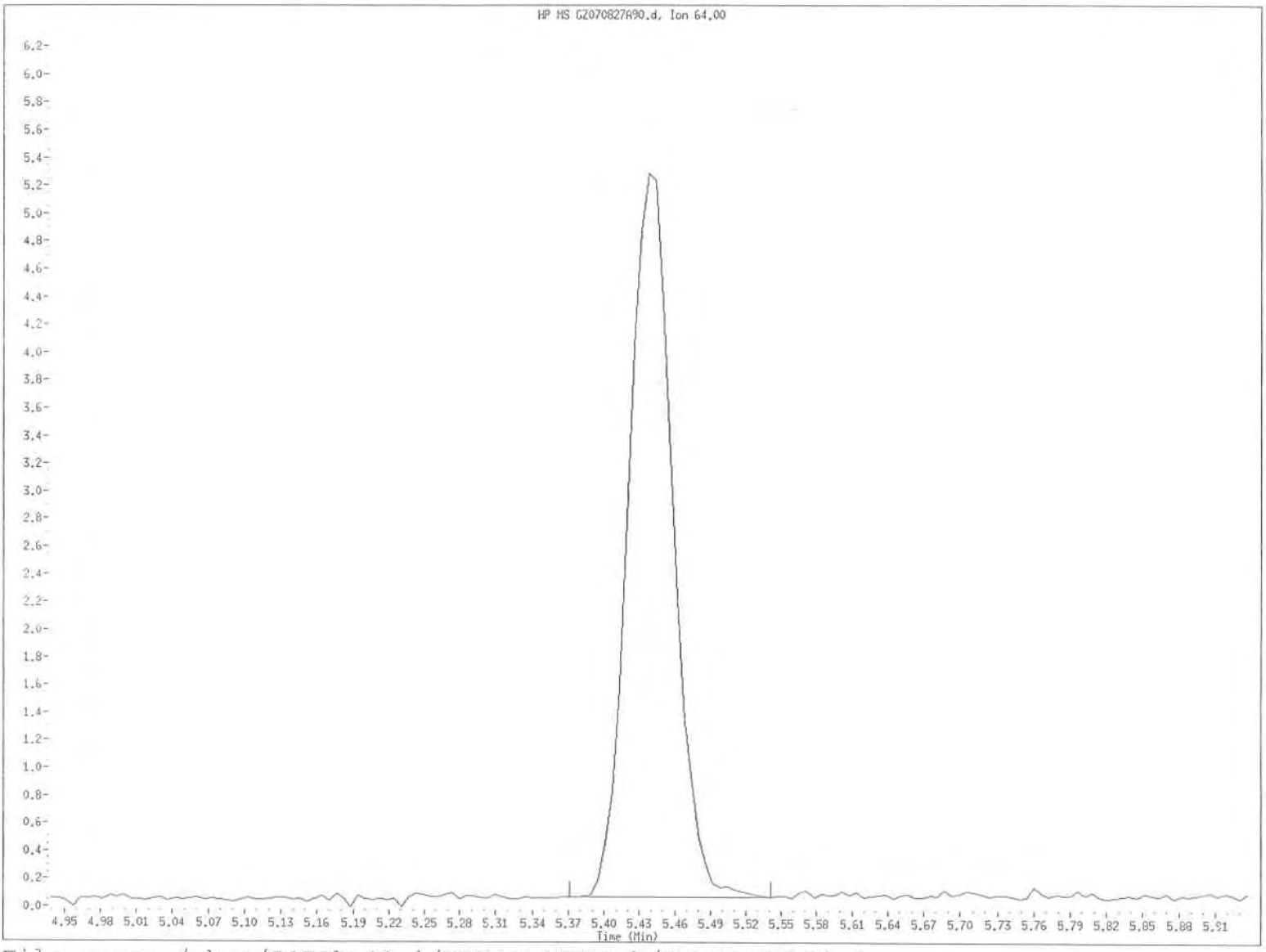
Data File: /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Report Date: 03-Sep-2007 12:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.149	14.149	(1.001)	285037	125.000	120
65 1,2-Dichlorobenzene	146	14.490	14.490	(1.025)	244025	125.000	120
66 1,2-Dibromo-3-chloropropane	75	15.165	15.165	(1.073)	16825	125.000	110
67 1,2,4-Trichlorobenzene	180	15.980	15.980	(1.131)	144876	125.000	91
68 1,2,3-Trichlorobenzene	180	16.564	16.564	(1.172)	119540	125.000	94

QC Flag Legend

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

Chloroethane CAS Number 75-00-3 Area = 136485 Manually integrated



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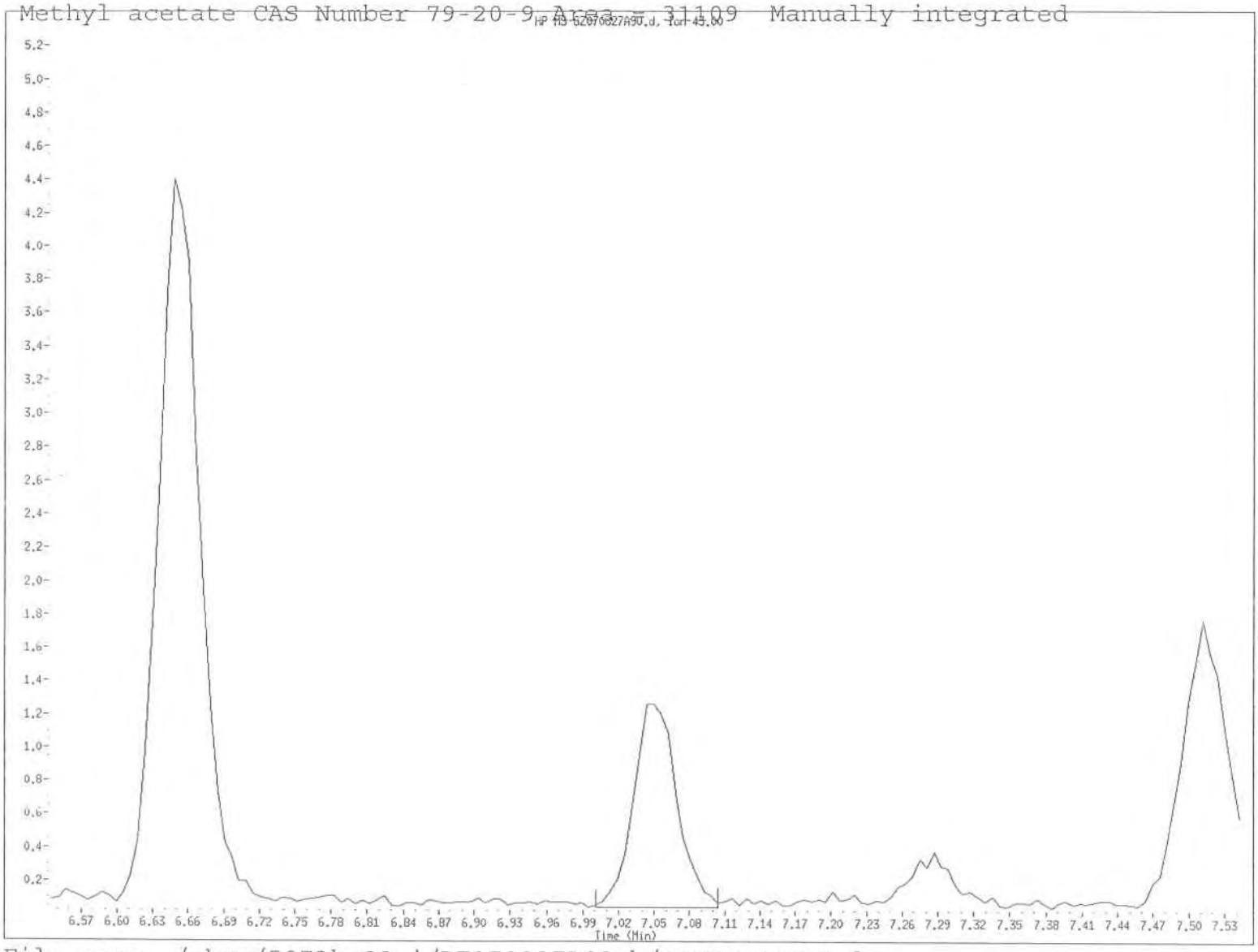
Client ID: VSTD005RW
Instrument ID: 5973hp90.i
Injection Date and Time: 27-AUG-2007 14:36
Retention Time: 5.44
Operator ID: 2481

Methyl acetate CAS Number 79-20-9 Area = 31109 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 31109 Manually integrated



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Client ID: VSTD005RW
Instrument ID: 5973hp90.i
Injection Date and Time: 27-AUG-2007 14:36
Retention Time: 7.04
Operator ID: 2481

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/29/2007 Time: 11:15

Lab File ID: GS070829A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RX Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	0.955	0.010	-16.9	±40.0
Chloromethane	0.598	0.604	0.010	1.1	±40.0
Vinyl chloride	0.638	0.642	0.100	0.6	±30.0
Bromomethane	0.440	0.436	0.100	-1.0	±30.0
Chloroethane	0.326	0.318	0.010	-2.2	±40.0
Trichlorofluoromethane	1.278	1.114	0.010	-12.8	±40.0
1,1-Dichloroethene	0.474	0.458	0.100	-3.3	±30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.495	0.010	-10.8	±40.0
Acetone	0.028	0.026	0.010	-7.1	±40.0
Carbon disulfide	1.537	1.552	0.010	1.0	±40.0
Methyl acetate	0.074	0.074	0.010	0.2	±40.0
Methylene chloride	0.413	0.425	0.010	3.0	±40.0
trans-1,2-Dichloroethene	0.542	0.534	0.010	-1.3	±40.0
Methyl tert-butyl ether	0.768	0.653	0.010	-15.0	±40.0
1,1-Dichloroethane	0.756	0.747	0.200	-1.3	±30.0
cis-1,2-Dichloroethene	0.351	0.359	0.010	2.4	±40.0
2-Butanone	0.045	0.041	0.010	-9.9	±40.0
Bromochloromethane	0.136	0.141	0.050	3.6	±30.0
Chloroform	0.788	0.787	0.200	-0.1	±30.0
1,1,1-Trichloroethane	0.991	0.913	0.100	-7.9	±30.0
Cyclohexane	0.518	0.425	0.010	-18.0	±40.0
Carbon tetrachloride	0.930	0.882	0.100	-5.1	±30.0
Benzene	1.359	1.309	0.400	-3.7	±30.0
1,2-Dichloroethane	0.450	0.440	0.100	-2.2	±30.0
Trichloroethene	0.447	0.399	0.300	-10.7	±30.0
Methylcyclohexane	0.574	0.464	0.010	-19.2	±40.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/29/2007 Time: 11:15

Lab File ID: GS070829A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RX Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.305	0.010	-3.7	±40.0
Bromodichloromethane	0.585	0.550	0.200	-5.9	±30.0
cis-1,3-Dichloropropene	0.523	0.456	0.200	-12.8	±30.0
4-Methyl-2-pentanone	0.113	0.105	0.010	-7.7	±40.0
Toluene	1.513	1.528	0.400	1.0	±30.0
trans-1,3-Dichloropropene	0.454	0.391	0.100	-13.8	±30.0
1,1,2-Trichloroethane	0.195	0.185	0.100	-4.9	±30.0
Tetrachloroethene	0.343	0.342	0.100	-0.1	±30.0
2-Hexanone	0.081	0.075	0.010	-6.8	±40.0
Dibromochloromethane	0.329	0.311	0.100	-5.4	±30.0
1,2-Dibromoethane	0.200	0.174	0.010	-12.9	±40.0
Chlorobenzene	0.958	0.973	0.500	1.6	±30.0
Ethylbenzene	1.801	1.799	0.100	-0.1	±30.0
o-Xylene	0.638	0.663	0.300	3.8	±30.0
m,p-Xylene	0.665	0.676	0.300	1.6	±30.0
Styrene	0.860	0.896	0.300	4.2	±30.0
Bromoform	0.327	0.298	0.050	-8.9	±30.0
Isopropylbenzene	1.813	1.803	0.010	-0.6	±40.0
1,1,2,2-Tetrachloroethane	0.211	0.196	0.100	-7.1	±30.0
1,3-Dichlorobenzene	1.522	1.423	0.400	-6.5	±30.0
1,4-Dichlorobenzene	1.442	1.348	0.400	-6.6	±30.0
1,2-Dichlorobenzene	1.208	1.145	0.400	-5.3	±30.0
1,2-Dibromo-3-chloropropane	0.094	0.072	0.010	-23.4	±40.0
1,2,4-Trichlorobenzene	0.936	0.779	0.200	-16.8	±30.0
1,2,3-Trichlorobenzene	0.749	0.619	0.200	-17.4	±30.0
tertiary butyl alcohol	0.015	0.014	0.010	-5.6	±40.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/29/2007 Time: 11:15

Lab File ID: GS070829A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RX Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

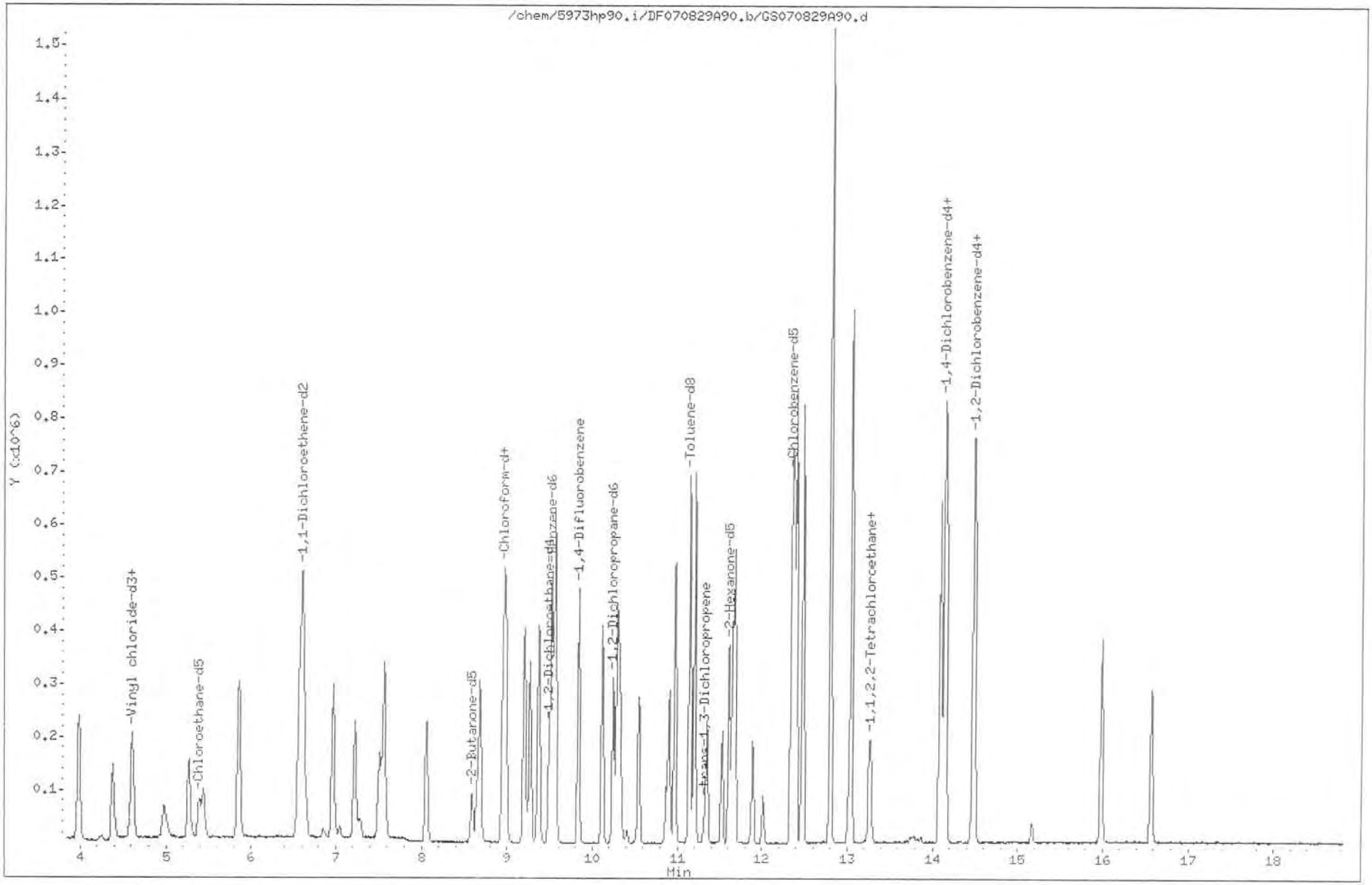
Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.335	0.010	6.4	± 30.0
Chloroethane-d5	0.264	0.295	0.010	11.6	± 40.0
1,1-Dichloroethene-d2	0.854	0.865	0.010	1.3	± 30.0
2-Butanone-d5	0.047	0.036	0.010	-24.4	± 40.0
Chloroform-d	0.854	0.921	0.010	7.9	± 30.0
1,2-Dichloroethane-d4	0.391	0.393	0.010	0.7	± 30.0
Benzene-d6	1.315	1.343	0.010	2.1	± 30.0
1,2-Dichloropropane-d6	0.374	0.367	0.010	-1.9	± 40.0
Toluene-d8	1.306	1.332	0.010	2.0	± 30.0
trans-1,3-Dichloropropene-d4	0.121	0.098	0.010	-19.0	± 30.0
2-Hexanone-d5	0.041	0.035	0.010	-14.1	± 40.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.220	0.010	2.1	± 30.0
1,2-Dichlorobenzene-d4	0.847	0.796	0.010	-5.9	± 30.0

ORIGINAL

Data File: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Date : 29-AUG-2007 11:15
Client ID: VSTD005RX
Sample Info: VSTD005RX:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Report Date: 03-Sep-2007 12:36

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Lab Smp Id: VSTD005RX Client Smp ID: VSTD005RX
Inj Date : 29-AUG-2007 11:15
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RX:2481
Misc Info : VMS:1448:149931
Comment :
Method : /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:36 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	337231	125.000	
* 2 Chlorobenzene-d5	117	12.341	12.341	(1.000)	327888	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.136	14.136	(1.000)	186663	125.000	
$ 4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	112812	125.000	130
$ 5 Chloroethane-d5	69	5.388	5.388	(0.547)	99392	125.000	140
$ 6 1,1-Dichloroethene-d2	63	6.599	6.599	(0.671)	291545	125.000	130
$ 7 2-Butanone-d5	46	8.594	8.594	(0.873)	119888	1250.00	950
$ 8 Chloroform-d	84	8.965	8.965	(0.911)	310509	125.000	130
$ 9 1,2-Dichloroethane-d4	65	9.494	9.494	(0.965)	132624	125.000	130
$ 10 Benzene-d6	84	9.519	9.519	(0.771)	440257	125.000	130
$ 11 1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	120364	125.000	120
$ 12 Toluene-d8	98	11.143	11.143	(0.903)	436729	125.000	130
$ 13 trans-1,3-Dichloropropene-d4	79	11.326	11.326	(0.918)	32111	125.000	100
$ 14 2-Hexanone-d5	63	11.611	11.611	(0.941)	115191	1250.00	1100
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.260	13.260	(1.074)	72218	125.000	130
$ 17 1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	148669	125.000	120

9-3-7

Data File: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Report Date: 03-Sep-2007 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
18	Dichlorodifluoromethane	85	3.983	3.983	(0.405)	321968	125.000	100	
19	Chloromethane	50	4.384	4.384	(0.445)	203776	125.000	130	
20	Vinyl chloride	62	4.609	4.609	(0.468)	216536	125.000	130	
21	Bromomethane	94	5.272	5.272	(0.536)	146928	125.000	120	
22	Chloroethane	64	5.443	5.443	(0.553)	107397	125.000	120	
23	Trichlorofluoromethane	101	5.850	5.850	(0.594)	375839	125.000	110	
24	1,1-Dichloroethene	96	6.617	6.617	(0.672)	154524	125.000	120	
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.568	6.568	(0.667)	166868	125.000	110	
26	Acetone	43	6.653	6.653	(0.676)	87940	1250.00	1200	
27	Carbon disulfide	76	6.970	6.970	(0.708)	523393	125.000	130	
28	Methyl acetate	43	7.055	7.055	(0.717)	24988	125.000	130	(MH)
29	Bromochloromethane	128	8.947	8.947	(0.909)	47428	125.000	130	
30	Methylene chloride	84	7.225	7.225	(0.734)	143240	125.000	130	
107	tertiary butyl alcohol	59	7.286	7.286	(0.740)	46941	1250.00	1200	
31	trans-1,2-Dichloroethene	96	7.566	7.566	(0.769)	180238	125.000	120	
32	Methyl tert-butyl ether	73	7.517	7.517	(0.764)	220188	125.000	110	
33	1,1-Dichloroethane	63	8.065	8.065	(0.819)	251781	125.000	120	
34	cis-1,2-Dichloroethene	96	8.685	8.685	(0.883)	121213	125.000	130	
35	2-Butanone	43	8.655	8.655	(0.879)	138110	1250.00	1100	
36	Chloroform	83	8.983	8.983	(0.913)	265294	125.000	120	
37	1,1,1-Trichloroethane	97	9.202	9.202	(0.746)	299264	125.000	120	
38	Cyclohexane	56	9.269	9.269	(0.751)	139303	125.000	100	
39	Carbon tetrachloride	117	9.373	9.373	(0.759)	289122	125.000	120	
40	Benzene	78	9.561	9.561	(0.775)	429132	125.000	120	
41	1,2-Dichloroethane	62	9.561	9.561	(0.972)	148537	125.000	120	
42	Trichloroethene	95	10.121	10.121	(0.820)	130935	125.000	110	
43	Methylcyclohexane	83	10.297	10.297	(0.834)	152221	125.000	100	
44	1,2-Dichloropropane	63	10.322	10.322	(0.836)	100056	125.000	120	
45	Bromodichloromethane	83	10.547	10.547	(0.855)	180322	125.000	120	
46	cis-1,3-Dichloropropene	75	10.906	10.906	(0.884)	149680	125.000	110	
47	4-Methyl-2-pentanone	43	10.973	10.973	(0.889)	342845	1250.00	1200	
48	Toluene	91	11.204	11.204	(0.908)	500963	125.000	130	
49	trans-1,3-Dichloropropene	75	11.350	11.350	(0.920)	128178	125.000	110	
50	1,1,2-Trichloroethane	97	11.526	11.526	(0.934)	60816	125.000	120	
51	Tetrachloroethene	164	11.678	11.678	(0.946)	112289	125.000	120	
52	2-Hexanone	43	11.648	11.648	(0.944)	247537	1250.00	1200	
53	Dibromochloromethane	129	11.891	11.891	(0.964)	102072	125.000	120	
54	1,2-Dibromoethane	107	12.019	12.019	(0.974)	57106	125.000	110	
55	Chlorobenzene	112	12.366	12.366	(1.002)	319046	125.000	130	
56	Ethylbenzene	91	12.402	12.402	(1.005)	589988	125.000	120	
57	m,p-Xylene	106	12.475	12.475	(1.011)	221554	125.000	130	
58	o-Xylene	106	12.798	12.798	(1.037)	217294	125.000	130	
59	Styrene	104	12.804	12.804	(1.037)	293796	125.000	130	
60	Bromoform	173	13.017	13.017	(0.921)	55661	125.000	110	
61	Isopropylbenzene	105	13.047	13.047	(1.057)	591152	125.000	120	
62	1,1,2,2-Tetrachloroethane	83	13.278	13.278	(1.076)	64213	125.000	120	
63	1,3-Dichlorobenzene	146	14.087	14.087	(0.997)	265555	125.000	120	

Data File: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Report Date: 03-Sep-2007 12:36

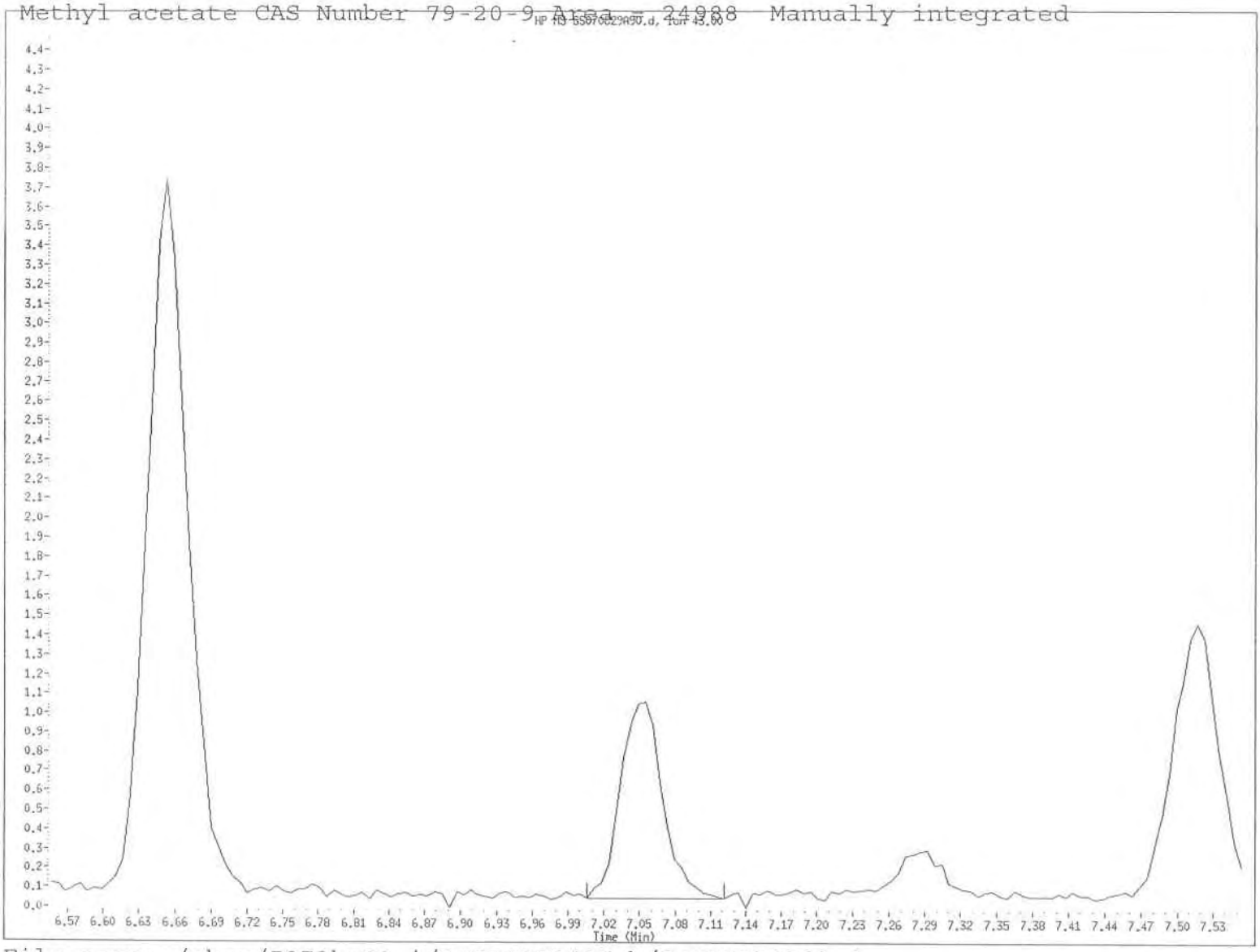
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.154	14.154	(1.001)	251585	125.000	120
65 1,2-Dichlorobenzene	146	14.489	14.489	(1.025)	213651	125.000	120
66 1,2-Dibromo-3-chloropropane	75	15.164	15.164	(1.073)	13435	125.000	96
67 1,2,4-Trichlorobenzene	180	15.985	15.985	(1.131)	145356	125.000	100
68 1,2,3-Trichlorobenzene	180	16.563	16.563	(1.172)	115473	125.000	100

QC Flag Legend

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

Methyl acetate CAS Number 79-20-9 Area = 24988 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 24988 Manually integrated



File name: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Client ID: VSTD005RX
Instrument ID: 5973hp90.i
Injection Date and Time: 29-AUG-2007 11:15
Retention Time: 7.05
Operator ID: 2481

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/29/2007 Time: 16:53

Lab File ID: GZ070829A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RY Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1.148	1.017	0.010	-11.5	±50.0
Chloromethane	0.598	0.667	0.010	11.7	±50.0
Vinyl chloride	0.638	0.683	0.010	7.0	±50.0
Bromomethane	0.440	0.466	0.010	5.9	±50.0
Chloroethane	0.326	0.340	0.010	4.3	±50.0
Trichlorofluoromethane	1.278	1.199	0.010	-6.2	±50.0
1,1-Dichloroethene	0.474	0.457	0.010	-3.6	±50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.555	0.524	0.010	-5.5	±50.0
Acetone	0.028	0.029	0.010	4.3	±50.0
Carbon disulfide	1.537	1.618	0.010	5.3	±50.0
Methyl acetate	0.074	0.085	0.010	15.4	±50.0
Methylene chloride	0.413	0.448	0.010	8.5	±50.0
trans-1,2-Dichloroethene	0.542	0.547	0.010	1.0	±50.0
Methyl tert-butyl ether	0.768	0.635	0.010	-17.4	±50.0
1,1-Dichloroethane	0.756	0.738	0.010	-2.4	±50.0
cis-1,2-Dichloroethene	0.351	0.362	0.010	3.1	±50.0
2-Butanone	0.045	0.042	0.010	-7.6	±50.0
Bromochloromethane	0.136	0.137	0.010	1.2	±50.0
Chloroform	0.788	0.821	0.010	4.2	±50.0
1,1,1-Trichloroethane	0.991	0.893	0.010	-9.9	±50.0
Cyclohexane	0.518	0.424	0.010	-18.1	±50.0
Carbon tetrachloride	0.930	0.893	0.010	-3.9	±50.0
Benzene	1.359	1.333	0.010	-1.9	±50.0
1,2-Dichloroethane	0.450	0.468	0.010	3.9	±50.0
Trichloroethene	0.447	0.387	0.010	-13.4	±50.0
Methylcyclohexane	0.574	0.502	0.010	-12.7	±50.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/29/2007 Time: 16:53

Lab File ID: GZ070829A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RY Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.317	0.326	0.010	2.9	±50.0
Bromodichloromethane	0.585	0.575	0.010	-1.5	±50.0
cis-1,3-Dichloropropene	0.523	0.440	0.010	-16.0	±50.0
4-Methyl-2-pentanone	0.113	0.111	0.010	-2.2	±50.0
Toluene	1.513	1.607	0.010	6.2	±50.0
trans-1,3-Dichloropropene	0.454	0.388	0.010	-14.5	±50.0
1,1,2-Trichloroethane	0.195	0.198	0.010	1.4	±50.0
Tetrachloroethene	0.343	0.363	0.010	6.0	±50.0
2-Hexanone	0.081	0.081	0.010	0.0	±50.0
Dibromochloromethane	0.329	0.314	0.010	-4.7	±50.0
1,2-Dibromoethane	0.200	0.180	0.010	-10.1	±50.0
Chlorobenzene	0.958	1.012	0.010	5.7	±50.0
Ethylbenzene	1.801	1.882	0.010	4.5	±50.0
o-Xylene	0.638	0.692	0.010	8.4	±50.0
m,p-Xylene	0.665	0.695	0.010	4.5	±50.0
Styrene	0.860	0.933	0.010	8.5	±50.0
Bromoform	0.327	0.303	0.010	-7.4	±50.0
Isopropylbenzene	1.813	1.907	0.010	5.2	±50.0
1,1,2,2-Tetrachloroethane	0.211	0.213	0.010	1.1	±50.0
1,3-Dichlorobenzene	1.522	1.406	0.010	-7.6	±50.0
1,4-Dichlorobenzene	1.442	1.418	0.010	-1.7	±50.0
1,2-Dichlorobenzene	1.208	1.200	0.010	-0.7	±50.0
1,2-Dibromo-3-chloropropane	0.094	0.067	0.010	-29.1	±50.0
1,2,4-Trichlorobenzene	0.936	0.728	0.010	-22.2	±50.0
1,2,3-Trichlorobenzene	0.749	0.598	0.010	-20.2	±50.0
tertiary butyl alcohol	0.015	0.014	0.010	-3.9	±50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Instrument ID: 5973HP90 Calibration Date: 08/29/2007 Time: 16:53

Lab File ID: GZ070829A90 Init. Calib. Date(s): 08/23/2007 08/23/2007

EPA Sample No. (VSTD#####): VSTD005RY Init. Calib. Time(s): 11:51 13:46

Heated Purge: (Y/N) Y GC Column: SPB-624 ID: 0.32 (mm) Length: 60.0 (m)

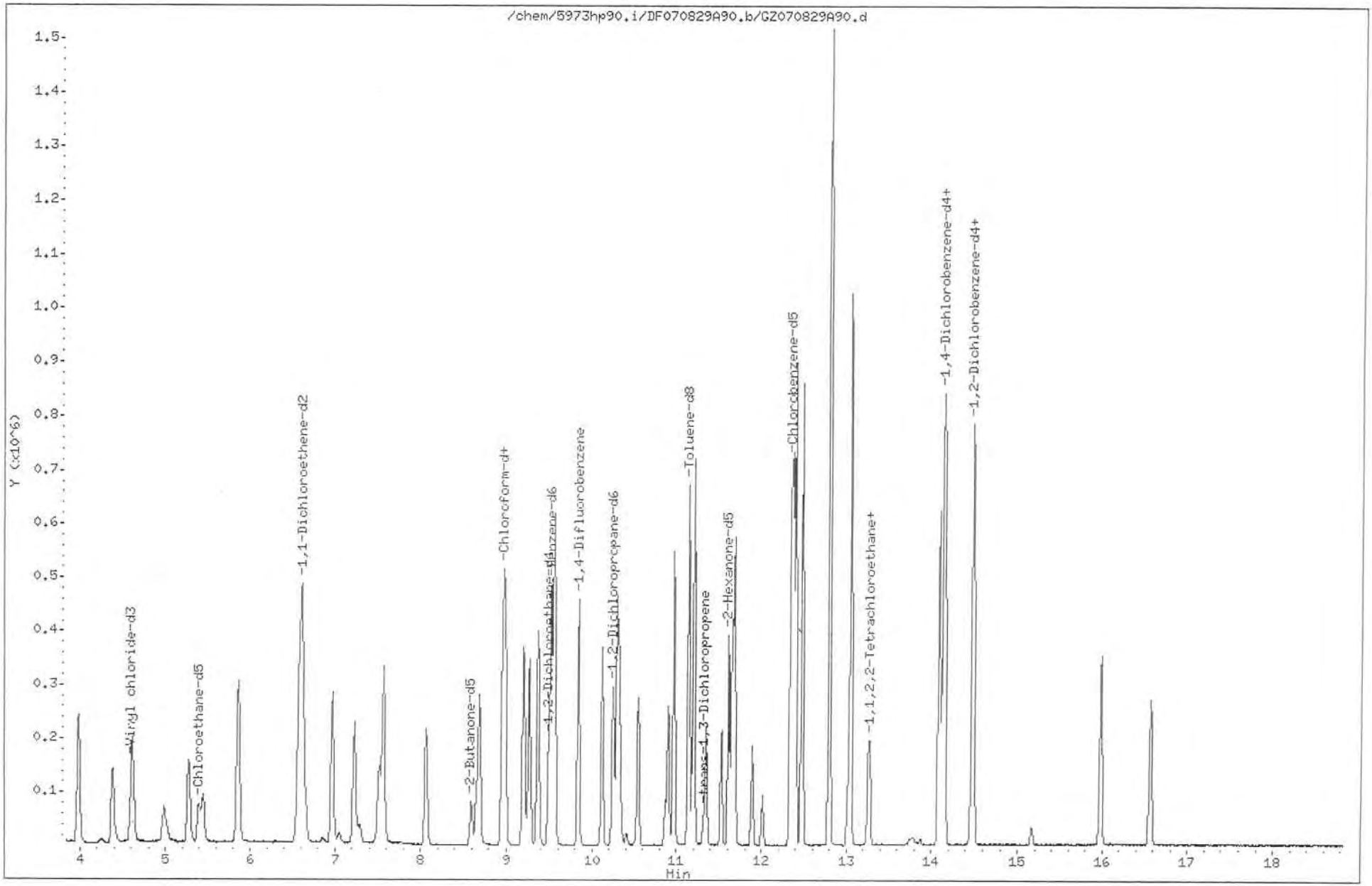
Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.314	0.350	0.010	11.3	± 50.0
Chloroethane-d5	0.264	0.307	0.010	16.4	± 50.0
1,1-Dichloroethene-d2	0.854	0.900	0.010	5.4	± 50.0
2-Butanone-d5	0.047	0.033	0.010	-30.1	± 50.0
Chloroform-d	0.854	0.969	0.010	13.5	± 50.0
1,2-Dichloroethane-d4	0.391	0.411	0.010	5.3	± 50.0
Benzene-d6	1.315	1.341	0.010	2.0	± 50.0
1,2-Dichloropropane-d6	0.374	0.377	0.010	0.7	± 50.0
Toluene-d8	1.306	1.380	0.010	5.7	± 50.0
trans-1,3-Dichloropropene-d4	0.121	0.090	0.010	-25.3	± 50.0
2-Hexanone-d5	0.041	0.035	0.010	-13.2	± 50.0
1,1,2,2-Tetrachloroethane-d2	0.216	0.236	0.010	9.2	± 50.0
1,2-Dichlorobenzene-d4	0.847	0.790	0.010	-6.7	± 50.0

ORIGINAL

Data File: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Date : 29-AUG-2007 16:53
Client ID: VSTD005RY
Sample Info: VSTD005RY:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Report Date: 03-Sep-2007 12:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Lab Smp Id: VSTD005RY Client Smp ID: VSTD005RY
Inj Date : 29-AUG-2007 16:53
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VSTD005RY:2481
Misc Info : VMS:1448:149932
Comment :
Method : /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:43 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1	1,4-Difluorobenzene	114	9.838	9.838	(1.000)	315356	125.000	
* 2	Chlorobenzene-d5	117	12.344	12.344	(1.000)	310956	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.133	14.133	(1.000)	181548	125.000	
$ 4	Vinyl chloride-d3	65	4.594	4.594	(0.467)	110347	125.000	140
$ 5	Chloroethane-d5	69	5.391	5.391	(0.548)	96937	125.000	150
$ 6	1,1-Dichloroethene-d2	63	6.595	6.595	(0.670)	283865	125.000	130
$ 7	2-Butanone-d5	46	8.591	8.591	(0.873)	103585	1250.00	870
$ 8	Chloroform-d	84	8.962	8.962	(0.911)	305485	125.000	140
$ 9	1,2-Dichloroethane-d4	65	9.491	9.491	(0.965)	129718	125.000	130
$ 10	Benzene-d6	84	9.521	9.521	(0.771)	416946	125.000	130
$ 11	1,2-Dichloropropane-d6	67	10.245	10.245	(0.830)	117172	125.000	130
$ 12	Toluene-d8	98	11.140	11.140	(0.902)	429111	125.000	130
$ 13	trans-1,3-Dichloropropene-d4	79	11.322	11.322	(0.917)	28078	125.000	93
$ 14	2-Hexanone-d5	63	11.608	11.608	(0.940)	110343	1250.00	1100
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.257	13.257	(1.074)	73245	125.000	140
$ 17	1,2-Dichlorobenzene-d4	152	14.473	14.473	(1.024)	143350	125.000	120

Data File: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Report Date: 03-Sep-2007 12:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
18	Dichlorodifluoromethane	85	3.985	3.985	(0.405)	320621	125.000	110
19	Chloromethane	50	4.381	4.381	(0.445)	210450	125.000	140
20	Vinyl chloride	62	4.612	4.612	(0.469)	215432	125.000	130
21	Bromomethane	94	5.269	5.269	(0.536)	147087	125.000	130
22	Chloroethane	64	5.439	5.439	(0.553)	107118	125.000	130
23	Trichlorofluoromethane	101	5.853	5.853	(0.595)	378212	125.000	120
24	1,1-Dichloroethene	96	6.620	6.620	(0.673)	144031	125.000	120
25	1,1,2-Trichloro-1,2,2-trifluo	101	6.565	6.565	(0.667)	165334	125.000	120
26	Acetone	43	6.656	6.656	(0.677)	92278	1250.00	1300
27	Carbon disulfide	76	6.966	6.966	(0.708)	510276	125.000	130
28	Methyl acetate	43	7.051	7.051	(0.717)	26911	125.000	140 (MH)
29	Bromochloromethane	128	8.943	8.943	(0.909)	43313	125.000	130
30	Methylene chloride	84	7.228	7.228	(0.735)	141207	125.000	140
107	tertiary butyl alcohol	59	7.283	7.283	(0.740)	44684	1250.00	1200
31	trans-1,2-Dichloroethene	96	7.562	7.562	(0.769)	172504	125.000	130
32	Methyl tert-butyl ether	73	7.514	7.514	(0.764)	200119	125.000	100
33	1,1-Dichloroethane	63	8.061	8.061	(0.819)	232792	125.000	120
34	cis-1,2-Dichloroethene	96	8.688	8.688	(0.883)	114075	125.000	130
35	2-Butanone	43	8.651	8.651	(0.879)	132439	1250.00	1200
36	Chloroform	83	8.986	8.986	(0.913)	258794	125.000	130
37	1,1,1-Trichloroethane	97	9.199	9.199	(0.745)	277560	125.000	110
38	Cyclohexane	56	9.266	9.266	(0.751)	131951	125.000	100
39	Carbon tetrachloride	117	9.369	9.369	(0.759)	277760	125.000	120
40	Benzene	78	9.558	9.558	(0.774)	414592	125.000	120
41	1,2-Dichloroethane	62	9.564	9.564	(0.972)	147609	125.000	130
42	Trichloroethene	95	10.118	10.118	(0.820)	120437	125.000	110
43	Methylcyclohexane	83	10.294	10.294	(0.834)	156021	125.000	110
44	1,2-Dichloropropane	63	10.324	10.324	(0.836)	101372	125.000	130
45	Bromodichloromethane	83	10.543	10.543	(0.854)	178943	125.000	120
46	cis-1,3-Dichloropropene	75	10.902	10.902	(0.883)	136744	125.000	110
47	4-Methyl-2-pentanone	43	10.969	10.969	(0.889)	344701	1250.00	1200
48	Toluene	91	11.200	11.200	(0.907)	499584	125.000	130
49	trans-1,3-Dichloropropene	75	11.346	11.346	(0.919)	120624	125.000	110
50	1,1,2-Trichloroethane	97	11.529	11.529	(0.934)	61486	125.000	130
51	Tetrachloroethene	164	11.681	11.681	(0.946)	112890	125.000	130
52	2-Hexanone	43	11.651	11.651	(0.944)	252052	1250.00	1300
53	Dibromochloromethane	129	11.894	11.894	(0.964)	97539	125.000	120
54	1,2-Dibromoethane	107	12.016	12.016	(0.973)	55944	125.000	110
55	Chlorobenzene	112	12.368	12.368	(1.002)	314837	125.000	130
56	Ethylbenzene	91	12.399	12.399	(1.004)	585221	125.000	130
57	m,p-Xylene	106	12.478	12.478	(1.011)	216197	125.000	130
58	o-Xylene	106	12.794	12.794	(1.036)	215155	125.000	140
59	Styrene	104	12.800	12.800	(1.037)	290136	125.000	140
60	Bromoform	173	13.013	13.013	(0.921)	55044	125.000	120
61	Isopropylbenzene	105	13.044	13.044	(1.057)	593057	125.000	130
62	1,1,2,2-Tetrachloroethane	83	13.275	13.275	(1.075)	66283	125.000	130
63	1,3-Dichlorobenzene	146	14.084	14.084	(0.997)	255333	125.000	120

Data File: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Report Date: 03-Sep-2007 12:43

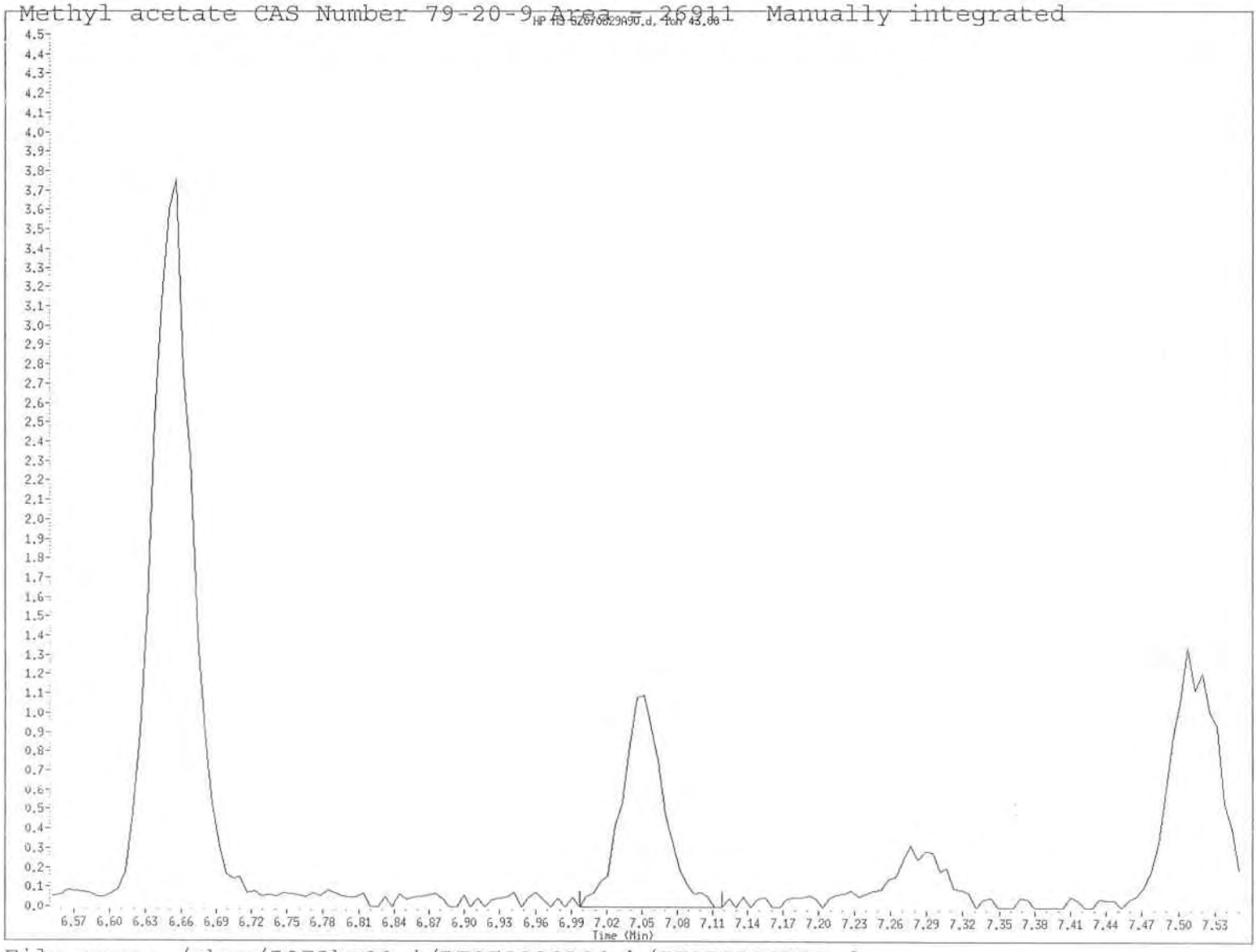
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,4-Dichlorobenzene	146	14.151	14.151	(1.001)	257396	125.000	120
65 1,2-Dichlorobenzene	146	14.492	14.492	(1.025)	217841	125.000	120
66 1,2-Dibromo-3-chloropropane	75	15.167	15.167	(1.073)	12098	125.000	89
67 1,2,4-Trichlorobenzene	180	15.982	15.982	(1.131)	132155	125.000	97
68 1,2,3-Trichlorobenzene	180	16.566	16.566	(1.172)	108505	125.000	100

QC Flag Legend

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

Methyl acetate CAS Number 79-20-9 Area = 26911 User selected hit

Methyl acetate CAS Number 79-20-9 Area = 26911 Manually integrated



File name: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Client ID: VSTD005RY
Instrument ID: 5973hp90.i
Injection Date and Time: 29-AUG-2007 16:53
Retention Time: 7.05
Operator ID: 2481

4. Raw QC Data

   a. BFB Data

   b. Blank Data

   c. Matrix Spike Data

   d. Matrix Spike Duplicate Data

a. BFB Data

BFB shall be arranged in chronological order, by instrument. For each 12 hour period, include:

- Bar Graph spectrum and Tabulated Relative Abundances

- Mass listing

- Reconstructed total ion chromatogram

Data File: /chem/5972hp73.i/DG070912B73.b/BG070912B73.d

Date : 12-SEP-2007 19:11

Client ID: BFBUT

Instrument: 5972hp73.i

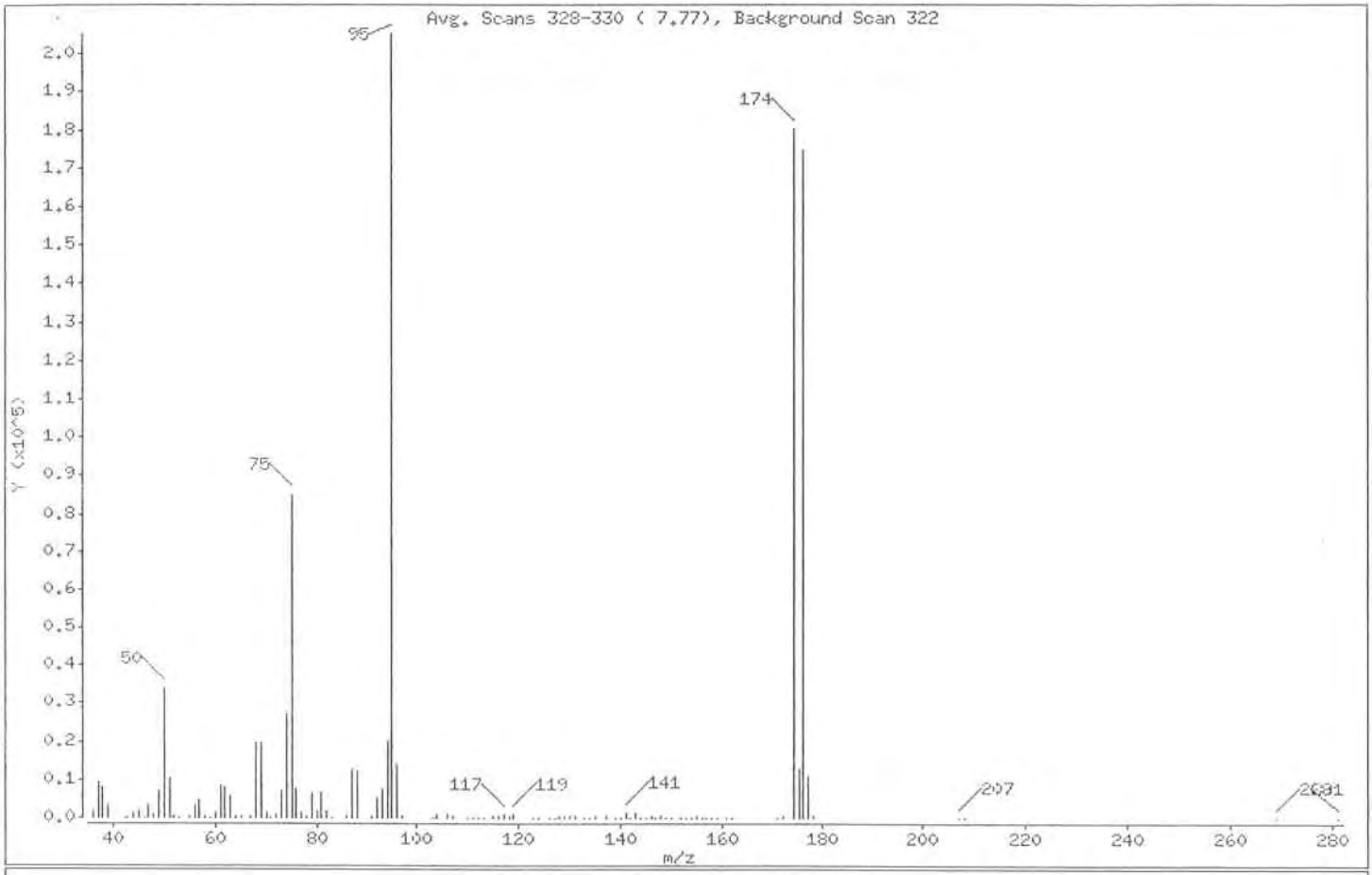
Sample Info: BFBUT;2660

Operator: 2660

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.44
75	30.00 - 80.00% of mass 95	41.40
96	5.00 - 9.00% of mass 95	6.89
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	87.72
175	5.00 - 9.00% of mass 174	6.23 (7.11)
176	95.00 - 101.00% of mass 174	84.96 (96.85)
177	5.00 - 9.00% of mass 176	5.34 (6.29)

Data File: /chem/5972hp73.i/BG070912B73.b/BG070912B73.d

Date : 12-SEP-2007 19:11

Client ID: BFBUT

Instrument: 5972hp73.i

Sample Info: BFBUT:2660

Operator: 2660

Column phase: SPB-624

Column diameter: 0.32

Data File: BG070912B73.d
Spectrum: Avg. Scans 328-330 (7.77), Background Scan 322
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1944	69.00	19616	110.00	128	147.00	190
37.00	9434	70.00	1528	111.00	130	148.00	383
38.00	8063	71.00	45	112.00	106	149.00	184
39.00	3120	72.00	916	113.00	90	150.00	215
42.00	144	73.00	7001	115.00	286	152.00	42
43.00	19	74.00	27464	116.00	549	153.00	112
44.00	1483	75.00	85000	117.00	1104	154.00	165
45.00	1785	76.00	7548	118.00	617	155.00	536
46.00	42	77.00	1402	119.00	972	156.00	106
47.00	3402	78.00	510	123.00	36	157.00	231
48.00	1018	79.00	6492	124.00	147	158.00	48
49.00	7255	80.00	2004	126.00	83	159.00	224
50.00	33752	81.00	6517	127.00	39	161.00	73
51.00	10476	82.00	1652	128.00	498	162.00	40
52.00	379	83.00	117	129.00	386	171.00	35
53.00	112	86.00	263	130.00	656	172.00	521
55.00	411	87.00	12844	131.00	303	174.00	180096
56.00	3085	88.00	12413	133.00	21	175.00	12799
57.00	4744	91.00	668	134.00	123	176.00	174400
58.00	319	92.00	4962	135.00	318	177.00	10964
59.00	61	93.00	7461	137.00	307	178.00	328
60.00	1568	94.00	20408	139.00	40	207.00	126
61.00	8727	95.00	205312	140.00	63	208.00	119
62.00	8062	96.00	14138	141.00	1530	269.00	39
63.00	5645	97.00	377	142.00	90	281.00	37
64.00	518	103.00	83	143.00	1309		
65.00	356	104.00	820	144.00	95		
67.00	495	106.00	845	145.00	89		
68.00	19936	107.00	265	146.00	306		

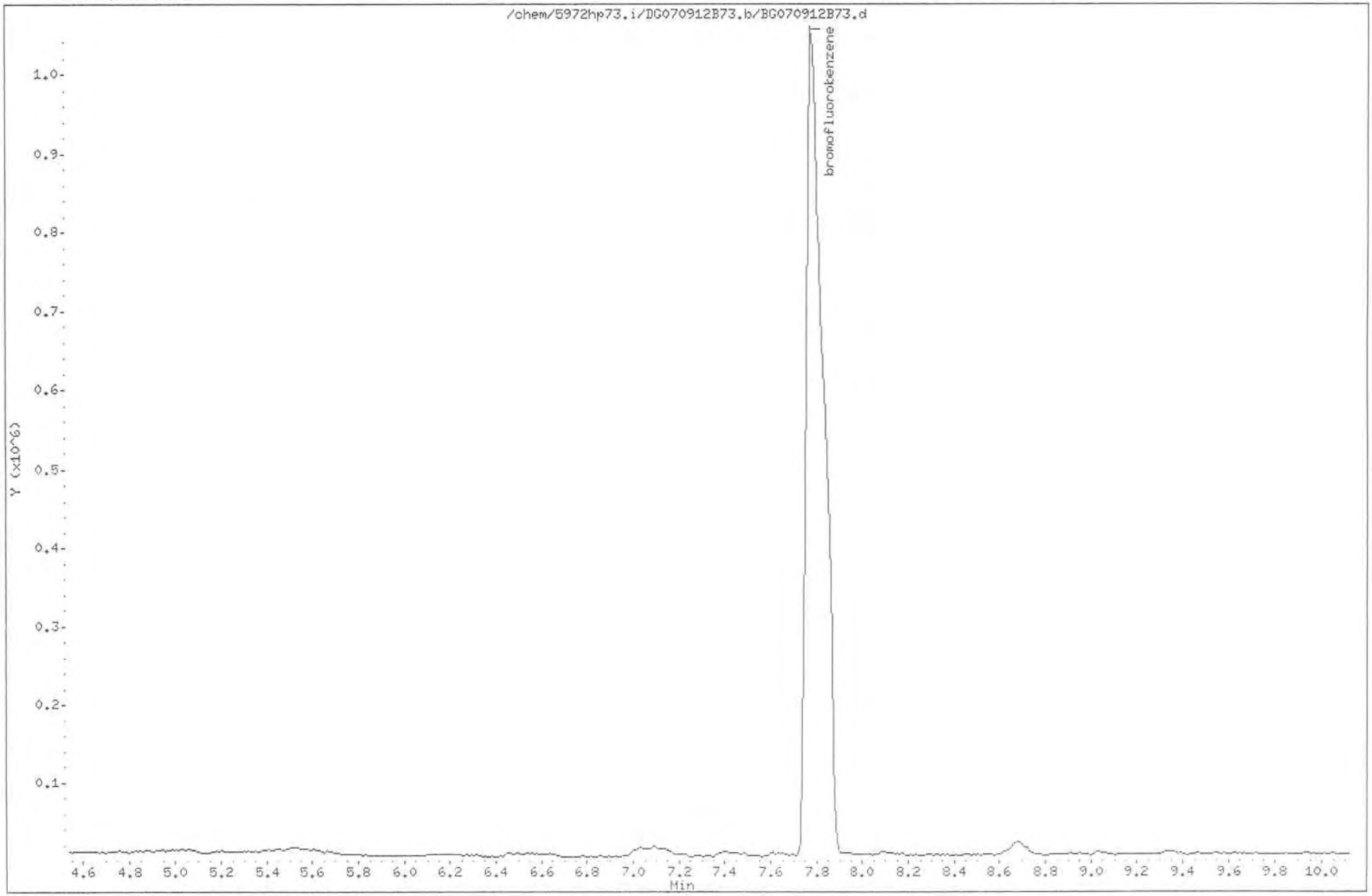
ORIGINAL

Data File: /chem/5972hp73.i/DG070912B73.b/BG070912B73.d
Date : 12-SEP-2007 19:11
Client ID: BFBUT
Sample Info: BFBUT:2660

Instrument: 5972hp73.i

Operator: 2660
Column diameter: 0.32

Column phase: SPB-624



Data File: /chem/5973hp90.i/DF070823A90.b/BF070823A90.d

Date : 23-AUG-2007 11:28

Client ID: BFBRR

Instrument: 5973hp90.i

Sample Info: BFB:2481

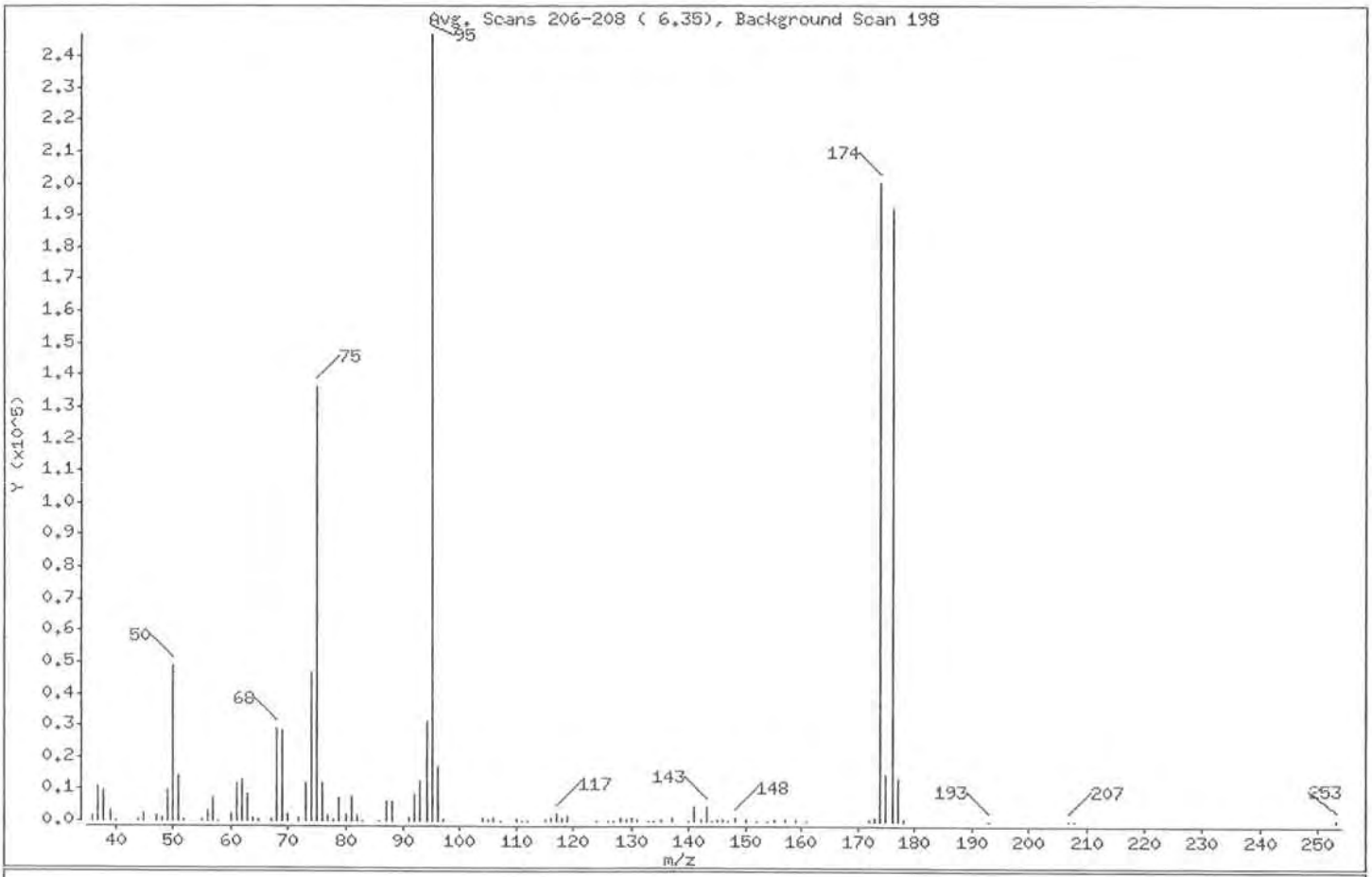
Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.73
75	30.00 - 80.00% of mass 95	55.26
96	5.00 - 9.00% of mass 95	6.98
173	Less than 2.00% of mass 174	0.51 (0.62)
174	50.00 - 120.00% of mass 95	81.97
175	5.00 - 9.00% of mass 174	5.90 (7.28)
176	95.00 - 101.00% of mass 174	78.00 (96.21)
177	5.00 - 9.00% of mass 176	5.52 (7.08)

Data File: /chem/5973hp90.i/DF070823A90.b/BF070823A90.d

Date : 23-AUG-2007 11:28

Client ID: BFBRR

Instrument: 5973hp90.i

Sample Info: BFB;2481

Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

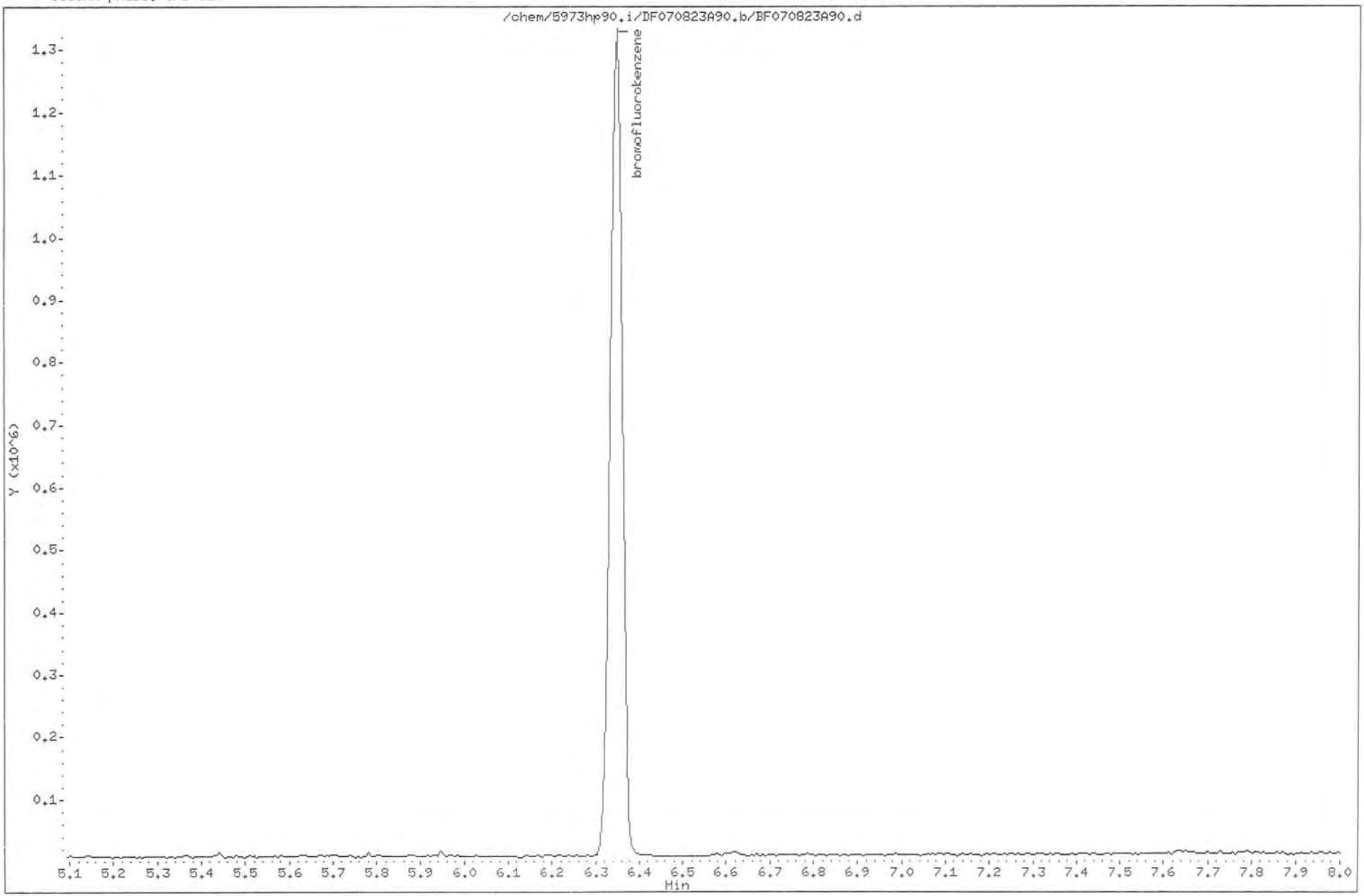
Data File: BF070823A90.d
Spectrum: Avg. Scans 206-208 (6.35), Background Scan 198
Location of Maximum: 95.00
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1833	69.00	28536	105.00	542	143.00	4394
37.00	10552	70.00	2191	106.00	1391	144.00	222
38.00	9639	72.00	1313	107.00	119	145.00	391
39.00	3598	73.00	11713	110.00	360	146.00	414
40.00	102	74.00	46616	111.00	123	147.00	89
44.00	722	75.00	136384	112.00	101	148.00	1065
45.00	2346	76.00	11835	115.00	513	150.00	564
47.00	1650	77.00	1461	116.00	1271	152.00	147
48.00	1271	78.00	801	117.00	2179	154.00	100
49.00	9899	79.00	7645	118.00	1245	155.00	761
50.00	48712	80.00	2250	119.00	1894	157.00	729
51.00	14461	81.00	8220	124.00	118	159.00	400
52.00	734	82.00	1500	126.00	114	161.00	160
55.00	670	83.00	105	127.00	129	172.00	406
56.00	3570	86.00	139	128.00	1172	173.00	1249
57.00	7175	87.00	6429	129.00	572	174.00	200128
58.00	121	88.00	6093	130.00	1081	175.00	14577
60.00	2115	91.00	1294	131.00	464	176.00	192512
61.00	12089	92.00	8680	133.00	269	177.00	13632
62.00	12966	93.00	12338	134.00	114	178.00	425
63.00	8746	94.00	31336	135.00	501	193.00	101
64.00	1099	95.00	246848	137.00	936	207.00	140
65.00	422	96.00	17224	140.00	102	208.00	30
67.00	769	97.00	504	141.00	4288	253.00	308
68.00	28992	104.00	1325	142.00	511		

ORIGINAL

Data File: /chem/5973hp90.i/DF070823A90.b/BF070823A90.d
Date : 23-AUG-2007 11:28
Client ID: BFBRR
Sample Info: BFB:2481
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070824A90.b/BF070824A90.d

Date : 24-AUG-2007 09:34

Client ID: BFBRT

Instrument: 5973hp90.i

Sample Info: BFBRT:2481

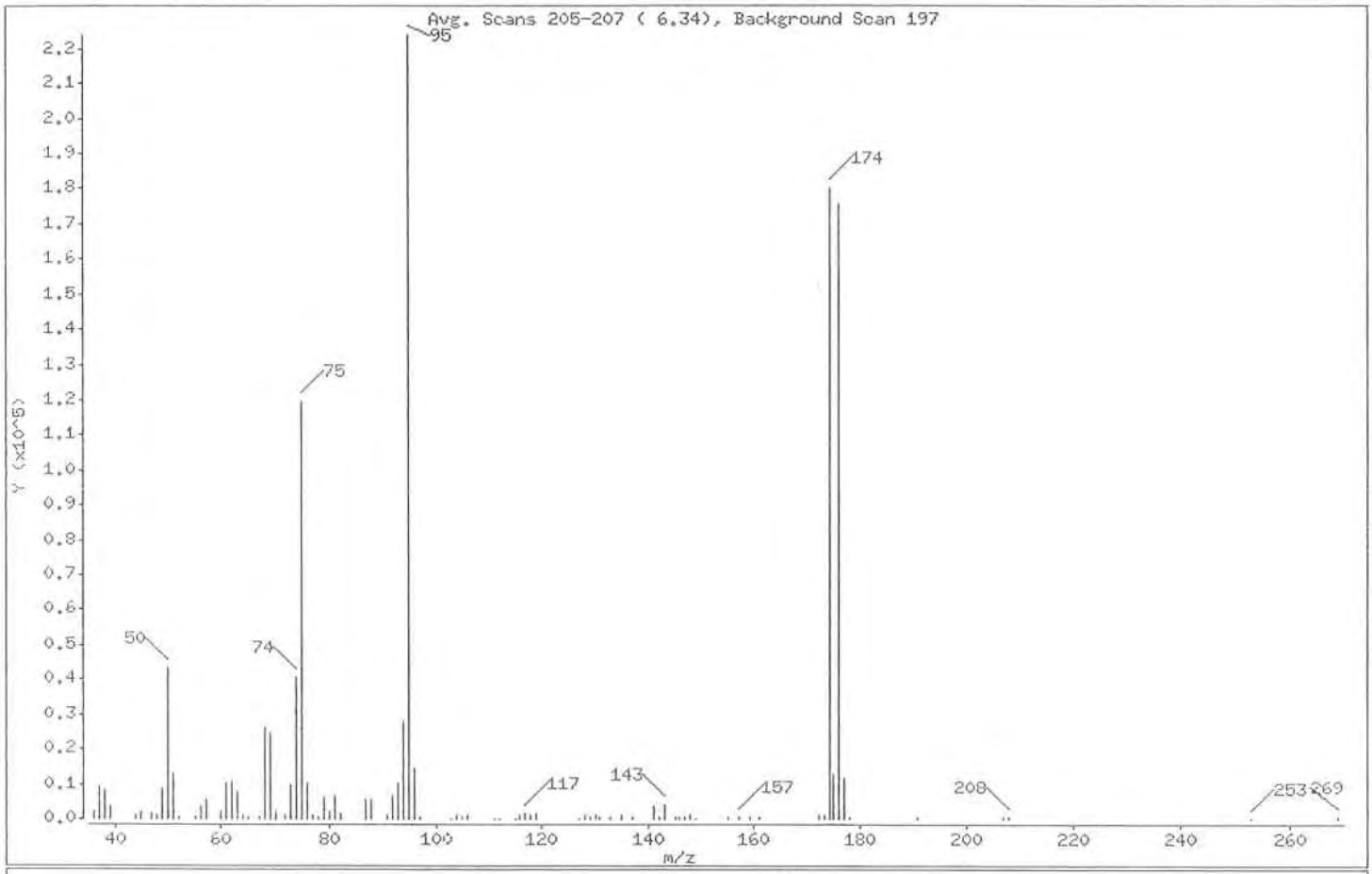
Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.33
75	30.00 - 80.00% of mass 95	53.29
96	5.00 - 9.00% of mass 95	6.51
173	Less than 2.00% of mass 174	0.45 (0.56)
174	50.00 - 120.00% of mass 95	80.49
175	5.00 - 9.00% of mass 174	5.64 (7.00)
176	95.00 - 101.00% of mass 174	78.45 (97.47)
177	5.00 - 9.00% of mass 176	5.21 (6.64)

Data File: /chem/5973hp90.i/DF070824A90.b/BF070824A90.d

Date : 24-AUG-2007 09:34

Client ID: BFBRT

Instrument: 5973hp90.i

Sample Info: BFBRT:2481

Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

Data File: BF070824A90.d

Spectrum: Avg. Scans 205-207 (6.34), Background Scan 197

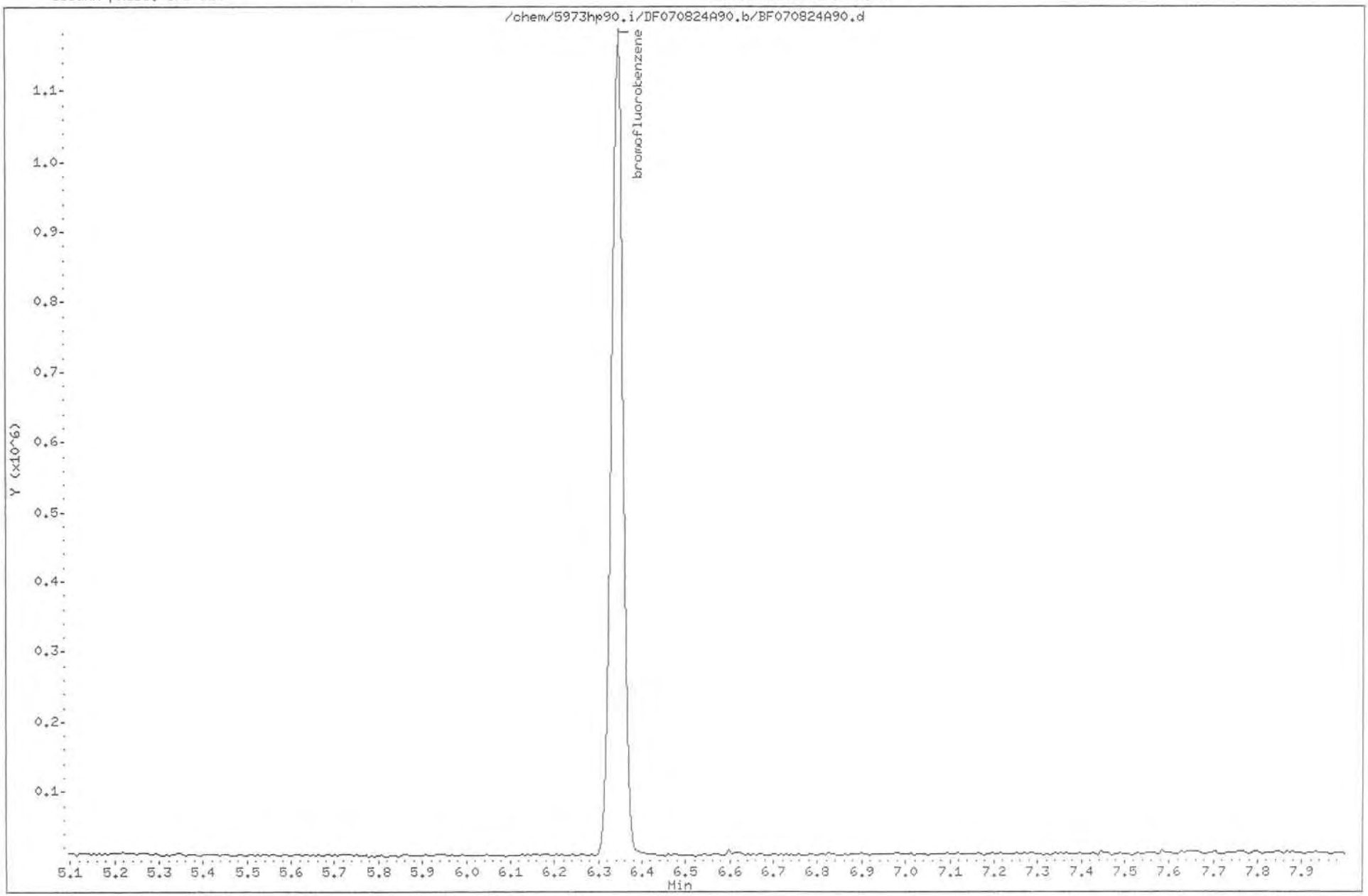
Location of Maximum: 95.00

Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1871	69.00	24464	104.00	1233	147.00	546
37.00	9041	70.00	1804	105.00	387	148.00	857
38.00	8233	72.00	1267	106.00	1234	149.00	104
39.00	3661	73.00	9850	111.00	139	155.00	543
44.00	807	74.00	40760	112.00	115	157.00	547
45.00	1930	75.00	119392	115.00	251	159.00	405
47.00	1655	76.00	10161	116.00	914	161.00	536
48.00	1228	77.00	1199	117.00	1720	172.00	912
49.00	8816	78.00	516	118.00	1075	173.00	1006
50.00	43312	79.00	6413	119.00	1466	174.00	180288
51.00	12956	80.00	2001	127.00	117	175.00	12632
52.00	656	81.00	6780	128.00	1084	176.00	175744
55.00	643	82.00	1454	129.00	472	177.00	11675
56.00	3367	87.00	5702	130.00	953	178.00	387
57.00	5871	88.00	5824	131.00	542	191.00	325
60.00	2056	91.00	1107	133.00	404	207.00	520
61.00	10471	92.00	6825	135.00	802	208.00	546
62.00	10984	93.00	10543	137.00	657	253.00	95
63.00	7841	94.00	27976	141.00	3716	269.00	511
64.00	1044	95.00	224000	142.00	400		
65.00	576	96.00	14589	143.00	3983		
67.00	539	97.00	388	145.00	474		
68.00	26152	103.00	106	146.00	535		

Data File: /chem/5973hp90.i/DF070824A90.b/BF070824A90.d
Date : 24-AUG-2007 09:34
Client ID: BFBRT
Sample Info: BFBRT:2481
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070827A90.b/BF070827A90.d

Date : 27-AUG-2007 09:48

Client ID: BFBRV

Instrument: 5973hp90.i

Sample Info: BFB:2481

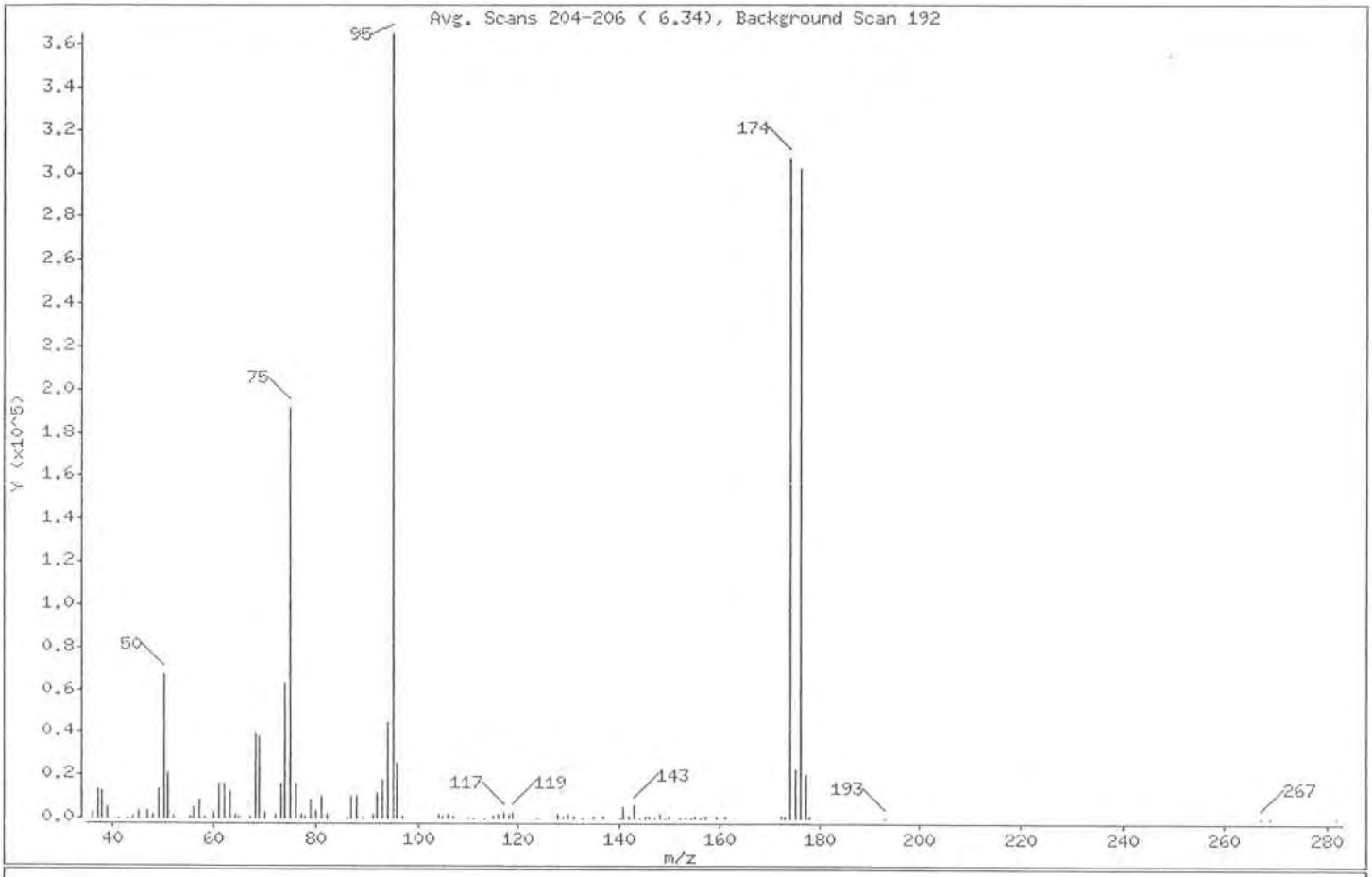
Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.37
75	30.00 - 80.00% of mass 95	52.48
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.32 (0.38)
174	50.00 - 120.00% of mass 95	84.20
175	5.00 - 9.00% of mass 174	6.13 (7.28)
176	95.00 - 101.00% of mass 174	82.79 (98.32)
177	5.00 - 9.00% of mass 176	5.56 (6.71)

Data File: /chem/5973hp90.i/BF070827A90.b/BF070827A90.d

Date : 27-AUG-2007 09:48

Client ID: BFBRV

Instrument: 5973hp90.i

Sample Info: BFB:2481

Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

Data File: BF070827A90.d

Spectrum: Avg. Scans 204-206 (6.34), Background Scan 192

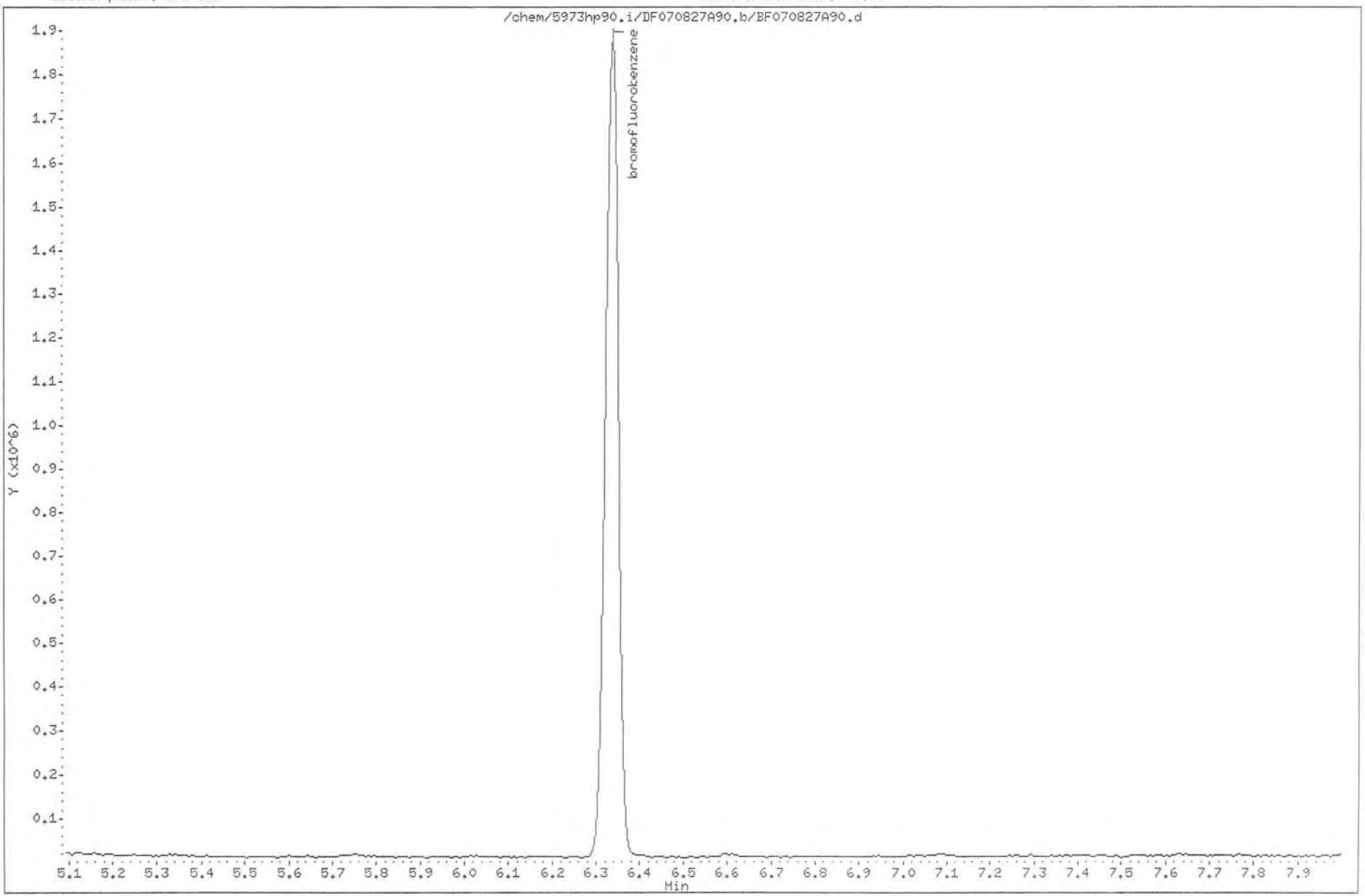
Location of Maximum: 95.00

Number of points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2546	69.00	37904	106.00	1687	148.00	1284
37.00	13670	70.00	2711	107.00	441	149.00	248
38.00	12488	72.00	1784	110.00	241	150.00	569
39.00	5041	73.00	16054	111.00	298	152.00	120
41.00	283	74.00	62656	113.00	359	153.00	250
43.00	404	75.00	191552	115.00	491	154.00	113
44.00	1028	76.00	16359	116.00	1471	155.00	1031
45.00	2955	77.00	2039	117.00	2911	156.00	140
47.00	3066	78.00	644	118.00	1421	157.00	860
48.00	1837	79.00	8791	119.00	2458	159.00	730
49.00	13185	80.00	3274	124.00	109	161.00	589
50.00	67072	81.00	9965	128.00	1778	172.00	959
51.00	20920	82.00	1980	129.00	919	173.00	1161
52.00	940	86.00	101	130.00	1615	174.00	307392
55.00	904	87.00	10388	131.00	603	175.00	22368
56.00	5139	88.00	9794	133.00	7	176.00	302208
57.00	8797	89.00	203	135.00	1049	177.00	20280
58.00	528	91.00	1449	137.00	875	178.00	561
60.00	2922	92.00	11507	140.00	368	193.00	169
61.00	15962	93.00	17640	141.00	5265	267.00	242
62.00	16082	94.00	44640	142.00	666	269.00	170
63.00	12577	95.00	365056	143.00	5581	282.00	160
64.00	1372	96.00	24848	144.00	400		
65.00	522	97.00	768	145.00	510		
67.00	790	104.00	1996	146.00	764		
68.00	39120	105.00	771	147.00	300		

ORIGINAL

Data File: /chem/5973hp90.i/DF070827A90.b/BF070827A90.d
Date : 27-AUG-2007 09:48
Client ID: BFBRV
Instrument: 5973hp90.i
Sample Info: BFB:2481
Volume Injected (uL): 2.0
Operator: 2481
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070829A90.b/BF070829A90.d

Date : 29-AUG-2007 10:44

Client ID: BFBRX

Instrument: 5973hp90.i

Sample Info: BFBRX,2481

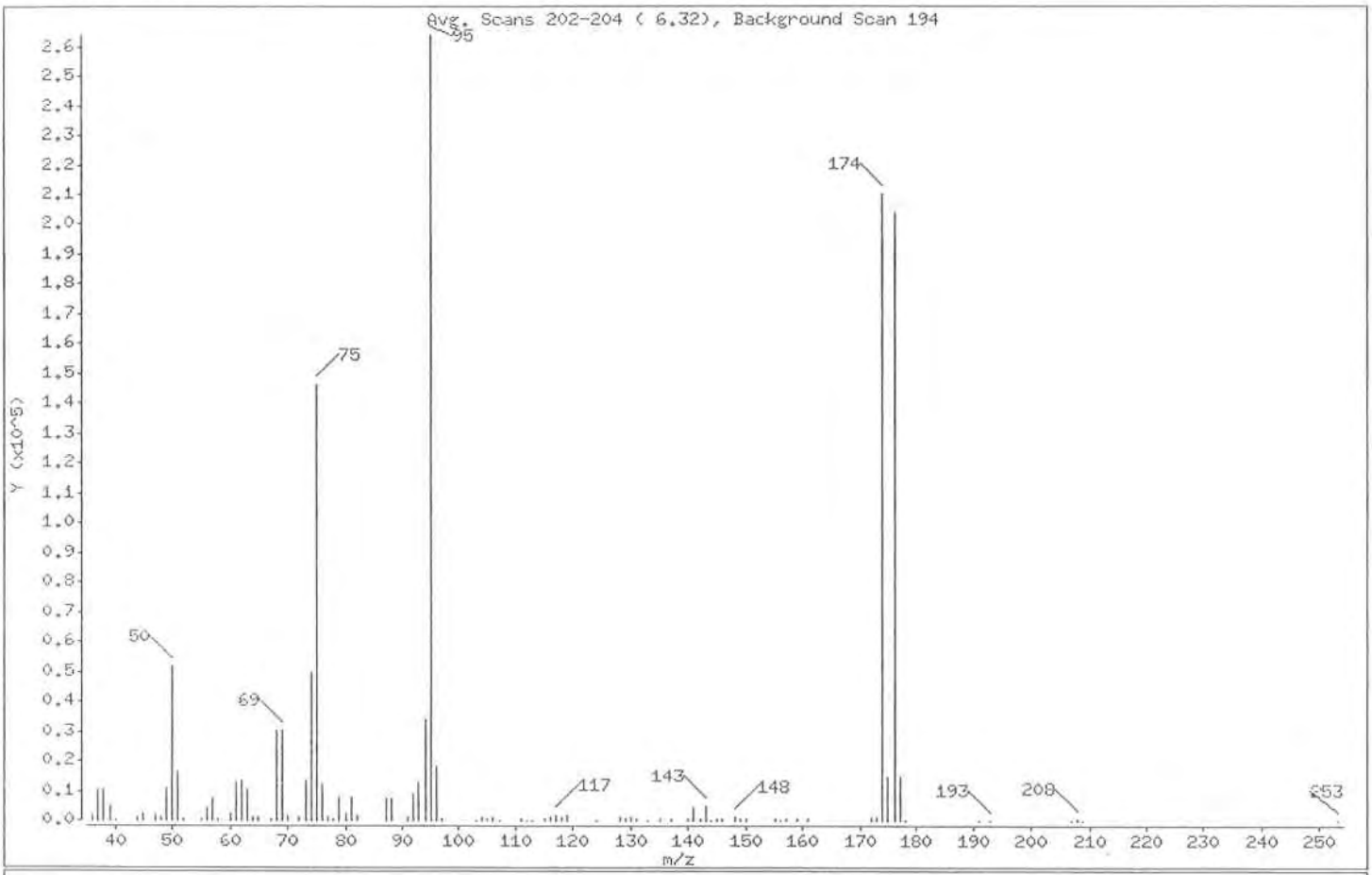
Volume Injected (uL): 2.0

Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene

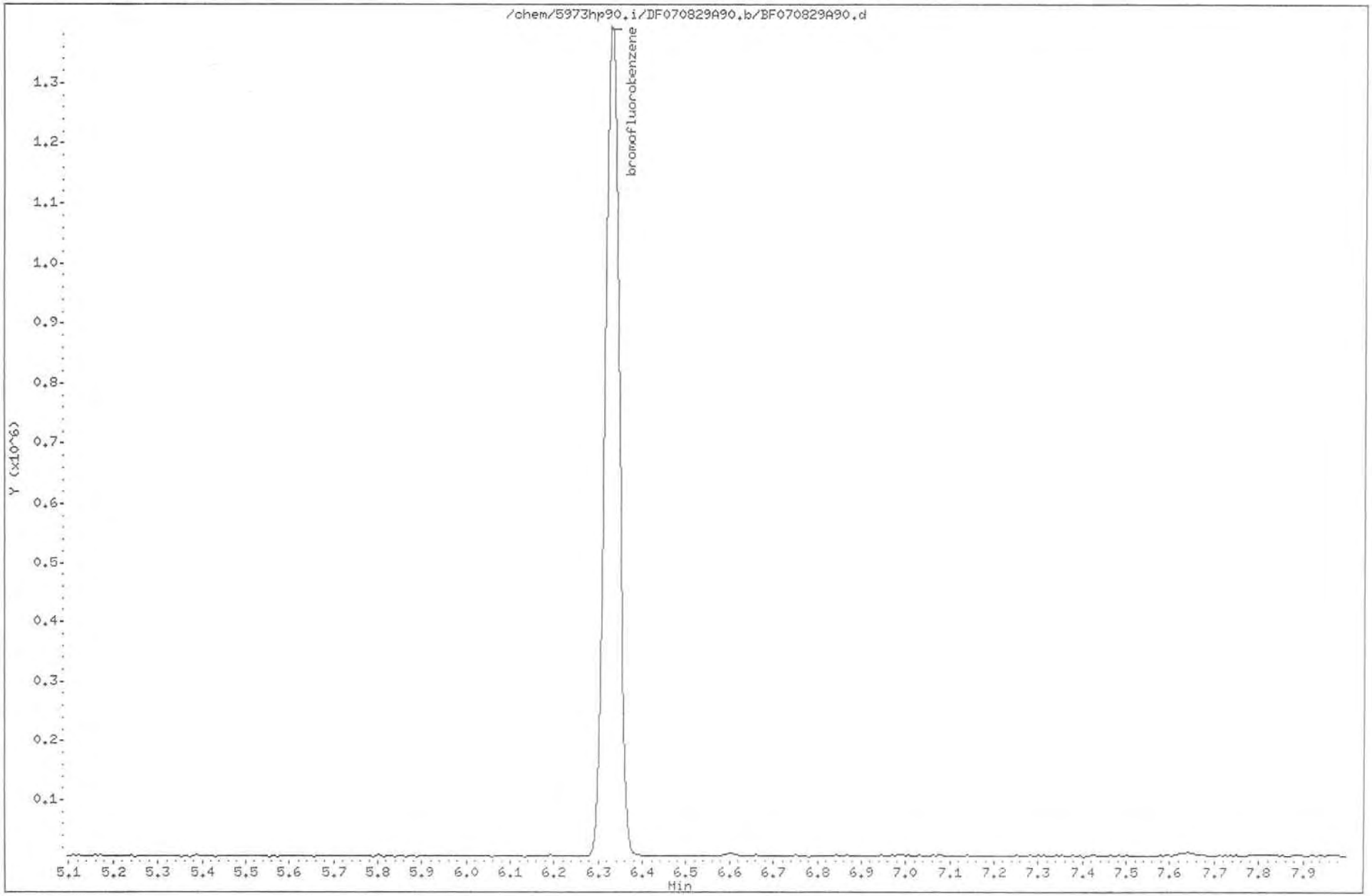


m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.65
75	30.00 - 80.00% of mass 95	55.40
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.46 (0.57)
174	50.00 - 120.00% of mass 95	79.70
175	5.00 - 9.00% of mass 174	5.58 (7.00)
176	95.00 - 101.00% of mass 174	77.50 (97.23)
177	5.00 - 9.00% of mass 176	5.48 (7.07)

ORIGINAL

Data File: /chem/5973hp90.i/DF070829A90.b/BF070829A90.d
Date : 29-AUG-2007 10:44
Client ID: BFBRX
Sample Info: BFBRX:2481
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument. Shall include:

- Tabulated Results (Form I, VOA-1, VOA-2, VOA-SIM)

- Tentatively Identified Compounds (Form I VOA-TIC)

- Reconstructed Ion Chromatogram and quantitation report.

- Target compound spectra with lab-generated standard spectra.

- Quantitation/Calculation of TIC concentrations.

- GC/MS library search spectra for TICs.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKUT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 150443

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 150443B73

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 09/12/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	3.1	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.38	J
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKUT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 150443

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 150443B73

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 09/12/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKUT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 150443

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 150443B73

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 09/12/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	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					
	E966796 [1]	Total Alkanes	N/A		

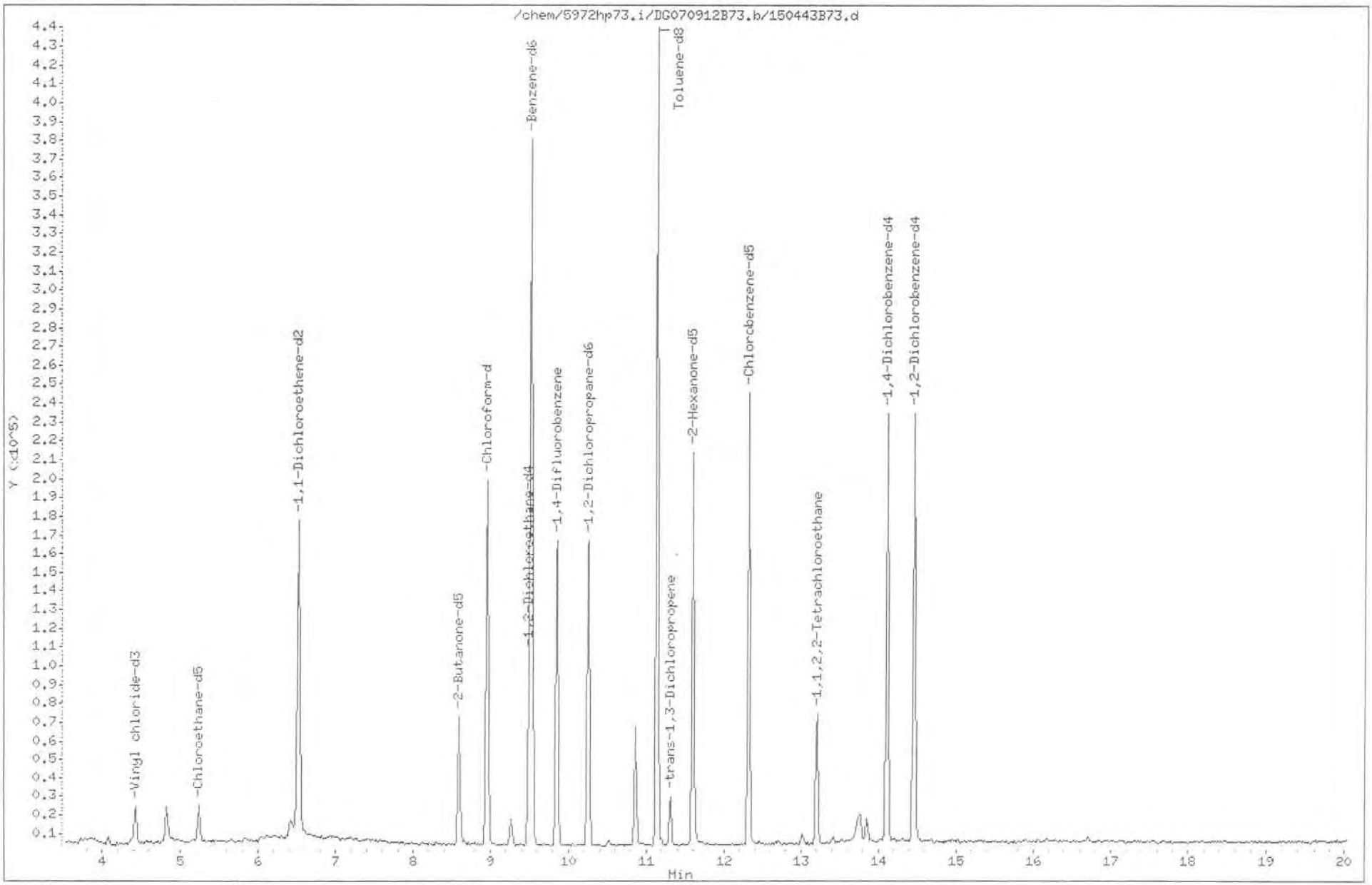
[1] EPA-designated Registry Number.

Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d
Date : 12-SEP-2007 23:11
Client ID: VBLKUT
Sample Info: VBLKUT:2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i

Operator: 2660
Column diameter: 0.32

ORIGINAL



Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d
Report Date: 13-Sep-2007 11:26

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/150443B73.d
Lab Smp Id: 150443 Client Smp ID: VBLKUT
Inj Date : 12-SEP-2007 23:11
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VBLKUT:2660
Misc Info : VMS:1449
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:36 Cal File: GW070912B73.d
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.860	9.861	(1.000)	168085	125.000	
* 2	Chlorobenzene-d5	117	12.315	12.316	(1.000)	138232	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.109	14.109	(1.000)	60182	125.000	
S 4	Vinyl chloride-d3	65	4.428	4.428	(0.449)	26369	98.1653	3.9
S 5	Chloroethane-d5	69	5.246	5.247	(0.532)	21390	120.382	4.8
S 6	1,1-Dichloroethene-d2	63	6.517	6.518	(0.661)	135694	88.0601	3.5
S 7	2-Butanone-d5	46	8.589	8.590	(0.871)	92441	1110.07	44
S 8	Chloroform-d	84	8.972	8.973	(0.910)	173711	120.125	4.8
S 9	1,2-Dichloroethane-d4	65	9.495	9.495	(0.963)	56897	122.155	4.9
S 10	Benzene-d6	84	9.529	9.530	(0.774)	364284	123.449	4.9
S 11	1,2-Dichloropropane-d6	67	10.261	10.261	(0.833)	96371	118.370	4.7
S 12	Toluene-d8	98	11.149	11.149	(0.905)	285943	118.771	4.8
S 13	trans-1,3-Dichloropropene-d4	79	11.323	11.323	(0.919)	17097	116.977	4.7
S 14	2-Hexanone-d5	63	11.601	11.602	(0.942)	72434	1079.93	43
S 15	1,1,2,2-Tetrachloroethane-d2	84	13.221	13.221	(1.074)	49311	120.901	4.8
S 17	1,2-Dichlorobenzene-d4	152	14.457	14.458	(1.025)	74988	121.618	4.9
18	Dichlorodifluoromethane	85	Compound Not Detected.					

9-17-07

Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d
Report Date: 13-Sep-2007 11:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	6.587	6.587	(0.668)	5082	78.4783	3.1(a)
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	Compound Not Detected.					
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	9.268	9.269	(0.753)	5850	9.41633	0.38(a)
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	Compound Not Detected.					
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4 Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d
Report Date: 13-Sep-2007 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d

Date : 12-SEP-2007 23:11

Client ID: VBLKUT

Instrument: 5972hp73.i

Sample Info: VBLKUT;2660

Purge Volume: 25.0

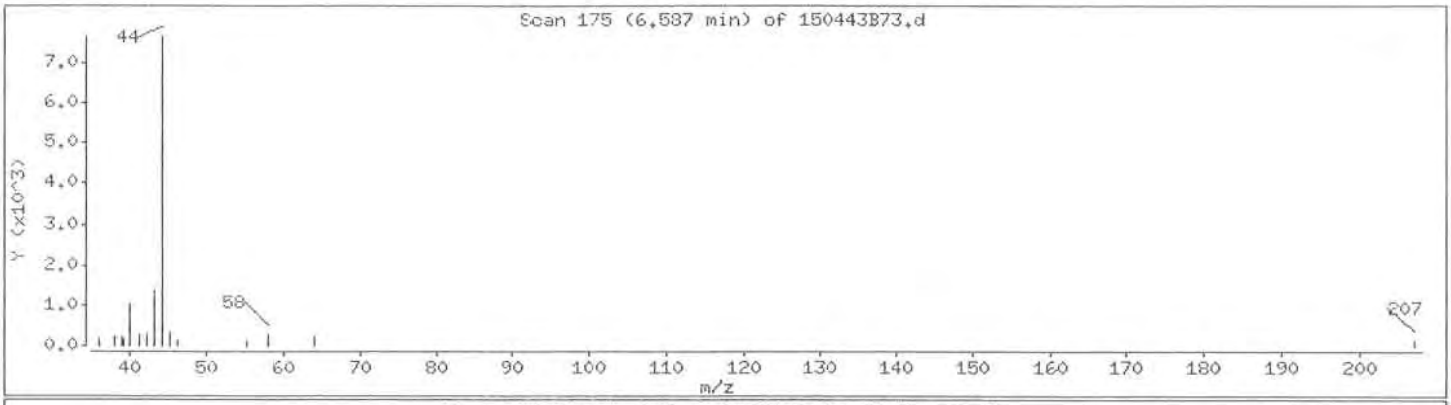
Operator: 2660

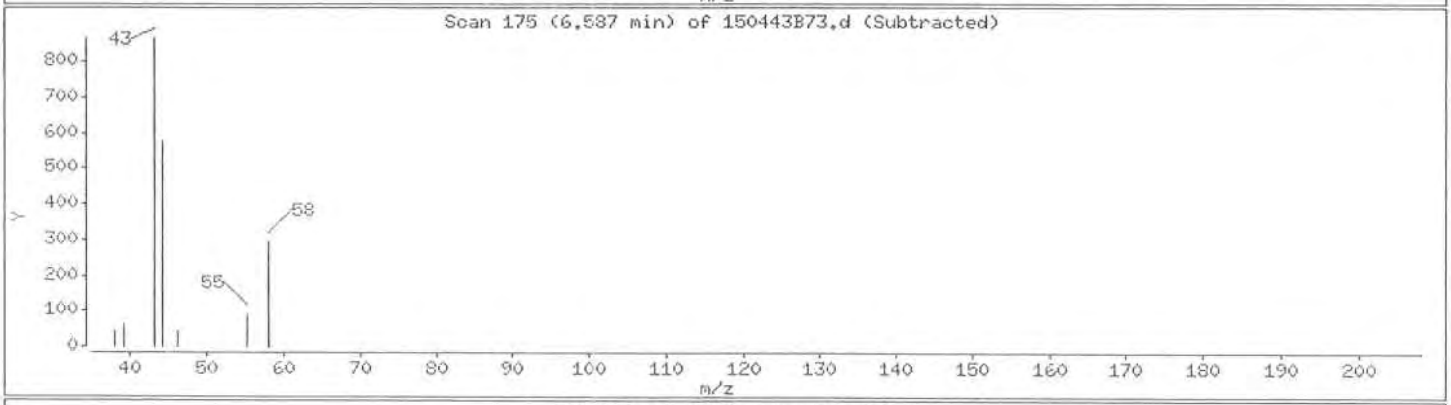
Column phase: SPB-624

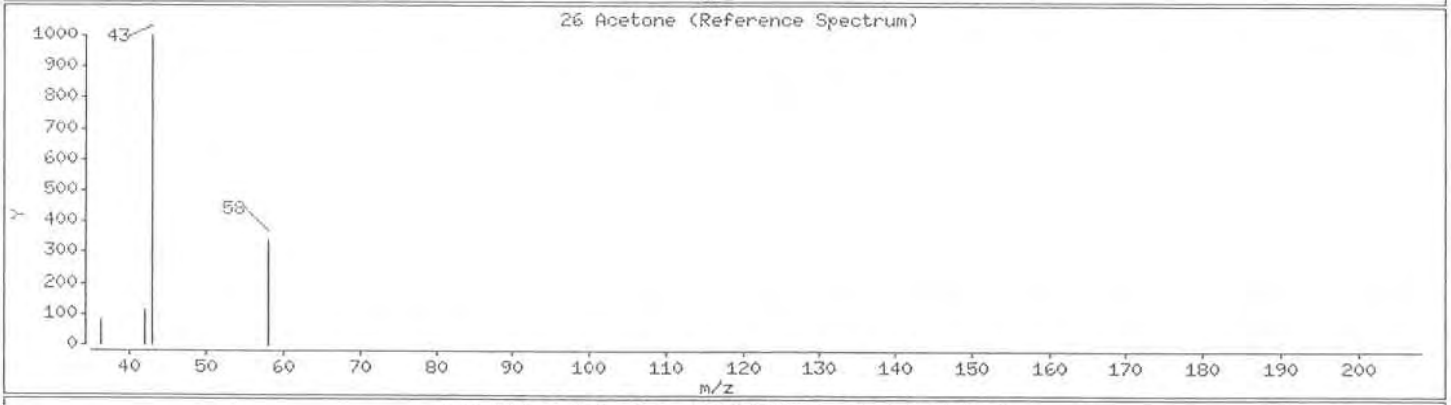
Column diameter: 0.32

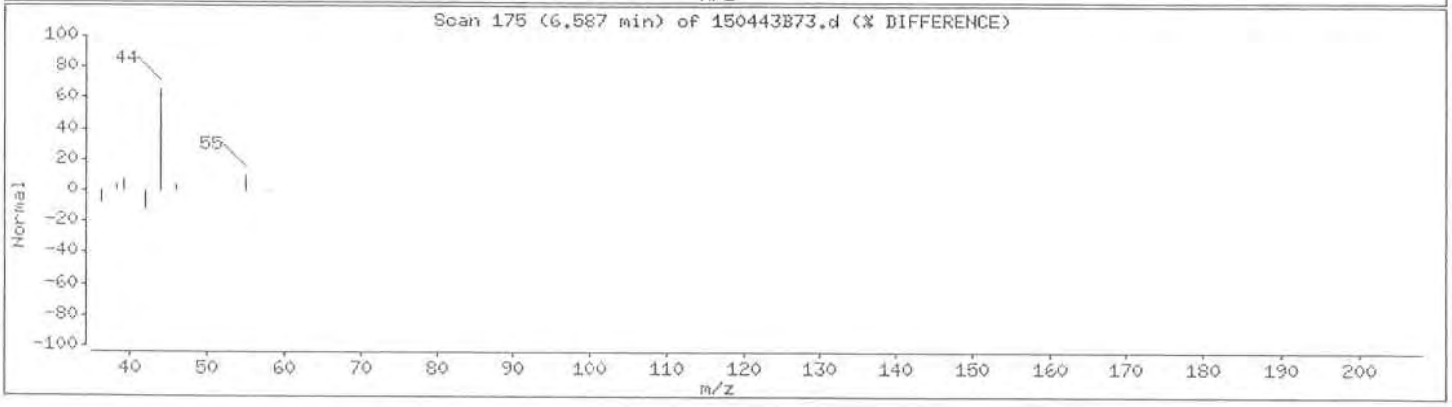
26 Acetone

Concentration: 3.1 ug/L









Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d

Date : 12-SEP-2007 23:11

Client ID: VBLKUT

Instrument: 5972hp73.i

Sample Info: VBLKUT;2660

Purge Volume: 25.0

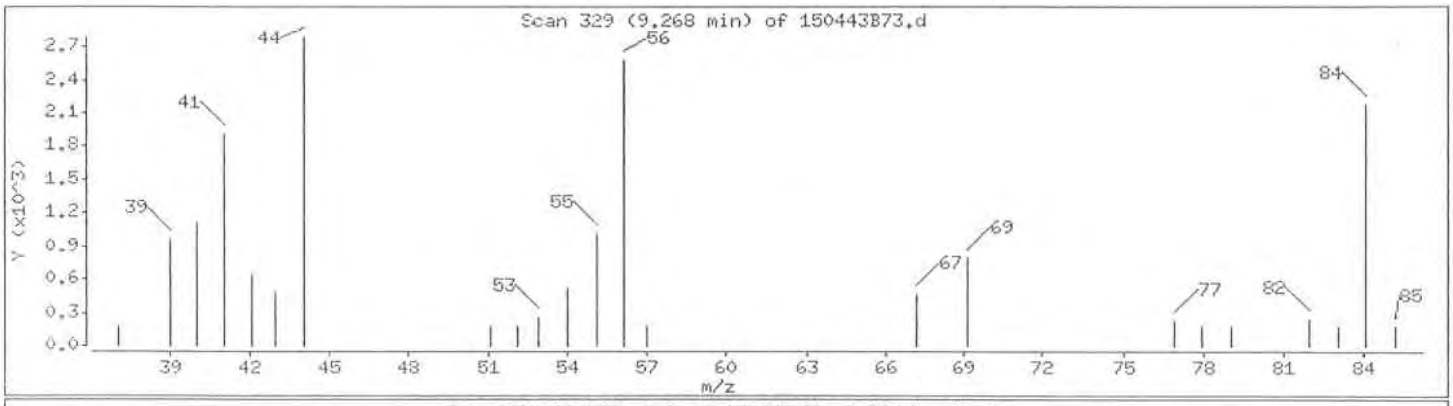
Operator: 2660

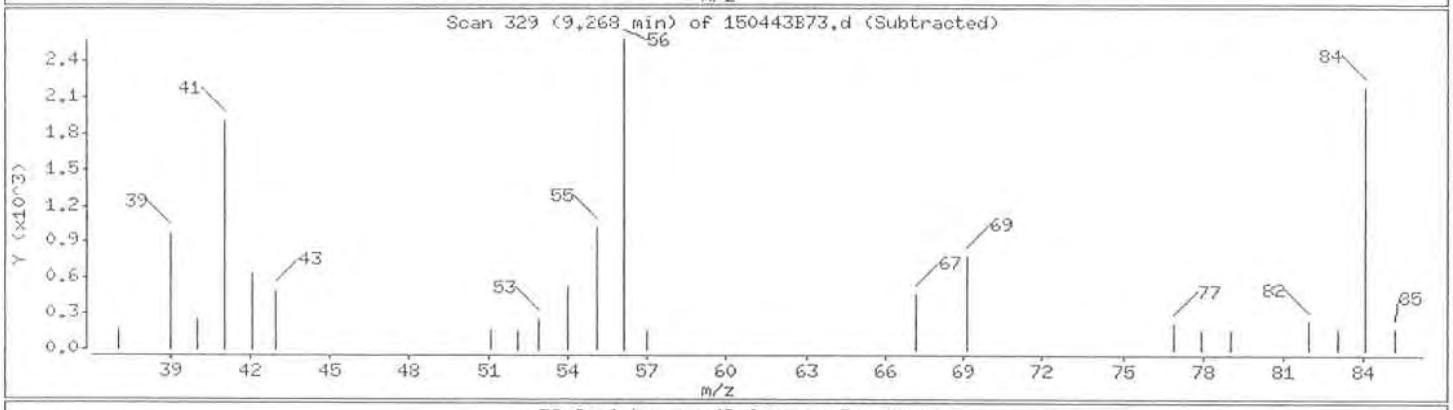
Column phase: SPB-624

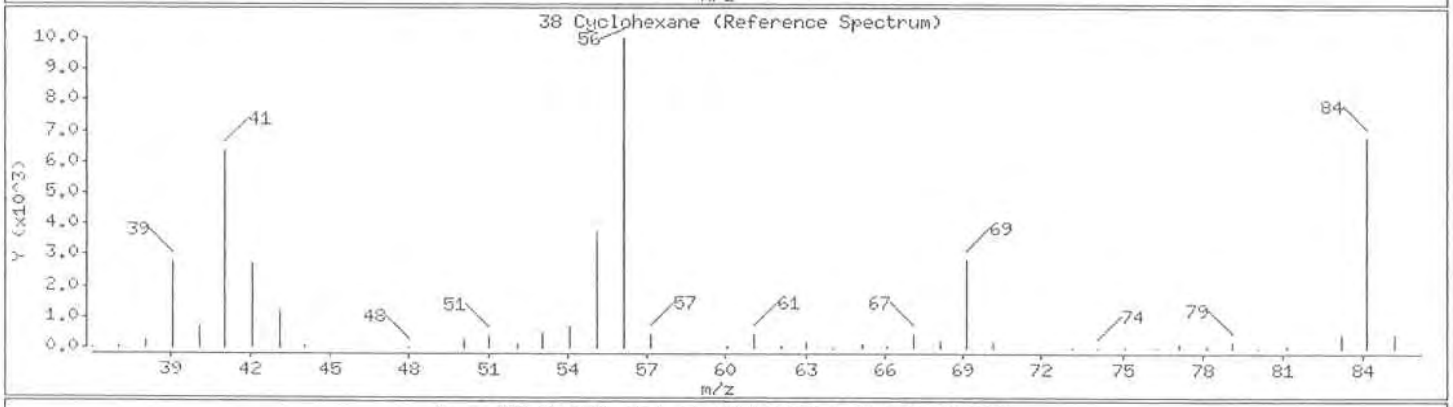
Column diameter: 0.32

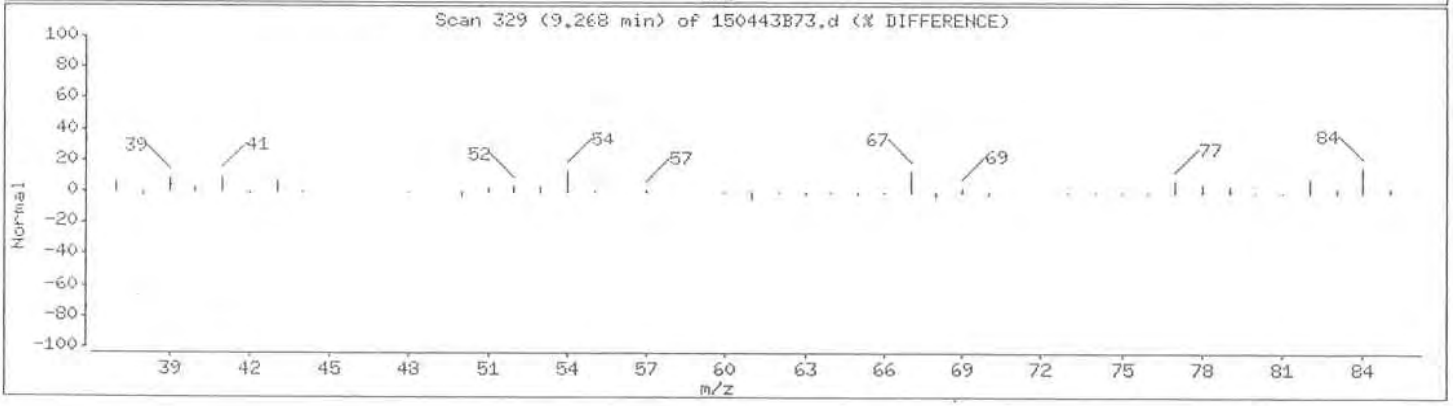
38 Cyclohexane

Concentration: 0.38 ug/L









Data File: /chem/5972hp73.i/DG070912B73.b/150443B73.d
Report Date: 13-Sep-2007 11:26

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/150443B73.d
Lab Smp Id: 150443 Client Smp ID: VBLKUT
Inj Date : 12-SEP-2007 23:11
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : VBLKUT:2660
Misc Info : VMS:1449
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:36 Cal File: GW070912B73.d
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRR

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149330

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149330A90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.11	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRR

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149330

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149330A90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKRR

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149330

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149330A90

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

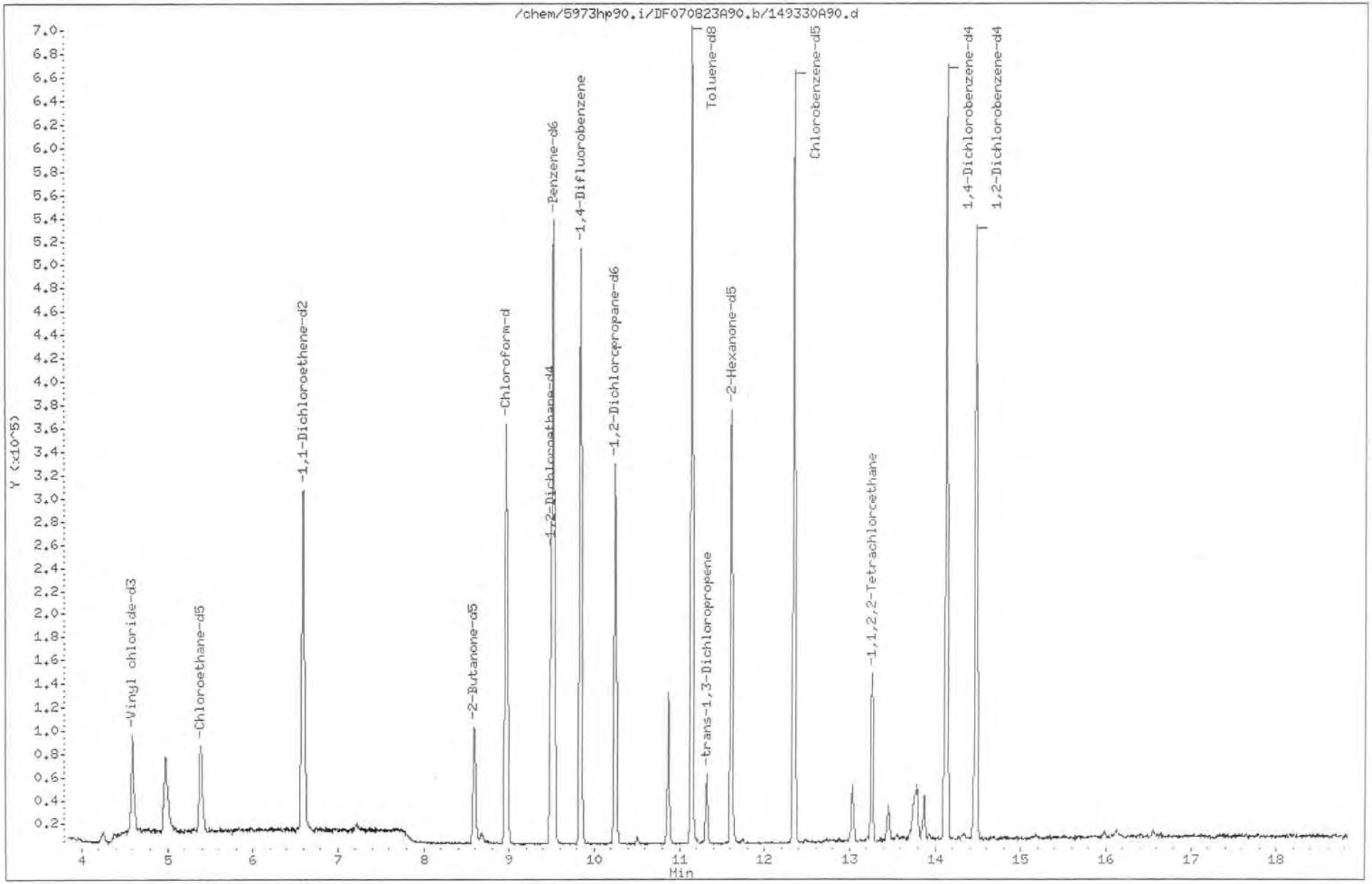
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: /chem/5973hp90.i/DF070823A90.b/149330A90.d
Date : 23-AUG-2007 14:15
Client ID: VBLKRR
Sample Info: 149330:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32

ORIGINAL



Data File: /chem/5973hp90.i/DF070823A90.b/149330A90.d
Report Date: 03-Sep-2007 09:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/149330A90.d
Lab Smp Id: 149330 Client Smp ID: VBLKRR
Inj Date : 23-AUG-2007 14:15
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 149330:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	9.841	9.841	(1.000)	361027	125.000	
* 2 Chlorobenzene-d5	117	12.342	12.341	(1.000)	318882	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.130	14.130	(1.000)	165098	125.000	
$ 4 Vinyl chloride-d3	65	4.597	4.597	(0.467)	120518	132.713	5.3
$ 5 Chloroethane-d5	69	5.388	5.388	(0.547)	102789	134.778	5.4
$ 6 1,1-Dichloroethene-d2	63	6.593	6.599	(0.670)	248991	100.973	4.0
$ 7 2-Butanone-d5	46	8.588	8.588	(0.873)	142417	1049.02	42
$ 8 Chloroform-d	84	8.965	8.965	(0.911)	314090	127.407	5.1
$ 9 1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	147228	130.533	5.2
$ 10 Benzene-d6	84	9.519	9.519	(0.771)	459723	137.047	5.5
$ 11 1,2-Dichloropropane-d6	67	10.249	10.249	(0.830)	123296	129.101	5.2
$ 12 Toluene-d8	98	11.143	11.143	(0.903)	443301	133.065	5.3
$ 13 trans-1,3-Dichloropropene-d4	79	11.326	11.325	(0.918)	36254	117.503	4.7
$ 14 2-Hexanone-d5	63	11.612	11.611	(0.941)	113792	1090.65	44
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.254	13.260	(1.074)	67202	122.128	4.9
$ 17 1,2-Dichlorobenzene-d4	152	14.471	14.471	(1.024)	136304	121.890	4.9
18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/149330A90.d
Report Date: 03-Sep-2007 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.225	7.225	(0.734)	3329	2.79384	0.11(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/149330A90.d
Report Date: 03-Sep-2007 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070823A90.b/149330A90.d

Date : 23-AUG-2007 14:15

Client ID: VBLKRR

Instrument: 5973hp90.i

Sample Info: 149330:2481

Purge Volume: 25.0

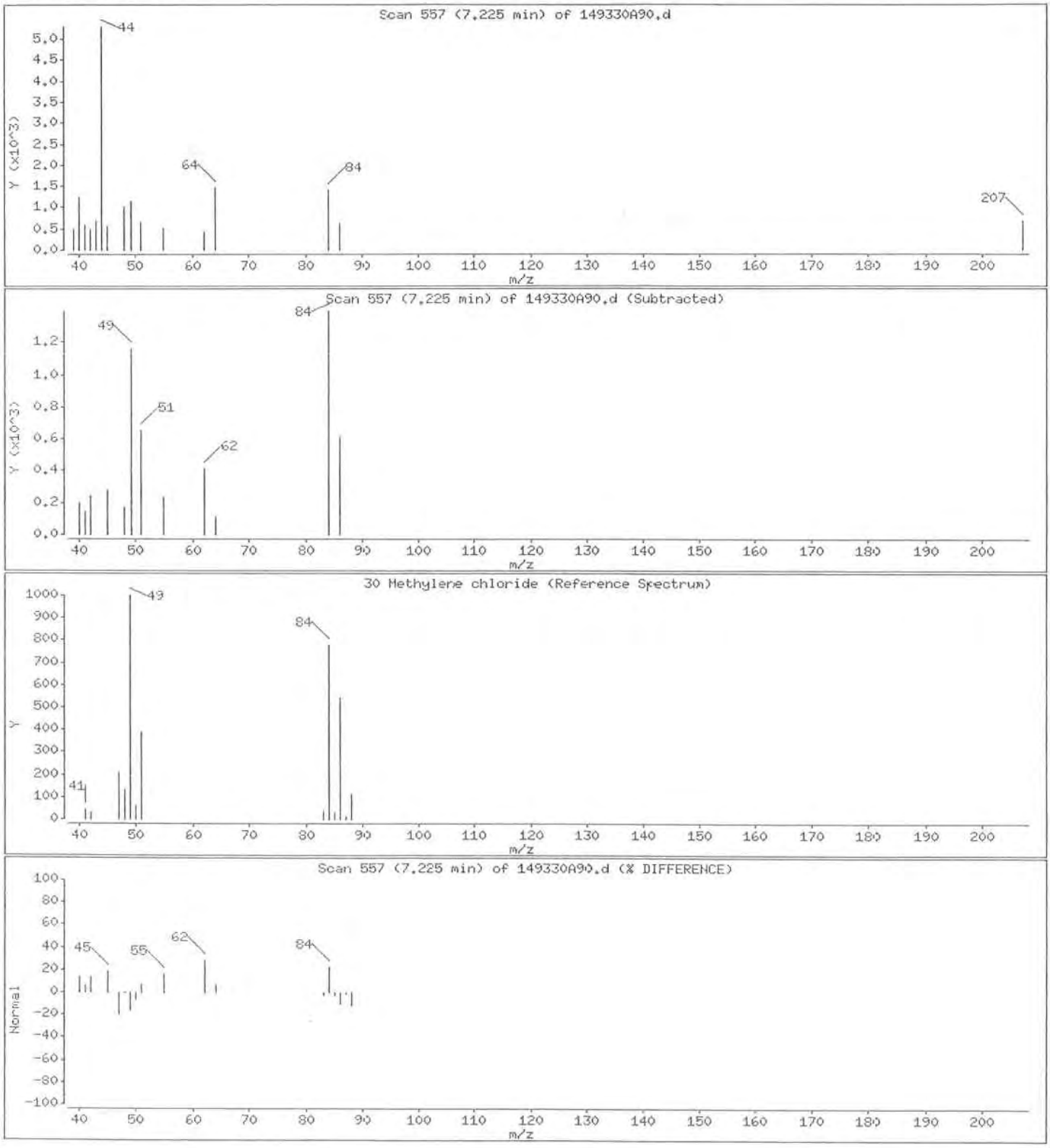
Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

30 Methylene chloride

Concentration: 0.11 ug/L



Data File: /chem/5973hp90.i/DF070823A90.b/149330A90.d
Report Date: 03-Sep-2007 09:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/149330A90.d
Lab Smp Id: 149330 Client Smp ID: VBLKRR
Inj Date : 23-AUG-2007 14:15
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 149330:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149518

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149518A90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.10	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149518

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149518A90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKRT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149518

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149518A90

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

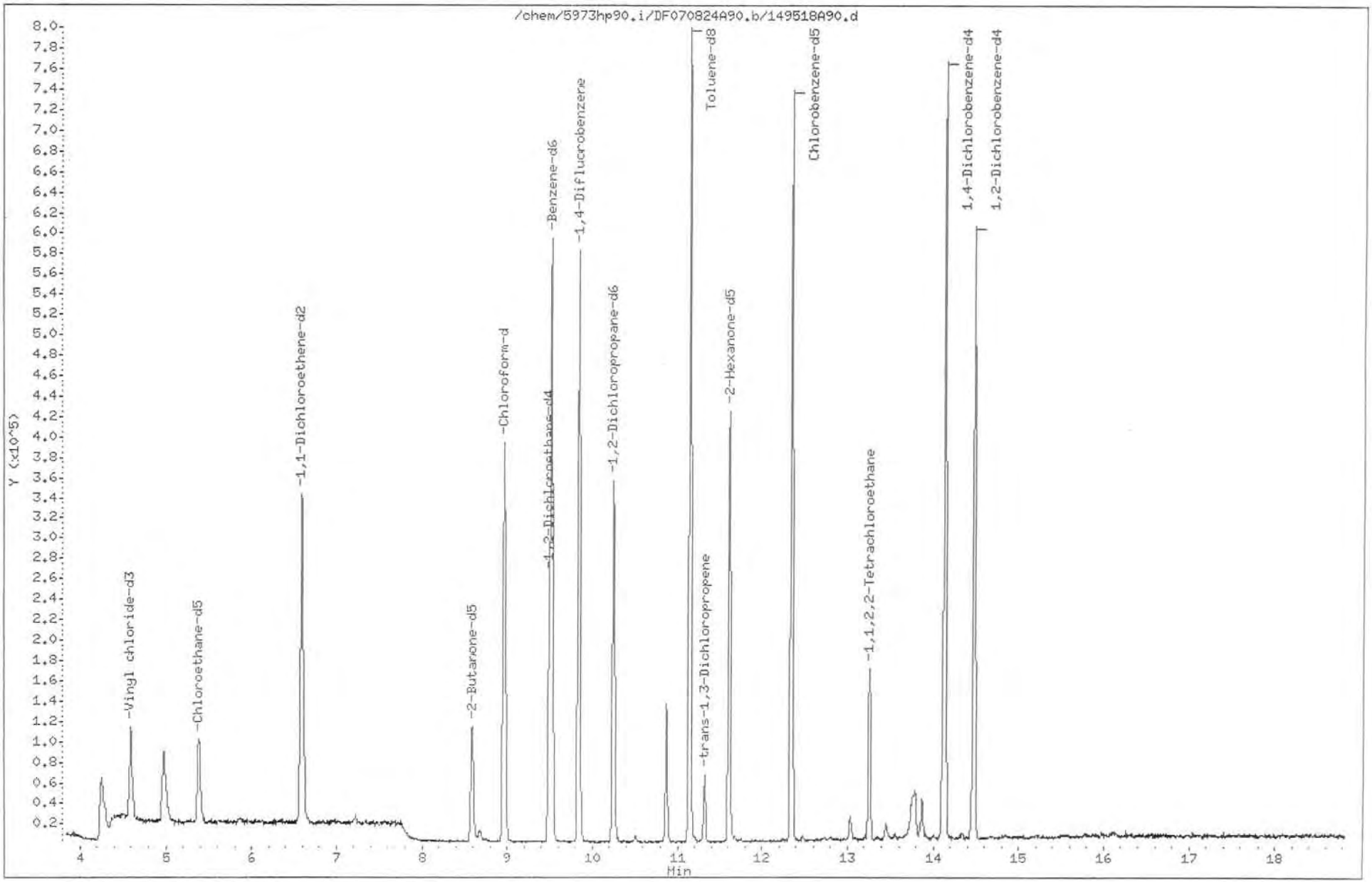
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

ORIGINAL

Data File: /chem/5973hp90.i/DF070824A90.b/149518A90.d
Date : 24-AUG-2007 10:41
Client ID: VBLKRT
Sample Info: VBLKRT:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070824A90.b/149518A90.d
Report Date: 03-Sep-2007 11:01

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/149518A90.d
Lab Smp Id: 149518 Client Smp ID: VBLKRT
Inj Date : 24-AUG-2007 10:41
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VBLKRT:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.841	9.844	(1.000)	411355	125.000	
* 2	Chlorobenzene-d5	117	12.341	12.344	(1.000)	371350	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.129	14.132	(1.000)	196959	125.000	
$ 4	Vinyl chloride-d3	65	4.597	4.600	(0.467)	133357	128.884	5.2
$ 5	Chloroethane-d5	69	5.394	5.390	(0.548)	111504	128.317	5.1
$ 6	1,1-Dichloroethene-d2	63	6.592	6.601	(0.670)	275748	98.1427	3.9
$ 7	2-Butanone-d5	46	8.594	8.590	(0.873)	156797	1013.63	41
$ 8	Chloroform-d	84	8.965	8.967	(0.911)	355885	126.698	5.1
$ 9	1,2-Dichloroethane-d4	65	9.494	9.497	(0.965)	162366	126.342	5.1
$ 10	Benzene-d6	84	9.518	9.521	(0.771)	518559	132.745	5.3
$ 11	1,2-Dichloropropane-d6	67	10.248	10.245	(0.830)	139025	125.003	5.0
$ 12	Toluene-d8	98	11.142	11.145	(0.903)	503933	129.893	5.2
$ 13	trans-1,3-Dichloropropene-d4	79	11.325	11.322	(0.918)	38766	107.892	4.3
$ 14	2-Hexanone-d5	63	11.611	11.608	(0.941)	127848	1052.24	42
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.253	13.256	(1.074)	76766	119.798	4.8
$ 17	1,2-Dichlorobenzene-d4	152	14.470	14.473	(1.024)	160597	120.382	4.8
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/149518A90.d
Report Date: 03-Sep-2007 11:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.231	7.228	(0.735)	3555	2.61849	0.10(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070824A90.b/149518A90.d
Report Date: 03-Sep-2007 11:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070824A90.b/149518A90.d

Date : 24-AUG-2007 10:41

Client ID: VBLKRT

Instrument: 5973hp90.i

Sample Info: VBLKRT:2481

Purge Volume: 25.0

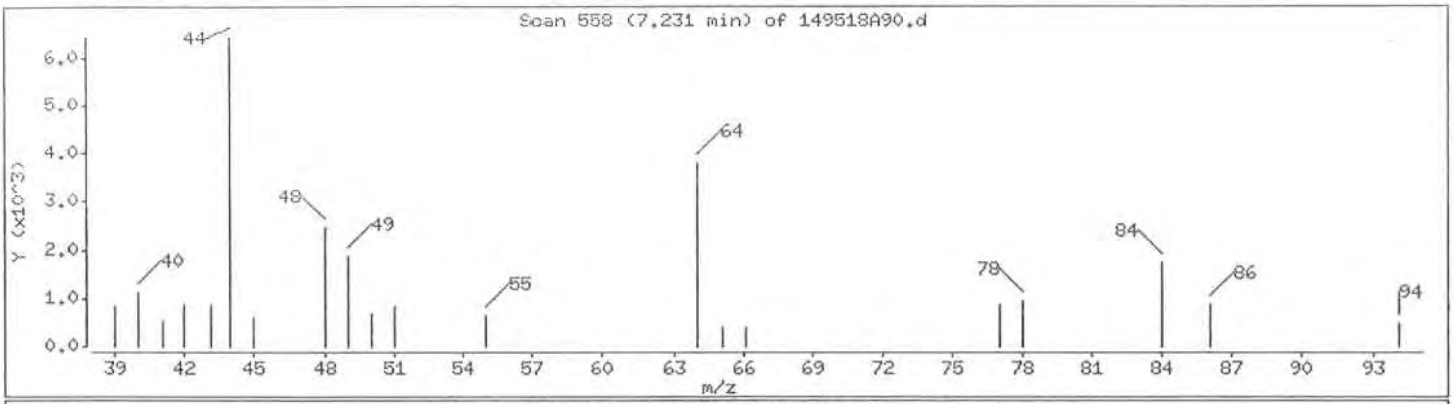
Operator: 2481

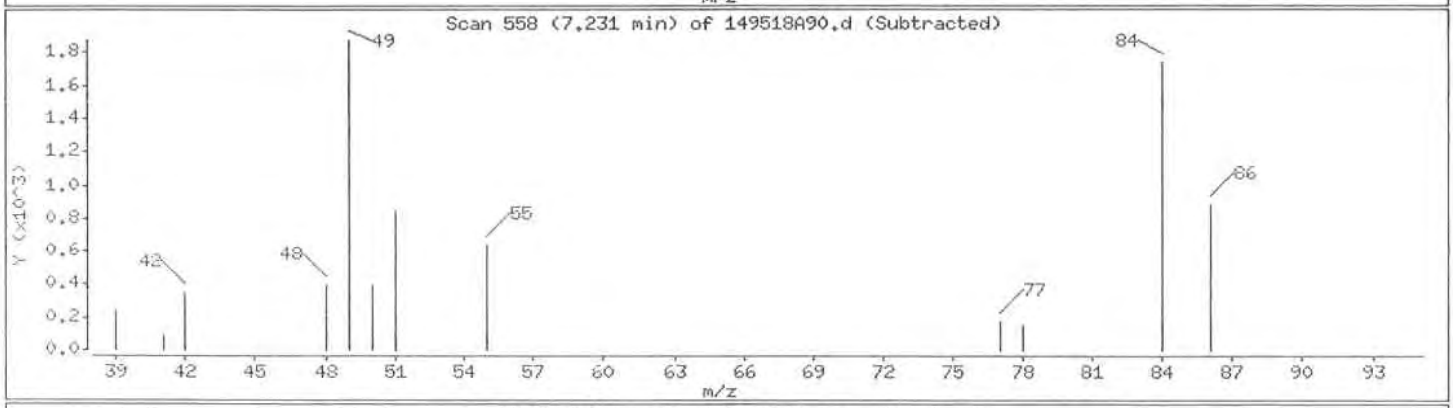
Column phase: SPB-624

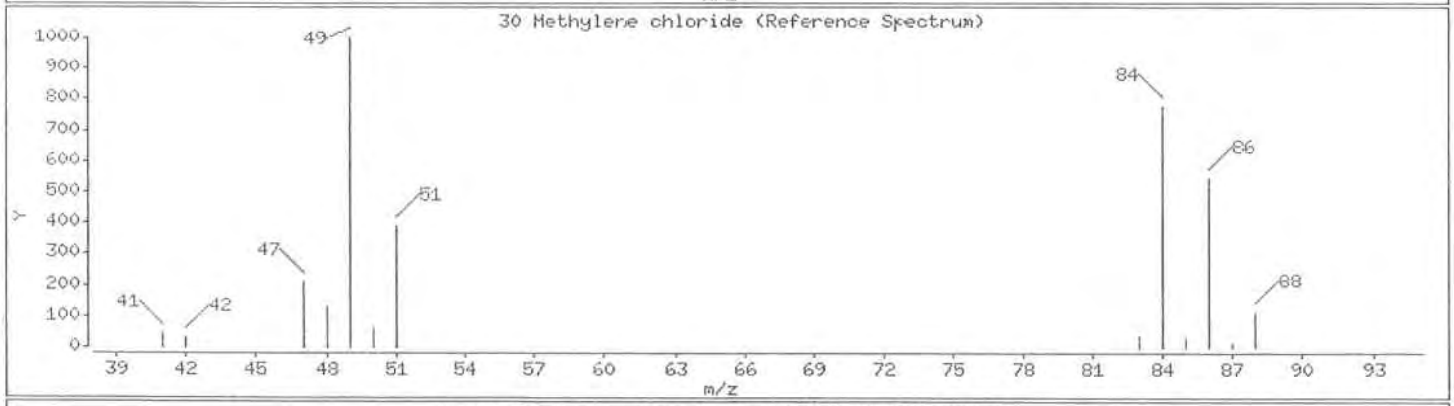
Column diameter: 0.32

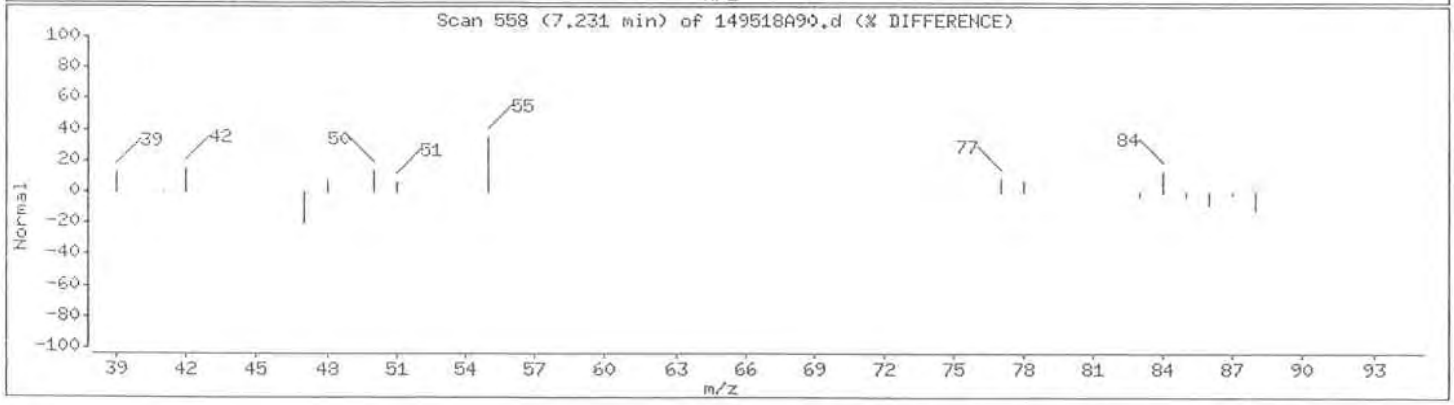
30 Methylene chloride

Concentration: 0.10 ug/L









Data File: /chem/5973hp90.i/DF070824A90.b/149518A90.d
Report Date: 03-Sep-2007 11:01

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/149518A90.d
Lab Smp Id: 149518 Client Smp ID: VBLKRT
Inj Date : 24-AUG-2007 10:41
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VBLKRT:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 10:59 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRV

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149670

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149670A90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	2.9	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.18	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRV

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149670

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149670A90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKRV

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149670

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149670A90

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

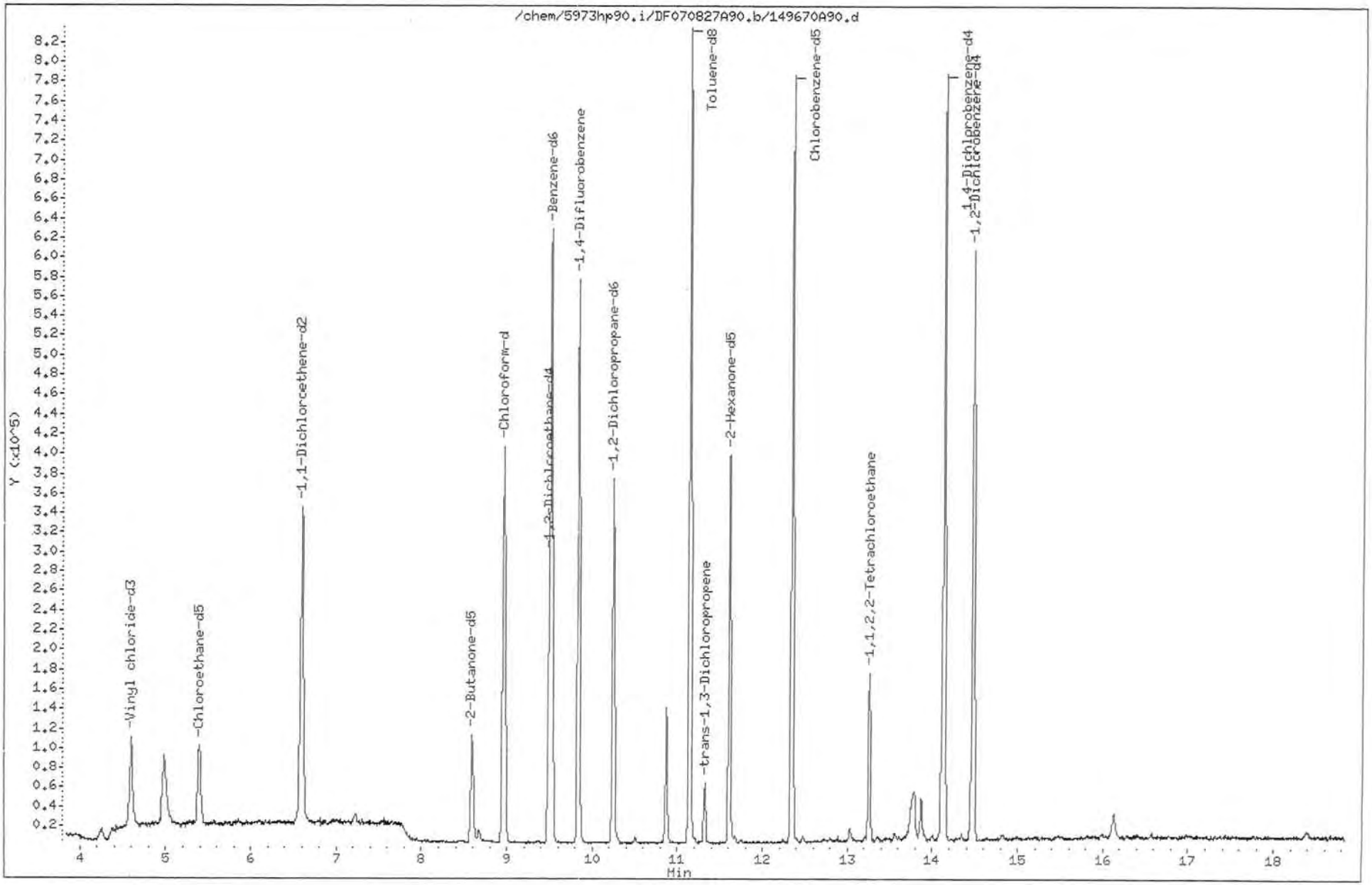
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

ORIGINAL

Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d
Date : 27-AUG-2007 10:54
Client ID: VBLKRV
Sample Info: VBLKRV:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d
Report Date: 03-Sep-2007 12:04

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/149670A90.d
Lab Smp Id: 146970 Client Smp ID: VBLKRV
Inj Date : 27-AUG-2007 10:54
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VBLKRV:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	9.842	9.841	(1.000)	429677	125.000	
* 2 Chlorobenzene-d5	117	12.343	12.347	(1.000)	389716	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.131	14.136	(1.000)	205519	125.000	
$ 4 Vinyl chloride-d3	65	4.598	4.597	(0.467)	137086	126.839	5.1
$ 5 Chloroethane-d5	69	5.389	5.388	(0.548)	116805	128.686	5.1
$ 6 1,1-Dichloroethene-d2	63	6.594	6.598	(0.670)	278433	94.8727	3.8
$ 7 2-Butanone-d5	46	8.589	8.588	(0.873)	147483	912.768	37
$ 8 Chloroform-d	84	8.966	8.965	(0.911)	368789	125.694	5.0
$ 9 1,2-Dichloroethane-d4	65	9.495	9.494	(0.965)	163877	122.080	4.9
$ 10 Benzene-d6	84	9.520	9.518	(0.771)	552895	134.865	5.4
$ 11 1,2-Dichloropropane-d6	67	10.244	10.248	(0.830)	147779	126.612	5.1
$ 12 Toluene-d8	98	11.144	11.143	(0.903)	529113	129.956	5.2
$ 13 trans-1,3-Dichloropropene-d4	79	11.320	11.325	(0.917)	37708	100.002	4.0
$ 14 2-Hexanone-d5	63	11.606	11.611	(0.940)	123096	965.384	39
$ 15 1,1,2,2-Tetrachloroethane-d2	84	13.255	13.260	(1.074)	77922	115.872	4.6
$ 17 1,2-Dichlorobenzene-d4	152	14.472	14.470	(1.024)	168980	121.390	4.9
18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d
Report Date: 03-Sep-2007 12:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	6.648	6.653	(0.675)	6976	72.3337	2.9(a)
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	7.232	7.225	(0.735)	6252	4.40864	0.18(a)
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	Compound Not Detected.					
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	Compound Not Detected.					
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d
Report Date: 03-Sep-2007 12:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d

Date : 27-AUG-2007 10:54

Client ID: VBLKRV

Instrument: 5973hp90.i

Sample Info: VBLKRV:2481

Purge Volume: 25.0

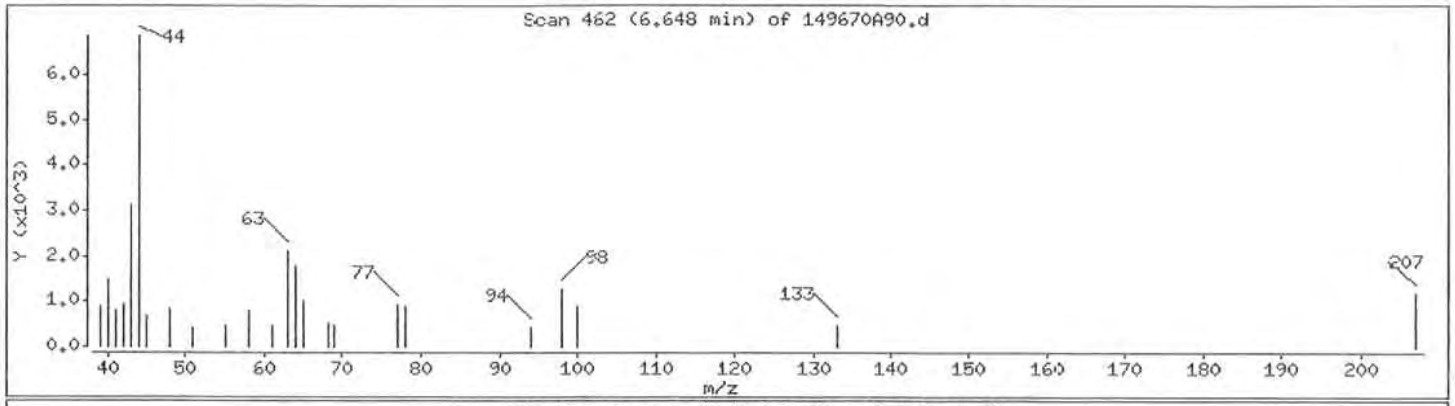
Operator: 2481

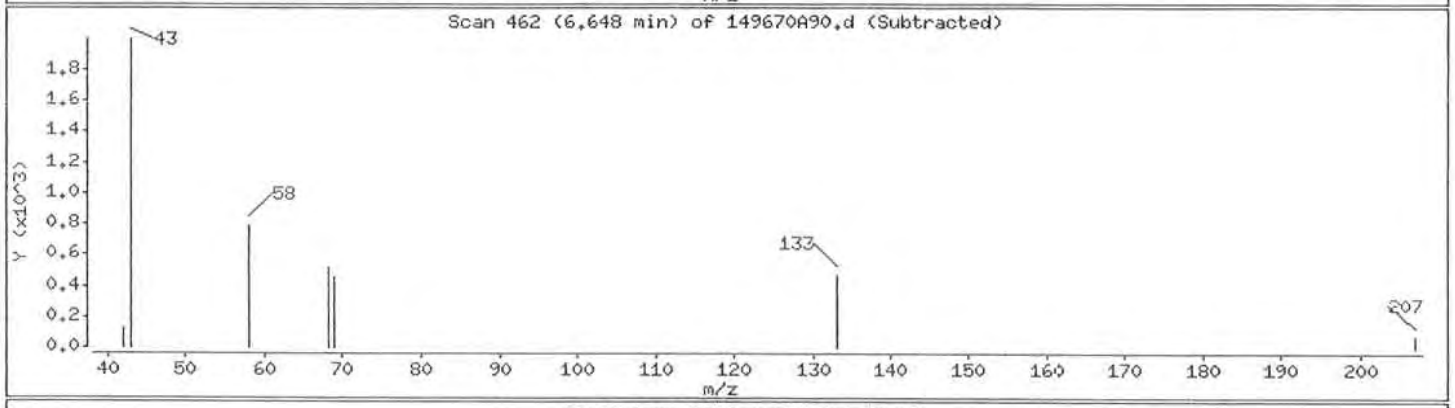
Column phase: SPB-624

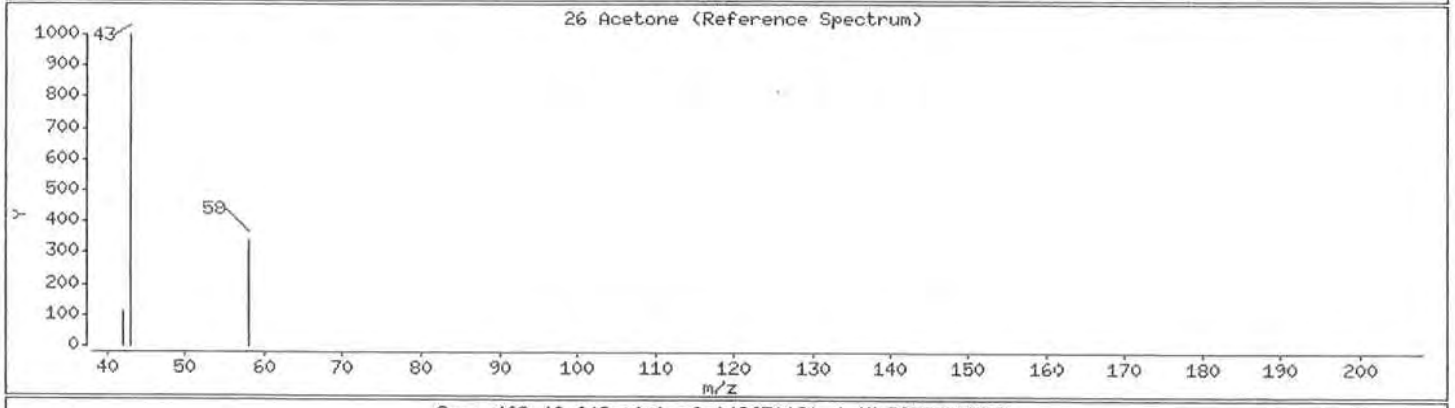
Column diameter: 0.32

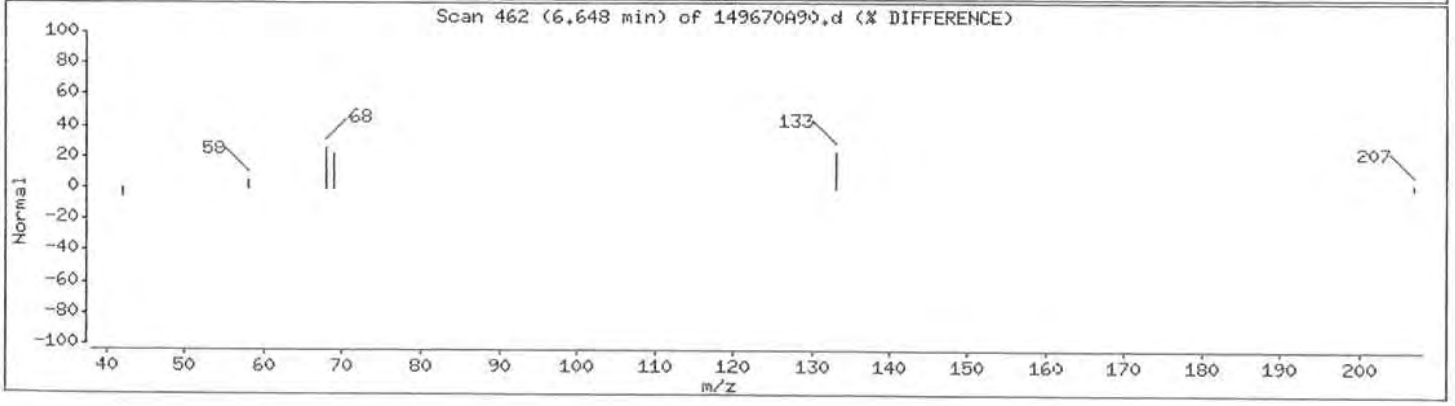
26 Acetone

Concentration: 2.9 ug/L









Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d

Date : 27-AUG-2007 10:54

Client ID: VBLKRV

Instrument: 5973hp90.i

Sample Info: VBLKRV:2481

Purge Volume: 25.0

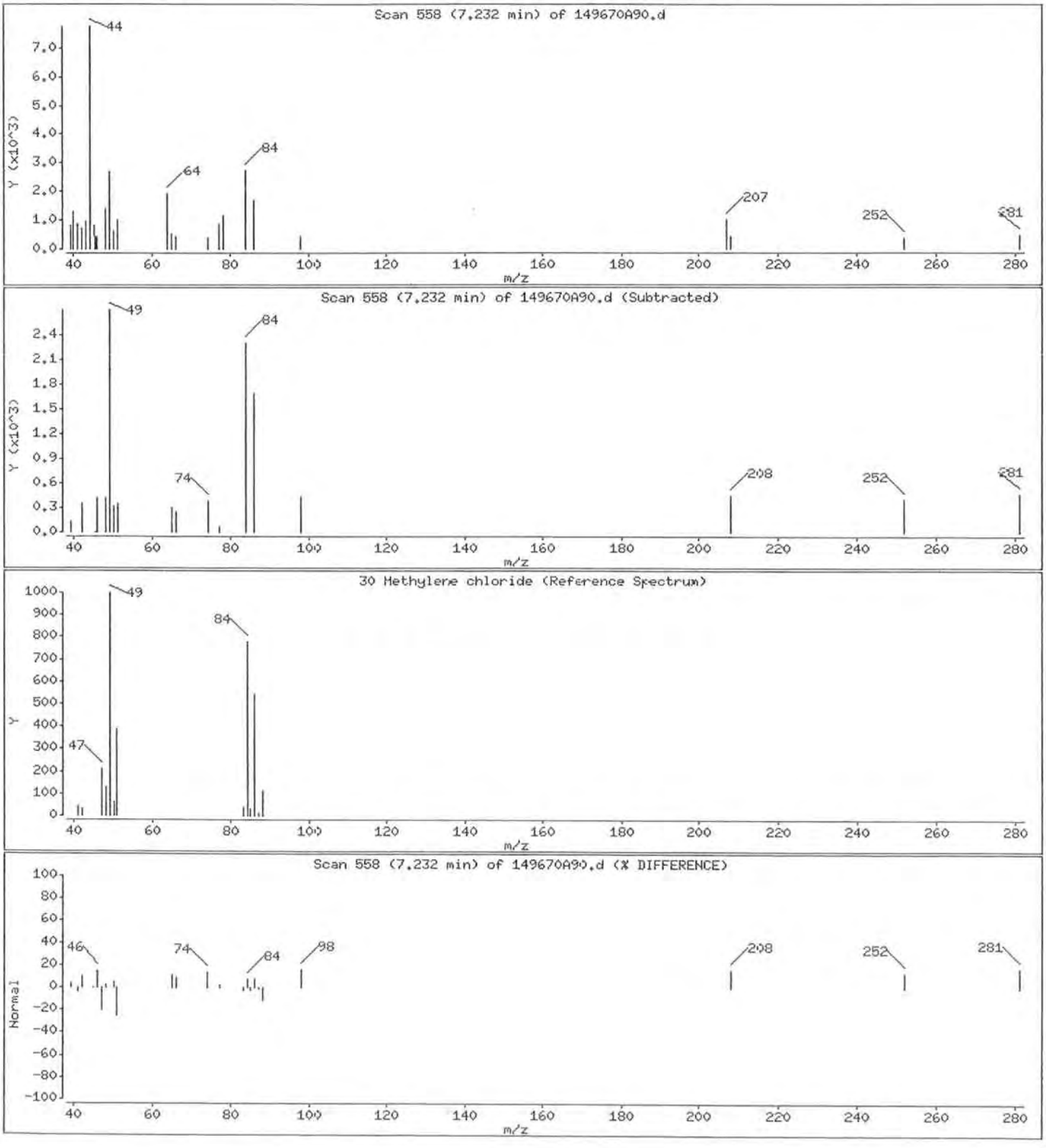
Operator: 2481

Column phase: SPB-624

Column diameter: 0.32

30 Methylene chloride

Concentration: 0.18 ug/L



Data File: /chem/5973hp90.i/DF070827A90.b/149670A90.d
Report Date: 03-Sep-2007 12:04

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/149670A90.d
Lab Smp Id: 146970 Client Smp ID: VBLKRV
Inj Date : 27-AUG-2007 10:54
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : VBLKRV:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:03 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRX

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149929

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149929RA90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/29/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKRX

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149929

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149929RA90

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/29/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKRX

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 149929

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 149929RA90

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 08/29/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	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					
	E966796 [1]	Total Alkanes	N/A		

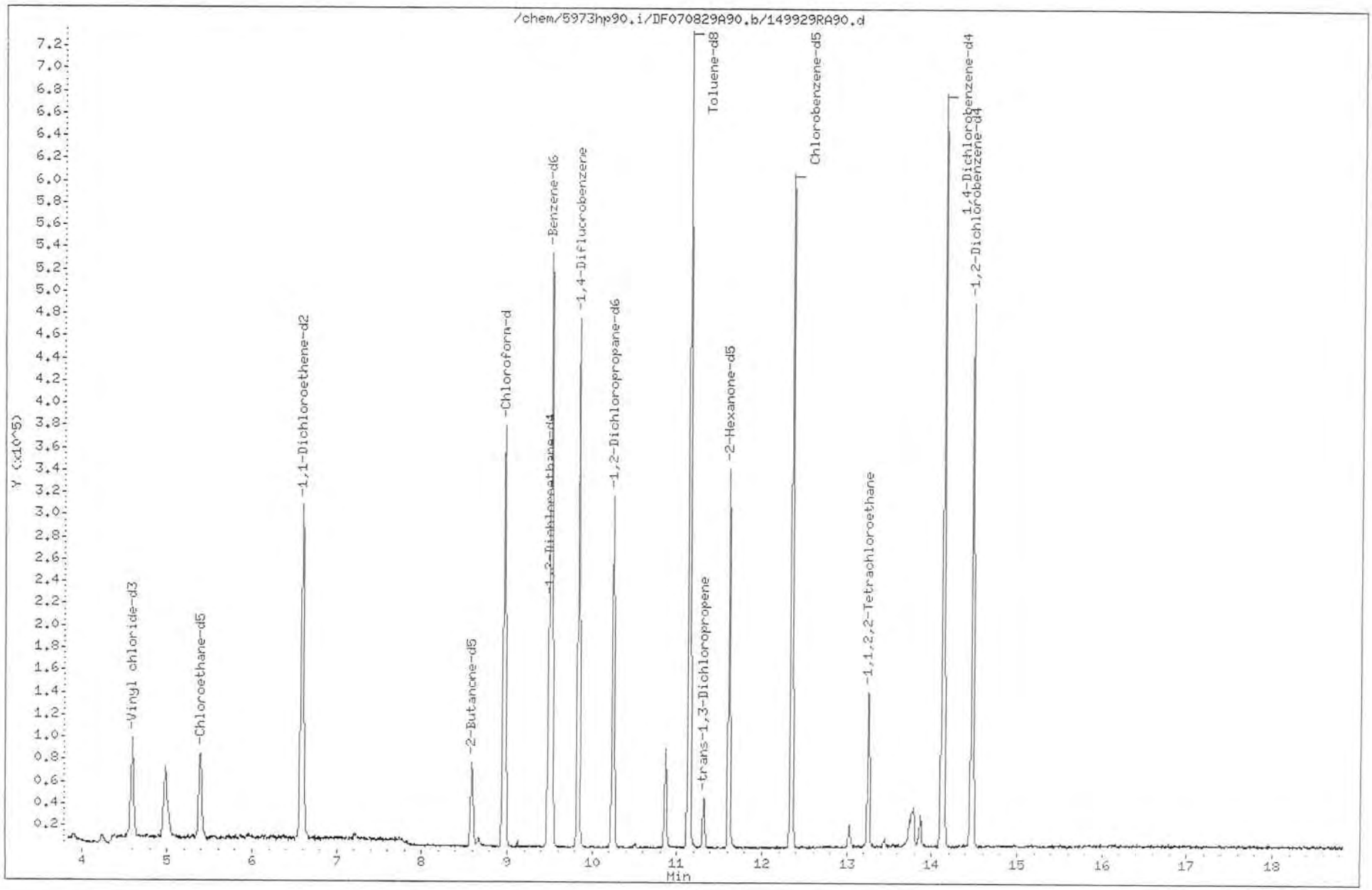
[1] EPA-designated Registry Number.

ORIGINAL

Data File: /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Date : 29-AUG-2007 13:06
Client ID: VBLKRX
Sample Info: 149949:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i

Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Report Date: 03-Sep-2007 12:40

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Lab Smp Id: 149929 Client Smp ID: VBLKRX
Inj Date : 29-AUG-2007 13:06
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 149949:2481
Misc Info : VMS:1448
Comment :
Method : /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:36 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.838	9.841	(1.000)	317343	125.000	
* 2	Chlorobenzene-d5	117	12.339	12.341	(1.000)	300527	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.127	14.136	(1.000)	171749	125.000	
$ 4	Vinyl chloride-d3	65	4.595	4.597	(0.467)	124574	156.063	6.2
$ 5	Chloroethane-d5	69	5.391	5.388	(0.548)	109312	163.061	6.5
$ 6	1,1-Dichloroethene-d2	63	6.590	6.599	(0.670)	257806	118.940	4.8
$ 7	2-Butanone-d5	46	8.585	8.594	(0.873)	99950	837.557	34
$ 8	Chloroform-d	84	8.962	8.965	(0.911)	327380	151.078	6.0
$ 9	1,2-Dichloroethane-d4	65	9.492	9.494	(0.965)	138158	139.353	5.6
$ 10	Benzene-d6	84	9.516	9.519	(0.771)	459032	145.199	5.8
$ 11	1,2-Dichloropropane-d6	67	10.246	10.249	(0.830)	120445	133.818	5.4
$ 12	Toluene-d8	98	11.140	11.143	(0.903)	443458	141.242	5.6
$ 13	trans-1,3-Dichloropropene-d4	79	11.317	11.326	(0.917)	27001	92.8579	3.7
$ 14	2-Hexanone-d5	63	11.609	11.611	(0.941)	92954	945.342	38
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.251	13.260	(1.074)	64211	123.820	5.0
$ 17	1,2-Dichlorobenzene-d4	152	14.468	14.471	(1.024)	136066	116.965	4.7
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Report Date: 03-Sep-2007 12:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	Compound Not Detected.					
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	Compound Not Detected.					
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	Compound Not Detected.					
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	Compound Not Detected.					
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Report Date: 03-Sep-2007 12:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Report Date: 03-Sep-2007 12:40

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070829A90.b/149929RA90.d
Lab Smp Id: 149929 Client Smp ID: VBLKRX
Inj Date : 29-AUG-2007 13:06
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 149949:2481
Misc Info : VMS:1448
Comment :
Method : /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 12:36 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLKYE

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363706

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363706B73

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 09/12/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	2.9	JB
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.44	JB
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLKYE

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363706

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363706B73

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 09/12/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLKYE

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363706

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363706B73

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 09/12/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	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					
	E966796 [1]	Total Alkanes	N/A		

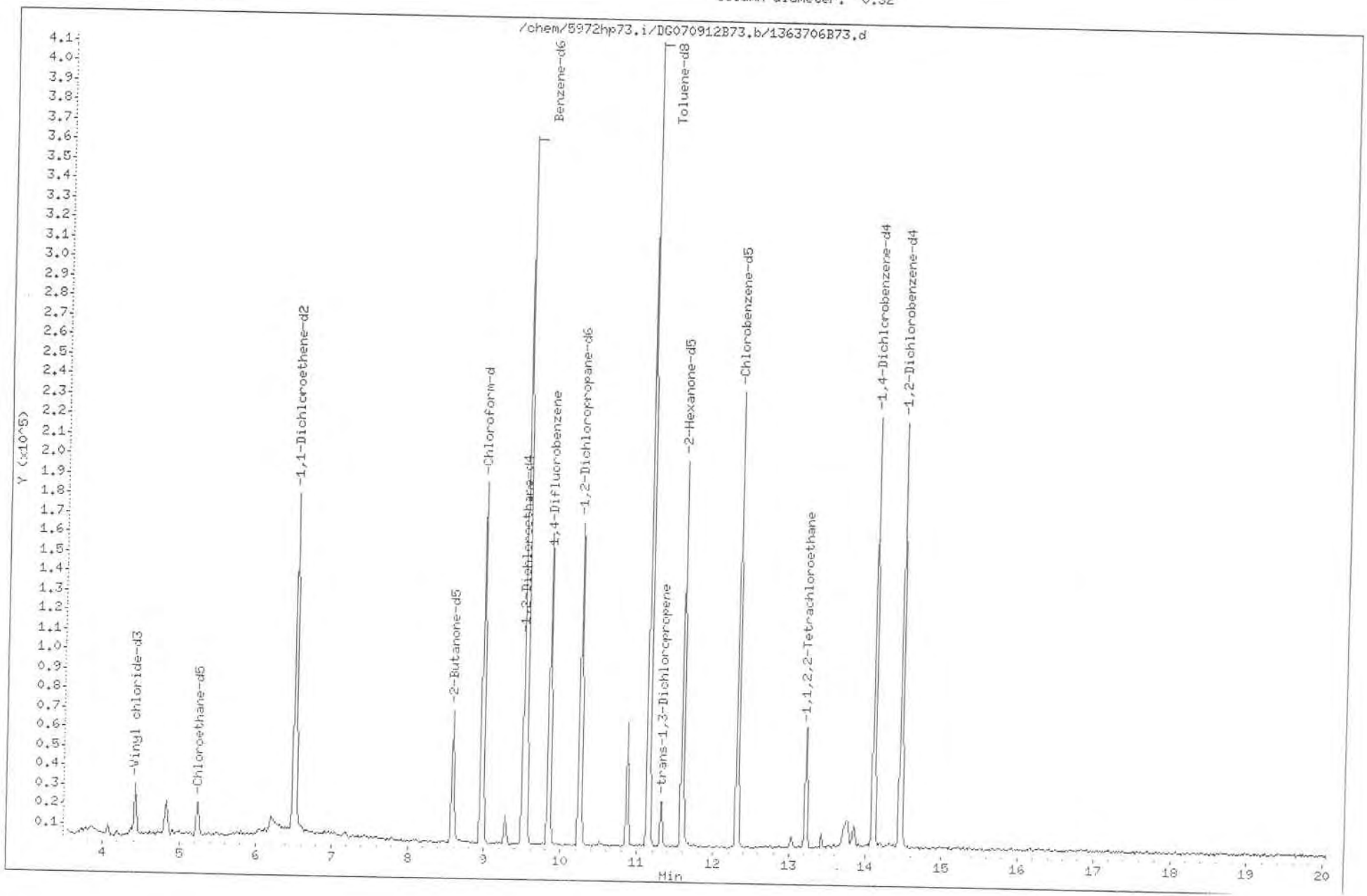
[1] EPA-designated Registry Number.

ORIGINAL

Data File: /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Date : 12-SEP-2007 23:48
Client ID: VHBLKYE
Sample Info: 1363706:2660
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5972hp73.i

Operator: 2660
Column diameter: 0.32



Data File: /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Report Date: 13-Sep-2007 11:44

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Lab Smp Id: 1363706 Client Smp ID: VHBLKYE
Inj Date : 12-SEP-2007 23:48
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : 1363706:2660
Misc Info : VMS:1449
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:36 Cal File: GW070912B73.d
Als bottle: 10 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.860	9.861	(1.000)	160435	125.000	
* 2	Chlorobenzene-d5	117	12.316	12.316	(1.000)	131187	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.109	14.109	(1.000)	57796	125.000	
$ 4	Vinyl chloride-d3	65	4.416	4.428	(0.448)	29279	114.196	4.6
$ 5	Chloroethane-d5	69	5.251	5.247	(0.533)	20880	123.115	4.9
$ 6	1,1-Dichloroethene-d2	63	6.517	6.518	(0.661)	137865	93.7351	3.7
$ 7	2-Butanone-d5	46	8.589	8.590	(0.871)	90972	1144.52	46
$ 8	Chloroform-d	84	8.972	8.973	(0.910)	175842	127.397	5.1
$ 9	1,2-Dichloroethane-d4	65	9.495	9.495	(0.963)	56133	126.261	5.1
$ 10	Benzene-d6	84	9.530	9.530	(0.774)	354042	126.421	5.1
$ 11	1,2-Dichloropropane-d6	67	10.243	10.261	(0.832)	92782	120.082	4.8
$ 12	Toluene-d8	98	11.149	11.149	(0.905)	278573	121.923	4.9
$ 13	trans-1,3-Dichloropropene-d4	79	11.323	11.323	(0.919)	15855	114.304	4.6
$ 14	2-Hexanone-d5	63	11.602	11.602	(0.942)	67757	1064.45	43
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.204	13.221	(1.072)	45697	118.057	4.7
$ 17	1,2-Dichlorobenzene-d4	152	14.457	14.458	(1.025)	68777	116.150	4.6
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Report Date: 13-Sep-2007 11:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19	Chloromethane	50	Compound Not Detected.					
20	Vinyl chloride	62	Compound Not Detected.					
21	Bromomethane	94	Compound Not Detected.					
22	Chloroethane	64	Compound Not Detected.					
23	Trichlorofluoromethane	101	Compound Not Detected.					
24	1,1-Dichloroethene	96	Compound Not Detected.					
25	1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26	Acetone	43	6.587	6.587	(0.668)	4482	72.5131	2.9(a)
27	Carbon disulfide	76	Compound Not Detected.					
28	Methyl acetate	43	Compound Not Detected.					
29	Bromochloromethane	128	Compound Not Detected.					
30	Methylene chloride	84	Compound Not Detected.					
107	tertiary butyl alcohol	59	Compound Not Detected.					
31	trans-1,2-Dichloroethene	96	Compound Not Detected.					
32	Methyl tert-butyl ether	73	Compound Not Detected.					
33	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
35	2-Butanone	43	Compound Not Detected.					
36	Chloroform	83	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	Cyclohexane	56	9.268	9.269	(0.753)	6446	10.9329	0.44(a)
39	Carbon tetrachloride	117	Compound Not Detected.					
40	Benzene	78	Compound Not Detected.					
41	1,2-Dichloroethane	62	Compound Not Detected.					
42	Trichloroethene	95	Compound Not Detected.					
43	Methylcyclohexane	83	Compound Not Detected.					
44	1,2-Dichloropropane	63	Compound Not Detected.					
45	Bromodichloromethane	83	Compound Not Detected.					
46	cis-1,3-Dichloropropene	75	Compound Not Detected.					
47	4-Methyl-2-pentanone	43	Compound Not Detected.					
48	Toluene	91	Compound Not Detected.					
49	trans-1,3-Dichloropropene	75	Compound Not Detected.					
50	1,1,2-Trichloroethane	97	Compound Not Detected.					
51	Tetrachloroethene	164	Compound Not Detected.					
52	2-Hexanone	43	Compound Not Detected.					
53	Dibromochloromethane	129	Compound Not Detected.					
54	1,2-Dibromoethane	107	Compound Not Detected.					
55	Chlorobenzene	112	Compound Not Detected.					
56	Ethylbenzene	91	Compound Not Detected.					
57	m,p-Xylene	106	Compound Not Detected.					
58	o-Xylene	106	Compound Not Detected.					
59	Styrene	104	Compound Not Detected.					
60	Bromoform	173	Compound Not Detected.					
61	Isopropylbenzene	105	Compound Not Detected.					
62	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63	1,3-Dichlorobenzene	146	Compound Not Detected.					
64	1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Report Date: 13-Sep-2007 11:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp73.i/DC070912B73.b/1363706B73.d

Date : 12-SEP-2007 23:48

Client ID: VHBLKYE

Instrument: 5972hp73.i

Sample Info: 1363706:2660

Purge Volume: 25.0

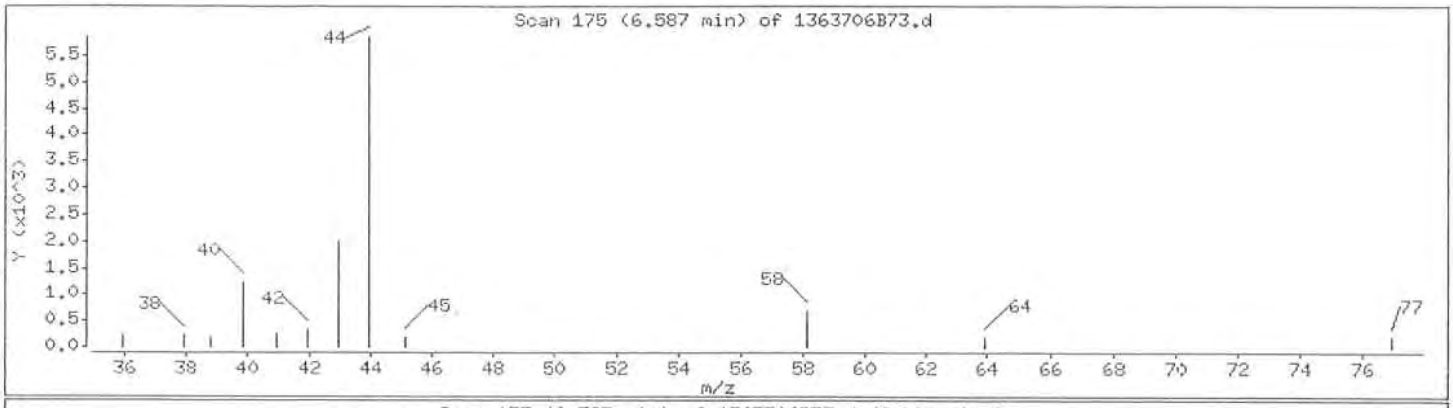
Operator: 2660

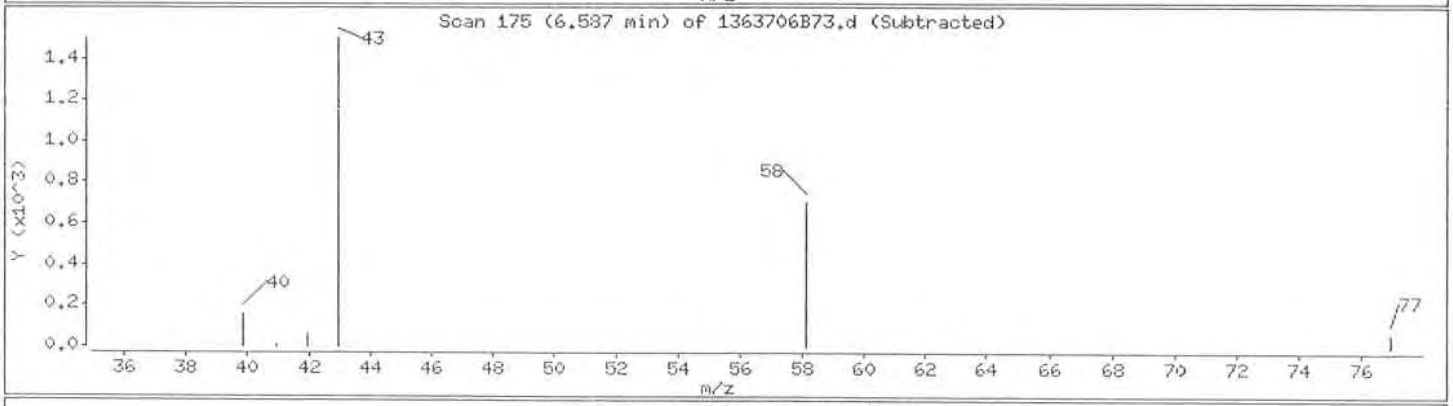
Column phase: SPB-624

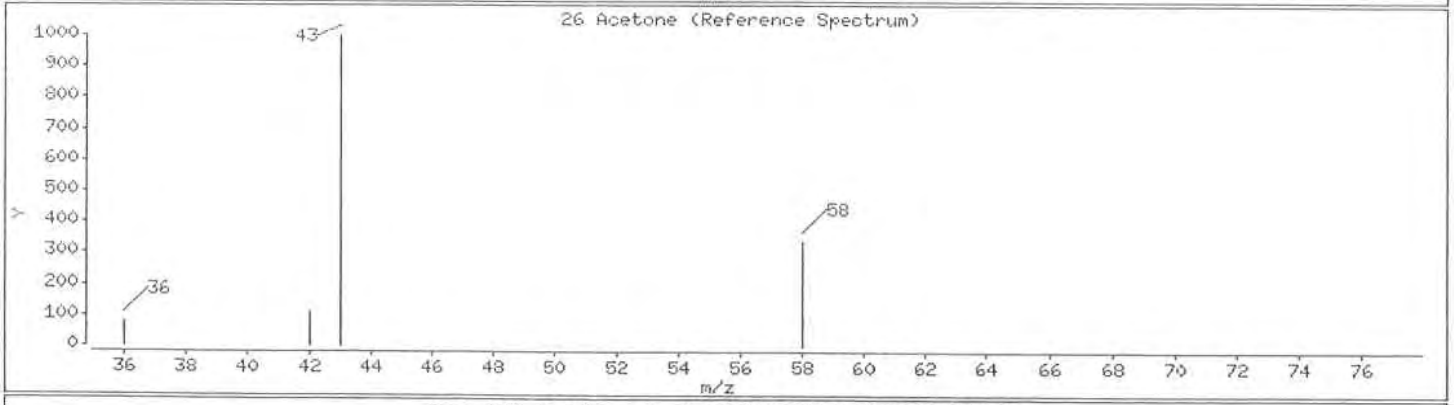
Column diameter: 0.32

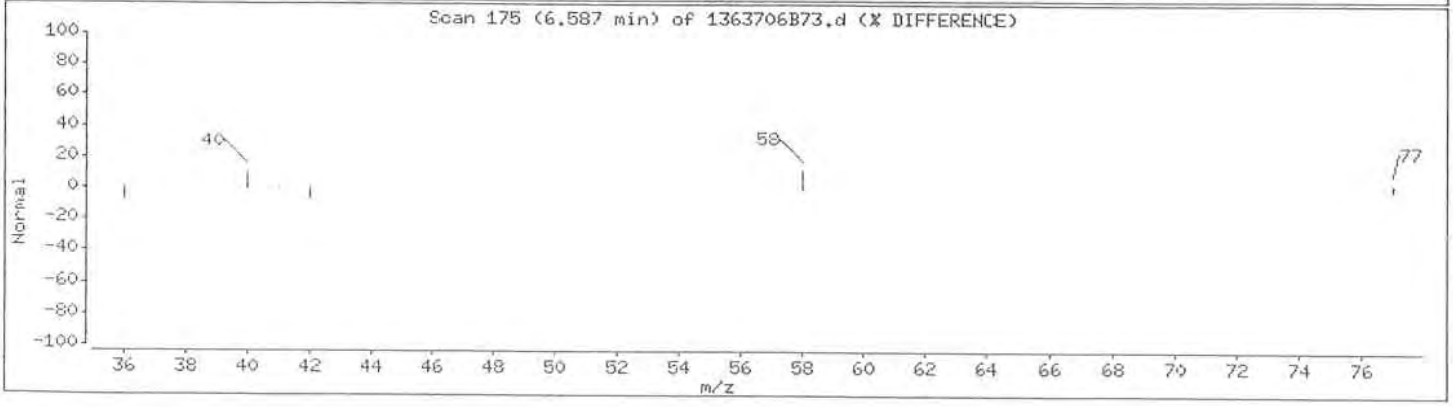
26 Acetone

Concentration: 2.9 ug/L









Data File: /chem/5972hp73.i/DG070912B73.b/1363706B73.d

Date : 12-SEP-2007 23:48

Client ID: VHBLKYE

Instrument: 5972hp73.i

Sample Info: 1363706:2660

Purge Volume: 25.0

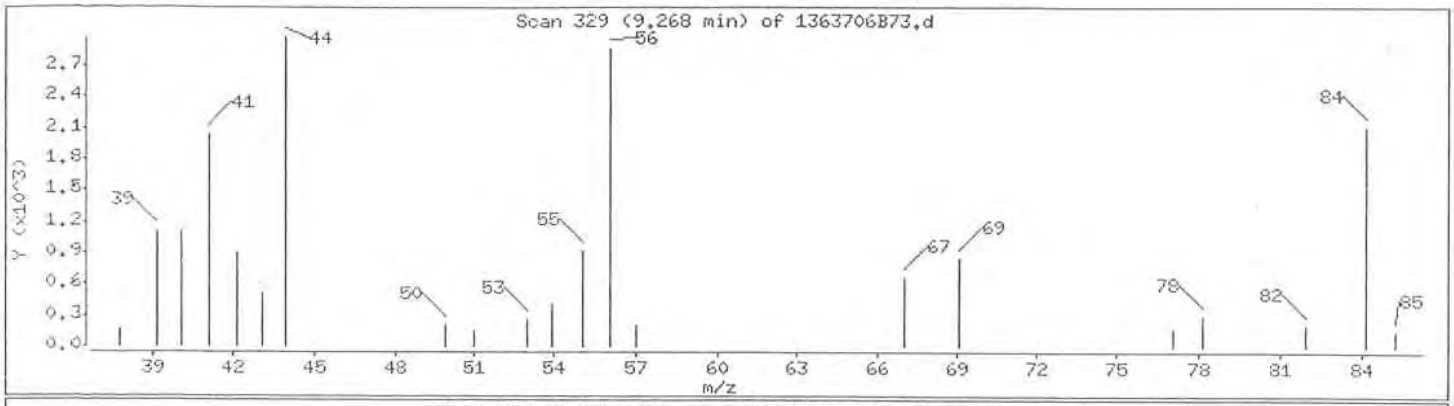
Operator: 2660

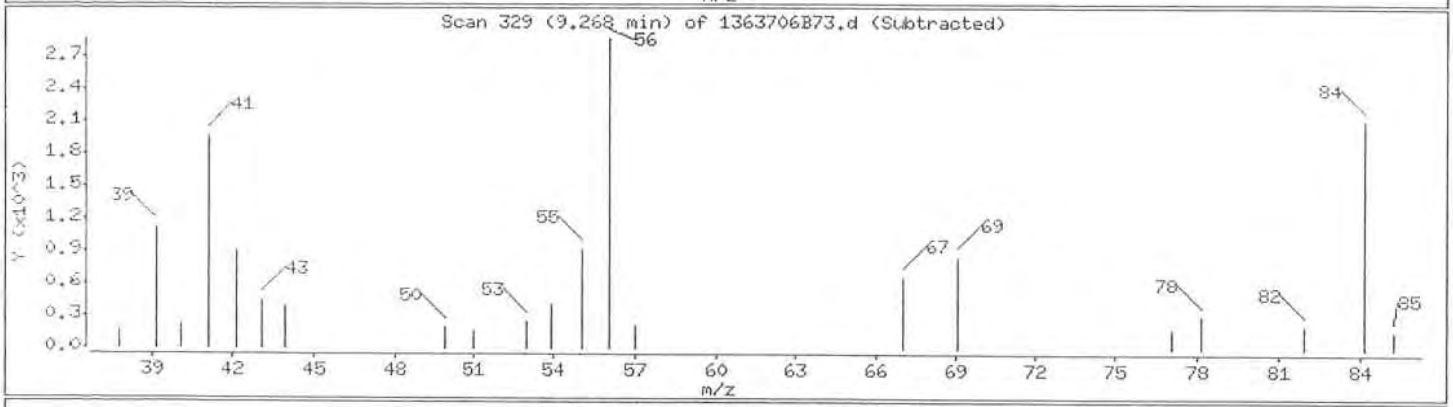
Column phase: SPB-624

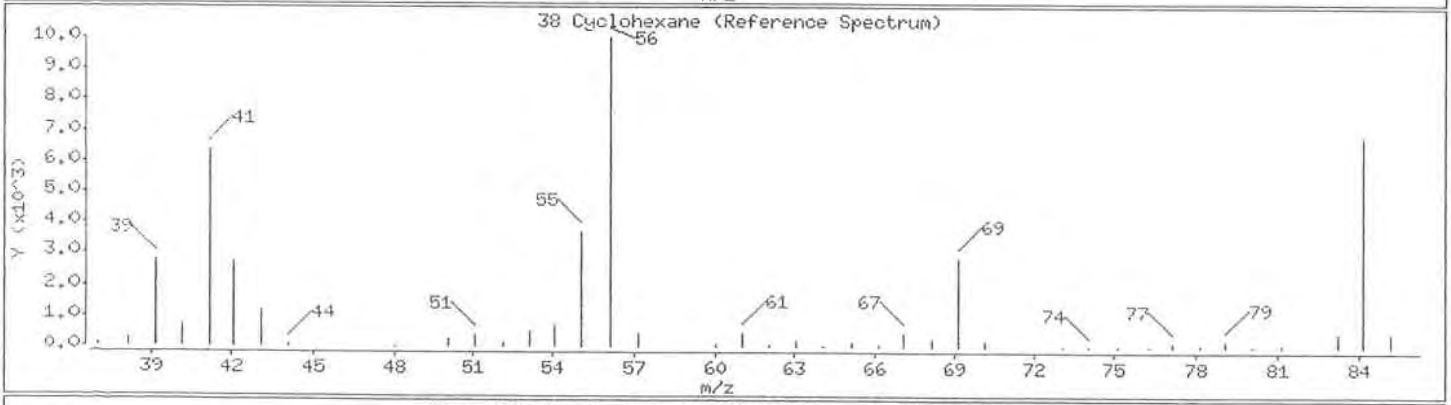
Column diameter: 0.32

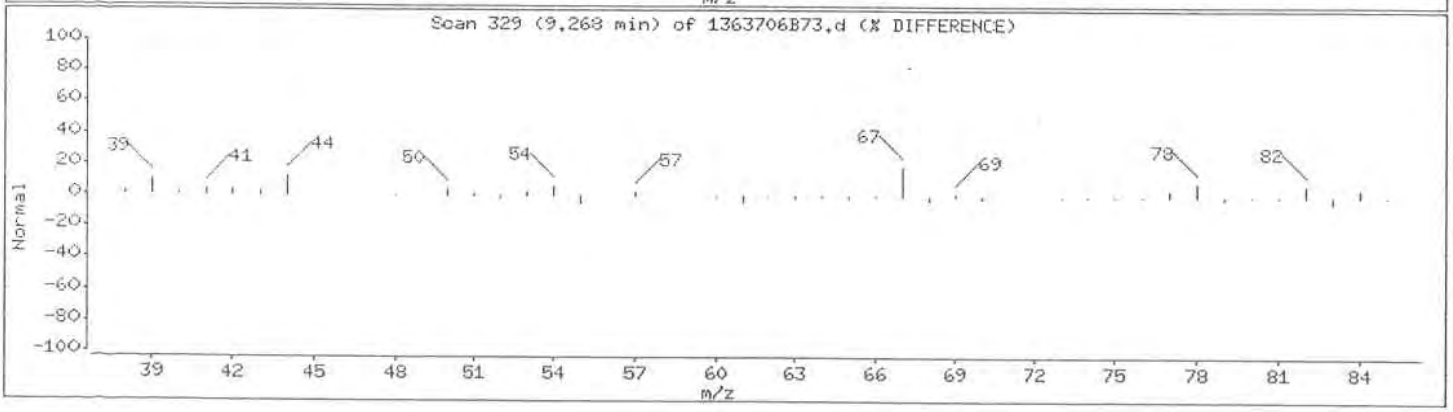
38 Cyclohexane

Concentration: 0.44 ug/L









Data File: /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Report Date: 13-Sep-2007 11:44

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5972hp73.i/DG070912B73.b/1363706B73.d
Lab Smp Id: 1363706 Client Smp ID: VHBLKYE
Inj Date : 12-SEP-2007 23:48
Operator : 2660 Inst ID: 5972hp73.i
Smp Info : 1363706:2660
Misc Info : VMS:1449
Comment :
Method : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Meth Date : 13-Sep-2007 11:22 keng Quant Type: ISTD
Cal Date : 12-SEP-2007 22:36 Cal File: GW070912B73.d
Als bottle: 10 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

c. Matrix Spike Data

- Tabulated Results (Form I, VOA-1, VOA-2)

- Reconstructed Ion Chromatogram and quantitation report

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET2MS

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363709

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363709A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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	4.2	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.13	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	4.9	
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET2MS

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363709

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363709A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

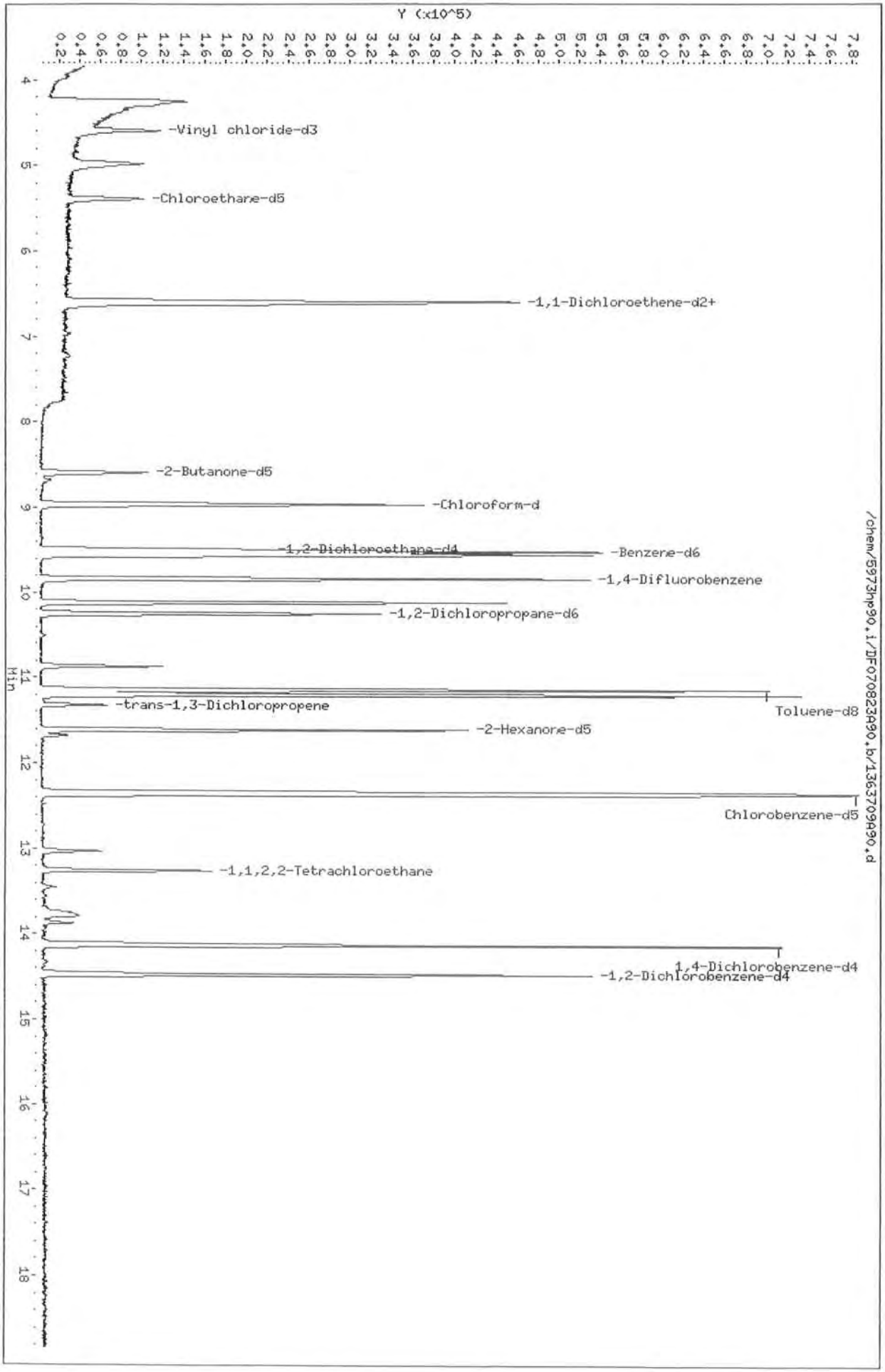
% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	4.8	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.1	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.23	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.0	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U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Date : 23-AUG-2007 17:44
Client ID: Y3ET2HS
Sample Info: 1363709;2481
Purge Volume: 25.0
Column phase: SPB-624
Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32
Y (x10^5)
-Vinyl chloride-d3
-Chloroethane-d5
-1,1-Dichloroethene-d2+
-2-Butanone-d5
-Chloroform-d
-1,2-Dichloroethane-d4
-Benzene-d6
-1,4-Difluorobenzene
-1,2-Dichloropropane-d6
-trans-1,3-Dichloropropene
Toluene-d8
-2-Hexanone-d5
Chlorobenzene-d5
-1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
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Min

Data File: /chem/5973hp90.i/DF070823A90.b/1363709A90.d
Report Date: 03-Sep-2007 10:12

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363709A90.d
Lab Smp Id: 1363709 Client Smp ID: Y3ET2MS
Inj Date : 23-AUG-2007 17:44
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363709:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Difluorobenzene	114	9.839	9.841	(1.000)	362317	125.000	
*	2 Chlorobenzene-d5	117	12.345	12.341	(1.000)	338101	125.000	
*	3 1,4-Dichlorobenzene-d4	152	14.134	14.130	(1.000)	177441	125.000	
$	4 Vinyl chloride-d3	65	4.601	4.597	(0.468)	116527	127.861	5.1
$	5 Chloroethane-d5	69	5.392	5.388	(0.548)	101929	133.174	5.3
$	6 1,1-Dichloroethene-d2	63	6.596	6.599	(0.670)	312598	126.316	5.1
$	7 2-Butanone-d5	46	8.592	8.588	(0.873)	144961	1063.95	43
$	8 Chloroform-d	84	8.963	8.965	(0.911)	323292	130.672	5.2
$	9 1,2-Dichloroethane-d4	65	9.492	9.494	(0.965)	150647	133.089	5.3
$	10 Benzene-d6	84	9.522	9.519	(0.771)	458668	128.960	5.2
$	11 1,2-Dichloropropane-d6	67	10.246	10.249	(0.830)	129015	127.410	5.1
$	12 Toluene-d8	98	11.147	11.143	(0.903)	444838	125.936	5.0
$	13 trans-1,3-Dichloropropene-d4	79	11.323	11.325	(0.917)	35719	109.188	4.4
$	14 2-Hexanone-d5	63	11.609	11.611	(0.940)	122708	1109.25	44
$	15 1,1,2,2-Tetrachloroethane-d2	84	13.258	13.260	(1.074)	72538	124.332	5.0
$	17 1,2-Dichlorobenzene-d4	152	14.474	14.471	(1.024)	140623	117.004	4.7
	18 Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363709A90.d
Report Date: 03-Sep-2007 10:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	6.614	6.617	(0.672)	142643	103.900	4.2
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.229	7.225	(0.735)	3965	3.31575	0.13(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	9.559	9.561	(0.774)	447201	121.619	4.9
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	10.119	10.121	(0.820)	146149	120.826	4.8
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	11.201	11.204	(0.907)	517856	126.549	5.1
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	11.682	11.678	(0.946)	5390	5.81595	0.23(a)
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	12.369	12.366	(1.002)	326599	126.043	5.0
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363709A90.d
Report Date: 03-Sep-2007 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
65	1,2-Dichlorobenzene	146	Compound Not Detected.					
66	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I, VOA-1, VOA-2)

- Reconstructed Ion Chromatogram and quantitation report

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET2MSD

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363710

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363710A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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	4.5	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	2.2	J
75-15-0	Carbon disulfide	0.25	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.12	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	5.0	
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ET2MSD

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363710

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363710A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/22/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

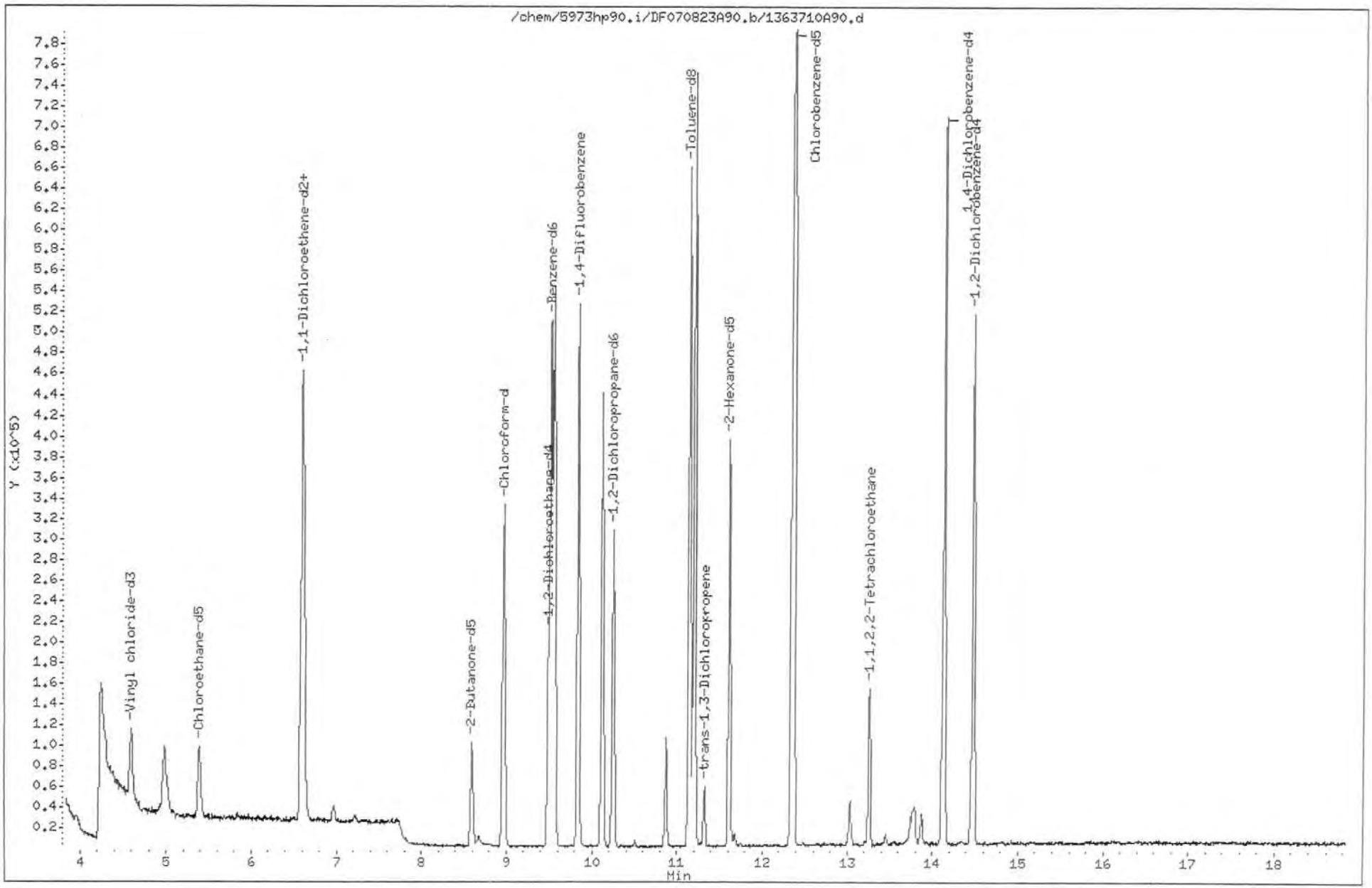
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	4.9	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.1	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U
75-65-0	tertiary butyl alcohol	5.0	U

Data File: /chem/5973hp90.i/DF070823A90.b/1363710A90.d
Date : 23-AUG-2007 18:13
Client ID: Y3ET2MSD
Sample Info: 1363710:2481
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5973hp90.i
Operator: 2481
Column diameter: 0.32



Data File: /chem/5973hp90.i/DF070823A90.b/1363710A90.d
Report Date: 03-Sep-2007 10:13

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070823A90.b/1363710A90.d
Lab Smp Id: 1363710 Client Smp ID: Y3ET2MSD
Inj Date : 23-AUG-2007 18:13
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363710:2481
Misc Info : VMS:1445
Comment :
Method : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 03-Sep-2007 09:42 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 16 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Difluorobenzene	114	9.839	9.841	(1.000)	351876	125.000	
* 2	Chlorobenzene-d5	117	12.345	12.341	(1.000)	336875	125.000	
* 3	1,4-Dichlorobenzene-d4	152	14.134	14.130	(1.000)	177184	125.000	
$ 4	Vinyl chloride-d3	65	4.601	4.597	(0.468)	106009	119.771	4.8
$ 5	Chloroethane-d5	69	5.392	5.388	(0.548)	94403	127.001	5.1
$ 6	1,1-Dichloroethene-d2	63	6.597	6.599	(0.670)	303989	126.483	5.1
$ 7	2-Butanone-d5	46	8.592	8.588	(0.873)	133841	1011.49	40
$ 8	Chloroform-d	84	8.963	8.965	(0.911)	301417	125.446	5.0
$ 9	1,2-Dichloroethane-d4	65	9.492	9.494	(0.965)	139936	127.295	5.1
$ 10	Benzene-d6	84	9.523	9.519	(0.771)	431535	121.773	4.9
$ 11	1,2-Dichloropropane-d6	67	10.247	10.249	(0.830)	120525	119.459	4.8
$ 12	Toluene-d8	98	11.141	11.143	(0.902)	418012	118.772	4.8
$ 13	trans-1,3-Dichloropropene-d4	79	11.323	11.325	(0.917)	33053	101.406	4.1
$ 14	2-Hexanone-d5	63	11.609	11.611	(0.940)	112935	1024.62	41
$ 15	1,1,2,2-Tetrachloroethane-d2	84	13.258	13.260	(1.074)	67933	116.863	4.7
$ 17	1,2-Dichlorobenzene-d4	152	14.475	14.471	(1.024)	135716	113.085	4.5
18	Dichlorodifluoromethane	85	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363710A90.d
Report Date: 03-Sep-2007 10:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	6.615	6.617	(0.672)	149241	111.931	4.5
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	6.651	6.653	(0.676)	4389	55.5715	2.2(a)
27 Carbon disulfide	76	6.974	6.970	(0.709)	27472	6.34805	0.25(a)
28 Methyl acetate	43	Compound Not Detected.					
29 Bromochloromethane	128	Compound Not Detected.					
30 Methylene chloride	84	7.223	7.225	(0.734)	3350	2.88458	0.12(a)
107 tertiary butyl alcohol	59	Compound Not Detected.					
31 trans-1,2-Dichloroethene	96	Compound Not Detected.					
32 Methyl tert-butyl ether	73	Compound Not Detected.					
33 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-Butanone	43	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	9.559	9.561	(0.774)	457750	124.941	5.0
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 Trichloroethene	95	10.119	10.121	(0.820)	147526	122.409	4.9
43 Methylcyclohexane	83	Compound Not Detected.					
44 1,2-Dichloropropane	63	Compound Not Detected.					
45 Bromodichloromethane	83	Compound Not Detected.					
46 cis-1,3-Dichloropropene	75	Compound Not Detected.					
47 4-Methyl-2-pentanone	43	Compound Not Detected.					
48 Toluene	91	11.202	11.204	(0.907)	527487	129.372	5.2
49 trans-1,3-Dichloropropene	75	Compound Not Detected.					
50 1,1,2-Trichloroethane	97	Compound Not Detected.					
51 Tetrachloroethene	164	Compound Not Detected.					
52 2-Hexanone	43	Compound Not Detected.					
53 Dibromochloromethane	129	Compound Not Detected.					
54 1,2-Dibromoethane	107	Compound Not Detected.					
55 Chlorobenzene	112	12.370	12.366	(1.002)	332292	128.707	5.1
56 Ethylbenzene	91	Compound Not Detected.					
57 m,p-Xylene	106	Compound Not Detected.					
58 o-Xylene	106	Compound Not Detected.					
59 Styrene	104	Compound Not Detected.					
60 Bromoform	173	Compound Not Detected.					
61 Isopropylbenzene	105	Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
63 1,3-Dichlorobenzene	146	Compound Not Detected.					
64 1,4-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/5973hp90.i/DF070823A90.b/1363710A90.d
Report Date: 03-Sep-2007 10:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
65 1,2-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
67 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
68 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Non-Reportables

COMPUCHEM a division of Liberty Analytical Corp DATE 9/12/07 INITIAL TIME OF TUNE 1911 SHIFT/S(A)____ (B) X (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 711 LINKER /METHOD SOM T.

COMPUCHEM LOGBOOK 11 ZZZ 21 (5972hp73)

PREVENTIVE MAINTENANCE None VXX1448 VMS 1449 UNSR136,

	FILE NAME	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION	
1	BG070912B73	—	—	9/12/07	1911	BFB UT	—	2ul	—	2660	LCD = SCD	150449
2	GS	—	—	/ /	2037	VSTD 0.5UT	—	25mL	—			150451
3	GT	—	—	/ /	2107	001 UT	—					150452
4	GU	—	—	/ /	2137	020 UT	—				ICAL PASSES	150453
5	GV	—	—	/ /	2206	010 UT	—					150454
6	GW	—	—	/ /	2236	005UT	—					150453
7	150443	—	—	/ /	2311	V BLK UT	VARIOUS					
8	~~13404021~~ 13603705 B73	1	2	/ /	2348	VHBLK ~~XL~~ YE						
9	GZ070912B73	—	—	9/13/07	023	VSTD 005 UT	—					150456
10	GA070912B73	—	—	/ /	053	VSTD 005UU	—					
11				/ /								
12				/ /								
13				/ /								
14				/ /								
15				/ /								
16				/ /								
17				/ /								
18				/ /								
19				/ /								
20				/ /								
21				/ /								
22				/ /								
23				/ /								
24				/ /								

SUPERVISOR APPROVAL [signature] Date 9/13/07

*On-column sample aliquot
+Not applicable to soil matrix

Tune (ID #7008) Lot No. 65295

Calibration Group Code / Lot No. SO 49

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/28/07: VR

COMPUCHEM a division of Liberty Analytical Corp DATE 8/23/07 INITIAL TIME OF TUNE 1128 SHIFT/S(A) X (B) ____ (C) ____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2328 LINKER /METHOD SOMT

COMPUCHEM LOGBOOK 11 N(4) 6 (5973hp90) VXX, 444 13961 flex

PREVENTIVE MAINTENANCE Tune LMS1445 LMSR 1357

	FILE NAME	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION	
1	BF010823A90	—	—	8/23/07	1128	BFB RR		2ul	—	2481	LCD-SCD	14991
2	GS010823A90	—	—	/ /	1151	VSTD001RR		25ml				14991
3	GT			/ /	1220	VSTD015RR						14991
4	GU			/ /	1249	VSTD020RR					Ical passes	14992
5	GV			/ /	1317	VSTD010 RR					+TBA	14993
6	GW			/ /	1346	VSTD005 RR						14991
7	149330A90	—	—	/ /	1415	VBLK RR	Various	25ml				
8	1363701	1	2	/ / 1451	~~1451~~ 1523	3E S6	13637		1			
9	02	1	2	/ /	1520	S7						
10	03	1	2	/ /	1549	S8						
11	04	1	2	/ /	1617	S9						
12	05	1	2	/ / 1646	~~1715~~ 8/24/07	T0						
13	08	1	1	/ /	1715	T2						
14	09	1	2	/ /	1744	T2MS						
15	10	1	3	/ /	1813	T2MSD						
16	11	1	1	/ /	1841	T3						
17	12	1	1	/ /	1910	T4						
18	13	1	1	/ /	1939	T5						
19	1363706A90	1	1	/ /	2008	VHBLK	13637	25ml	1	2481	Sample Dembins	
20	GZ010823A90	—	—	/ /	2037	VSTD005RS	—		—			14991
21	GA010823A90	—	—	/ /	2105	VSTD005RS	—		—			
22				/ /							[signature]	
23				/ /							8/24/07	
24				/ /								

SUPERVISOR APPROVAL [signature] Date 8/24/07

*On-column sample aliquot
+Not applicable to soil matrix

Tune (ID #7008) Lot No. 65295

Calibration Group Code / Lot No. 8049

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

05/10/07: vr

COMPUCHEM a division of Liberty Analytical Corp DATE 8/24/07 INITIAL TIME OF TUNE 0934 SHIFT/S(A) K (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2134 LINKER /METHOD Soil T

COMPUCHEM LOGBOOK 11 N(4) 6 (5973hp90) VXX1445

PREVENTIVE MAINTENANCE None VMS144E VMSA1338

	REFERENCED	FILE NAME	ANALYZED	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		BFB70824A90	/	—	—	8/24/07	934	BFBORT	—	2.0	—	248	LCD 1.5 CO
2		GSB70824A90	/	—	—	/ /	1004	VSTD005RT	—	25ml	—		
3		144158A90	/	—	—	/ /	1041	VBLKRT	Various	25ml	—		
4		136314A90	/	1	1	/ /	1126	VBE T6	136037		1		
5		15	/	1		/ /	1155	T7					
6	/	16	BATCH	1		/ /	1224	T8					TCEW 604ng
7	/	17		1		/ /	1252	T9					TCEW 538ng
8	/	18		1		/ /	1321	W0					
9		19		1	v	/ /	1350	W1					
10	/	V06		1	2	/ /	1419	VBLK 4E	—				Sample Shorted 0.2 ml
11		TBAMDL01A90		—	—	/ /	1447	TBAMDL01	MDL	25ml	1		
12		02				/ /	1516	TBAMDL02					
13		03				/ /	1545	03					
14		04				/ /	1614	04					
15		05				/ /	1642	05					
16		06				/ /	1711	06					
17		07				/ /	1740	07					
18		V08		v	v	/ /	1808	08					
19		GZB70824A90		—	—	/ /	1837	VSTD005RU	—	25ml	—	248	
20		GA07824A90		—	—	/ /	1906	VSTD005RU	—		—		
21						/ /							
22						/ /							
23						/ /							8/27/07
24						/ /							

SUPERVISOR APPROVAL _____ Date 8/27/07

Tune (ID #7008) Lot No. 65295

Calibration Group Code / Lot No. SOL9

*On-column sample aliquot
+Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

COMPUCHEM a division of Liberty Analytical Corp DATE 8/27/7

GC/MS VOLATILE RUN LOG

COMPUCHEM LOGBOOK 11 N(4) 6 (5973hp90)

INITIAL TIME OF TUNE 948

TIME TUNE EXPIRES 2148

SHIFT/S(A) X (B)____ (C)____

LINKER /METHOD Som TBA B9t

PREVENTIVE MAINTENANCE None

VXX 1446

VMS 1447

VMSR 1359

	REJECTED	FILE NAME	REPORTED	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION	
1		BF070827A90	/	–	–	8/27/7	948	BFB RV	–	2.0	–	2481	LCD-SCD	14993
2		GS070827A90	/	–	–	/ /	1016	VSTD005RV	–	25ml	/			14993
3		149670A90	/	–	–	/ /	1054	VBLK RV	Varian	25ml	–			
4		13637160	/	1	2	/ /	1139	Y3ET8	13637	10ml	2.5			
5		17P	/	1	2	/ /	1208	T9			2.5			
6		18R	/	1	2	/ /	1237	W0		25ml	1			
7		06R	/	1	2	/ /	1306	VHBLK YE			1			
8		GZ070827A90	/	–	–	/ /	1436	VSTD005RW	–	25ml	–			14998
9	/	GA070827A90	♀	–	–	/ /	–	VSTD005RW	–	25ml	–		NOT NEEDED	
10						/ /								
11						/ /								
12						/ /								
13						/ /								
14						/ /								
15						/ /								
16						/ /								
17						/ /								
18						/ /								
19						/ /								
20						/ /								
21						/ /								
22						/ /						8/27/7		
23						/ /								
24						/ /								

SUPERVISOR APPROVAL [signature]

Date 8/27/7

*On-column sample aliquot

+Not applicable to soil matrix

Tune (ID #7008) Lot No. 65295

Calibration Group Code / Lot No. S049

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

05/10/07: vr

COMPUCHEM a division of Liberty Analytical Corp DATE 8/29/17 INITIAL TIME OF TUNE 1044 SHIFT/S(A) X (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 2244 LINKER /METHOD SGMT

COMPUCHEM LOGBOOK 11 N(4) 6 (5973hp90)

PREVENTIVE MAINTENANCE None VXX 1447 VMS 1448 VMSR 1360

	REJECTED	FILE NAME	REPORTED	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		BF070829A90	/	–	–	8/29/17	1044	BFBRX	–	2ul	–	2481	LCDOSCP
2		GS070829A90	/	–	–	/ /	1115	VSTD005RX	–	25ml	–		
3	/	149949A90	/	≤	–	/ /	1155	VBLKRX	Various	25ml	–		
4	/	1363720A90	R	–	–	/ /	–	–	–	–	–		NOT Run
5		149949RA90	/	–	–	/ /	1306	VBLKRX	Various	25ml	–		149949
6		1363720A90	/	1–	1	/ /	1409	YBET1	13637	25ml	1		
7		1363706R8A90	≤	1	2	/ /	1438	VHBLKYE	Various	25ml			
8		1363706R2A90	≤	1	1,2	/ /	1521	VHBLKYE	↓	↓			
9		1353002A90	≤	1	2	/ /	1613	VHBLKXC	Various	25ml			
10		G2070829A90	/	–	–	/ /	1653	VSTD005RX	–	25ml	–		
11		GA070829A90	/	–	–	/ /	1772	VSTD005RY	–	↓	–		
12						/ /							
13						/ /							
14						/ /							
15						/ /							
16						/ /							
17						/ /							
18						/ /							
19						/ /							
20						/ /							
21						/ /							
22						/ /							
23						/ /							
24						/ /							

8/30/17

SUPERVISOR APPROVAL [signature] Date 8/30/17

*On-column sample aliquot
+Not applicable to soil matrix

Tune (ID #7008) Lot No. 65295

Calibration Group Code / Lot No. S049

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

05/10/07: vr

CompuChem, a Division of Liberty Analytical

INTERNAL CHAIN OF CUSTODY

Laboratory: Volatiles Matrix:

Request Date: Batch

Comments:

CCN	Receipt	Analysis Param	Container	Preservative	Bottle

Relinquished By:	Received By:	Date/Time	Reason
#4		8/23 90°	
	#4	8/23 140°	
#4		8/24 90°	
	#4	8/24 143°	
#4		8/27 900	
	#4	8/27 130°	

8-9-3-07

Exception Report

SDG# 13637 **Date:** 9-3-07

Client Services Representative: _____

Sample ID#	Comments	Initial/Date
VBLK [illegible]		@ 9.3.07

Tics deleted

4.981

13.790

Cis-1,3-dichloropropene and bromoform are possible contaminants from surrogates.

Exception Report

SDG# 13637 **Date:** 4-3-07

Client Services Representative: _____

Sample ID#	Comments	Initial/Date
VBLK A		04-3-07

Tics deleted

4.056 - sulfur dioxide
4.984 -
13.789 -

Cis-1,3-dichloropropene and bromoform are possible contaminants from surrogates.

Exception Report

SDG#_____ **Date:**_____

Client Services Representative:_____

Sample ID#	Comments	Initial/Date
VBLK	RL	
Tics deleted		
4.983		
13.784		

Cis-1,3-dichloropropene and bromoform are possible contaminants from surrogates.

Exception Report

SDG# 13637 **Date:** 9-3-07

Client Services Representative: _____

Sample ID#	Comments	Initial/Date
VBLK		09-3-7
Tics deleted		
4.978		
13.787		

Cis-1,3-dichloropropene and bromoform are possible contaminants from surrogates.

Exception Report

SDG# V3556 **Date:** 9-13-07

Client Services Representative: _____

Sample ID#	Comments	Initial/Date
VBLK		9-13-07
Tics deleted		
4.825		
13.761		

Cis-1,3-dichloropropene and bromoform are possible contaminants from surrogates.

Blank Interference Test Results for Y3ES6

Blank Test Performed on: Thu Sep 13 22:07:50 2007

Sample	Blank	Interferences Targets	TICs
Y3ET2MS	VBLKRR	1	0
Y3ET2MSD	VBLKRR	1	0
Y3ES6	VBLKRR	1	0
Y3ES7	VBLKRR	1	0
Y3ES8	VBLKRR	1	0
Y3ES9	VBLKRR	1	0
Y3ET0	VBLKRR	1	0
Y3ET2	VBLKRR	1	0
Y3ET3	VBLKRR	1	0
Y3ET4	VBLKRR	0	0
Y3ET5	VBLKRR	1	0
Y3ET6	VBLKRT	1	0
Y3ET7	VBLKRT	1	0
Y3EW1	VBLKRT	1	0
Y3ET8	VBLKRV	2	0
Y3ET9	VBLKRV	1	0
Y3EW0	VBLKRV	1	0
Y3ET1	VBLKRX	0	0
VHBLKYE	VBLKUT	2	0

Case Audit Clerical Summary Report

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 SAS No.: 1391.1 SDG No.: Y3ES6

CCN	Client ID	Date Sampled	Date Rec'd	Date Analyzed	pH	%M
149330	VBLKRR			08/23/07		
149518	VBLKRT			08/24/07		
149670	VBLKRV			08/27/07		
149929	VBLKRX			08/29/07		
150443	VBLKUT			09/12/07		
1363701	Y3ES6	08/20/07	08/21/07	08/23/07		
1363702	Y3ES7	08/20/07	08/21/07	08/23/07		
1363703	Y3ES8	08/20/07	08/21/07	08/23/07		
1363704	Y3ES9	08/20/07	08/21/07	08/23/07		
1363705	Y3ET0	08/20/07	08/21/07	08/23/07		
1363720	Y3ET1	08/21/07	08/22/07	08/29/07		
1363708	Y3ET2	08/21/07	08/22/07	08/23/07		
1363709	Y3ET2MS	08/21/07	08/22/07	08/23/07		
1363710	Y3ET2MSD	08/21/07	08/22/07	08/23/07		
1363711	Y3ET3	08/21/07	08/22/07	08/23/07		
1363712	Y3ET4	08/21/07	08/22/07	08/23/07		
1363713	Y3ET5	08/21/07	08/22/07	08/23/07		
1363714	Y3ET6	08/22/07	08/23/07	08/24/07		
1363715	Y3ET7	08/22/07	08/23/07	08/24/07		
1363716	Y3ET8	08/22/07	08/23/07	08/27/07		
1363717	Y3ET9	08/22/07	08/23/07	08/27/07		
1363718	Y3EW0	08/22/07	08/23/07	08/27/07		
1363719	Y3EW1	08/22/07	08/23/07	08/24/07		

08/22/07 — 08/28/07 ? Check with Bob/ Cathy

WATER.LOW VOA Compound Summary Report

Case No.: 36678 SDG No.: Y3ES6

	V	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	V	Y	Y	Y	V	Y	Y	Y	V	Y
	B	3	3	3	3	3	3	3	3	3	3	3	B	3	3	3	B	3	3	3	B	3
	L	E	E	E	E	E	E	E	E	E	E	E	L	E	E	E	L	E	E	E	L	E
	K	S	S	S	S	T	T	T	T	T	T	T	K	T	T	W	K	T	T	W	K	T
	R	6	7	8	9	0	2	2	2	3	4	5	R	6	7	1	R	8	9	0	R	1
	R							M	M				T				V				X	
								S	S													
									D													
24 1,1-Dichloroethene								+	+													
26 Acetone			J		J	J			J	J		+				+	J	JB				
27 Carbondisulfide			+	J	+	J	J		J					J	J							
30 Methylenechloride	J	JB	JB	JB	JB	JB	JB	JB	JB	JB		JB	J	JB	JB	JB	J	JB	JB	JB		
34 cis-1,2-Dichloroethene															J			+	+	J		
36 Chloroform				J																J		
40 Benzene			J		J			+	+													
42 Trichloroethene				J				+	+					+	+			+	+	+		
48 Toluene			J		J	J		+	+			J										
51 Tetrachloroethene			J				J	J										J	J			J
55 Chlorobenzene								+	+													

Case Audit Extraction Summary Report

Case No.: 36678 SAS No.: 1391.1 SDG No.: Y3ES6

CCN	Client ID	Matrix	Extract Method	Date Extracted	Sample Vol/Wt	Final Vol. Aliquot V.	Surr Vol	Spike Vol	GPC Y/N
149330	VBLKRR	WATER LOW	PURGE		25		10		N
149518	VBLKRT	WATER LOW	PURGE		25		10		N
149670	VBLKRV	WATER LOW	PURGE		25		10		N
149929	VBLKRX	WATER LOW	PURGE		25		10		N
150443	VBLKUT	WATER LOW	PURGE		25		10		N
1363701	Y3ES6	WATER LOW	PURGE		25		10		N
1363702	Y3ES7	WATER LOW	PURGE		25		10		N
1363703	Y3ES8	WATER LOW	PURGE		25		10		N
1363704	Y3ES9	WATER LOW	PURGE		25		10		N
1363705	Y3ET0	WATER LOW	PURGE		25		10		N
1363720	Y3ET1	WATER LOW	PURGE		25		10		N
1363708	Y3ET2	WATER LOW	PURGE		25		10		N
1363709	Y3ET2MS	WATER LOW	PURGE		25		10	5	N
1363710	Y3ET2MSD	WATER LOW	PURGE		25		10	5	N
1363711	Y3ET3	WATER LOW	PURGE		25		10		N
1363712	Y3ET4	WATER LOW	PURGE		25		10		N
1363713	Y3ET5	WATER LOW	PURGE		25		10		N
1363714	Y3ET6	WATER LOW	PURGE		25		10		N
1363715	Y3ET7	WATER LOW	PURGE		25		10		N
1363716	Y3ET8	WATER LOW	PURGE		25		10		N
1363717	Y3ET9	WATER LOW	PURGE		25		10		N
1363718	Y3EW0	WATER LOW	PURGE		25		10		N
1363719	Y3EW1	WATER LOW	PURGE		25		10		N

Case Audit RunLog Summary Report Case No.: 36678 SDG No.: Y3ES6

CCN	Client ID	Date Time Analyzed	Dil Factor	Data Filename	Tune Filename	Stnd Filename	Blank
149330	VBLKRR	08/23/07 1415	1.0	149330A90.D	DF070823A90	GZ070823A90	149330
1363701	Y3ES6	08/23/07 1451	1.0	1363701A90.	"	"	"
1363702	Y3ES7	08/23/07 1520	1.0	1363702A90.	"	"	"
1363703	Y3ES8	08/23/07 1549	1.0	1363703A90.	"	"	"
1363704	Y3ES9	08/23/07 1617	1.0	1363704A90.	"	"	"
1363705	Y3ET0	08/23/07 1646	1.0	1363705A90.	"	"	"
1363708	Y3ET2	08/23/07 1715	1.0	1363708A90.	"	"	"
1363709	Y3ET2MS	08/23/07 1744	1.0	1363709A90.	"	"	"
1363710	Y3ET2MSD	08/23/07 1813	1.0	1363710A90.	"	"	"
1363711	Y3ET3	08/23/07 1841	1.0	1363711A90.	"	"	"
1363712	Y3ET4	08/23/07 1910	1.0	1363712A90.	"	"	"
1363713	Y3ET5	08/23/07 1939	1.0	1363713A90.	"	"	"
149518	VBLKRT	08/24/07 1041	1.0	149518A90.D	DF070824A90	GS070824A90	149518
1363714	Y3ET6	08/24/07 1126	1.0	1363714A90.	"	"	"
1363715	Y3ET7	08/24/07 1155	1.0	1363715A90.	"	"	"
1363719	Y3EW1	08/24/07 1350	1.0	1363719A90.	"	"	"
149670	VBLKRV	08/27/07 1054	1.0	149670A90.D	DF070827A90	GZ070827A90	149670
1363716	Y3ET8 S	08/27/07 1139	S 2.5	1363716DA90	"	"	"
1363717	Y3ET9 S	08/27/07 1208	S 2.5	1363717DA90	"	"	"
1363718	Y3EW0	08/27/07 1237	1.0	1363718RA90	"	"	"
149929	VBLKRX	08/29/07 1306	1.0	149929RA90.	DF070829A90	GS070829A90	149929
1363720	Y3ET1	08/29/07 1409	1.0	1363720A90.	"	"	"
150443	VBLKUT	09/12/07 2311	1.0	150443B73.D	DG070912B73	GZ070912B73	150443

The sample file is /chem/5973hp90.i/DF070823A90.b/GS070823A90.d

5LCA

LOW CONCENTRATION WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Client No.: 1391.1 SDG No.: Y3ES6

producing the BFB1 Lab File ID: BF070823A90 BFB Injection Date

Instrument ID: 5973HP90 BFB Injection Time: 1128

GC Column: SPB-624 ID: 0.32(MM) Column Length: 60.0

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	55.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120.0% of mass 95	81.1
175	5.0 - 9.0% of mass 174	5.9 (7.3)1
176	95.0 - 101.0% of mass 174	78.0 (96.2)1
177	5.0 - 9.0% of mass 176	5.5 (7.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001RR	VSTD001RR	GS070823A90	08/23/2007	1151

The sample file is /chem/5973hp90.i/DF070823A90.b/GT070823A90.d

02	VSTD0.5RR	VSTD0.5RR	GT070823A90	08/23/2007	1220

The sample file is /chem/5973hp90.i/DF070823A90.b/GU070823A90.d

03	VSTD020RR	VSTD020RR	GU070823A90	08/23/2007	1249

The sample file is /chem/5973hp90.i/DF070823A90.b/GV070823A90.d

04	VSTD010RR	VSTD010RR	GV070823A90	08/23/2007	1317

The sample file is /chem/5973hp90.i/DF070823A90.b/GW070823A90.d

05	VSTD005RR	VSTD005RR	GW070823A90	08/23/2007	1346

The sample file is /chem/5973hp90.i/DF070823A90.b/149330A90.d

06	VBLKRR	149330	149330A90	08/23/2007	1415

The sample file is /chem/5973hp90.i/DF070823A90.b/1363701A90.d

07	Y3ES6	1363701	1363701A90	08/23/2007	1451

The sample file is /chem/5973hp90.i/DF070823A90.b/1363702A90.d

08	Y3ES7	1363702	1363702A90	08/23/2007	1520

The sample file is /chem/5973hp90.i/DF070823A90.b/1363703A90.d

09	Y3ES8	1363703	1363703A90	08/23/2007	1549

The sample file is /chem/5973hp90.i/DF070823A90.b/1363704A90.d

10	Y3ES9	1363704	1363704A90	08/23/2007	1617

The sample file is /chem/5973hp90.i/DF070823A90.b/1363705A90.d

11	Y3ET0	1363705	1363705A90	08/23/2007	1646

The sample file is /chem/5973hp90.i/DF070823A90.b/1363708A90.d

12	Y3ET2	1363708	1363708A90	08/23/2007	1715

The sample file is /chem/5973hp90.i/DF070823A90.b/1363709A90.d

13	Y3ET2MS	1363709	1363709A90	08/23/2007	1744

The sample file is /chem/5973hp90.i/DF070823A90.b/1363710A90.d

14	Y3ET2MSD	1363710	1363710A90	08/23/2007	1813

The sample file is /chem/5973hp90.i/DF070823A90.b/1363711A90.d

15	Y3ET3	1363711	1363711A90	08/23/2007	1841

The sample file is /chem/5973hp90.i/DF070823A90.b/1363712A90.d

16	Y3ET4	1363712	1363712A90	08/23/2007	1910

The sample file is /chem/5973hp90.i/DF070823A90.b/1363713A90.d

17	Y3ET5	1363713	1363713A90	08/23/2007	1939

The sample file is /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d

18	VSTD005RS	VSTD005RS	GZ070823A90	08/23/2007	2037
19					
20					
21					
22					

The sample file is /chem/5973hp90.i/DF070824A90.b/GS070824A90.d

5LCA

LOW CONCENTRATION WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Client No.: 1391.1 SDG No.: Y3ES6

producing the BFB1 Lab File ID: BF070824A90 BFB Injection Date

Instrument ID: 5973HP90 BFB Injection Time: 0934

GC Column: SPB-624 ID: 0.32(MM) Column Length: 60.0

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 80.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	95.0 - 101.0% of mass 174	78.5 (97.5)1
177	5.0 - 9.0% of mass 176	5.2 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005RT	VSTD005RT	GS070824A90	08/24/2007	1004

The sample file is /chem/5973hp90.i/DF070824A90.b/149518A90.d

02	VBLKRT	149518	149518A90	08/24/2007	1041

The sample file is /chem/5973hp90.i/DF070824A90.b/1363714A90.d

03	Y3ET6	1363714	1363714A90	08/24/2007	1126

The sample file is /chem/5973hp90.i/DF070824A90.b/1363715A90.d

04	Y3ET7	1363715	1363715A90	08/24/2007	1155

The sample file is /chem/5973hp90.i/DF070824A90.b/1363719A90.d

05	Y3EW1	1363719	1363719A90	08/24/2007	1350

The sample file is /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d

06	VSTD005RU	VSTD005RU	GZ070824A90	08/24/2007	1837
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

The sample file is /chem/5973hp90.i/DF070827A90.b/GS070827A90.d

5LCA

LOW CONCENTRATION WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Client No.: 1391.1 SDG No.: Y3ES6

producing the BFB1 Lab File ID: BF070827A90 BFB Injection Date

Instrument ID: 5973HP90 BFB Injection Time: 0948

GC Column: SPB-624 ID: 0.32(MM) Column Length: 60.0

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 80.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	84.2
175	5.0 - 9.0% of mass 174	6.1 (7.3)1
176	95.0 - 101.0% of mass 174	82.8 (98.3)1
177	5.0 - 9.0% of mass 176	5.6 (6.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005RV	VSTD005RV	GS070827A90	08/27/2007	1016

The sample file is /chem/5973hp90.i/DF070827A90.b/149670A90.d

02	VBLKRV	149670	149670A90	08/27/2007	1054

The sample file is /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

03	Y3ET8	1363716	1363716DA90	08/27/2007	1139

The sample file is /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

04	Y3ET9	1363717	1363717DA90	08/27/2007	1208

The sample file is /chem/5973hp90.i/DF070827A90.b/1363718RA90.d

05	Y3EW0	1363718	1363718RA90	08/27/2007	1237

The sample file is /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d

06	VSTD005RW	VSTD005RW	GZ070827A90	08/27/2007	1436
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

The sample file is /chem/5973hp90.i/DF070829A90.b/GS070829A90.d

5LCA

LOW CONCENTRATION WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Client No.: 1391.1 SDG No.: Y3ES6

producing the BFB1 Lab File ID: BF070829A90 BFB Injection Date

Instrument ID: 5973HP90 BFB Injection Time: 1044

GC Column: SPB-624 ID: 0.32(MM) Column Length: 60.0

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120.0% of mass 95	79.7
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	95.0 - 101.0% of mass 174	77.5 (97.2)1
177	5.0 - 9.0% of mass 176	5.5 (7.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005RX	VSTD005RX	GS070829A90	08/29/2007	1115
The sample file is /chem/5973hp90.i/DF070829A90.b/149929RA90.d					
02	VBLKRX	149929	149929RA90	08/29/2007	1306
The sample file is /chem/5973hp90.i/DF070829A90.b/1363720A90.d					
03	Y3ET1	1363720	1363720A90	08/29/2007	1409
The sample file is /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d					
04	VSTD005RY	VSTD005RY	GZ070829A90	08/29/2007	1653
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

The sample file is /chem/5972hp73.i/DG070912B73.b/GS070912B73.d

5LCA

LOW CONCENTRATION WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Client No.: 1391.1 SDG No.: Y3ES6

producing the BFB1 Lab File ID: BG070912B73 BFB Injection Date

Instrument ID: 5972HP73 BFB Injection Time: 1911

GC Column: SPB-624 ID: 0.32(MM) Column Length: 60.0

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 80.0% of mass 95	41.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	87.7
175	5.0 - 9.0% of mass 174	6.2 (7.1)1
176	95.0 - 101.0% of mass 174	85.0 (96.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.5UT	VSTD0.5UT	GS070912B73	09/12/2007	2037
The sample file is /chem/5972hp73.i/DG070912B73.b/GT070912B73.d					
02	VSTD001UT	VSTD001UT	GT070912B73	09/12/2007	2107
The sample file is /chem/5972hp73.i/DG070912B73.b/GU070912B73.d					
03	VSTD020UT	VSTD020UT	GU070912B73	09/12/2007	2137
The sample file is /chem/5972hp73.i/DG070912B73.b/GV070912B73.d					
04	VSTD010UT	VSTD010UT	GV070912B73	09/12/2007	2206
The sample file is /chem/5972hp73.i/DG070912B73.b/GW070912B73.d					
05	VSTD005UT	VSTD005UT	GW070912B73	09/12/2007	2236
The sample file is /chem/5972hp73.i/DG070912B73.b/150443B73.d					
06	VBLKUT	150443	150443B73	09/12/2007	2311
The sample file is /chem/5972hp73.i/DG070912B73.b/1363706B73.d					
07	VHBLKYE	1363706	1363706B73	09/12/2007	2348
The sample file is /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d					
08	VSTD005UT	VSTD005UT	GZ070912B73	09/13/2007	0023
09					
10					
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12					
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14					
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17					
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21					
22					

Case Audit Clerical Summary Report

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 SAS No.: 1391.1 SDG No.: Y3ES6

CCN	Client ID	Date Sampled	Date Rec'd	Date Analyzed	pH	%M
149330	VBLKRR			08/23/07		
149518	VBLKRT			08/24/07		
149670	VBLKRV			08/27/07		
149929	VBLKRX			08/29/07		
150443	VBLKUT			09/12/07		
1363706	VHBLKYE			09/12/07		
1363701	Y3ES6	08/20/07	08/21/07	08/23/07		
1363702	Y3ES7	08/20/07	08/21/07	08/23/07		
1363703	Y3ES8	08/20/07	08/21/07	08/23/07		
1363704	Y3ES9	08/20/07	08/21/07	08/23/07		
1363705	Y3ET0	08/20/07	08/21/07	08/23/07		
1363720	Y3ET1	08/21/07	08/22/07	08/29/07		
1363708	Y3ET2	08/21/07	08/22/07	08/23/07		
1363709	Y3ET2MS	08/21/07	08/22/07	08/23/07		
1363710	Y3ET2MSD	08/21/07	08/22/07	08/23/07		
1363711	Y3ET3	08/21/07	08/22/07	08/23/07		
1363712	Y3ET4	08/21/07	08/22/07	08/23/07		
1363713	Y3ET5	08/21/07	08/22/07	08/23/07		
1363714	Y3ET6	08/22/07	08/23/07	08/24/07		
1363715	Y3ET7	08/22/07	08/23/07	08/24/07		
1363716	Y3ET8	08/22/07	08/23/07	08/27/07		
1363717	Y3ET9	08/22/07	08/23/07	08/27/07		
1363718	Y3EW0	08/22/07	08/23/07	08/27/07		
1363719	Y3EW1	08/22/07	08/23/07	08/24/07		

	VBLKR	Y3ES6	Y3ES7	Y3ES8	Y3ES9	Y3T0	Y3T2	Y3T2M S	Y3T2M SD	Y3T3	Y3T4	Y3T5	VBLKT	Y3T6	Y3T7	Y3W1	VBLKV	Y3T8	Y3T9	Y3W0	VBLKX	Y3T1	VBLKU T	VHBLKY E
24 1,1-Dichloroethene								+	+															
26 Acetone			J		J	J			J	J		+				+	J	JB					J	JB
27 Carbondisulfide			+	J	+	J	J		J					J	J									
30 Methylenechloride	J	JB	JB	JB	JB	JB	JB	JB	JB	JB		JB	J	JB	JB	JB	J	JB	JB	JB				
34 cis-1,2-Dichloroethene															J			+	+	J				
36 Chloroform				J																J				
38 Cyclohexane																							J	JB
40 Benzene			J		J			+	+															
42 Trichloroethene				J				+	+					+	+			+	+	+				
48 Toluene			J		J	J		+	+			J												
51 Tetrachloroethene			J				J	J									J	J			J			
55 Chlorobenzene								+	+															

Case Audit Extraction Summary Report

Case No.: 36678 SAS No.: 1391.1 SDG No.: Y3ES6

CCN	Client ID	Matrix	Extract Method	Date Extracted	Sample Vol/Wt	Final Vol. Aliquot V.	Surr Vol	Spike Vol	GPC Y/N
149330	VBLKRR	WATER LOW	PURGE		25		10		N
149518	VBLKRT	WATER LOW	PURGE		25		10		N
149670	VBLKRV	WATER LOW	PURGE		25		10		N
149929	VBLKRX	WATER LOW	PURGE		25		10		N
150443	VBLKUT	WATER LOW	PURGE		25		10		N
1363706	VHBLKYE	WATER LOW	PURGE		25		10		N
1363701	Y3ES6	WATER LOW	PURGE		25		10		N
1363702	Y3ES7	WATER LOW	PURGE		25		10		N
1363703	Y3ES8	WATER LOW	PURGE		25		10		N
1363704	Y3ES9	WATER LOW	PURGE		25		10		N
1363705	Y3ET0	WATER LOW	PURGE		25		10		N
1363720	Y3ET1	WATER LOW	PURGE		25		10		N
1363708	Y3ET2	WATER LOW	PURGE		25		10		N
1363709	Y3ET2MS	WATER LOW	PURGE		25		10	5	N
1363710	Y3ET2MSD	WATER LOW	PURGE		25		10	5	N
1363711	Y3ET3	WATER LOW	PURGE		25		10		N
1363712	Y3ET4	WATER LOW	PURGE		25		10		N
1363713	Y3ET5	WATER LOW	PURGE		25		10		N
1363714	Y3ET6	WATER LOW	PURGE		25		10		N
1363715	Y3ET7	WATER LOW	PURGE		25		10		N
1363716	Y3ET8	WATER LOW	PURGE		25		10		N
1363717	Y3ET9	WATER LOW	PURGE		25		10		N
1363718	Y3EW0	WATER LOW	PURGE		25		10		N
1363719	Y3EW1	WATER LOW	PURGE		25		10		N

Case Audit RunLog Summary Report Case No.: 36678 SDG No.: Y3ES6

CCN	Client ID	Date Time Analyzed	Dil Factor	Data Filename	Tune Filename	Stnd Filename	Blank
149330	VBLKRR	08/23/07 1415	1.0	149330A90.D	DF070823A90	GZ070823A90	149330
1363701	Y3ES6	08/23/07 1451	1.0	1363701A90.	"	"	"
1363702	Y3ES7	08/23/07 1520	1.0	1363702A90.	"	"	"
1363703	Y3ES8	08/23/07 1549	1.0	1363703A90.	"	"	"
1363704	Y3ES9	08/23/07 1617	1.0	1363704A90.	"	"	"
1363705	Y3ET0	08/23/07 1646	1.0	1363705A90.	"	"	"
1363708	Y3ET2	08/23/07 1715	1.0	1363708A90.	"	"	"
1363709	Y3ET2MS	08/23/07 1744	1.0	1363709A90.	"	"	"
1363710	Y3ET2MSD	08/23/07 1813	1.0	1363710A90.	"	"	"
1363711	Y3ET3	08/23/07 1841	1.0	1363711A90.	"	"	"
1363712	Y3ET4	08/23/07 1910	1.0	1363712A90.	"	"	"
1363713	Y3ET5	08/23/07 1939	1.0	1363713A90.	"	"	"
149518	VBLKRT	08/24/07 1041	1.0	149518A90.D	DF070824A90	GS070824A90	149518
1363714	Y3ET6	08/24/07 1126	1.0	1363714A90.	"	"	"
1363715	Y3ET7	08/24/07 1155	1.0	1363715A90.	"	"	"
1363719	Y3EW1	08/24/07 1350	1.0	1363719A90.	"	"	"
149670	VBLKRV	08/27/07 1054	1.0	149670A90.D	DF070827A90	GZ070827A90	149670
1363716	Y3ET8	08/27/07 1139	2.5	1363716DA90	"	"	"
1363717	Y3ET9	08/27/07 1208	2.5	1363717DA90	"	"	"
1363718	Y3EW0	08/27/07 1237	1.0	1363718RA90	"	"	"
149929	VBLKRX	08/29/07 1306	1.0	149929RA90.	DF070829A90	GS070829A90	149929
1363720	Y3ET1	08/29/07 1409	1.0	1363720A90.	"	"	"
150443	VBLKUT	09/12/07 2311	1.0	150443B73.D	DG070912B73	GZ070912B73	150443
1363706	VHBLKYE	09/12/07 2348	1.0	1363706B73.	"	"	"

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5972hp73.i/DG070912B73.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BG070912B73.d	12-SEP-2007 19:11	BFB	1.00	5972hp73	bfbSOM01.m	DG070912B73.b
GS070912B73.d	12-SEP-2007 20:37	Cal Level 1	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
GT070912B73.d	12-SEP-2007 21:07	Cal Level 2	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
GU070912B73.d	12-SEP-2007 21:37	Cal Level 5	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
GV070912B73.d	12-SEP-2007 22:06	Cal Level 4	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
GW070912B73.d	12-SEP-2007 22:36	Cal Level 3	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
150443B73.d	12-SEP-2007 23:11	BLANK	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
1363706B73.d	12-SEP-2007 23:48	STORAGEBLANK	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
GZ070912B73.d	13-SEP-2007 00:23	Continuing Cal	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b
GA070912B73.d	13-SEP-2007 00:53	Continuing Cal	1.00	5972hp73	SOM01.2_TRACE1391.1	DG070912B73.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BG070912B73.d	LIQUID	VOA	BFBUT	DG070912B73	BFBUT	DG070912B73
GS070912B73.d	LIQUID	VOA	VSTD0.5UT	DG070912B73	VSTD0.5UT	DG070912B73
GT070912B73.d	LIQUID	VOA	VSTD001UT	DG070912B73	VSTD001UT	DG070912B73
GU070912B73.d	LIQUID	VOA	VSTD020UT	DG070912B73	VSTD020UT	DG070912B73
GV070912B73.d	LIQUID	VOA	VSTD010UT	DG070912B73	VSTD010UT	DG070912B73
GW070912B73.d	LIQUID	VOA	VSTD005UT	DG070912B73	VSTD005UT	DG070912B73
150443B73.d	LIQUID	VOA	150443	150443	VBLKUT	VARIOUS
1363706B73.d	LIQUID	VOA	1363706	150443	VHBLKYE	VARIOUS
GZ070912B73.d	LIQUID	VOA	VSTD005UT	DG070912B73	VSTD005UT	DG070912B73
GA070912B73.d	LIQUID	VOA	VSTD005UU	DG070912B73	VSTD005UU	DG070912B73

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BG070912B73.d	all.sub		170550257	170550254	314	170550251
GS070912B73.d	all.sub	WaterMsd.spk	170550267	170550254	170550301	170550252
GT070912B73.d	all.sub	WaterMsd.spk	170550271	170550254	170550301	170550252
GU070912B73.d	all.sub	WaterMsd.spk	170550273	170550254	170550301	170550252
GV070912B73.d	all.sub	WaterMsd.spk	170550275	170550254	170550301	170550252
GW070912B73.d	all.sub	WaterMsd.spk	170550277	170550254	170550301	170550252
150443B73.d	all.sub	WaterMsd.spk	170550306	170550254	170550301	170550252
1363706B73.d	all.sub	WaterMsd.spk	170550296	170550254	170550301	170550252
GZ070912B73.d	all.sub	WaterMsd.spk	170550293	170550254	170550301	170550252
GA070912B73.d	all.sub	WaterMsd.spk	170550292	170550254	170550294	170550252

Report Date : 13-Sep-2007 11:22

CompuChem

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 20:37
End Cal Date : 12-SEP-2007 22:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Cal Date : 13-Sep-2007 11:22 keng
Curve Type : Average

Calibration File Names:
Level 1: /chem/5972hp73.i/DG070912B73.b/GS070912B73.d
Level 2: /chem/5972hp73.i/DG070912B73.b/GT070912B73.d
Level 3: /chem/5972hp73.i/DG070912B73.b/GW070912B73.d
Level 4: /chem/5972hp73.i/DG070912B73.b/GV070912B73.d
Level 5: /chem/5972hp73.i/DG070912B73.b/GU070912B73.d

Compound	0.50000 Level 1	1.000 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	RRF	% RSD
18 Dichlorodifluoromethane	1.12866	1.09768	1.14610	1.14834	1.10293	1.12474	2.102
19 Chloromethane	0.66857	0.64870	0.62972	0.59093	0.58850	0.62529	5.640
20 Vinyl chloride	0.36217	0.39301	0.37597	0.36829	0.36940	0.37377	3.162
21 Bromomethane	0.29904	0.22964	0.22148	0.21678	0.21985	0.23736	14.665
22 Chloroethane	0.12107	0.14121	0.14485	0.13534	0.13948	0.13639	6.762
23 Trichlorofluoromethane	0.49667	0.54745	0.54421	0.53105	0.51553	0.52698	4.006
24 1,1-Dichloroethene	0.51617	0.58913	0.58766	0.58091	0.59594	0.57396	5.705
25 1,1,2-Trichloro-1,2,2-trifluo	0.33845	0.36305	0.37985	0.37011	0.40641	0.37157	6.665
26 Acetone	0.06180	0.04856	0.04568	0.04284	0.04190	0.04816	16.739
27 Carbon disulfide	2.27589	2.34893	2.38869	2.31460	2.29513	2.32465	1.929
28 Methyl acetate	0.10759	0.12972	0.11240	0.11045	0.11326	0.11468	7.572
29 Bromochloromethane	0.24167	0.24803	0.24120	0.22629	0.23287	0.23801	3.564
30 Methylene chloride	0.56515	0.59231	0.56094	0.55187	0.53879	0.56181	3.527
107 tertiary butyl alcohol	0.01112	0.01092	0.01114	0.01081	0.01101	0.01100	1.263
31 trans-1,2-Dichloroethene	0.61799	0.66582	0.67189	0.67327	0.65759	0.65731	3.474
32 Methyl tert-butyl ether	0.51226	0.52789	0.59256	0.60682	0.63715	0.57534	9.254
33 1,1-Dichloroethane	1.01001	1.00355	1.01337	0.98937	0.98440	1.00014	1.272
34 cis-1,2-Dichloroethene	0.53680	0.55099	0.60691	0.62387	0.60805	0.58532	6.618
35 2-Butanone	0.06445	0.06353	0.06798	0.06789	0.06568	0.06591	3.040
36 Chloroform	0.95794	0.95114	1.01433	0.95909	0.95560	0.96762	2.717
37 1,1,1-Trichloroethane	0.88012	0.89317	0.92639	0.85396	0.82245	0.87522	4.499
38 Cyclohexane	0.75709	0.58665	0.52347	0.40853	0.53322	0.56179	22.609
39 Carbon tetrachloride	0.67760	0.68759	0.75676	0.67411	0.67398	0.69401	5.117
40 Benzene	2.52662	2.42405	2.62439	2.49181	2.39567	2.49251	3.623
41 1,2-Dichloroethane	0.40215	0.38712	0.42110	0.40050	0.39583	0.40134	3.113
42 Trichloroethene	0.63825	0.64022	0.74008	0.67662	0.67156	0.67335	6.122

Report Date : 13-Sep-2007 11:22

CompuChem

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 20:37
End Cal Date : 12-SEP-2007 22:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Cal Date : 13-Sep-2007 11:22 keng
Curve Type : Average

Compound	0.50000 Level 1	1.000 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	RRF	% RSD
43 Methylcyclohexane	0.15452	0.31806	0.43595	0.32114	0.50219	0.34637	38.342
44 1,2-Dichloropropane	0.57559	0.49609	0.57965	0.53927	0.51765	0.54165	6.691
45 Bromodichloromethane	0.60951	0.66838	0.70276	0.65358	0.65310	0.65747	5.104
46 cis-1,3-Dichloropropene	0.60185	0.59679	0.71288	0.73237	0.74063	0.67690	10.572
47 4-Methyl-2-pentanone	0.14954	0.14336	0.18573	0.18733	0.18592	0.17038	12.888
48 Toluene	1.94513	1.89104	2.40042	2.22879	2.23262	2.13960	10.030
49 trans-1,3-Dichloropropene	0.44169	0.45985	0.51890	0.52081	0.52829	0.49391	8.109
50 1,1,2-Trichloroethane	0.29411	0.30615	0.32501	0.30642	0.29701	0.30574	3.950
51 Tetrachloroethene	0.37537	0.41282	0.50754	0.43518	0.48322	0.44283	12.018
52 2-Hexanone	0.11191	0.11175	0.14074	0.13279	0.13471	0.12638	10.764
53 Dibromochloromethane	0.34302	0.38334	0.39896	0.38301	0.38842	0.37935	5.617
54 1,2-Dibromoethane	0.27395	0.27368	0.30282	0.29652	0.29522	0.28844	4.735
55 Chlorobenzene	1.27198	1.30972	1.48062	1.36631	1.38672	1.36307	5.861
56 Ethylbenzene	1.48353	1.71919	2.28869	2.01795	2.23059	1.94799	17.576
57 m,p-Xylene	0.49715	0.61013	0.86353	0.78534	0.88413	0.72805	23.108
58 o-Xylene	0.48602	0.55906	0.80591	0.74049	0.82150	0.68260	22.188
59 Styrene	0.59098	0.72579	1.12856	1.05914	1.15814	0.93252	27.589
60 Bromoform	0.41528	0.42257	0.41926	0.42605	0.41082	0.41880	1.427
61 Isopropylbenzene	0.98311	1.29894	1.90897	1.61875	1.96981	1.55591	26.772
62 1,1,2,2-Tetrachloroethane	0.31768	0.29041	0.31979	0.29846	0.30362	0.30599	4.109
63 1,3-Dichlorobenzene	1.50523	1.66478	1.84464	1.74521	1.90733	1.73344	9.100
64 1,4-Dichlorobenzene	1.59117	1.75220	1.99764	1.65163	1.78939	1.75640	8.893
65 1,2-Dichlorobenzene	1.23096	1.37198	1.55854	1.36938	1.48707	1.40358	8.938
66 1,2-Dibromo-3-chloropropane	0.08346	0.07856	0.06617	0.05691	0.05447	0.06791	18.915
67 1,2,4-Trichlorobenzene	0.52263	0.61932	0.79640	0.63303	0.78403	0.67108	17.414
68 1,2,3-Trichlorobenzene	0.45236	0.48131	0.66858	0.50667	0.59792	0.54137	16.551
$ 4 Vinyl chloride-d3	0.20956	0.22282	0.19261	0.18604	0.18779	0.19976	7.956
$ 5 Chloroethane-d5	0.12117	0.14289	0.13787	0.12880	0.12996	0.13214	6.385
$ 6 1,1-Dichloroethene-d2	1.10118	1.16880	1.13425	1.14710	1.17838	1.14594	2.660
$ 7 2-Butanone-d5	0.06132	0.05178	0.06511	0.06466	0.06678	0.06193	9.705
$ 8 Chloroform-d	1.07967	1.07782	1.09165	1.06762	1.06028	1.07541	1.117
$ 9 1,2-Dichloroethane-d4	0.33845	0.35300	0.35822	0.33988	0.34237	0.34638	2.522

Report Date : 13-Sep-2007 11:22

CompuChem

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 20:37
End Cal Date : 12-SEP-2007 22:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m
Cal Date : 13-Sep-2007 11:22 keng
Curve Type : Average

	Compound	0.50000 Level 1	1.000 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	___ RRF	% RSD
$	10 Benzene-d6	2.58646	2.68894	2.77834	2.66423	2.62417	2.66843	2.728
$	11 1,2-Dichloropropane-d6	0.73659	0.76084	0.75859	0.71391	0.71114	0.73621	3.210
$	12 Toluene-d8	1.94016	2.04200	2.28152	2.28158	2.34007	2.17707	8.047
$	13 trans-1,3-Dichloropropene-d4	0.11602	0.12035	0.14279	0.13539	0.14628	0.13217	10.171
$	14 2-Hexanone-d5	0.04473	0.04562	0.06819	0.07047	0.07425	0.06065	23.577
$	15 1,1,2,2-Tetrachloroethane-d2	0.38814	0.36369	0.36797	0.35974	0.36456	0.36882	3.033
$	17 1,2-Dichlorobenzene-d4	1.25749	1.34688	1.25292	1.27187	1.27419	1.28067	2.976

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5973hp90.i/DF070823A90.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BF070823A90.d	23-AUG-2007 11:28	BFB	1.00	5973hp90	bfbSOM01.m	DF070823A90.b
GS070823A90.d	23-AUG-2007 11:51	Cal Level 2	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
GT070823A90.d	23-AUG-2007 12:20	Cal Level 1	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
GU070823A90.d	23-AUG-2007 12:49	Cal Level 5	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
GV070823A90.d	23-AUG-2007 13:17	Cal Level 4	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
GW070823A90.d	23-AUG-2007 13:46	Cal Level 3	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
149330A90.d	23-AUG-2007 14:15	BLANK	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363701A90.d	23-AUG-2007 14:51	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363702A90.d	23-AUG-2007 15:20	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363703A90.d	23-AUG-2007 15:49	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363704A90.d	23-AUG-2007 16:17	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363705A90.d	23-AUG-2007 16:46	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363708A90.d	23-AUG-2007 17:15	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363709A90.d	23-AUG-2007 17:44	MS	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BF070823A90.d	LIQUID	VOA	BFBRR	DF070823A90	BFBRR	DF070823A90
GS070823A90.d	LIQUID	VOA	VSTD001RR	DF070823A90	VSTD001RR	DF070823A90
GT070823A90.d	LIQUID	VOA	VSTD0.5RR	DF070823A90	VSTD0.5RR	DF070823A90
GU070823A90.d	LIQUID	VOA	VSTD020RR	DF070823A90	VSTD020RR	DF070823A90
GV070823A90.d	LIQUID	VOA	VSTD010RR	DF070823A90	VSTD010RR	DF070823A90
GW070823A90.d	LIQUID	VOA	VSTD005RR	DF070823A90	VSTD005RR	DF070823A90
149330A90.d	LIQUID	VOA	149330	149330	VBLKRR	VARIOUS
1363701A90.d	LIQUID	VOA	1363701	149330	Y3ES6	Y3ES6
1363702A90.d	LIQUID	VOA	1363702	149330	Y3ES7	Y3ES6
1363703A90.d	LIQUID	VOA	1363703	149330	Y3ES8	Y3ES6
1363704A90.d	LIQUID	VOA	1363704	149330	Y3ES9	Y3ES6
1363705A90.d	LIQUID	VOA	1363705	149330	Y3ET0	Y3ES6
1363708A90.d	LIQUID	VOA	1363708	149330	Y3ET2	Y3ES6
1363709A90.d	LIQUID	VOA	1363709	149330	Y3ET2MS	Y3ES6

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BF070823A90.d	all.sub		170547602	170547590	314	170547569
GS070823A90.d	all.sub	WaterMsd.spk	170547599	170547590	170549181	170547568
GT070823A90.d	all.sub	WaterMsd.spk	170547600	170547590	170549181	170547568
GU070823A90.d	all.sub	WaterMsd.spk	170547604	170547590	170549181	170547568
GV070823A90.d	all.sub	WaterMsd.spk	170547606	170547590	170549181	170547568
GW070823A90.d	all.sub	WaterMsd.spk	170547609	170547590	170549181	170547568
149330A90.d	all.sub	WaterMsd.spk	170547614	170547590	170549181	170547568
1363701A90.d	all.sub	WaterMsd.spk	170547615	170547590	170549181	170547568
1363702A90.d	all.sub	WaterMsd.spk	170547616	170547590	170549181	170547568
1363703A90.d	all.sub	WaterMsd.spk	170547619	170547590	170549181	170547568
1363704A90.d	all.sub	WaterMsd.spk	170547672	170547590	170549181	170547568
1363705A90.d	all.sub	WaterMsd.spk	170547680	170547590	170549181	170547568
1363708A90.d	all.sub	WaterMsd.spk	170547674	170547590	170549181	170547568
1363709A90.d	all.sub	WaterMsd.spk	170547675	170547590	170549181	170547568

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5973hp90.i/DF070823A90.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
1363710A90.d	23-AUG-2007 18:13	MSD	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363711A90.d	23-AUG-2007 18:41	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363712A90.d	23-AUG-2007 19:10	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363713A90.d	23-AUG-2007 19:39	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
1363706A90.d	23-AUG-2007 20:08	STORAGEBLANK	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
GZ070823A90.d	23-AUG-2007 20:37	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b
GA070823A90.d	23-AUG-2007 21:05	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070823A90.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
1363710A90.d	LIQUID	VOA	1363710	149330	Y3ET2MSD	Y3ES6
1363711A90.d	LIQUID	VOA	1363711	149330	Y3ET3	Y3ES6
1363712A90.d	LIQUID	VOA	1363712	149330	Y3ET4	Y3ES6
1363713A90.d	LIQUID	VOA	1363713	149330	Y3ET5	Y3ES6
1363706A90.d	LIQUID	VOA	1363706	149330	VHBLKYE	Y3ES6
GZ070823A90.d	LIQUID	VOA	VSTD005RS	149330	VSTD005RS	DF070823A90
GA070823A90.d	LIQUID	VOA	VSTD005RS	149330	VSTD005RS	DF070823A90

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
1363710A90.d	all.sub	WaterMsd.spk	170547676	170547590	170549181	170547568
1363711A90.d	all.sub	WaterMsd.spk	170547677	170547590	170549181	170547568
1363712A90.d	all.sub	WaterMsd.spk	170547678	170547590	170549181	170547568
1363713A90.d	all.sub	WaterMsd.spk	170547679	170547590	170549181	170547568
1363706A90.d	all.sub	WaterMsd.spk	170547673	170547590	170549181	170547568
GZ070823A90.d	all.sub	WaterMsd.spk	170547682	170547590	170549181	170547568
GA070823A90.d	all.sub	WaterMsd.spk	170547681	170547590	170547605	170547568

Report Date : 03-Sep-2007 09:40

CompuChem

INITIAL CALIBRATION DATA

Start Cal Date : 23-AUG-2007 11:51
End Cal Date : 23-AUG-2007 13:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Cal Date : 03-Sep-2007 09:40 keng
Curve Type : Average

Calibration File Names:
Level 1: /chem/5973hp90.i/DF070823A90.b/GT070823A90.d
Level 2: /chem/5973hp90.i/DF070823A90.b/GS070823A90.d
Level 3: /chem/5973hp90.i/DF070823A90.b/GW070823A90.d
Level 4: /chem/5973hp90.i/DF070823A90.b/GV070823A90.d
Level 5: /chem/5973hp90.i/DF070823A90.b/GU070823A90.d

Compound	0.50000 Level 1	1.000 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	___ RRF	% RSD
18 Dichlorodifluoromethane	1.16184	1.18606	1.20485	1.15017	1.03888	1.14836	5.641
19 Chloromethane	0.63856	0.61048	0.62238	0.59171	0.52486	0.59760	7.381
20 Vinyl chloride	0.65845	0.63773	0.67577	0.63784	0.58210	0.63838	5.521
21 Bromomethane	0.42810	0.45206	0.46273	0.44000	0.41832	0.44024	4.053
22 Chloroethane	0.38760	0.31392	0.32464	0.30818	0.29414	0.32570	11.149
23 Trichlorofluoromethane	1.33223	1.32123	1.31655	1.23149	1.18989	1.27828	4.982
24 1,1-Dichloroethene	0.54623	0.53758	0.45003	0.42513	0.40928	0.47365	13.523
25 1,1,2-Trichloro-1,2,2-trifluo	0.63033	0.64586	0.53378	0.49238	0.47212	0.55490	14.296
26 Acetone	0.03467	0.03320	0.02593	0.02429	0.02219	0.02806	19.790
27 Carbon disulfide	1.61609	1.64726	1.51823	1.47123	1.43389	1.53734	5.973
28 Methyl acetate	0.08258	0.08213	0.07515	0.06920	0.06068	0.07395	12.494
29 Bromochloromethane	0.15322	0.14970	0.13062	0.12494	0.12000	0.13570	10.996
30 Methylene chloride	0.45246	0.46371	0.40298	0.38215	0.36147	0.41256	10.728
107 tertiary butyl alcohol	0.01632	0.01684	0.01401	0.01350	0.01306	0.01475	11.650
31 trans-1,2-Dichloroethene	0.62162	0.59521	0.51969	0.49480	0.47687	0.54164	11.727
32 Methyl tert-butyl ether	0.81286	0.88803	0.73415	0.72482	0.67965	0.76790	10.746
33 1,1-Dichloroethane	0.80326	0.80922	0.75262	0.72750	0.68929	0.75638	6.722
34 cis-1,2-Dichloroethene	0.36868	0.39207	0.34548	0.33327	0.31516	0.35093	8.582
35 2-Butanone	0.04820	0.04991	0.04511	0.04379	0.04027	0.04546	8.317
36 Chloroform	0.91877	0.89709	0.74713	0.70580	0.66950	0.78766	14.402
37 1,1,1-Trichloroethane	1.14809	1.09413	0.96257	0.88779	0.86249	0.99101	12.693
38 Cyclohexane	0.53973	0.61027	0.51506	0.46015	0.46426	0.51789	11.914
39 Carbon tetrachloride	1.05484	1.05221	0.90447	0.83144	0.80501	0.92959	12.786
40 Benzene	1.49298	1.54816	1.32965	1.23105	1.19543	1.35945	11.497
41 1,2-Dichloroethane	0.48744	0.51358	0.44352	0.41606	0.39109	0.45034	11.163
42 Trichloroethene	0.46406	0.49415	0.44666	0.42032	0.41079	0.44720	7.531

Report Date : 03-Sep-2007 09:40

CompuChem

INITIAL CALIBRATION DATA

Start Cal Date : 23-AUG-2007 11:51
End Cal Date : 23-AUG-2007 13:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Cal Date : 03-Sep-2007 09:40 keng
Curve Type : Average

Compound	0.50000 Level 1	1.000 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	___ RRF	% RSD
43 Methylcyclohexane	0.62207	0.71133	0.55544	0.48859	0.49479	0.57444	16.303
44 1,2-Dichloropropane	0.34450	0.34996	0.32267	0.29515	0.27223	0.31690	10.414
45 Bromodichloromethane	0.62535	0.63121	0.58632	0.55435	0.52527	0.58450	7.780
46 cis-1,3-Dichloropropene	0.49733	0.57162	0.53629	0.51782	0.49408	0.52343	6.088
47 4-Methyl-2-pentanone	0.10656	0.12668	0.11968	0.11259	0.10095	0.11329	9.024
48 Toluene	1.61531	1.65853	1.50935	1.41002	1.37133	1.51291	8.251
49 trans-1,3-Dichloropropene	0.44423	0.48576	0.44818	0.45027	0.43919	0.45353	4.081
50 1,1,2-Trichloroethane	0.19562	0.22047	0.19502	0.18650	0.17760	0.19505	8.204
51 Tetrachloroethene	0.37464	0.41843	0.32135	0.29856	0.30020	0.34263	15.282
52 2-Hexanone	0.07528	0.09203	0.08592	0.07973	0.07214	0.08102	9.923
53 Dibromochloromethane	0.32491	0.35694	0.32532	0.32175	0.31697	0.32918	4.823
54 1,2-Dibromoethane	0.20168	0.21467	0.19541	0.19858	0.18992	0.20005	4.627
55 Chlorobenzene	0.97992	1.03472	0.95014	0.91688	0.90828	0.95799	5.372
56 Ethylbenzene	1.88377	2.01416	1.80604	1.66083	1.64186	1.80133	8.658
57 m,p-Xylene	0.64597	0.75896	0.66890	0.61569	0.63635	0.66517	8.390
58 o-Xylene	0.59039	0.70203	0.64566	0.61937	0.63488	0.63847	6.449
59 Styrene	0.78062	0.90403	0.90246	0.85563	0.85514	0.85958	5.841
60 Bromoform	0.31992	0.34041	0.32526	0.32839	0.32298	0.32739	2.417
61 Isopropylbenzene	1.89914	2.07616	1.76881	1.64626	1.67501	1.81307	9.768
62 1,1,2,2-Tetrachloroethane	0.21952	0.23494	0.21075	0.20230	0.18672	0.21085	8.585
63 1,3-Dichlorobenzene	1.54604	1.75887	1.52021	1.40346	1.38310	1.52234	9.855
64 1,4-Dichlorobenzene	1.53849	1.62184	1.41742	1.33567	1.29834	1.44235	9.443
65 1,2-Dichlorobenzene	1.24999	1.37804	1.19264	1.13353	1.08810	1.20846	9.329
66 1,2-Dibromo-3-chloropropane	0.09425	0.10549	0.09266	0.09093	0.08641	0.09395	7.543
67 1,2,4-Trichlorobenzene	0.94592	1.11413	0.90037	0.85269	0.86444	0.93551	11.358
68 1,2,3-Trichlorobenzene	0.74601	0.89798	0.72958	0.68463	0.68472	0.74858	11.733
$ 4 Vinyl chloride-d3	0.35891	0.35472	0.30369	0.28976	0.26502	0.31442	13.082
$ 5 Chloroethane-d5	0.28773	0.27958	0.26150	0.25238	0.23910	0.26406	7.496
$ 6 1,1-Dichloroethene-d2	1.00555	0.95023	0.82091	0.76532	0.72690	0.85378	14.023
$ 7 2-Butanone-d5	0.04213	0.06226	0.04400	0.04466	0.04198	0.04701	18.306
$ 8 Chloroform-d	0.94226	0.96560	0.83720	0.78769	0.73503	0.85356	11.580
$ 9 1,2-Dichloroethane-d4	0.42135	0.44116	0.37895	0.36831	0.34281	0.39052	10.257

Report Date : 03-Sep-2007 09:40

CompuChem

INITIAL CALIBRATION DATA

Start Cal Date : 23-AUG-2007 11:51
End Cal Date : 23-AUG-2007 13:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m
Cal Date : 03-Sep-2007 09:40 keng
Curve Type : Average

Compound	0.50000 Level 1	1.000 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	___ RRF	% RSD
$ 10 Benzene-d6	1.44473	1.48019	1.28252	1.19911	1.16816	1.31494	10.766
$ 11 1,2-Dichloropropane-d6	0.40032	0.41947	0.37241	0.35171	0.32794	0.37437	9.796
$ 12 Toluene-d8	1.32068	1.42711	1.30829	1.24974	1.22376	1.30591	6.032
$ 13 trans-1,3-Dichloropropene-d4	0.12552	0.13401	0.11012	0.11589	0.11918	0.12094	7.595
$ 14 2-Hexanone-d5	0.03023	0.05523	0.04080	0.04041	0.03782	0.04090	22.166
$ 15 1,1,2,2-Tetrachloroethane-d2	0.22513	0.23127	0.21304	0.21195	0.19711	0.21570	6.123
$ 17 1,2-Dichlorobenzene-d4	0.84349	0.90133	0.83979	0.82080	0.82790	0.84666	3.766

Data File: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Report Date: 13-Sep-2007 11:57

closing

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5972hp73.i Injection Date: 13-SEP-2007 00:23
Lab File ID: GZ070912B73.d Init. Cal. Date(s): 12-SEP-2007 12-SEP-2007
Analysis Type: WATER Init. Cal. Times: 20:37 22:36
Lab Sample ID: VSTD005UT Quant Type: ISTD
Method: /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m

	COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$	4 Vinyl chloride-d3	0.19976	0.21760	0.010	-8.9	30.0	Averaged
$	5 Chloroethane-d5	0.13214	0.15142	0.010	-14.6	40.0	Averaged
$	6 1,1-Dichloroethene-d2	1.14594	1.23422	0.010	-7.7	30.0	Averaged
$	7 2-Butanone-d5	0.06193	0.06346	0.010	-2.5	40.0	Averaged
$	8 Chloroform-d	1.07541	1.17859	0.010	-9.6	30.0	Averaged
$	9 1,2-Dichloroethane-d4	0.34638	0.38832	0.010	-12.1	30.0	Averaged
$	10 Benzene-d6	2.66843	2.74325	0.010	-2.8	30.0	Averaged
$	11 1,2-Dichloropropane-d6	0.73621	0.78377	0.010	-6.5	40.0	Averaged
$	12 Toluene-d8	2.17707	2.27175	0.010	-4.3	30.0	Averaged
$	13 trans-1,3-Dichloropropene-d	0.13217	0.13519	0.010	-2.3	30.0	Averaged
$	14 2-Hexanone-d5	0.06065	0.06671	0.010	-10.0	40.0	Averaged
$	15 1,1,2,2-Tetrachloroethane-d	0.36882	0.35831	0.010	2.9	30.0	Averaged
$	17 1,2-Dichlorobenzene-d4	1.28067	1.23529	0.010	3.5	30.0	Averaged
	18 Dichlorodifluoromethane	1.12474	1.25798	0.010	-11.8	40.0	Averaged
	19 Chloromethane	0.62529	0.69894	0.010	-11.8	40.0	Averaged
	20 Vinyl chloride	0.37377	0.41420	0.100	-10.8	30.0	Averaged
	21 Bromomethane	0.23736	0.23622	0.100	0.5	30.0	Averaged
	22 Chloroethane	0.13639	0.16021	0.010	-17.5	40.0	Averaged
	23 Trichlorofluoromethane	0.52698	0.58768	0.010	-11.5	40.0	Averaged
	24 1,1-Dichloroethene	0.57396	0.63552	0.100	-10.7	30.0	Averaged
	25 1,1,2-Trichloro-1,2,2-trifl	0.37157	0.42282	0.010	-13.8	40.0	Averaged
	26 Acetone	0.04816	0.04687	0.010	2.7	40.0	Averaged
	27 Carbon disulfide	2.32465	2.52044	0.010	-8.4	40.0	Averaged
	28 Methyl acetate	0.11468	0.12002	0.010	-4.7	40.0	Averaged
	29 Bromochloromethane	0.23801	0.24214	0.050	-1.7	30.0	Averaged
	30 Methylene chloride	0.56181	0.61421	0.010	-9.3	40.0	Averaged
	107 tertiary butyl alcohol	0.01100	0.01029	0.010	6.5	40.0	Averaged
	31 trans-1,2-Dichloroethene	0.65731	0.71139	0.010	-8.2	40.0	Averaged
	32 Methyl tert-butyl ether	0.57534	0.59712	0.010	-3.8	40.0	Averaged
	33 1,1-Dichloroethane	1.00014	1.08575	0.200	-8.6	30.0	Averaged
	34 cis-1,2-Dichloroethene	0.58532	0.63172	0.010	-7.9	40.0	Averaged
	35 2-Butanone	0.06591	0.07116	0.010	-8.0	40.0	Averaged
	36 Chloroform	0.96762	1.11039	0.200	-14.8	30.0	Averaged
	37 1,1,1-Trichloroethane	0.87522	0.90542	0.100	-3.5	30.0	Averaged
	38 Cyclohexane	0.56179	0.43037	0.010	23.4	40.0	Averaged
	39 Carbon tetrachloride	0.69401	0.70830	0.100	-2.1	30.0	Averaged

Data File: /chem/5972hp73.i/DG070912B73.b/GZ070912B73.d
Report Date: 13-Sep-2007 11:57

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5972hp73.i Injection Date: 13-SEP-2007 00:23
Lab File ID: GZ070912B73.d Init. Cal. Date(s): 12-SEP-2007 12-SEP-2007
Analysis Type: WATER Init. Cal. Times: 20:37 22:36
Lab Sample ID: VSTD005UT Quant Type: ISTD
Method: /chem/5972hp73.i/DG070912B73.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Benzene	2.49251	2.65171	0.400	-6.4	30.0	Averaged
41 1,2-Dichloroethane	0.40134	0.44464	0.100	-10.8	30.0	Averaged
42 Trichloroethene	0.67335	0.76142	0.300	-13.1	30.0	Averaged
43 Methylcyclohexane	0.34637	0.31866	0.010	8.0	40.0	Averaged
44 1,2-Dichloropropane	0.54165	0.58984	0.010	-8.9	40.0	Averaged
45 Bromodichloromethane	0.65747	0.71205	0.200	-8.3	30.0	Averaged
46 cis-1,3-Dichloropropene	0.67690	0.70009	0.200	-3.4	30.0	Averaged
47 4-Methyl-2-pentanone	0.17038	0.18815	0.010	-10.4	40.0	Averaged
48 Toluene	2.13960	2.33701	0.400	-9.2	30.0	Averaged
49 trans-1,3-Dichloropropene	0.49391	0.50042	0.100	-1.3	30.0	Averaged
50 1,1,2-Trichloroethane	0.30574	0.31604	0.100	-3.4	30.0	Averaged
51 Tetrachloroethene	0.44283	0.47848	0.100	-8.1	30.0	Averaged
52 2-Hexanone	0.12638	0.13818	0.010	-9.3	40.0	Averaged
53 Dibromochloromethane	0.37935	0.41215	0.100	-8.6	30.0	Averaged
54 1,2-Dibromoethane	0.28844	0.30319	0.010	-5.1	40.0	Averaged
55 Chlorobenzene	1.36307	1.43757	0.500	-5.5	30.0	Averaged
56 Ethylbenzene	1.94799	2.11443	0.100	-8.5	30.0	Averaged
57 m,p-Xylene	0.72805	0.78682	0.300	-8.1	30.0	Averaged
58 o-Xylene	0.68260	0.75281	0.300	-10.3	30.0	Averaged
59 Styrene	0.93252	1.02708	0.300	-10.1	30.0	Averaged
60 Bromoform	0.41880	0.44526	0.050	-6.3	30.0	Averaged
61 Isopropylbenzene	1.55591	1.61162	0.010	-3.6	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.30599	0.29456	0.100	3.7	30.0	Averaged
63 1,3-Dichlorobenzene	1.73344	1.61837	0.400	6.6	30.0	Averaged
64 1,4-Dichlorobenzene	1.75640	1.79303	0.400	-2.1	30.0	Averaged
65 1,2-Dichlorobenzene	1.40358	1.41819	0.400	-1.0	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.06791	0.06776	0.010	0.2	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.67108	0.56214	0.200	16.2	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.54137	0.47651	0.200	12.0	30.0	Averaged

Data File: /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Report Date: 03-Sep-2007 10:36

Closing

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 23-AUG-2007 20:37
Lab File ID: GZ070823A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RS Quant Type: ISTD
Method: /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Vinyl chloride-d3	0.31442	0.32364	0.010	-2.9	30.0	Averaged	
$ 5 Chloroethane-d5	0.26406	0.28216	0.010	-6.9	40.0	Averaged	
$ 6 1,1-Dichloroethene-d2	0.85378	0.85299	0.010	0.1	30.0	Averaged	
$ 7 2-Butanone-d5	0.04701	0.04315	0.010	8.2	40.0	Averaged	
$ 8 Chloroform-d	0.85356	0.87868	0.010	-2.9	30.0	Averaged	
$ 9 1,2-Dichloroethane-d4	0.39052	0.39190	0.010	-0.4	30.0	Averaged	
$ 10 Benzene-d6	1.31494	1.29300	0.010	1.7	30.0	Averaged	
$ 11 1,2-Dichloropropane-d6	0.37437	0.44071	0.010	-17.7	40.0	Averaged	
$ 12 Toluene-d8	1.30591	1.31118	0.010	-0.4	30.0	Averaged	
$ 13 trans-1,3-Dichloropropene-d	0.12094	0.10003	0.010	17.3	30.0	Averaged	
$ 14 2-Hexanone-d5	0.04090	0.04125	0.010	-0.9	40.0	Averaged	
$ 15 1,1,2,2-Tetrachloroethane-d	0.21570	0.22559	0.010	-4.6	30.0	Averaged	
$ 17 1,2-Dichlorobenzene-d4	0.84666	0.83195	0.010	1.7	30.0	Averaged	
18 Dichlorodifluoromethane	1.14836	1.13811	0.010	0.9	40.0	Averaged	
19 Chloromethane	0.59760	0.64114	0.010	-7.3	40.0	Averaged	
20 Vinyl chloride	0.63838	0.69794	0.100	-9.3	30.0	Averaged	
21 Bromomethane	0.44024	0.28952	0.100	34.2	30.0	Averaged	<-
22 Chloroethane	0.32570	0.34568	0.010	-6.1	40.0	Averaged	
23 Trichlorofluoromethane	1.27828	1.28590	0.010	-0.6	40.0	Averaged	
24 1,1-Dichloroethene	0.47365	0.46080	0.100	2.7	30.0	Averaged	
25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.53701	0.010	3.2	40.0	Averaged	
26 Acetone	0.02806	0.02757	0.010	1.7	40.0	Averaged	
27 Carbon disulfide	1.53734	1.62617	0.010	-5.8	40.0	Averaged	
28 Methyl acetate	0.07395	0.07961	0.010	-7.7	40.0	Averaged	
29 Bromochloromethane	0.13570	0.13289	0.050	2.1	30.0	Averaged	
30 Methylene chloride	0.41256	0.42967	0.010	-4.1	40.0	Averaged	
107 tertiary butyl alcohol	0.01475	0.01353	0.010	8.3	40.0	Averaged	
31 trans-1,2-Dichloroethene	0.54164	0.54069	0.010	0.2	40.0	Averaged	
32 Methyl tert-butyl ether	0.76790	0.69997	0.010	8.8	40.0	Averaged	
33 1,1-Dichloroethane	0.75638	0.78363	0.200	-3.6	30.0	Averaged	
34 cis-1,2-Dichloroethene	0.35093	0.36286	0.010	-3.4	40.0	Averaged	
35 2-Butanone	0.04546	0.04807	0.010	-5.8	40.0	Averaged	
36 Chloroform	0.78766	0.79954	0.200	-1.5	30.0	Averaged	
37 1,1,1-Trichloroethane	0.99101	0.89763	0.100	9.4	30.0	Averaged	
38 Cyclohexane	0.51789	0.47451	0.010	8.4	40.0	Averaged	
39 Carbon tetrachloride	0.92959	0.85784	0.100	7.7	30.0	Averaged	

Data File: /chem/5973hp90.i/DF070823A90.b/GZ070823A90.d
Report Date: 03-Sep-2007 10:36

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 23-AUG-2007 20:37
Lab File ID: GZ070823A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RS Quant Type: ISTD
Method: /chem/5973hp90.i/DF070823A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.36317	0.400	-0.3	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.47446	0.100	-5.4	30.0	Averaged
42 Trichloroethene	0.44720	0.41948	0.300	6.2	30.0	Averaged
43 Methylcyclohexane	0.57444	0.50579	0.010	12.0	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.33725	0.010	-6.4	40.0	Averaged
45 Bromodichloromethane	0.58450	0.57765	0.200	1.2	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.49781	0.200	4.9	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.12423	0.010	-9.7	40.0	Averaged
48 Toluene	1.51291	1.52432	0.400	-0.8	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.42420	0.100	6.5	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.19654	0.100	-0.8	30.0	Averaged
51 Tetrachloroethene	0.34263	0.32268	0.100	5.8	30.0	Averaged
52 2-Hexanone	0.08102	0.08996	0.010	-11.0	40.0	Averaged
53 Dibromochloromethane	0.32918	0.32842	0.100	0.2	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.19353	0.010	3.3	40.0	Averaged
55 Chlorobenzene	0.95799	0.97651	0.500	-1.9	30.0	Averaged
56 Ethylbenzene	1.80133	1.79991	0.100	0.1	30.0	Averaged
57 m,p-Xylene	0.66517	0.64857	0.300	2.5	30.0	Averaged
58 o-Xylene	0.63847	0.65502	0.300	-2.6	30.0	Averaged
59 Styrene	0.85958	0.91951	0.300	-7.0	30.0	Averaged
60 Bromoform	0.32739	0.31787	0.050	2.9	30.0	Averaged
61 Isopropylbenzene	1.81307	1.71972	0.010	5.1	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.22174	0.100	-5.2	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.42506	0.400	6.4	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.39864	0.400	3.0	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.18184	0.400	2.2	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.08291	0.010	11.7	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.80240	0.200	14.2	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.64949	0.200	13.2	30.0	Averaged

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5973hp90.i/DF070824A90.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BF070824A90.d	24-AUG-2007 09:34	BFB	1.00	5973hp90	bfbSOM01.m	DF070824A90.b
GS070824A90.d	24-AUG-2007 10:04	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
149518A90.d	24-AUG-2007 10:41	BLANK	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363714A90.d	24-AUG-2007 11:26	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363715A90.d	24-AUG-2007 11:55	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363716A90.d	24-AUG-2007 12:24	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363717A90.d	24-AUG-2007 12:52	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363718A90.d	24-AUG-2007 13:21	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363719A90.d	24-AUG-2007 13:50	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
1363706A90.d	24-AUG-2007 14:19	STORAGEBLANK	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0190.d	24-AUG-2007 14:47	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0290.d	24-AUG-2007 15:16	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0390.d	24-AUG-2007 15:45	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0490.d	24-AUG-2007 16:14	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BF070824A90.d	LIQUID	VOA	BFBRT	DF070824A90	BFBRT	DF070824A90
GS070824A90.d	LIQUID	VOA	VSTD005RT	DF070824A90	VSTD005RT	DF070824A90
149518A90.d	LIQUID	VOA	149518	149518	VBLKRT	VARIOUS
1363714A90.d	LIQUID	VOA	1363714	149518	Y3ET6	Y3ES6
1363715A90.d	LIQUID	VOA	1363715	149518	Y3ET7	Y3ES6
1363716A90.d	LIQUID	VOA	1363716	149518	Y3ET8	Y3ES6
1363717A90.d	LIQUID	VOA	1363717	149518	Y3ET9	Y3ES6
1363718A90.d	LIQUID	VOA	1363718	149518	Y3EW0	Y3ES6
1363719A90.d	LIQUID	VOA	1363719	149518	Y3EW1	Y3ES6
1363706A90.d	LIQUID	VOA	1363706	149518	VHBLKYE	Y3ES6
TBAMDL0190.d	LIQUID	VOA	TBAMDL01	149518	TBAMDL01	DF070824A90
TBAMDL0290.d	LIQUID	VOA	TBAMDL02	149518	TBAMDL02	DF070824A90
TBAMDL0390.d	LIQUID	VOA	TBAMDL03	149518	TBAMDL03	DF070824A90
TBAMDL0490.d	LIQUID	VOA	TBAMDL04	149518	TBAMDL04	DF070824A90

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BF070824A90.d	all.sub		170547688	170547687	314	170547685
GS070824A90.d	all.sub	WaterMsd.spk	170547693	170547687	170549181	170549182
149518A90.d	all.sub	WaterMsd.spk	170547712	170547687	170549181	170549182
1363714A90.d	all.sub	WaterMsd.spk	170547810	170547687	170549181	170549182
1363715A90.d	all.sub	WaterMsd.spk	170547811	170547687	170549181	170549182
1363716A90.d	all.sub	WaterMsd.spk	170547812	170547687	170549181	170549182
1363717A90.d	all.sub	WaterMsd.spk	170547813	170547687	170549181	170549182
1363718A90.d	all.sub	WaterMsd.spk	170547814	170547687	170549181	170549182
1363719A90.d	all.sub	WaterMsd.spk	170547815	170547687	170549181	170549182
1363706A90.d	all.sub	WaterMsd.spk	170547809	170547687	170549181	170549182
TBAMDL0190.d	all.sub	WaterMsd.spk	170549183	170547687	170549181	170549182
TBAMDL0290.d	all.sub	WaterMsd.spk	170549184	170547687	170549181	170549182
TBAMDL0390.d	all.sub	WaterMsd.spk	170549190	170547687	170549181	170549182
TBAMDL0490.d	all.sub	WaterMsd.spk	170549185	170547687	170549181	170549182

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5973hp90.i/DF070824A90.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
TBAMDL0590.d	24-AUG-2007 16:42	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0690.d	24-AUG-2007 17:11	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0790.d	24-AUG-2007 17:40	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
TBAMDL0890.d	24-AUG-2007 18:08	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
GZ070824A90.d	24-AUG-2007 18:37	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b
GA070824A90.d	24-AUG-2007 19:06	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070824A90.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
TBAMDL0590.d	LIQUID	VOA	TBAMDL05	149518	TBAMDL05	DF070824A90
TBAMDL0690.d	LIQUID	VOA	TBAMDL06	149518	TBAMDL06	DF070824A90
TBAMDL0790.d	LIQUID	VOA	TBAMDL07	149518	TBAMDL07	DF070824A90
TBAMDL0890.d	LIQUID	VOA	TBAMDL08	149518	TBAMDL08	DF070824A90
GZ070824A90.d	LIQUID	VOA	VSTD005RU	149518	VSTD005RU	DF070824A90
GA070824A90.d	LIQUID	VOA	VSTD005RU	149518	VSTD005RU	DF070824A90

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
TBAMDL0590.d	all.sub	WaterMsd.spk	170549189	170547687	170549181	170549182
TBAMDL0690.d	all.sub	WaterMsd.spk	170549186	170547687	170549181	170549182
TBAMDL0790.d	all.sub	WaterMsd.spk	170549188	170547687	170549181	170549182
TBAMDL0890.d	all.sub	WaterMsd.spk	170549187	170547687	170549181	170549182
GZ070824A90.d	all.sub	WaterMsd.spk	170547831	170547687	170549181	170549182
GA070824A90.d	all.sub	WaterMsd.spk	170547830	170547687	170547605	170547684

Data File: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Report Date: 03-Sep-2007 10:59

Opening

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 24-AUG-2007 10:04
Lab File ID: GS070824A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RT Quant Type: ISTD
Method: /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Vinyl chloride-d3	0.31442	0.28608	0.010	9.0	30.0	Averaged
$ 5 Chloroethane-d5	0.26406	0.24788	0.010	6.1	40.0	Averaged
$ 6 1,1-Dichloroethene-d2	0.85378	0.75259	0.010	11.9	30.0	Averaged
$ 7 2-Butanone-d5	0.04701	0.04180	0.010	11.1	40.0	Averaged
$ 8 Chloroform-d	0.85356	0.79956	0.010	6.3	30.0	Averaged
$ 9 1,2-Dichloroethane-d4	0.39052	0.35731	0.010	8.5	30.0	Averaged
$ 10 Benzene-d6	1.31494	1.23778	0.010	5.9	30.0	Averaged
$ 11 1,2-Dichloropropane-d6	0.37437	0.35674	0.010	4.7	40.0	Averaged
$ 12 Toluene-d8	1.30591	1.25277	0.010	4.1	30.0	Averaged
$ 13 trans-1,3-Dichloropropene-d	0.12094	0.10877	0.010	10.1	30.0	Averaged
$ 14 2-Hexanone-d5	0.04090	0.03809	0.010	6.9	40.0	Averaged
$ 15 1,1,2,2-Tetrachloroethane-d	0.21570	0.20967	0.010	2.8	30.0	Averaged
$ 17 1,2-Dichlorobenzene-d4	0.84666	0.85922	0.010	-1.5	30.0	Averaged
18 Dichlorodifluoromethane	1.14836	1.07732	0.010	6.2	40.0	Averaged
19 Chloromethane	0.59760	0.54591	0.010	8.6	40.0	Averaged
20 Vinyl chloride	0.63838	0.61319	0.100	3.9	30.0	Averaged
21 Bromomethane	0.44024	0.33020	0.100	25.0	30.0	Averaged
22 Chloroethane	0.32570	0.29849	0.010	8.4	40.0	Averaged
23 Trichlorofluoromethane	1.27828	1.13401	0.010	11.3	40.0	Averaged
24 1,1-Dichloroethene	0.47365	0.42230	0.100	10.8	30.0	Averaged
25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.46674	0.010	15.9	40.0	Averaged
26 Acetone	0.02806	0.02491	0.010	11.2	40.0	Averaged
27 Carbon disulfide	1.53734	1.44598	0.010	5.9	40.0	Averaged
28 Methyl acetate	0.07395	0.07279	0.010	1.6	40.0	Averaged
29 Bromochloromethane	0.13570	0.13233	0.050	2.5	30.0	Averaged
30 Methylene chloride	0.41256	0.38913	0.010	5.7	40.0	Averaged
107 tertiary butyl alcohol	0.01475	0.01361	0.010	7.7	40.0	Averaged
31 trans-1,2-Dichloroethene	0.54164	0.49420	0.010	8.8	40.0	Averaged
32 Methyl tert-butyl ether	0.76790	0.69172	0.010	9.9	40.0	Averaged
33 1,1-Dichloroethane	0.75638	0.72993	0.200	3.5	30.0	Averaged
34 cis-1,2-Dichloroethene	0.35093	0.33612	0.010	4.2	40.0	Averaged
35 2-Butanone	0.04546	0.04200	0.010	7.6	40.0	Averaged
36 Chloroform	0.78766	0.72411	0.200	8.1	30.0	Averaged
37 1,1,1-Trichloroethane	0.99101	0.89883	0.100	9.3	30.0	Averaged
38 Cyclohexane	0.51789	0.43478	0.010	16.0	40.0	Averaged
39 Carbon tetrachloride	0.92959	0.85224	0.100	8.3	30.0	Averaged

Data File: /chem/5973hp90.i/DF070824A90.b/GS070824A90.d
Report Date: 03-Sep-2007 10:59

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 24-AUG-2007 10:04
Lab File ID: GS070824A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RT Quant Type: ISTD
Method: /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.28042	0.400	5.8	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.41479	0.100	7.9	30.0	Averaged
42 Trichloroethene	0.44720	0.42069	0.300	5.9	30.0	Averaged
43 Methylcyclohexane	0.57444	0.44046	0.010	23.3	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.30223	0.010	4.6	40.0	Averaged
45 Bromodichloromethane	0.58450	0.54487	0.200	6.8	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.50233	0.200	4.0	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.11086	0.010	2.1	40.0	Averaged
48 Toluene	1.51291	1.46149	0.400	3.4	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.43282	0.100	4.6	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.19075	0.100	2.2	30.0	Averaged
51 Tetrachloroethene	0.34263	0.32012	0.100	6.6	30.0	Averaged
52 2-Hexanone	0.08102	0.07880	0.010	2.7	40.0	Averaged
53 Dibromochloromethane	0.32918	0.31822	0.100	3.3	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.19052	0.010	4.8	40.0	Averaged
55 Chlorobenzene	0.95799	0.93568	0.500	2.3	30.0	Averaged
56 Ethylbenzene	1.80133	1.69001	0.100	6.2	30.0	Averaged
57 m,p-Xylene	0.66517	0.62745	0.300	5.7	30.0	Averaged
58 o-Xylene	0.63847	0.63969	0.300	-0.2	30.0	Averaged
59 Styrene	0.85958	0.87635	0.300	-2.0	30.0	Averaged
60 Bromoform	0.32739	0.32738	0.050	0.0	30.0	Averaged
61 Isopropylbenzene	1.81307	1.61459	0.010	10.9	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.20890	0.100	0.9	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.46638	0.400	3.7	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.38055	0.400	4.3	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.18405	0.400	2.0	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.08217	0.010	12.5	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.82739	0.200	11.6	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.66182	0.200	11.6	30.0	Averaged

Data File: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Report Date: 03-Sep-2007 11:10

Closing

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 24-AUG-2007 18:37
Lab File ID: GZ070824A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RU Quant Type: ISTD
Method: /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 4 Vinyl chloride-d3	0.31442	0.31892	0.010	-1.4	30.0	Averaged
$ 5 Chloroethane-d5	0.26406	0.28532	0.010	-8.1	40.0	Averaged
$ 6 1,1-Dichloroethene-d2	0.85378	0.84595	0.010	0.9	30.0	Averaged
$ 7 2-Butanone-d5	0.04701	0.03868	0.010	17.7	40.0	Averaged
$ 8 Chloroform-d	0.85356	0.89761	0.010	-5.2	30.0	Averaged
$ 9 1,2-Dichloroethane-d4	0.39052	0.39346	0.010	-0.8	30.0	Averaged
$ 10 Benzene-d6	1.31494	1.30083	0.010	1.1	30.0	Averaged
$ 11 1,2-Dichloropropane-d6	0.37437	0.41001	0.010	-9.5	40.0	Averaged
$ 12 Toluene-d8	1.30591	1.31882	0.010	-1.0	30.0	Averaged
$ 13 trans-1,3-Dichloropropene-d	0.12094	0.09725	0.010	19.6	30.0	Averaged
$ 14 2-Hexanone-d5	0.04090	0.03878	0.010	5.2	40.0	Averaged
$ 15 1,1,2,2-Tetrachloroethane-d	0.21570	0.23345	0.010	-8.2	30.0	Averaged
$ 17 1,2-Dichlorobenzene-d4	0.84666	0.80025	0.010	5.5	30.0	Averaged
18 Dichlorodifluoromethane	1.14836	1.12399	0.010	2.1	40.0	Averaged
19 Chloromethane	0.59760	0.69458	0.010	-16.2	40.0	Averaged
20 Vinyl chloride	0.63838	0.72015	0.100	-12.8	30.0	Averaged
21 Bromomethane	0.44024	0.38046	0.100	13.6	30.0	Averaged
22 Chloroethane	0.32570	0.37107	0.010	-13.9	40.0	Averaged
23 Trichlorofluoromethane	1.27828	1.26020	0.010	1.4	40.0	Averaged
24 1,1-Dichloroethene	0.47365	0.46334	0.100	2.2	30.0	Averaged
25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.52075	0.010	6.2	40.0	Averaged
26 Acetone	0.02806	0.02849	0.010	-1.6	40.0	Averaged
27 Carbon disulfide	1.53734	1.62166	0.010	-5.5	40.0	Averaged
28 Methyl acetate	0.07395	0.07995	0.010	-8.1	40.0	Averaged
29 Bromochloromethane	0.13570	0.13391	0.050	1.3	30.0	Averaged
30 Methylene chloride	0.41256	0.43493	0.010	-5.4	40.0	Averaged
107 tertiary butyl alcohol	0.01475	0.01270	0.010	13.9	40.0	Averaged
31 trans-1,2-Dichloroethene	0.54164	0.52974	0.010	2.2	40.0	Averaged
32 Methyl tert-butyl ether	0.76790	0.64333	0.010	16.2	40.0	Averaged
33 1,1-Dichloroethane	0.75638	0.76946	0.200	-1.7	30.0	Averaged
34 cis-1,2-Dichloroethene	0.35093	0.35854	0.010	-2.2	40.0	Averaged
35 2-Butanone	0.04546	0.04517	0.010	0.6	40.0	Averaged
36 Chloroform	0.78766	0.79554	0.200	-1.0	30.0	Averaged
37 1,1,1-Trichloroethane	0.99101	0.90383	0.100	8.8	30.0	Averaged
38 Cyclohexane	0.51789	0.44340	0.010	14.4	40.0	Averaged
39 Carbon tetrachloride	0.92959	0.87637	0.100	5.7	30.0	Averaged

Data File: /chem/5973hp90.i/DF070824A90.b/GZ070824A90.d
Report Date: 03-Sep-2007 11:10

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 24-AUG-2007 18:37
Lab File ID: GZ070824A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RU Quant Type: ISTD
Method: /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.39366	0.400	-2.5	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.47090	0.100	-4.6	30.0	Averaged
42 Trichloroethene	0.44720	0.40753	0.300	8.9	30.0	Averaged
43 Methylcyclohexane	0.57444	0.45616	0.010	20.6	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.34886	0.010	-10.1	40.0	Averaged
45 Bromodichloromethane	0.58450	0.57628	0.200	1.4	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.47109	0.200	10.0	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.12178	0.010	-7.5	40.0	Averaged
48 Toluene	1.51291	1.59528	0.400	-5.4	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.41301	0.100	8.9	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.19885	0.100	-2.0	30.0	Averaged
51 Tetrachloroethene	0.34263	0.32739	0.100	4.4	30.0	Averaged
52 2-Hexanone	0.08102	0.08878	0.010	-9.6	40.0	Averaged
53 Dibromochloromethane	0.32918	0.31763	0.100	3.5	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.18953	0.010	5.3	40.0	Averaged
55 Chlorobenzene	0.95799	1.01673	0.500	-6.1	30.0	Averaged
56 Ethylbenzene	1.80133	1.84076	0.100	-2.2	30.0	Averaged
57 m,p-Xylene	0.66517	0.66511	0.300	0.0	30.0	Averaged
58 o-Xylene	0.63847	0.66091	0.300	-3.5	30.0	Averaged
59 Styrene	0.85958	0.91811	0.300	-6.8	30.0	Averaged
60 Bromoform	0.32739	0.30471	0.050	6.9	30.0	Averaged
61 Isopropylbenzene	1.81307	1.65748	0.010	8.6	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.22721	0.100	-7.8	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.36747	0.400	10.2	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.34120	0.400	7.0	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.13672	0.400	5.9	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.07661	0.010	18.5	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.66357	0.200	29.1	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.54784	0.200	26.8	30.0	Averaged

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5973hp90.i/DF070827A90.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BF070827A90.d	27-AUG-2007 09:48	BFB	1.00	5973hp90	bfbSOM01.m	DF070827A90.b
GS070827A90.d	27-AUG-2007 10:16	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b
149670A90.d	27-AUG-2007 10:54	BLANK	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b
1363716DA90.d	27-AUG-2007 11:39	Unknown	2.50	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b
1363717DA90.d	27-AUG-2007 12:08	Unknown	2.50	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b
1363718RA90.d	27-AUG-2007 12:37	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b
1363706RA90.d	27-AUG-2007 13:06	STGBKN	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b
GZ070827A90.d	27-AUG-2007 14:36	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070827A90.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BF070827A90.d	LIQUID	VOA	BFBRV	DF070827A90	BFBRV	DF070827A90
GS070827A90.d	LIQUID	VOA	VSTD005RV	DF070827A90	VSTD005RV	DF070827A90
149670A90.d	LIQUID	VOA	146970	146970	VBLKRV	VARIOUS
1363716DA90.d	LIQUID	VOA	1363716	149670	Y3ET8	Y3ES6
1363717DA90.d	LIQUID	VOA	1363717	149670	Y3ET9	Y3ES6
1363718RA90.d	LIQUID	VOA	1363718	149670	Y3EW0	Y3ES6
1363706RA90.d	LIQUID	VOA	1363706	149670	VHBLKYE	Y3ES6
GZ070827A90.d	LIQUID	VOA	VSTD005RW	149670	VSTD005RW	DF070827A90

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BF070827A90.d	all.sub		170547834	170547827	314	170547825
GS070827A90.d	all.sub	WaterMsd.spk	170547847	170547827	170549181	170549191
149670A90.d	all.sub	WaterMsd.spk	170547868	170547827	170549181	170549191
1363716DA90.d	all.sub	WaterMsd.spk	170547870	170547827	170549181	170549191
1363717DA90.d	all.sub	WaterMsd.spk	170547879	170547827	170549181	170549191
1363718RA90.d	all.sub	WaterMsd.spk	170547880	170547827	170549181	170549191
1363706RA90.d	all.sub	WaterMsd.spk	170547898	170547827	170547605	170547824
GZ070827A90.d	all.sub	WaterMsd.spk	170547902	170547827	170549181	170549191

Data File: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Report Date: 03-Sep-2007 12:03

Opening

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 27-AUG-2007 10:16
Lab File ID: GS070827A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RV Quant Type: ISTD
Method: /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Vinyl chloride-d3	0.31442	0.28095	0.010	10.6	30.0	Averaged
$ 5 Chloroethane-d5	0.26406	0.24205	0.010	8.3	40.0	Averaged
$ 6 1,1-Dichloroethene-d2	0.85378	0.72843	0.010	14.7	30.0	Averaged
$ 7 2-Butanone-d5	0.04701	0.04052	0.010	13.8	40.0	Averaged
$ 8 Chloroform-d	0.85356	0.79015	0.010	7.4	30.0	Averaged
$ 9 1,2-Dichloroethane-d4	0.39052	0.34473	0.010	11.7	30.0	Averaged
$ 10 Benzene-d6	1.31494	1.25953	0.010	4.2	30.0	Averaged
$ 11 1,2-Dichloropropane-d6	0.37437	0.36945	0.010	1.3	40.0	Averaged
$ 12 Toluene-d8	1.30591	1.25516	0.010	3.9	30.0	Averaged
$ 13 trans-1,3-Dichloropropene-d	0.12094	0.10165	0.010	16.0	30.0	Averaged
$ 14 2-Hexanone-d5	0.04090	0.03712	0.010	9.2	40.0	Averaged
$ 15 1,1,2,2-Tetrachloroethane-d	0.21570	0.20367	0.010	5.6	30.0	Averaged
$ 17 1,2-Dichlorobenzene-d4	0.84666	0.82328	0.010	2.8	30.0	Averaged
18 Dichlorodifluoromethane	1.14836	1.03386	0.010	10.0	40.0	Averaged
19 Chloromethane	0.59760	0.56703	0.010	5.1	40.0	Averaged
20 Vinyl chloride	0.63838	0.61091	0.100	4.3	30.0	Averaged
21 Bromomethane	0.44024	0.34927	0.100	20.7	30.0	Averaged
22 Chloroethane	0.32570	0.29873	0.010	8.3	40.0	Averaged
23 Trichlorofluoromethane	1.27828	1.06514	0.010	16.7	40.0	Averaged
24 1,1-Dichloroethene	0.47365	0.41018	0.100	13.4	30.0	Averaged
25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.45125	0.010	18.7	40.0	Averaged
26 Acetone	0.02806	0.02404	0.010	14.3	40.0	Averaged
27 Carbon disulfide	1.53734	1.44274	0.010	6.2	40.0	Averaged
28 Methyl acetate	0.07395	0.06574	0.010	11.1	40.0	Averaged
29 Bromochloromethane	0.13570	0.12973	0.050	4.4	30.0	Averaged
30 Methylene chloride	0.41256	0.38027	0.010	7.8	40.0	Averaged
107 tertiary butyl alcohol	0.01475	0.01258	0.010	14.7	40.0	Averaged
31 trans-1,2-Dichloroethene	0.54164	0.47669	0.010	12.0	40.0	Averaged
32 Methyl tert-butyl ether	0.76790	0.65763	0.010	14.4	40.0	Averaged
33 1,1-Dichloroethane	0.75638	0.70031	0.200	7.4	30.0	Averaged
34 cis-1,2-Dichloroethene	0.35093	0.33825	0.010	3.6	40.0	Averaged
35 2-Butanone	0.04546	0.04228	0.010	7.0	40.0	Averaged
36 Chloroform	0.78766	0.70237	0.200	10.8	30.0	Averaged
37 1,1,1-Trichloroethane	0.99101	0.89413	0.100	9.8	30.0	Averaged
38 Cyclohexane	0.51789	0.44515	0.010	14.0	40.0	Averaged
39 Carbon tetrachloride	0.92959	0.83661	0.100	10.0	30.0	Averaged

Data File: /chem/5973hp90.i/DF070827A90.b/GS070827A90.d
Report Date: 03-Sep-2007 12:03

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 27-AUG-2007 10:16
Lab File ID: GS070827A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RV Quant Type: ISTD
Method: /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.28442	0.400	5.5	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.39870	0.100	11.5	30.0	Averaged
42 Trichloroethene	0.44720	0.41503	0.300	7.2	30.0	Averaged
43 Methylcyclohexane	0.57444	0.45340	0.010	21.1	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.29641	0.010	6.5	40.0	Averaged
45 Bromodichloromethane	0.58450	0.53773	0.200	8.0	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.49377	0.200	5.7	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.10463	0.010	7.6	40.0	Averaged
48 Toluene	1.51291	1.43212	0.400	5.3	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.41547	0.100	8.4	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.19108	0.100	2.0	30.0	Averaged
51 Tetrachloroethene	0.34263	0.32810	0.100	4.2	30.0	Averaged
52 2-Hexanone	0.08102	0.07495	0.010	7.5	40.0	Averaged
53 Dibromochloromethane	0.32918	0.31416	0.100	4.6	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.18733	0.010	6.4	40.0	Averaged
55 Chlorobenzene	0.95799	0.93731	0.500	2.2	30.0	Averaged
56 Ethylbenzene	1.80133	1.67460	0.100	7.0	30.0	Averaged
57 m,p-Xylene	0.66517	0.63074	0.300	5.2	30.0	Averaged
58 o-Xylene	0.63847	0.63362	0.300	0.8	30.0	Averaged
59 Styrene	0.85958	0.86229	0.300	-0.3	30.0	Averaged
60 Bromoform	0.32739	0.31762	0.050	3.0	30.0	Averaged
61 Isopropylbenzene	1.81307	1.62666	0.010	10.3	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.20112	0.100	4.6	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.44114	0.400	5.3	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.36781	0.400	5.2	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.16894	0.400	3.3	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.07880	0.010	16.1	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.80863	0.200	13.6	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.67985	0.200	9.2	30.0	Averaged

Data File: /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Report Date: 03-Sep-2007 12:14

Closing

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 27-AUG-2007 14:36
Lab File ID: GZ070827A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RW Quant Type: ISTD
Method: /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m

	COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$	4 Vinyl chloride-d3	0.31442	0.32028	0.010	-1.9	30.0	Averaged
S	5 Chloroethane-d5	0.26406	0.28725	0.010	-8.8	40.0	Averaged
$	6 1,1-Dichloroethene-d2	0.85378	0.83401	0.010	2.3	30.0	Averaged
$	7 2-Butanone-d5	0.04701	0.03617	0.010	23.0	40.0	Averaged
$	8 Chloroform-d	0.85356	0.87952	0.010	-3.0	30.0	Averaged
$	9 1,2-Dichloroethane-d4	0.39052	0.37597	0.010	3.7	30.0	Averaged
S	10 Benzene-d6	1.31494	1.27439	0.010	3.1	30.0	Averaged
$	11 1,2-Dichloropropane-d6	0.37437	0.36093	0.010	3.6	40.0	Averaged
$	12 Toluene-d8	1.30591	1.28054	0.010	1.9	30.0	Averaged
$	13 trans-1,3-Dichloropropene-d	0.12094	0.09169	0.010	24.2	30.0	Averaged
$	14 2-Hexanone-d5	0.04090	0.03675	0.010	10.1	40.0	Averaged
$	15 1,1,2,2-Tetrachloroethane-d	0.21570	0.21712	0.010	-0.7	30.0	Averaged
$	17 1,2-Dichlorobenzene-d4	0.84666	0.78009	0.010	7.9	30.0	Averaged
	18 Dichlorodifluoromethane	1.14836	1.13965	0.010	0.8	40.0	Averaged
	19 Chloromethane	0.59760	0.70332	0.010	-17.7	40.0	Averaged
	20 Vinyl chloride	0.63838	0.72292	0.100	-13.2	30.0	Averaged
	21 Bromomethane	0.44024	0.45896	0.100	-4.3	30.0	Averaged
	22 Chloroethane	0.32570	0.34688	0.010	-6.5	40.0	Averaged
	23 Trichlorofluoromethane	1.27828	1.21501	0.010	4.9	40.0	Averaged
	24 1,1-Dichloroethene	0.47365	0.44540	0.100	6.0	30.0	Averaged
	25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.50180	0.010	9.6	40.0	Averaged
	26 Acetone	0.02806	0.02727	0.010	2.8	40.0	Averaged
	27 Carbon disulfide	1.53734	1.61582	0.010	-5.1	40.0	Averaged
	28 Methyl acetate	0.07395	0.07906	0.010	-6.9	40.0	Averaged
	29 Bromochloromethane	0.13570	0.13285	0.050	2.1	30.0	Averaged
	30 Methylene chloride	0.41256	0.42891	0.010	-4.0	40.0	Averaged
	107 tertiary butyl alcohol	0.01475	0.01210	0.010	18.0	40.0	Averaged
	31 trans-1,2-Dichloroethene	0.54164	0.51326	0.010	5.2	40.0	Averaged
	32 Methyl tert-butyl ether	0.76790	0.63942	0.010	16.7	40.0	Averaged
	33 1,1-Dichloroethane	0.75638	0.77771	0.200	-2.8	30.0	Averaged
	34 cis-1,2-Dichloroethene	0.35093	0.35414	0.010	-0.9	40.0	Averaged
	35 2-Butanone	0.04546	0.04389	0.010	3.4	40.0	Averaged
	36 Chloroform	0.78766	0.79169	0.200	-0.5	30.0	Averaged
	37 1,1,1-Trichloroethane	0.99101	0.88906	0.100	10.3	30.0	Averaged
	38 Cyclohexane	0.51789	0.43592	0.010	15.8	40.0	Averaged
	39 Carbon tetrachloride	0.92959	0.86753	0.100	6.7	30.0	Averaged

Data File: /chem/5973hp90.i/DF070827A90.b/GZ070827A90.d
Report Date: 03-Sep-2007 12:14

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 27-AUG-2007 14:36
Lab File ID: GZ070827A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RW Quant Type: ISTD
Method: /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.35032	0.400	0.7	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.44817	0.100	0.5	30.0	Averaged
42 Trichloroethene	0.44720	0.39391	0.300	11.9	30.0	Averaged
43 Methylcyclohexane	0.57444	0.44295	0.010	22.9	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.33235	0.010	-4.9	40.0	Averaged
45 Bromodichloromethane	0.58450	0.56160	0.200	3.9	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.46099	0.200	11.9	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.11360	0.010	-0.3	40.0	Averaged
48 Toluene	1.51291	1.53467	0.400	-1.4	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.39631	0.100	12.6	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.19413	0.100	0.5	30.0	Averaged
51 Tetrachloroethene	0.34263	0.31817	0.100	7.1	30.0	Averaged
52 2-Hexanone	0.08102	0.08259	0.010	-1.9	40.0	Averaged
53 Dibromochloromethane	0.32918	0.31085	0.100	5.6	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.18067	0.010	9.7	40.0	Averaged
55 Chlorobenzene	0.95799	0.97592	0.500	-1.9	30.0	Averaged
56 Ethylbenzene	1.80133	1.78579	0.100	0.9	30.0	Averaged
57 m,p-Xylene	0.66517	0.64558	0.300	2.9	30.0	Averaged
58 o-Xylene	0.63847	0.66190	0.300	-3.7	30.0	Averaged
59 Styrene	0.85958	0.89825	0.300	-4.5	30.0	Averaged
60 Bromoform	0.32739	0.29724	0.050	9.2	30.0	Averaged
61 Isopropylbenzene	1.81307	1.63947	0.010	9.6	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.20671	0.100	2.0	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.35307	0.400	11.1	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.33904	0.400	7.2	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.14637	0.400	5.1	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.07904	0.010	15.9	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.68059	0.200	27.2	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.56157	0.200	25.0	30.0	Averaged

SAMPLE INFORMATION SUMMARY

BATCH: /chem/5973hp90.i/DF070829A90.b

Data File	Injection Date	Sample Type	Dil Factor	Inst ID	Method	Method Batch
BF070829A90.d	29-AUG-2007 10:44	BFB	1.00	5973hp90	bfbSOM01.m	DF070829A90.b
GS070829A90.d	29-AUG-2007 11:15	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
xxGB070829A90.d	29-AUG-2007 11:55	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
149929RA90.d	29-AUG-2007 13:06	BLANK	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
1363720A90.d	29-AUG-2007 14:09	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
1363706RA90.d	29-AUG-2007 14:38	STGBKN	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
1363706R2A90.d	29-AUG-2007 15:21	Unknown	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
1353002A90.d	29-AUG-2007 16:13	STGBKN	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
GZ070829A90.d	29-AUG-2007 16:53	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b
GA070829A90.d	29-AUG-2007 17:22	Continuing Cal	1.00	5973hp90	SOM01.2_TRACE1391.1	DF070829A90.b

Data File	Matrix	Fraction	Lab Sample ID	Lab Prep Batch	Client Sample ID	Client Sample Group
BF070829A90.d	LIQUID	VOA	BFBRX	DF070829A90	BFBRX	DF070829A90
GS070829A90.d	LIQUID	VOA	VSTD005RX	DF070829A90	VSTD005RX	DF070829A90
xxGB070829A90.d	LIQUID	VOA	VBLKRX	DF070829A90		DF070829A90
149929RA90.d	LIQUID	VOA	149929	149929	VBLKRX	VARIOUS
1363720A90.d	LIQUID	VOA	1363720	149929	Y3ET1	Y3ES6
1363706RA90.d	LIQUID	VOA	1363706	149949	VHBLKYE	Y3ES6
1363706R2A90.d	LIQUID	VOA	1363706	DF070829A90	VHBLKYE	Y3ES6
1353002A90.d	LIQUID	VOA	1353002	148446	VHBLKXC	13530
GZ070829A90.d	LIQUID	VOA	VSTD005RY	DF070829A90	VSTD005RY	DF070829A90
GA070829A90.d	LIQUID	VOA	VSTD005RY	DF070829A90	VSTD005RY	DF070829A90

Data File	Compound Sublist	Spike List File	Sample Ref #	QC Group Ref #	Init Cal Ref #	Batch Ref #
BF070829A90.d	all.sub		170548544	170548540	314	170548538
GS070829A90.d	all.sub	WaterMsd.spk	170548543	170548540	170549181	170549192
xxGB070829A90.d	all.sub	WaterMsd.spk	170548557	170548540	170547605	170548537
149929RA90.d	all.sub	WaterMsd.spk	170549193	170548540	170549181	170549192
1363720A90.d	all.sub	WaterMsd.spk	170548571	170548540	170549181	170549192
1363706RA90.d	all.sub	WaterMsd.spk	170548573	170548540	170549181	170549192
1363706R2A90.d	all.sub	WaterMsd.spk	170548591	170548540	170549181	170549192
1353002A90.d	all.sub	WaterMsd.spk	170548597	170548540	170549181	170549192
GZ070829A90.d	all.sub	WaterMsd.spk	170548744	170548540	170549181	170549192
GA070829A90.d	all.sub	WaterMsd.spk	170548745	170548540	170547605	170548537

Data File: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Report Date: 03-Sep-2007 12:36

Opening

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 29-AUG-2007 11:15
Lab File ID: GS070829A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RX Quant Type: ISTD
Method: /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Vinyl chloride-d3	0.31442	0.33452	0.010	-6.4	30.0	Averaged
$ 5 Chloroethane-d5	0.26406	0.29473	0.010	-11.6	40.0	Averaged
$ 6 1,1-Dichloroethene-d2	0.85378	0.86453	0.010	-1.3	30.0	Averaged
$ 7 2-Butanone-d5	0.04701	0.03555	0.010	24.4	40.0	Averaged
$ 8 Chloroform-d	0.85356	0.92076	0.010	-7.9	30.0	Averaged
$ 9 1,2-Dichloroethane-d4	0.39052	0.39327	0.010	-0.7	30.0	Averaged
$ 10 Benzene-d6	1.31494	1.34271	0.010	-2.1	30.0	Averaged
$ 11 1,2-Dichloropropane-d6	0.37437	0.36709	0.010	1.9	40.0	Averaged
$ 12 Toluene-d8	1.30591	1.33195	0.010	-2.0	30.0	Averaged
$ 13 trans-1,3-Dichloropropene-d	0.12094	0.09793	0.010	19.0	30.0	Averaged
$ 14 2-Hexanone-d5	0.04090	0.03513	0.010	14.1	40.0	Averaged
$ 15 1,1,2,2-Tetrachloroethane-d	0.21570	0.22025	0.010	-2.1	30.0	Averaged
$ 17 1,2-Dichlorobenzene-d4	0.84666	0.79646	0.010	5.9	30.0	Averaged
18 Dichlorodifluoromethane	1.14836	0.95474	0.010	16.9	40.0	Averaged
19 Chloromethane	0.59760	0.60426	0.010	-1.1	40.0	Averaged
20 Vinyl chloride	0.63838	0.64210	0.100	-0.6	30.0	Averaged
21 Bromomethane	0.44024	0.43569	0.100	1.0	30.0	Averaged
22 Chloroethane	0.32570	0.31847	0.010	2.2	40.0	Averaged
23 Trichlorofluoromethane	1.27828	1.11449	0.010	12.8	40.0	Averaged
24 1,1-Dichloroethene	0.47365	0.45821	0.100	3.3	30.0	Averaged
25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.49482	0.010	10.8	40.0	Averaged
26 Acetone	0.02806	0.02608	0.010	7.1	40.0	Averaged
27 Carbon disulfide	1.53734	1.55203	0.010	-1.0	40.0	Averaged
28 Methyl acetate	0.07395	0.07410	0.010	-0.2	40.0	Averaged
29 Bromochloromethane	0.13570	0.14064	0.050	-3.6	30.0	Averaged
30 Methylene chloride	0.41256	0.42475	0.010	-3.0	40.0	Averaged
107 tertiary butyl alcohol	0.01475	0.01392	0.010	5.6	40.0	Averaged
31 trans-1,2-Dichloroethene	0.54164	0.53446	0.010	1.3	40.0	Averaged
32 Methyl tert-butyl ether	0.76790	0.65293	0.010	15.0	40.0	Averaged
33 1,1-Dichloroethane	0.75638	0.74661	0.200	1.3	30.0	Averaged
34 cis-1,2-Dichloroethene	0.35093	0.35944	0.010	-2.4	40.0	Averaged
35 2-Butanone	0.04546	0.04095	0.010	9.9	40.0	Averaged
36 Chloroform	0.78766	0.78668	0.200	0.1	30.0	Averaged
37 1,1,1-Trichloroethane	0.99101	0.91270	0.100	7.9	30.0	Averaged
38 Cyclohexane	0.51789	0.42485	0.010	18.0	40.0	Averaged
39 Carbon tetrachloride	0.92959	0.88177	0.100	5.1	30.0	Averaged

Data File: /chem/5973hp90.i/DF070829A90.b/GS070829A90.d
Report Date: 03-Sep-2007 12:36

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 29-AUG-2007 11:15
Lab File ID: GS070829A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RX Quant Type: ISTD
Method: /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.30878	0.400	3.7	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.44046	0.100	2.2	30.0	Averaged
42 Trichloroethene	0.44720	0.39933	0.300	10.7	30.0	Averaged
43 Methylcyclohexane	0.57444	0.46425	0.010	19.2	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.30515	0.010	3.7	40.0	Averaged
45 Bromodichloromethane	0.58450	0.54995	0.200	5.9	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.45650	0.200	12.8	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.10456	0.010	7.7	40.0	Averaged
48 Toluene	1.51291	1.52785	0.400	-1.0	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.39092	0.100	13.8	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.18548	0.100	4.9	30.0	Averaged
51 Tetrachloroethene	0.34263	0.34246	0.100	0.1	30.0	Averaged
52 2-Hexanone	0.08102	0.07549	0.010	6.8	40.0	Averaged
53 Dibromochloromethane	0.32918	0.31130	0.100	5.4	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.17416	0.010	12.9	40.0	Averaged
55 Chlorobenzene	0.95799	0.97303	0.500	-1.6	30.0	Averaged
56 Ethylbenzene	1.80133	1.79936	0.100	0.1	30.0	Averaged
57 m,p-Xylene	0.66517	0.67570	0.300	-1.6	30.0	Averaged
58 o-Xylene	0.63847	0.66271	0.300	-3.8	30.0	Averaged
59 Styrene	0.85958	0.89603	0.300	-4.2	30.0	Averaged
60 Bromoform	0.32739	0.29819	0.050	8.9	30.0	Averaged
61 Isopropylbenzene	1.81307	1.80291	0.010	0.6	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.19584	0.100	7.1	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.42264	0.400	6.5	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.34780	0.400	6.6	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.14458	0.400	5.3	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.07197	0.010	23.4	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.77871	0.200	16.8	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.61862	0.200	17.4	30.0	Averaged

Data File: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Report Date: 03-Sep-2007 12:43

Closing

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 29-AUG-2007 16:53
Lab File ID: GZ070829A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RY Quant Type: ISTD
Method: /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RFS	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Vinyl chloride-d3	0.31442	0.34991	0.010	-11.3	30.0	Averaged
$ 5 Chloroethane-d5	0.26406	0.30739	0.010	-16.4	40.0	Averaged
$ 6 1,1-Dichloroethene-d2	0.85378	0.90014	0.010	-5.4	30.0	Averaged
$ 7 2-Butanone-d5	0.04701	0.03285	0.010	30.1	40.0	Averaged
$ 8 Chloroform-d	0.85356	0.96870	0.010	-13.5	30.0	Averaged
$ 9 1,2-Dichloroethane-d4	0.39052	0.41134	0.010	-5.3	30.0	Averaged
$ 10 Benzene-d6	1.31494	1.34085	0.010	-2.0	30.0	Averaged
$ 11 1,2-Dichloropropane-d6	0.37437	0.37681	0.010	-0.7	40.0	Averaged
$ 12 Toluene-d8	1.30591	1.37997	0.010	-5.7	30.0	Averaged
$ 13 trans-1,3-Dichloropropene-d	0.12094	0.09030	0.010	25.3	30.0	Averaged
$ 14 2-Hexanone-d5	0.04090	0.03549	0.010	13.2	40.0	Averaged
$ 15 1,1,2,2-Tetrachloroethane-d	0.21570	0.23555	0.010	-9.2	30.0	Averaged
$ 17 1,2-Dichlorobenzene-d4	0.84666	0.78960	0.010	6.7	30.0	Averaged
18 Dichlorodifluoromethane	1.14836	1.01670	0.010	11.5	40.0	Averaged
19 Chloromethane	0.59760	0.66734	0.010	-11.7	40.0	Averaged
20 Vinyl chloride	0.63838	0.68314	0.100	-7.0	30.0	Averaged
21 Bromomethane	0.44024	0.46642	0.100	-5.9	30.0	Averaged
22 Chloroethane	0.32570	0.33967	0.010	-4.3	40.0	Averaged
23 Trichlorofluoromethane	1.27828	1.19932	0.010	6.2	40.0	Averaged
24 1,1-Dichloroethene	0.47365	0.45673	0.100	3.6	30.0	Averaged
25 1,1,2-Trichloro-1,2,2-trifl	0.55490	0.52428	0.010	5.5	40.0	Averaged
26 Acetone	0.02806	0.02926	0.010	-4.3	40.0	Averaged
27 Carbon disulfide	1.53734	1.61810	0.010	-5.3	40.0	Averaged
28 Methyl acetate	0.07395	0.08534	0.010	-15.4	40.0	Averaged
29 Bromochloromethane	0.13570	0.13735	0.050	-1.2	30.0	Averaged
30 Methylene chloride	0.41256	0.44777	0.010	-8.5	40.0	Averaged
107 tertiary butyl alcohol	0.01475	0.01417	0.010	3.9	40.0	Averaged
31 trans-1,2-Dichloroethene	0.54164	0.54701	0.010	-1.0	40.0	Averaged
32 Methyl tert-butyl ether	0.76790	0.63458	0.010	17.4	40.0	Averaged
33 1,1-Dichloroethane	0.75638	0.73819	0.200	2.4	30.0	Averaged
34 cis-1,2-Dichloroethene	0.35093	0.36173	0.010	-3.1	40.0	Averaged
35 2-Butanone	0.04546	0.04200	0.010	7.6	40.0	Averaged
36 Chloroform	0.78766	0.82064	0.200	-4.2	30.0	Averaged
37 1,1,1-Trichloroethane	0.99101	0.89260	0.100	9.9	30.0	Averaged
38 Cyclohexane	0.51789	0.42434	0.010	18.1	40.0	Averaged
39 Carbon tetrachloride	0.92959	0.89325	0.100	3.9	30.0	Averaged

Data File: /chem/5973hp90.i/DF070829A90.b/GZ070829A90.d
Report Date: 03-Sep-2007 12:43

CompuChem

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 5973hp90.i Injection Date: 29-AUG-2007 16:53
Lab File ID: GZ070829A90.d Init. Cal. Date(s): 23-AUG-2007 23-AUG-2007
Analysis Type: WATER Init. Cal. Times: 11:51 13:46
Lab Sample ID: VSTD005RY Quant Type: ISTD
Method: /chem/5973hp90.i/DF070829A90.b/SOM01.2_TRACE1391.1.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Benzene	1.35945	1.33328	0.400	1.9	30.0	Averaged
41 1,2-Dichloroethane	0.45034	0.46807	0.100	-3.9	30.0	Averaged
42 Trichloroethene	0.44720	0.38731	0.300	13.4	30.0	Averaged
43 Methylcyclohexane	0.57444	0.50175	0.010	12.7	40.0	Averaged
44 1,2-Dichloropropane	0.31690	0.32600	0.010	-2.9	40.0	Averaged
45 Bromodichloromethane	0.58450	0.57546	0.200	1.5	30.0	Averaged
46 cis-1,3-Dichloropropene	0.52343	0.43975	0.200	16.0	30.0	Averaged
47 4-Methyl-2-pentanone	0.11329	0.11085	0.010	2.2	40.0	Averaged
48 Toluene	1.51291	1.60661	0.400	-6.2	30.0	Averaged
49 trans-1,3-Dichloropropene	0.45353	0.38791	0.100	14.5	30.0	Averaged
50 1,1,2-Trichloroethane	0.19505	0.19773	0.100	-1.4	30.0	Averaged
51 Tetrachloroethene	0.34263	0.36304	0.100	-6.0	30.0	Averaged
52 2-Hexanone	0.08102	0.08106	0.010	0.0	40.0	Averaged
53 Dibromochloromethane	0.32918	0.31367	0.100	4.7	30.0	Averaged
54 1,2-Dibromoethane	0.20005	0.17991	0.010	10.1	40.0	Averaged
55 Chlorobenzene	0.95799	1.01248	0.500	-5.7	30.0	Averaged
56 Ethylbenzene	1.80133	1.88201	0.100	-4.5	30.0	Averaged
57 m,p-Xylene	0.66517	0.69527	0.300	-4.5	30.0	Averaged
58 o-Xylene	0.63847	0.69191	0.300	-8.4	30.0	Averaged
59 Styrene	0.85958	0.93305	0.300	-8.5	30.0	Averaged
60 Bromoform	0.32739	0.30319	0.050	7.4	30.0	Averaged
61 Isopropylbenzene	1.81307	1.90721	0.010	-5.2	40.0	Averaged
62 1,1,2,2-Tetrachloroethane	0.21085	0.21316	0.100	-1.1	30.0	Averaged
63 1,3-Dichlorobenzene	1.52234	1.40642	0.400	7.6	30.0	Averaged
64 1,4-Dichlorobenzene	1.44235	1.41778	0.400	1.7	30.0	Averaged
65 1,2-Dichlorobenzene	1.20846	1.19991	0.400	0.7	30.0	Averaged
66 1,2-Dibromo-3-chloropropane	0.09395	0.06664	0.010	29.1	40.0	Averaged
67 1,2,4-Trichlorobenzene	0.93551	0.72793	0.200	22.2	30.0	Averaged
68 1,2,3-Trichlorobenzene	0.74858	0.59767	0.200	20.2	30.0	Averaged

VOA SEDD SUBMISSION FORM 13637 MA 1391-1 TRW 09/13/07

SDG: Y3ES6 *Service ID: 1391-1 enter during Step 1

TR #: 9-05301129 00-082007-0001

HOLD BLANK (HSN): 1363706

MISC. SAMPLE (HSN): 149330, 149518, 149670, 149929, 150443
(Place a comma between HSNs, without any space, if entering more than one)

PRESERVATIVE: FREEZE (HCL)
(SOIL SAMPLES) (WATER SAMPLES)

TEMPERATURE: 4.9

FRACTION: (VOA TRACE) VOA LOW/MED VOA - SIM

EPA REGION: 9

CASE #: 36678

PE SAMPLES: —

ZIP FILE #:

Construction: ✓ 09113107 9:45pm

SEDD OUTPUT ✓ ✓ ✓
(Form 5/.lst)

Parsing: ✓ → ↓ 9:45pm 10:10pm

Step1: 10:15pm 11:13p—

Step2:

Step3:

Step4:

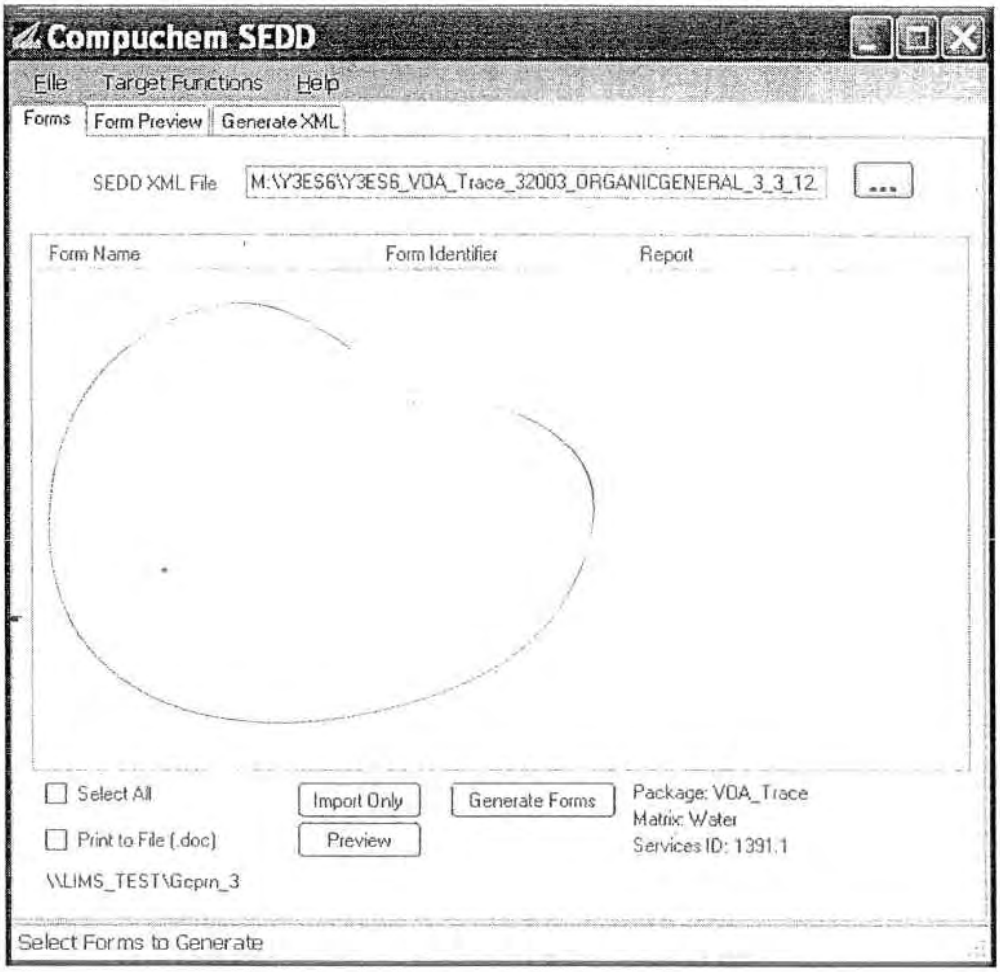
Printed forms:

Comments:

09/13/07 1137pm

Y3ES6 36678 VOA TRACE 1391.1 – No Form Selection option to Generate Reports (printing forms)

XML file is: 12



13637

Y3ES6 - 36678

Flex 1391.1

can't Generate Forms

Due Today

Printing to GCPRNS

Kerry,

Y3ES6 36678 VOA TRACE 1391.1 - Modified Ref No. is missing on all forms

I haven't checked the forms, but I noticed that "Modified Ref No." is missing on all forms.

Thanks,

Saroj

Also, 'tertiary butyl alcohol' is missing on form 1 for all samples.

Sorry

Y3ES6 1391.1
tertiary butyl alcohol
75-65-0

1427.1 THF

1391 1 Cap

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363701

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363701A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. _____ Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) 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
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.15	JB
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	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
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
Y3ES6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363701

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363701A90

Level: (TRACE/LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. _____ Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	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
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-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
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	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
87-61-6	1,2,3-Trichlorobenzene	0.50	U

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFBUT

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: _____ SDG No.: Y3ES6

Lab File ID: BG070912B73 BFB Injection Date: 09/12/2007

Instrument ID: 5972HP73 BFB Injection Time: 19:11

GC Column: SPB-624 ID: 0.32 (mm)

VMS 1449

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	0.0	
75	30.0 - 80.0% of mass 95	0.0	
95	Base peak, 100% relative abundance	0.0	
96	5.0 - 9.0% of mass 95	0.0	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120% of mass 95	0.0	
175	5.0 - 9.0% of mass 174		(0.0)1
176	95.0 - 101% of mass 174	0.0	(0.0)1
177	5.0 - 9.0% of mass 176	0.0	(0.0)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.5UT	GS070912B73	GS070912B73	09/12/2007	20:37
02	VSTD001UT	GT070912B73	GT070912B73	09/12/2007	21:07
03	VSTD020UT	GU070912B73	GU070912B73	09/12/2007	21:37
04	VSTD010UT	GV070912B73	GV070912B73	09/12/2007	22:06
05	VSTD005UT	GW070912B73	GW070912B73	09/12/2007	22:36
06	VBLKUT	150443	150443B73	09/12/2007	23:11
07	VHBLKYE	1363706	1363706B73	09/12/2007	23:48
08	VSTD005UT	GZ070912B73	GZ070912B73	09/13/2007	00:23
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ES6

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): Water Lab Sample ID: 1363701

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363701A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/21/2007

% Moisture: not dec. Date Analyzed: 08/23/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: ~~25000~~ (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

SAS

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	14.82	0.67	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

From: Origin ID: SNAA (714)429-2050
Mike Palm
CH2MHILL
3 Hutton Centre Drive, Suite 200

Santa Ana, CA 92707

FedEx Express

CLS852987/21/23

Ship Date: 20AUG07
ActWgt: 30 LB Dimmed: 24 X 14 X 14 IN
System#: 1844877/INET2600
Account#: S *********

Delivery Address Bar Code

Ref # 335379.Fi.03
Invoice #
PO #
Dept #

SHIP TO: (919)379-4080 **BILL THIRD PARTY**

Joan Purdie
Liberty Analytical Corporation
501 Madison Avenue

Cary, NC 27513

TRK# 0201 7996 9651 5519

TUE - 21AUG A1
PRIORITY OVERNIGHT

RDU
NC-US
27513

XH-SOPA

J. Purdie
8.21.07
4.9

ORIGINAL

Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

556

From: Origin ID: SNAA (714)429-2050
Mike Palm
CH2MHILL
3 Hutton Centre Drive, Suite 200

Santa Ana, CA 92707

FedEx Express

CLS852997/21/23

Ship Date: 21AUG07
ActWgt: 50 LB Dimmed: 24 X 14 X 14 IN
System#: 1844877/INET2600
Account#: S *********

Delivery Address Bar Code

Ref # 335379.FI.03
Invoice #
PO #
Dept #

SHIP TO: (919)379-4080 **BILL THIRD PARTY**

Joan Purdie
Liberty Analytical Corporation
501 Madison Avenue

Cary, NC 27513

TRK# 0201 7917 4515 0110

WED - 22AUG A1
PRIORITY OVERNIGHT

RDU
NC-US
27513

XH-SOPA

J. Purdie
8-22-07
3:9

ORIGINAL

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From: Origin ID: SNAA (714)429-2050
Mike Palm
CH2MHILL
3 Hutton Centre Drive, Suite 200

Santa Ana, CA 92707

FedEx Express

CLS052307/21/23

Ship Date: 22AUG07
ActWgt: 20 LB Dimmed: 18 X 14 X 14 IN
System#: 1844877/INET2600
Account#: S *********

Delivery Address Bar Code

Ref # 335379.FI.03
Invoice #
PO #
Dept #

SHIP TO: (919)379-4080 **BILL THIRD PARTY**

Joan Purdie
Liberty Analytical Corporation
501 Madison Avenue

Cary, NC 27513

TRK# 0201 7924 0181 2713

THU - 23AUG A1
PRIORITY OVERNIGHT

RDU
NC-US
27513

XH-SOPA

J. Purdie
8.23.07
3.6

ORIGINAL

Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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CompuChem
a division of Liberty Analytical Corp.

Sample Delivery Group (SDG)
Cover Sheet

SDG Number Y3ES6

MA 139.1
TRACE VOA

Laboratory Name CompuChem Laboratory Code LIBRTY

Contract No. EPW05028 Case No. 36678

Analysis Price NA SDG Turnaround 21

EPA Sample Numbers in SDG (Listed in Numerical Order)

1)	Y3ES6	7)	Y3ET2	13)	Y3ET8	19)	
2)	Y3ES7	8)	Y3ET3	14)	Y3ET9	20)	
3)	Y3ES8	9)	Y3ET4	15)	Y3EW0	21)	
4)	Y3ES9	10)	Y3ET5	16)	Y3EW1	22)	
5)	Y3ET0	11)	Y3ET6	17)	Y3ET2MS	23)	
6)	Y3ET1	12)	Y3ET7	18)	Y3ET2MSD	24)	

Y3ES6
First Sample in SDG

Y3ET1
Last Sample in SDG

8/21/2007
First Sample Receipt Date

8/28/2007
Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Joan Rundle Date 08/27/07

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	36678
DAS No:	
SDG No:	Y3ES6

L

561

Date Shipped:	8/20/2007	**Chain of Custody Record**	Sampler Signature:
Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Airbill:	799696515519	1 5.20.07 1500	8.21.07 9:00
Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
		3	
		4	

For Lab Use Only

Lab Contract No: EPW05028

Unit Price: NA

Transfer To:

Lab Contract No:

Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3ES6	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	1	S: 8/20/2007	10:40		Good
Y3ES7	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	2	S: 8/20/2007	11:40		
Y3ES8	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	3	S: 8/20/2007	12:50		
Y3ES9	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	4	S: 8/20/2007	14:00		
Y3ET0	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	5	S: 8/20/2007	13:45		

ORIGINAL

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.9°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ / Shipment Iced? ✓

VOA = CLP TCL Volatiles

TR Number: 9-530112900-082007-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36678
DAS No:
SDG No: Y3ES6

L

Date Shipped:	8/21/2007
Carrier Name:	FedEx
Airbill:	791745150110
Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	Mike Palm	8/21/07 1300	Joan Purdie	8.22.07 855
2				
3				
4				

Sampler Signature: Mike Palm

For Lab Use Only

Lab Contract No: EP005028
Unit Price: NA
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3ET1	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	6	S: 8/21/2007	8:45	Did not rec. 8.27.07	Good
Y3ET2	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (6)	7	S: 8/21/2007	9:35		
Y3ET3	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	8	S: 8/21/2007	10:40		
Y3ET4	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	9	S: 8/21/2007	11:10		
Y3ET5	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	10	S: 8/21/2007	12:30		

ORIGINAL

Sample Y3ET1 was sent on 8.28.07
No TR/COC was sent with sample on 8.28.07 8.28.07

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
	Y3ET2		3.9°C		
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G		**Custody Seal Intact?** ✓	**Shipment Iced?** ✓
VOA = CLP TCL Volatiles					

TR Number: 9-530112900-082107-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36678
DAS No:
SDG No: Y3ES6 L

Date Shipped:	8/22/2007
Carrier Name:	FedEx
Airbill:	792401812713
Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1		8/22/07 1500	Joan Purdie	8.23.07 1045
2				
3				
4				

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW06028
Unit Price: NA 8.23.07
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3ET6	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	11	S: 8/22/2007	8:50		Good
Y3ET7	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	12	S: 8/22/2007	9:40		
Y3ET8	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	13	S: 8/22/2007	10:25		
Y3ET9	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	14	S: 8/22/2007	10:45		
Y3EW0	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	15	S: 8/22/2007	11:25		
Y3EW1	Ground Water/ Mike Palm	L/G	VOA (21)	(HCL) (3)	16	S: 8/22/2007	12:00		

ORIGINAL

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.6	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

VOA = CLP TCL Volatiles

TR Number: 9-530112900-082207-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

564

CompuChem, a Division of Liberty Analytical Corp.- EPA ORGANIC RECEIVING LOG

Client / Account EPA	Rec'd Date 8.21.07	Comments:
Case No: 36678	Courier Fed-Ex	
Temp Blk in cooler? Yes / (No)	Airbill No. 796965155519	MA 1391.1
Temperature: 4.9		
Tags? Yes / (No)		
Custody Seals? (Yes) / No Intact? (Yes) / No		

COOLER REC'D BY: J. Ruddie	REVIEWED BY:
Samples Logged in by: J. Ruddie	SDG #: Y3E56
Number of TR's? 1	Work Order No.: 13637
Return Airbill in cooler? (Yes) / No	

No.	Sample No.	Client ID	QC	Matrix	Sample Date	Sample Time	T. VOC	VOC	VOC SIM	SVOC	SIM	PEST	AR	Amount/Containers
1	136701	Y3E56		WQ	8.20.07	1040	X							3-40mls
2	2	7				1140								
3	3	8				1250								
4	4	9				1400								
5	5	TO				1345								
6	6	YE												
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

8/21/07

CompuChem, a Division of Liberty Analytical Corp.- EPA ORGANIC RECEIVING LOG

Client / Account EPA	Rec'd Date 8·22·07	Comments:
Case No: 36678	Courier Fed-X	
Temp Blk in cooler? Yes / No	Airbill No. 791745150110	
Temperature: 3.9		
Tags? Yes / No		
Custody Seals? Yes / No Intact? Yes / No		

COOLER REC'D BY: J. Purdie	REVIEWED BY: [signature]
Samples Logged in by: J. Purdie	SDG #: Y35E6
Number of TR's? 1	Work Order No.: 13637
Return Airbill in cooler? Yes / No	

No.	Sample No.	Client ID	QC	Matrix	Sample Date	Sample Time	T. VOC	VOC	VOC SIM	SVOC	SIM	PEST	AR	Amount/Containers
1	~~136370 7~~	~~Y3ET1~~		~~WA~~	~~8·21·07~~	~~845~~	~~X~~							~~3-40mls~~ Did not rec. JP 8-22-07
2	136378/9/10	2	X			935								6-40mls
3	11	3				1040								3-40mls
4	12	4				1110								
5	13	5				1230								
6														
7														
8														
9														
10														
11														
12														
13														
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16														
17														
18														
19														
20														

JP 8/22/07

566

CompuChem, a Division of Liberty Analytical Corp.- EPA ORGANIC RECEIVING LOG

Client / Account EPA	Rec'd Date 8·23·07	Comments:
Case No: 36678	Courier Fed-x	
Temp Blk in cooler? Yes / (No)	Airbill No. 792401812713	
Temperature: 3.6		
Tags? Yes / (No)		
Custody Seals? (Yes) / No Intact? (Yes) / No		

COOLER REC'D BY: J. Purdue	REVIEWED BY:
Samples Logged in by: J. Purdue	SDG #: Y3SE6
Number of TR's? 1	Work Order No.: 13637
Return Airbill in cooler? (Yes) / No	

No.	Sample No.	Client ID	QC	Matrix	Sample Date	Sample Time	T. VOC	VOC	VOC SIM	SVOC	SIM	PEST	AR	Amount/Containers
1	1363714	Y3ET6		WQ	8·22·07	850	X							3-40mls
2	15	7				940								
3	16	8				1025								
4	17	9				1045								
5	18	W0				1125								
6	19	1				1200								
7														
8														
9														
10														
11														
12										8·23·07				
13														
14														
15														
16														
17														
18														
19														
20														

567

CompuChem, a Division of Liberty Analytical Corp.- EPA ORGANIC RECEIVING LOG

Client / Account EPA	Rec'd Date 8.28.07	Comments:
Case No: 36678	Courier Fed-X	
Temp Blk in cooler? Yes / No	Airbill No. 6919 4910 5034	
Temperature: 4.7		
Tags? Yes / No		
Custody Seals? Yes / No Intact? Yes / No		

COOLER REC'D BY: J. Lurdes	REVIEWED BY: 8.28.07
Samples Logged in by: J. Lurdes	SDG #: ~~YE~~ Y3E6
Number of TR's?	Work Order No.: 13637
Return Airbill in cooler? Yes / No	

No.	Sample No.	Client ID	QC	Matrix	Sample Date	Sample Time	T: VOC	VOC	VOC SIM	SVOC	SIM	PEST	AR	Amount/Containers
1	13637-20	Y3ET1		WQ	8.21.07	845	X							3-40mls
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

8.28.07

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 13637 **Account:** EPA **Project:** EPW05028

SDG-Case: Y3ES6-36678 **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD

Report Style: COMPUCHEM STYLE 9 INTEGRATED WITH EDD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
1363701	Y3ES6	8/20/2007	8/21/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363702	Y3ES7	8/20/2007	8/21/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363703	Y3ES8	8/20/2007	8/21/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363704	Y3ES9	8/20/2007	8/21/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363705	Y3ET0	8/20/2007	8/21/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363706	VHBLKYE	8/20/2007	8/21/2007	9/17/2007	SOM01.2--STORAGE BLK
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363708	Y3ET2	8/21/2007	8/22/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA--USE ORIG. FOR QC
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363709	Y3ET2MS	8/21/2007	8/22/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA--MS
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363710	Y3ET2MSD	8/21/2007	8/22/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA--MSD
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363711	Y3ET3	8/21/2007	8/22/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363712	Y3ET4	8/21/2007	8/22/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363713	Y3ET5	8/21/2007	8/22/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363714	Y3ET6	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 13637 **Account:** EPA **Project:** EPW05028

SDG-Case: Y3ES6-36678 **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD

Report Style: COMPUCHEM STYLE 9 INTEGRATED WITH EDD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363715	Y3ET7	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363716	Y3ET8	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363717	Y3ET9	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363718	Y3EW0	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363719	Y3EW1	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363720	Y3ET1	8/21/2007	8/28/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA--SAMPLE IS LISTED ON THE TR/COC RECIVED ON 8/22/07 BUT DID NOT ARRIVE TO LAB UNTIL 8/28/07--END OF SDG
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/21/2007
Received By(Signature)	Joan Purdie		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.Custody Seal(s)	Present/Absent*	1 Y3ES6	NO TAGS	1363701	RECD.IN GOOD CONDITION
	Intact/Broken	2 Y3ES7	NO TAGS	1363702	RECD.IN GOOD CONDITION
2.Custody Seal Nos.	NA	3 Y3ES8	NO TAGS	1363703	RECD.IN GOOD CONDITION
		4 Y3ES9	NO TAGS	1363704	RECD.IN GOOD CONDITION
3.Traffic Reports/	Present/Absent*	5 Y3ET0	NO TAGS	1363705	RECD.IN GOOD CONDITION
Chain of Custody		6			
Records (TR/COCs)		7			
or Packing Lists		8			
4. Airbill	Airbill/Sticker	9			
	Present/Absent*	10			
5. Airbill No.	799696515519	11			
		12			
6. Sample Tags	Present/Absent*	13			
Sample Tag Numbers	Listed/ Not Listed on	14			
	Chain-of-Custody	15			
7. Sample Condition	Intact/Broken*/Leaking	16			
		17			8/21/2007
8. Cooler Temperature	Present/Absent*	18			
Indicator Bottle		19			
9. Cooler Temperature	4.9 cc	20			
		21			
10.Does information onTR/COCs	Yes/No*	22			
and sample tags		23			
agree?		24			
11.Date Received at Laboratory	8/21/2007	25			
		26			
12.Time Received	9:00	27			
Sample Transfer		28			
Fraction VOA	Fraction	29			
Area# REF#4	Area#	30			
By JP	By 8/21/2007	31			
On 8/21/2007	On	32			
*Contact SMO and attach record of resolution.		33			

Reviewed BY	**Logbook No.**
Date 8/21/2007	**Logbook Page No.**

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SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/22/2007
Received By(Signature)	Joan Purdee		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

1.Custody Seal(s)	Present/Absent*
	Intact/Broken
2.Custody Seal Nos.	NA
3.Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker
	Present/Absent*
5. Airbill No.	791745150110
6. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/ Not Listed on Chain-of-Custody
7. Sample Condition	Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	3.9 oc
10.Does information onTR/COCs and sample tags agree?	Yes/No*
11.Date Received at Laboratory	8/22/2007
12.Time Received	8:55

Sample Transfer			
Fraction	VOA	Fraction	
Area#	REF#4	Area#	
By	JP	By	
On	8/22/2007	On	8/22/2007

*Contact SMO and attach record of resolution.

Reviewed BY	
Date 8/22/2007	

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	Y3ET2	NO TAGS	1363708	RECD.IN GOOD CONDITION
2	Y3ET2MS	NO TAGS	1363709	RECD.IN GOOD CONDITION
3	Y3ET2MS	NO TAGS	1363710	RECD.IN GOOD CONDITION
4	Y3ET3	NO TAGS	1363711	RECD.IN GOOD CONDITION
5	Y3ET4	NO TAGS	1363712	RECD.IN GOOD CONDITION
6	Y3ET5	NO TAGS	1363713	RECD.IN GOOD CONDITION
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				8/22/2007
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33				

Logbook No.	
Logbook Page No.	

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SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/23/2007
Received By(Signature)	Joan Purdie		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.Custody Seal(s)	Present/Absent*	1 Y3ET6	NO TAGS	1363714	RECD.IN GOOD CONDITION
	Intact/Broken	2 Y3ET7	NO TAGS	1363715	RECD.IN GOOD CONDITION
2.Custody Seal Nos.	NA	3 Y3ET8	NO TAGS	1363716	RECD.IN GOOD CONDITION
		4 Y3ET9	NO TAGS	1363717	RECD.IN GOOD CONDITION
3.Traffic Reports/	Present/Absent*	5 Y3EW0	NO TAGS	1363718	RECD.IN GOOD CONDITION
Chain of Custody		6 Y3EW1	NO TAGS	1363719	RECD.IN GOOD CONDITION
Records (TR/COCs)		7			
or Packing Lists		8			
4. Airbill	Airbill/Sticker	9			
	Present/Absent*	10			
5. Airbill No.	792401812713	11			
		12			
6. Sample Tags	Present/Absent*	13			
Sample Tag Numbers	Listed/ Not Listed on	14			
	Chain-of-Custody	15			8/23/2007
7. Sample Condition	Intact/Broken*/Leaking	16			
		17			
8. Cooler Temperature	Present/Absent*	18			
Indicator Bottle		19			
9. Cooler Temperature	3.6 °C	20			
		21			
10.Does information onTR/COCs	Yes/No	22			
and sample tags		23			
agree?		24			
11.Date Received at Laboratory	8/23/2007	25			
		26			
12.Time Received	8:55	27			
Sample Transfer		28			
Fraction VOA	Fraction	29			
Area# REF#4	Area#	30			
By JP	By	31			
On 8/23/2007	On 8/23/2007	32			
*Contact SMO and attach record of resolution.		33			

Reviewed BY	**Logbook No.**
Date 8/23/2007	**Logbook Page No.**

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SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/28/2007
Received By(Signature)	Joan Purdie		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.Custody Seal(s)	Present/Absent*	1 Y3ET1	NO TAGS	1363720	RECD.IN GOOD CONDITION
	Intact/Broken	2			
2.Custody Seal Nos.	NA	3			
		4			
3.Traffic Reports/	Present/Absent*	5			
Chain of Custody		6			
Records (TR/COCs)		7			
or Packing Lists		8			
4. Airbill	Airbill/Sticker	9			
	Present/Absent*	10			
5. Airbill No.	691949105034	11			
		12			
6. Sample Tags	Present/Absent*	13			
Sample Tag Numbers	Listed/ Not Listed on	14			
	Chain-of-Custody	15			8/28/2007
7. Sample Condition	Intact/Broken*/Leaking	16			
		17			
8. Cooler Temperature	Present/Absent*	18			
Indicator Bottle		19			
9. Cooler Temperature	4.7	20			
		21			
10.Does information onTR/C0Cs	Yes/No*	22			
and sample tags		23			
agree?		24			
11.Date Received at Laboratory	8/28/2007	25			
		26			
12.Time Received	9:00	27			
Sample Transfer		28			
Fraction VOA	Fraction	29			
Area# REF#4	Area#	30			
By JP	By	31			
On 8/28/2007	On	32			
*Contact SMO and attach record of resolution.		33			

Reviewed BY	**Logbook No.**
Date 8/28/2007	**Logbook Page No.**

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Request for Quote (RFQ) for Modified Analysis

Date: July 27, 2007

Subject: Modification Reference Number: 1391.1
Title: R9-TertButylAlcohol
Sample Matrix: Water
Fraction Affected: TVOA
Statement of Work: SOM01.X

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Organic Statement of Work (SOW) SOM01.X, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW SOM01.X remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW SOM01.X.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

The requirements in the RFQ are as stated and any defects will be assessed by SMO per the laboratory contract. The Laboratory should take this into account when submitting their quote.

Notice to Contractors: Acceptance of Modified Analysis samples will not count against the monthly capacity.

Modification to the SOW Specifications:

SOW SOM01.X requires Laboratories to analyze water samples for volatile organic compounds through the protocol outlined in Exhibit D, Trace Volatile method. Specific Trace Volatile target analytes and their associated Contract Required Quantitation Limits (CRQLs) are listed in Exhibit C, Section 1.0 pages C-5 and C-6 of SOW SOM01.X. The proposed modification will require the Laboratory to analyze samples for the same target analytes listed in Section 1.0 on pages C-5 and C-6, with the following additional requirements.

One additional analyte shall be added to the target analyte list: tertiary butyl alcohol (CAS # 75-65-0). This additional analyte shall have a CRQL of 5 ug/L.

If tertiary butyl alcohol is undetected, the Laboratory shall report at the CRQL specified in this modified analysis, even if the Laboratory is able to achieve a lower limit.

For initial calibration, opening and closing continuing calibration purposes, the additional analyte may either be added to the original calibration standards or may be analyzed as a single analyte. Of the 5 initial calibration standards and the opening and closing continuing calibration standards, the lowest calibration standard shall have a concentration at or below the CRQL.

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW SOM01.X. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via e-mail at CCSSupport@fedcsc.com for resolution.

All samples and/or fractions assigned to an SDG shall be analyzed under the same Modified Analysis requirements as established in this memorandum. The Laboratory shall not include data from multiple Modified Analyses in one SDG.

The Laboratory shall include the Modification Reference Number 1391.1 on each hardcopy data form under the "Mod. Ref. No." header appearing on each form as well as the data element "ServicesID" under the "SamplePlusMethod" node of the EDD. This should be done for the fractions affected by the modified analysis only. The "ServicesID" field should remain blank for all other fractions reported in the SDG. The Laboratory shall also document the Modification Reference Number and the Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name: LIBRTY
Laboratory Comments:

Joan Purdie

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Friday, August 24, 2007 12:58 PM
To: cdover@compuchemlabs.com; aevans@compuchemlabs.com; bmeierer@compuchemlabs.com; jpurdie@compuchemlabs.com
Cc: R9RSCC@epamail.epa.gov; Kramer, Caroline
Subject: Region 09 | Case 36678 | Lab LIBRTY | Issue Samples listed on TR/COC but not received at laboratory | FINAL

36678-08-22-07.PDF

Joan,

Caroline is out of the office. This is Gale.

Summary Start
Issue: Sample Y3ET1 was listed on the TR/COC, but was not received by the laboratory.
Resolution: Per Region 9, PLEASE NOTE THIS IN THE SDG NARRATIVE AND PROCEED WITH THE ANALYSIS. SAMPLER NOTIFIED.
Summary End

Please let me know if you have any questions.

Gale E. Maruska
Environmental Scientist
Computer Sciences Corporation
Ph: 703-818-4125
Fax: 703-818-4601

-----Original Message-----
From: Odonnell.Mary@epamail.epa.gov [mailto:Odonnell.Mary@epamail.epa.gov] On Behalf Of R9RSCC@epamail.epa.gov
Sent: Friday, August 24, 2007 12:16 PM
To: Kramer, Caroline
Cc: mike.palm@ch2m.com
Subject: Re: (8-21) | Case 36678 | Lab LIBRTY | Issue Sample listed on TR/COC but not received at laboratory

PLEASE SEE BELOW.

MIke, FYI.....please send any response directly to Caroline Kramer with cc to r9rscc@epa.gov

Thanks,

Mary

****
Mary O'Donnell
Region 9 RSCC
EPA Region 9 Laboratory
Office: 510-412-2389
Fax: 510-412-2302
email: R9RSCC@epa.gov
****

"Kramer, Caroline" <ckramer5@fedcsc To

.com>

Mary ODonnell/R9/USEPA/US@EPA,
R9RSCC@EPA

08/22/2007 11:07 AM

cc

Subject
(8-21) | Case 36678 | Lab LIBRTY | Issue Sample listed on TR/COC but not received at laboratory

Mary,
LIBRTY is reporting the following issue regarding Case 36678. Please advise on how the lab should proceed.

Issue: Sample Y3ET1 was listed on the TR/COC, but was not received by the laboratory.

PLEASE NOTE THIS IN THE SDG NARRATIVE AND PROCEED WITH THE ANALYSIS. SAMPLER NOTIFIED.

Please let me know if you have any questions or problems.
thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: jpurdie@compuchemlabs.com [mailto:jpurdie@compuchemlabs.com]
Sent: Wednesday, August 22, 2007 1:21 PM
To: Kramer, Caroline
Subject: REGION 9|C#36678|ISSUE

Caroline,
I did not receive sample id Y3ET1 that is listed on the TR/COC. See attached.
<<36678-08-22-07.PDF>>

Thank you,
Joan Purdie
Contract Co-ordinator
CompuChem/Liberty
919-379-4081
jpurdie@compuchemlabs.com

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(See attached file: 36678-08-22-07.PDF)

Joan Purdie

From: Kramer, Caroline [ckramer5@fedcsc.com]
Sent: Tuesday, August 28, 2007 4:16 PM
To: jpurdie@compuchemlabs.com
Cc: Mary O'Donnell; R9
Subject: Region 09 | Case 36678 | Lab LIBRTY | Issue Multiple | FINAL

Joan,
Summary Start
-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC list Y3EW1 but the lab received a sample labeled Y3EW6. The station location, sampling date, and sampling time matches
Y3EW1.
Resolution 1: Per Region 9, the laboratory should report the samples as Y3EW1, note the issue in the SDG Narrative and proceed with the analysis of the sample.

-Missing temperature blank-
Issue 2: there was no temperature blank received with the samples, the temperature was determined to be 3.6C using an IR gun.
Resolution 2: In accordance with previous direction from Region 9, the laboratory will note the issue, and the method used to determine the temperature in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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From: Benjamin.Lechler@ch2m.com [mailto:Benjamin.Lechler@ch2m.com]
Sent: Tuesday, August 28, 2007 4:08 PM
To: Bauer.Richard@epamail.epa.gov
Cc: Kramer, Caroline
Subject: RE: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Hi All, Please report these as Y3EW1. Sorry for the confusion. - BJ

Benjamin J. Lechler, P.G.
Associate Hydrogeologist
CH2M HILL/SCO
(direct) 714-435-6283
(cell) 714-697-4203
(fax) 714-424-2233

From: Bauer.Richard@epamail.epa.gov [mailto:Bauer.Richard@epamail.epa.gov]
Sent: Tuesday, August 28, 2007 12:49 PM
To: Lechler, Benjamin/SCO
Cc: ckramer5@fedcsc.com
Subject: Fw: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Hi BJ:

Should Alhambra sample #16 (collected 8/22/07 at 12:00) be reported as Y3EW6 or as Y3EW1. COC says one thing and vials say the other. Please let me know ASAP.

****
Richard Bauer
U.S. EPA Region 9 Laboratory
1337 South 46th Street, Bldg 201
Richmond, CA 94804
(510) 412-2312
****

---- Forwarded by Richard Bauer/R9/USEPA/US on 08/28/2007 12:05 PM ----

"Kramer, Caroline" <ckramer5@fedcsc.com>

08/28/2007 09:02 AM

To Mary ODonnell/R9/USEPA/US@EPA, R9RSCC@EPA

cc

Subject FW: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Rich,
This issue is still outstanding; could you please provide a resolution for issue 1 when you get a chance?
Thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, August 23, 2007 11:28 AM
To: Mary O'Donnell; R9
Subject: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Mary,
LIBRTY is reporting the following issues regarding Case 36678. Issue 2 can be resolved using a standard answer, however please advise on how the lab should proceed for issue 1.

-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC list Y3EW1 but the lab received a sample labeled Y3EW6. The station location, sampling date, and sampling time matches Y3EW1 (see attached TR).

-Missing temperature blank-
Issue 2: there was no temperature blank received with the samples, the temperature was determined to be 3.6C using an IR gun.

8/28/2007

Resolution 2: In accordance with previous direction from Region 9, the laboratory will note the issue, and the method used to determine the temperature in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any question or problems.
thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: jpurdie@compuchemlabs.com [mailto:jpurdie@compuchemlabs.com]
Sent: Thursday, August 23, 2007 11:03 AM
To: Kramer, Caroline
Subject: REGION 9|C#36678|ISSUE

Caroline,
The TR/COC list Y3EW1 but I received a sample labeled Y3EW6. The station location,sampling date, and sampling time matches Y3EW1. See attached.
No temperature blank is present in cooler 3.6 degrees was determined using
IR GUN and containers as all temperatures have been determined since this
Case started on 8/21/07.

<<36678-08-23-07.PDF>>

Thank you,
Joan Purdie
Contract Co-ordinator
CompuChem/Liberty
919-379-4081
jpurdie@compuchemlabs.com

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CompuChem
A Division Of
Liberty Analytical Corp.

MEMORANDUM

TO: Santiago Lee, ESAT/ICF Consulting, Inc.

FROM: Bob Meierer

SUBJECT: Response to Communication Record Log for Case 36678/SDG Y3ES6

DATE: October 18, 2007

On October 16, 2007, a Communication Record Log was received regarding Case 36678/SDG Y3ES6. A copy of the Communication Record Log is included in Attachment 1. The following are responses to the issues raised.

1. The reviewer commented that there was a tentatively identified compound (TIC), co-eluting with cis-1,2-dichloroethene, in three samples (Y3ET7, Y3ET8, and Y3ET9). This was based on the observation of the presence of ions at m/e of 70, 79, and 88 in the spectra of the cis-1,2-dichloroethene in the three samples. The request was made to identify the TIC in each of the three samples and submit revised Forms 1J and mass spectra for the TIC.

   The amended Forms 1J, TIC quantitation reports, and library search spectra for the TIC in the three samples are included in Attachment 2.

2. The reviewer indicated that Trace volatile standard preparation information was missing from the data package. The reviewer further stated that Region 9 requires the information in order to fully validate the data. The standards information should include the expiration dates for the standards, preparation dates, lot numbers, standard sources, concentrations and volumes of spiking and LCS solutions.

   As indicated in responses to previous requests for standards information, the volatile standards are mostly identified by Group Standard ID#s that appear on the volatile GC/MS run logs. Copies of these run logs are contained in the Sample Data Package submitted for the subject SDG. A separate logbook presents the individual standards that comprise the Group Standard ID. For EPA CLP work involving the analyses of samples associated with the SOM01.2 SOW, an "SO" group designation is used. The Group Standard ID# for the analyses associated with SDG Y3ES6 was SO49 Trace. As seen on the logbook pages in Attachment 3, much of the information is different than what has been supplied before to the Region. The majority of the standards are taken directly from ampulated material. In the past, ampulated standards were used to prepare intermediates and details of the preparation of those intermediates were included in copies of other standard preparation logbook pages. That approach is still used for the preparation of the "SOM01 Internal

Standard," "EPA CLP Spiking Solution (LCS & MS)," and "Sample Surrogate" standards, designated on the Group Standard logbook pages. Copies of the standard preparation logbook pages containing the individual standard ID numbers comprising those components of the Group Standards are also included in Attachment 3. The BFB lot number used for SDG Y3ES6 was 65295. BFB standard preparation information is included with the Group Standard ID packet in Attachment 3.

As a point of clarification, the following information is offered, regarding the "SO" Group Standard logbook page:

- Standards with Lot Numbers beginning with "A" are purchased from Restek, while standards with Lot Numbers beginning with "PR" are purchased from Cambridge Isotope Laboratories, Inc.
- The SOM01.1 Internal Standard is at a concentration of 2500 ug/mL.
- The DMC Spiking Solution A (Non-Ketones) is at a concentration of 1000 ug/mL.
- The DMC Spiking Solution B (Ketones) is at a concentration of 5 mg/mL.
- The DMC Spiking Solution C (1,4-Dioxane) is at a concentration of 12.5 mg/mL. (Not used.)
- The SOM01 Calibration Mixture 1 (Mega Mix) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 2 (Gases) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 3 (Ketones) is at a concentration of 5000 ug/mL.
- The 1,4-Dioxane is at a concentration of 2000 ug/mL. (Not used.)
- The tertiary butyl alcohol is at a concentration of 50,000 ug/mL.

The individual standards in the standard preparation logbook have been highlighted for easier review.

I hope this response adequately addresses the issue raised in the Communication Record Log for Case 36678/SDG Y3ES6. If there are any additional issues or questions, please contact us.

ATTACHMENT 1

Communication Record Log for Case 36678/SDG Y3ES6

Bob Meierer

From: Lee.Santiago@epamail.epa.gov
Sent: Tuesday, October 16, 2007 7:34 PM
To: bmeierer@compuchemlabs.com
Cc: Remaley.Steve@epamail.epa.gov; Fong.Rose@epamail.epa.gov; Lindelof.Doug@epamail.epa.gov
Subject: Fw: In Reference to 36678, Y3ES6, TV; CompuChem

----- Forwarded by Santiago Lee/R9/USEPA/US on 10/16/2007 04:32 PM -----

Steve Remaley/R9/USEPA/US
10/16/2007 04:27 PM

To: Santiago Lee/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: Re: In Reference to 36678, Y3ES6, TV; CompuChem(Document link: Santiago Lee)

OK to send.
Steve

Santiago Lee/R9/USEPA/US
10/16/2007 04:14 PM

To: Steve Remaley/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: In Reference to 36678, Y3ES6, TV; CompuChem

Hi, Steve,
Please review. Thanks.

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Communication Record Log

Laboratory Name: CompuChem

Lab Contact: Bob Meierer

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Santiago Lee, ESAT/LDC

Call Initiated By: Laboratory X Region

In Reference to data for Case No. 36678, SDG No. Y3ES6, Trace Volatiles.

Summary of Questions/issues Discussed:

The following items were noted during the review of this sample delivery group (SDG) data package. Please respond within 7 days as specified in SOM01.1 Statement of Work (SOW), Exhibit B, Section 2.2.2. Send responses and resubmissions to:

ICF International/Laboratory Data Consultants, Inc.,
Environmental Services Assistance Team, USEPA Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804; FAX 510 412-2304.
Attention: Santiago Lee/LDC

1. For samples Y3ET7, Y3ET8, and Y3ET9, there is a tentatively identified compound (TIC) co-eluting with cis-1,2-dichloroethene (with ions at m/e of 70, 79, and 88; see p. 199, 214, and 228 in data package). Please identifiy this TIC and submit revised Form 1J and mass spectra for samples listed above.

2. In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard source (name of vendor), concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be Determined.

ATTACHMENT 2

Amended Data for Case 36678/SDG Y3ES6

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-45-6	Methane, chlorodifluoro-	4.01	2.4	NJ
02		Unknown	8.67	1.9	J
03	556-67-2	Cyclotetrasiloxane, octamethyl-	13.04	0.62	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Lab Smp Id: 1363715 Client Smp ID: Y3ET7
Inj Date : 24-AUG-2007 11:55
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363715:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.836	1007811	125.000
* 2 Chlorobenzene-d5	12.342	1201583	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Methane, chlorodifluoro- $$ Algeon 22 $$				CAS #: 75-45-6			
4.008	486674	60.3626901	2.4	90	NBS129K.1	735	1
Unknown				CAS #:			
8.668	373290	46.2995075	1.9	0		0	1(L)

AMENDED DATA 10-19-07

201

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
13.036	147950	15.3911335	0.62	91	NBS129K.1	125682	2

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

201A

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

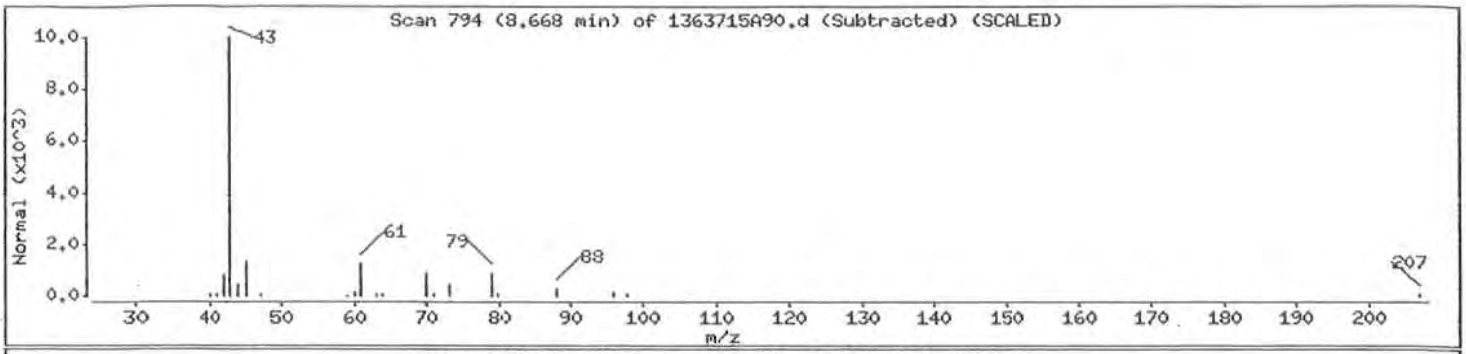
Client ID: Y3ET7 Instrument: 5973hp90.i

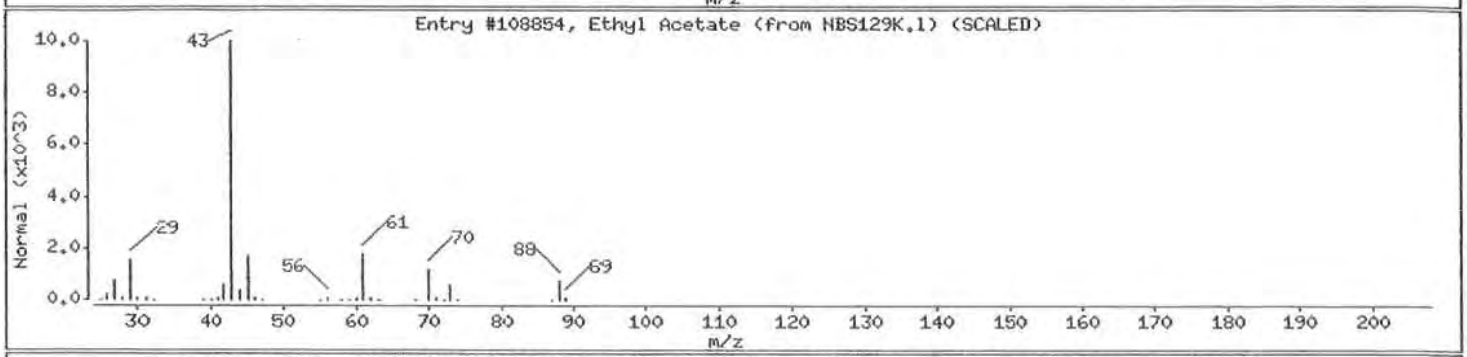
Sample Info: 1363715;2481

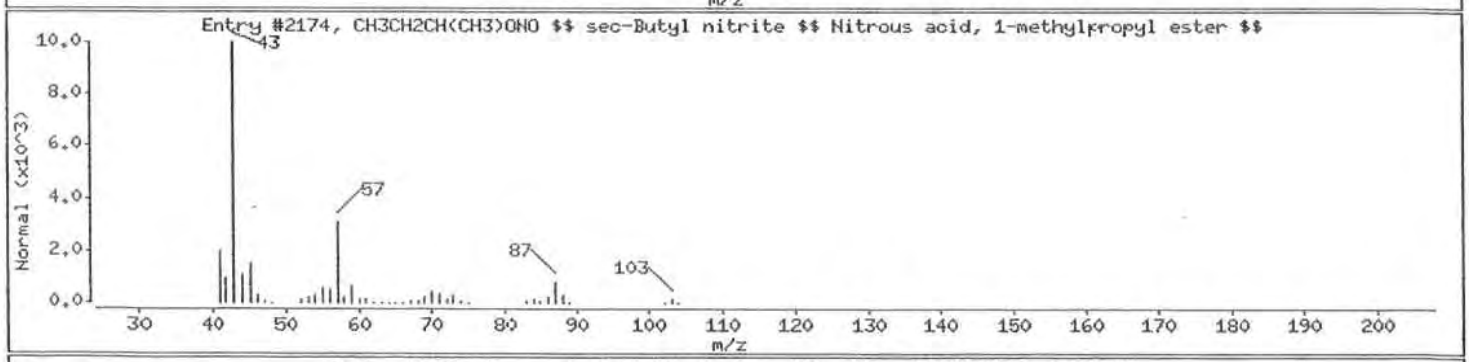
Purge Volume: 25.0 Operator: 2481

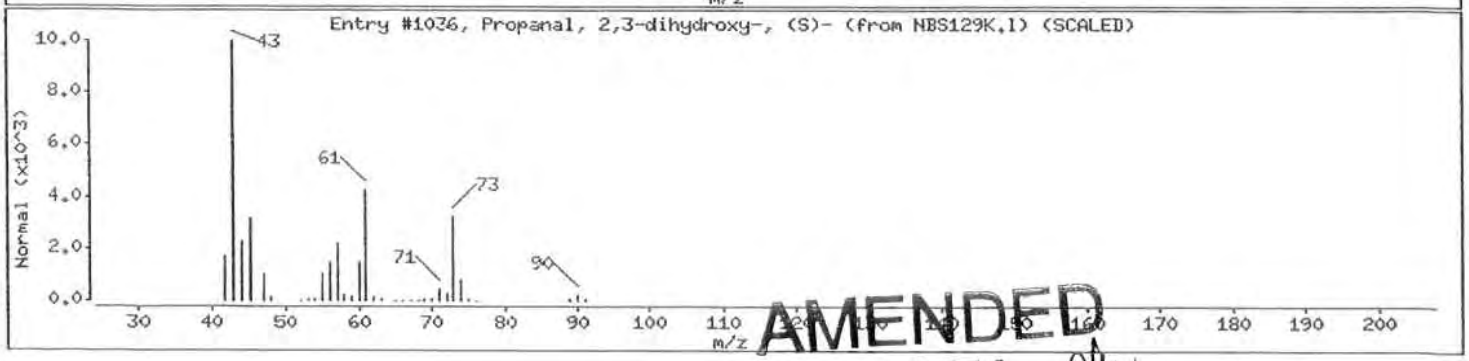
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethyl Acetate	141-78-6	NBS129K.l	108854	35	C4H8O2	88
CH3CH2CH(CH3)ONO $$ sec-Butyl nitrite $$	924-43-6	NBS129K.l	2174	9	C4H9NO2	103
Propanal, 2,3-dihydroxy-, (S)-	497-09-6	NBS129K.l	1036	9	C3H6O3	90









AMENDED DATA 10-19-07

ZOZA

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	7.0	J
02		Unknown	8.69	3.5	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-18-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 17-Oct-2007 18:47

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Lab Smp Id: 1363716 Client Smp ID: Y3ET8
Inj Date : 27-AUG-2007 11:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363716:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 2
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	1022247	125.000

	CONCENTRATIONS		QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.002	570619	69.7751134	7.0	0		0	1
Unknown			CAS #:				
8.686	283971	34.7238389	3.5	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

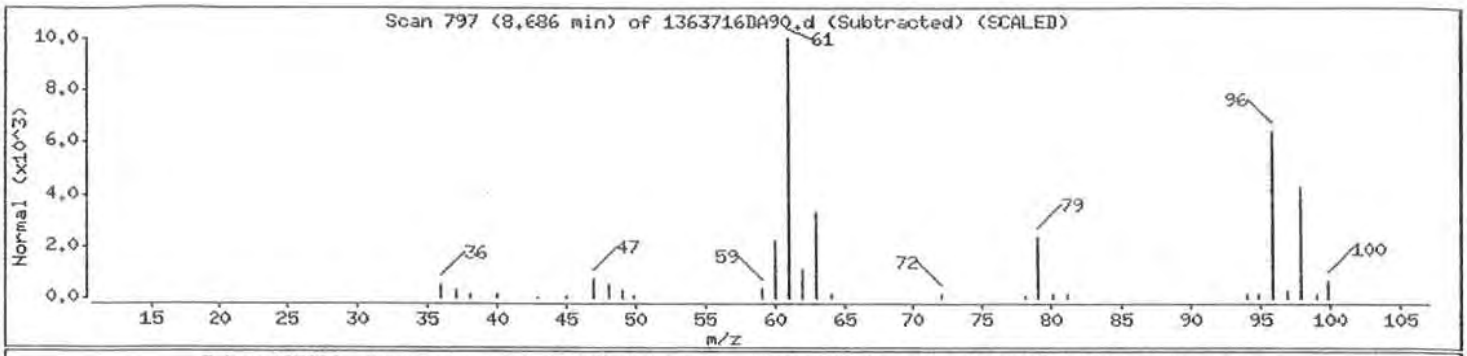
Client ID: Y3ET8 Instrument: 5973hp90.i

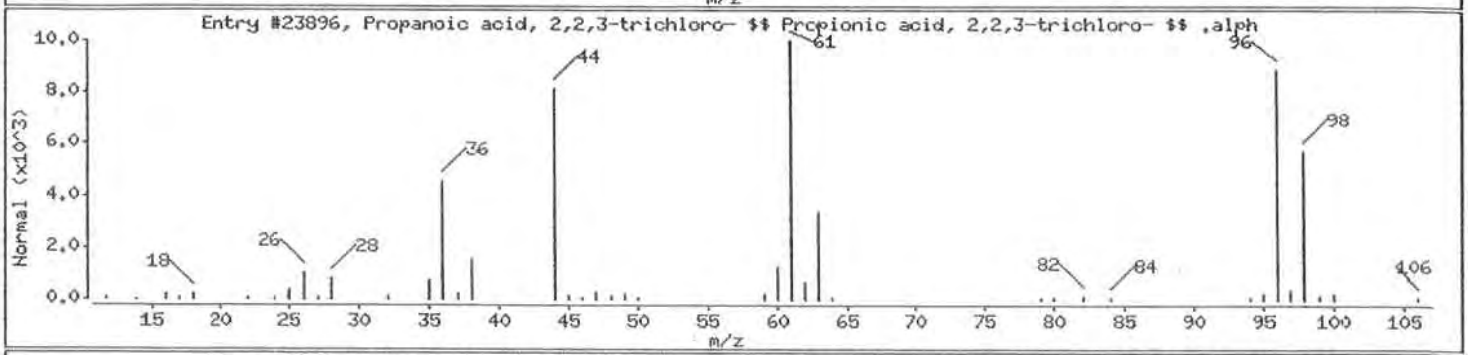
Sample Info: 1363716:2481

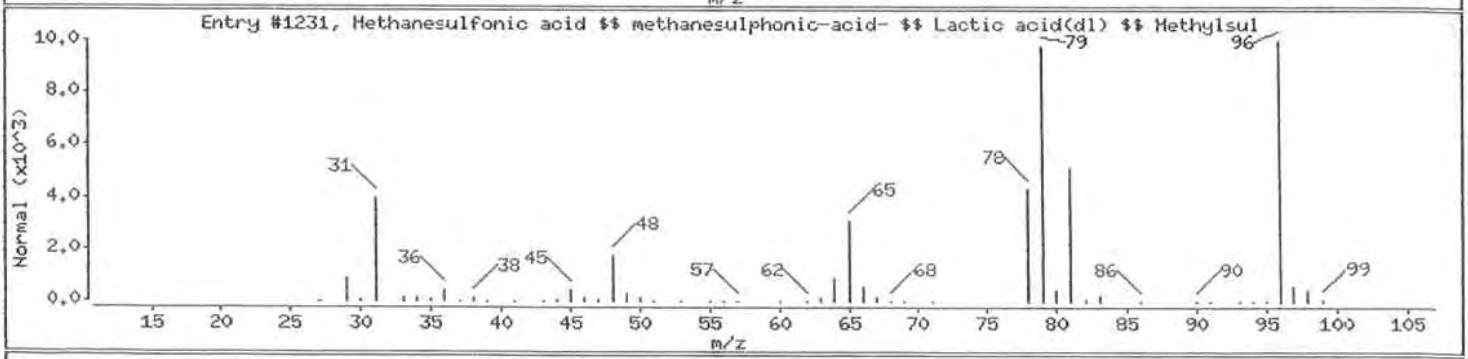
Purge Volume: 25.0 Operator: 2481

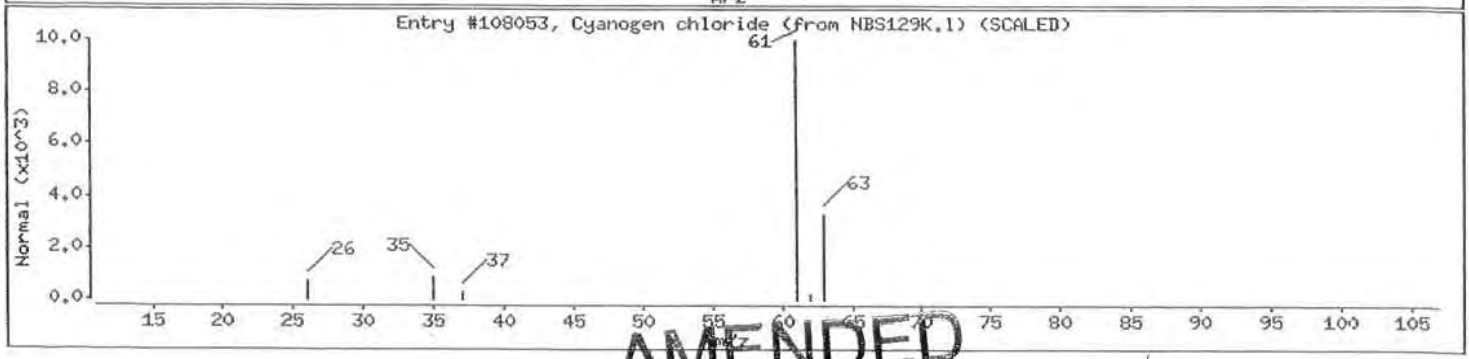
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2,2,3-trichloro- $$ Prop	3278-46-4	NBS129K.l	23896	64	C3H3Cl302	176
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	25	CH403S	96
Cyanogen chloride	506-77-4	NBS129K.l	108053	9	CClN	61









AMENDED DATA 10-19-07

218A

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363717

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363717DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	6.1	J
02		Unknown	8.68	3.4	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA DCN 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 17-Oct-2007 18:48

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Lab Smp Id: 1363717 Client Smp ID: Y3ET9
Inj Date : 27-AUG-2007 12:08
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363717:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 3
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.838	1004871	125.000

	CONCENTRATIONS		QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.004	493374	61.3727255	6.1	0		0	1
Unknown			CAS #:				
8.682	275878	34.3176149	3.4	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

231

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

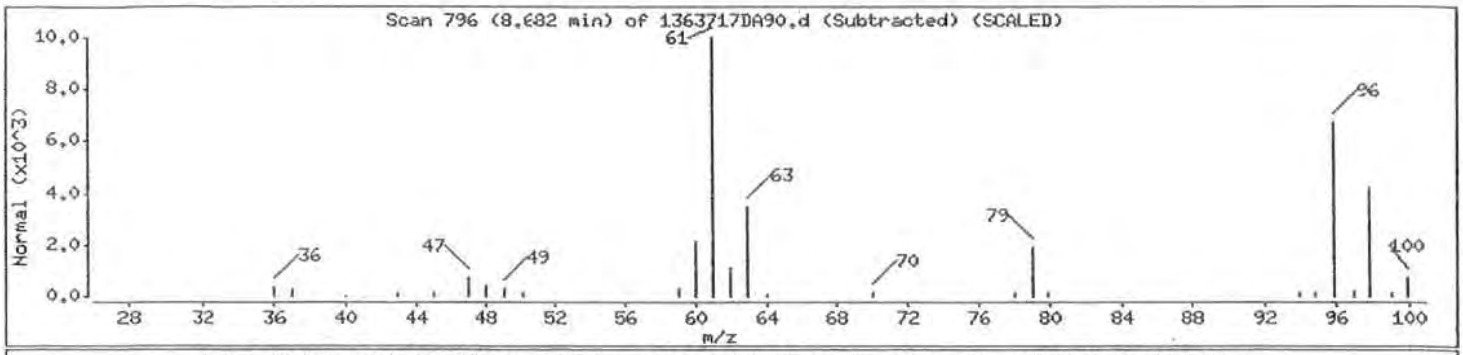
Client ID: Y3ET9 Instrument: 5973hp90.i

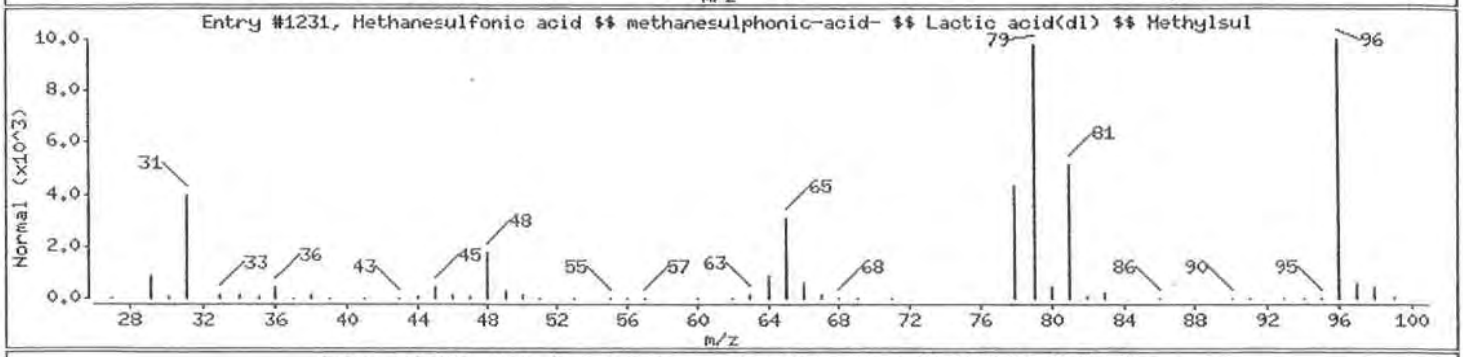
Sample Info: 1363717:2481

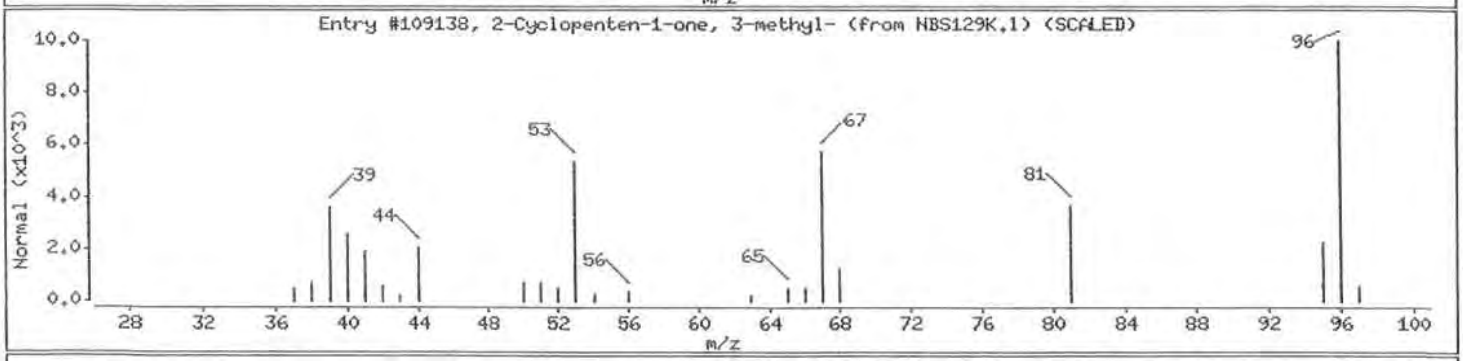
Purge Volume: 25.0 Operator: 2481

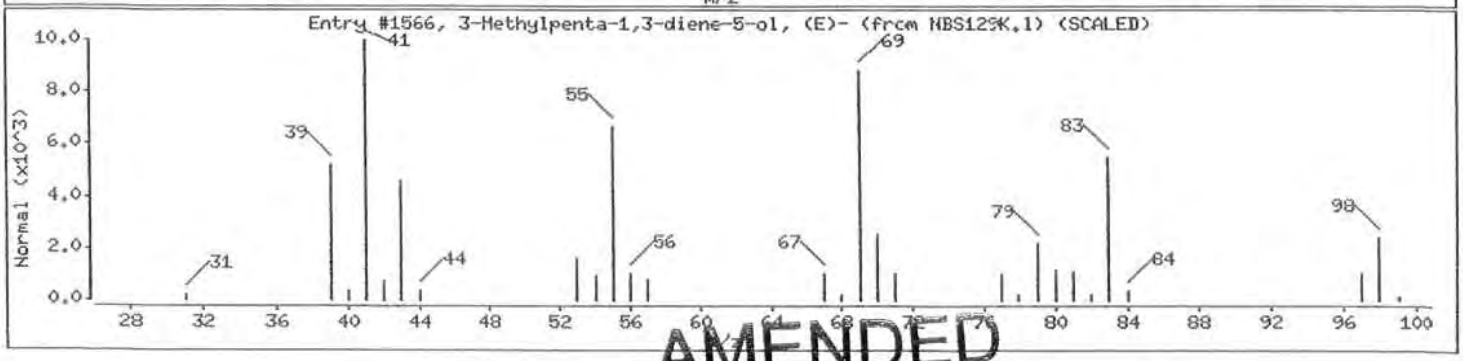
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	5	CH4O3S	96
2-Cyclopenten-1-one, 3-methyl-	2758-18-1	NBS129K.l	109138	5	C6H8O	96
3-Methylpenta-1,3-diene-5-ol, (E)-	1572-08-3	NBS129K.l	1566	4	C6H10O	98









AMENDED DATA 10-19-07

232A

CompuChem
A Division Of
Liberty Analytical Corp.

MEMORANDUM

TO: Santiago Lee, ESAT/ICF Consulting, Inc.

FROM: Bob Meierer

SUBJECT: Response to Communication Record Log for Case 36678/SDG Y3ES6

DATE: October 18, 2007

On October 16, 2007, a Communication Record Log was received regarding Case 36678/SDG Y3ES6. A copy of the Communication Record Log is included in Attachment 1. The following are responses to the issues raised.

1. The reviewer commented that there was a tentatively identified compound (TIC), co-eluting with cis-1,2-dichloroethene, in three samples (Y3ET7, Y3ET8, and Y3ET9). This was based on the observation of the presence of ions at m/e of 70, 79, and 88 in the spectra of the cis-1,2-dichloroethene in the three samples. The request was made to identify the TIC in each of the three samples and submit revised Forms 1J and mass spectra for the TIC.

   The amended Forms 1J, TIC quantitation reports, and library search spectra for the TIC in the three samples are included in Attachment 2.

2. The reviewer indicated that Trace volatile standard preparation information was missing from the data package. The reviewer further stated that Region 9 requires the information in order to fully validate the data. The standards information should include the expiration dates for the standards, preparation dates, lot numbers, standard sources, concentrations and volumes of spiking and LCS solutions.

   As indicated in responses to previous requests for standards information, the volatile standards are mostly identified by Group Standard ID#s that appear on the volatile GC/MS run logs. Copies of these run logs are contained in the Sample Data Package submitted for the subject SDG. A separate logbook presents the individual standards that comprise the Group Standard ID. For EPA CLP work involving the analyses of samples associated with the SOM01.2 SOW, an "SO" group designation is used. The Group Standard ID# for the analyses associated with SDG Y3ES6 was SO49 Trace. As seen on the logbook pages in Attachment 3, much of the information is different than what has been supplied before to the Region. The majority of the standards are taken directly from ampulated material. In the past, ampulated standards were used to prepare intermediates and details of the preparation of those intermediates were included in copies of other standard preparation logbook pages. That approach is still used for the preparation of the "SOM01 Internal

Standard," "EPA CLP Spiking Solution (LCS & MS)," and "Sample Surrogate" standards, designated on the Group Standard logbook pages. Copies of the standard preparation logbook pages containing the individual standard ID numbers comprising those components of the Group Standards are also included in Attachment 3. The BFB lot number used for SDG Y3ES6 was 65295. BFB standard preparation information is included with the Group Standard ID packet in Attachment 3.

As a point of clarification, the following information is offered, regarding the "SO" Group Standard logbook page:

- Standards with Lot Numbers beginning with "A" are purchased from Restek, while standards with Lot Numbers beginning with "PR" are purchased from Cambridge Isotope Laboratories, Inc.
- The SOM01.1 Internal Standard is at a concentration of 2500 ug/mL.
- The DMC Spiking Solution A (Non-Ketones) is at a concentration of 1000 ug/mL.
- The DMC Spiking Solution B (Ketones) is at a concentration of 5 mg/mL.
- The DMC Spiking Solution C (1,4-Dioxane) is at a concentration of 12.5 mg/mL. (Not used.)
- The SOM01 Calibration Mixture 1 (Mega Mix) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 2 (Gases) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 3 (Ketones) is at a concentration of 5000 ug/mL.
- The 1,4-Dioxane is at a concentration of 2000 ug/mL. (Not used.)
- The tertiary butyl alcohol is at a concentration of 50,000 ug/mL.

The individual standards in the standard preparation logbook have been highlighted for easier review.

I hope this response adequately addresses the issue raised in the Communication Record Log for Case 36678/SDG Y3ES6. If there are any additional issues or questions, please contact us.

ATTACHMENT 1

Communication Record Log for Case 36678/SDG Y3ES6

Bob Meierer

From: Lee.Santiago@epamail.epa.gov
Sent: Tuesday, October 16, 2007 7:34 PM
To: bmeierer@compuchemlabs.com
Cc: Remaley.Steve@epamail.epa.gov; Fong.Rose@epamail.epa.gov; Lindelof.Doug@epamail.epa.gov
Subject: Fw: In Reference to 36678, Y3ES6, TV; CompuChem

----- Forwarded by Santiago Lee/R9/USEPA/US on 10/16/2007 04:32 PM -----

Steve Remaley/R9/USEPA/US
10/16/2007 04:27 PM

To: Santiago Lee/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: Re: In Reference to 36678, Y3ES6, TV; CompuChem(Document link: Santiago Lee)

OK to send.
Steve

Santiago Lee/R9/USEPA/US
10/16/2007 04:14 PM

To: Steve Remaley/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: In Reference to 36678, Y3ES6, TV; CompuChem

Hi, Steve,
Please review. Thanks.

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Communication Record Log

Laboratory Name: CompuChem

Lab Contact: Bob Meierer

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Santiago Lee, ESAT/LDC

Call Initiated By: Laboratory X Region

In Reference to data for Case No. 36678, SDG No. Y3ES6, Trace Volatiles.

Summary of Questions/issues Discussed:

The following items were noted during the review of this sample delivery group (SDG) data package. Please respond within 7 days as specified in SOM01.1 Statement of Work (SOW), Exhibit B, Section 2.2.2. Send responses and resubmissions to:

ICF International/Laboratory Data Consultants, Inc.,
Environmental Services Assistance Team, USEPA Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804; FAX 510 412-2304.
Attention: Santiago Lee/LDC

1. For samples Y3ET7, Y3ET8, and Y3ET9, there is a tentatively identified compound (TIC) co-eluting with cis-1,2-dichloroethene (with ions at m/e of 70, 79, and 88; see p. 199, 214, and 228 in data package). Please identifiy this TIC and submit revised Form 1J and mass spectra for samples listed above.

2. In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard source (name of vendor), concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be Determined.

ATTACHMENT 2

Amended Data for Case 36678/SDG Y3ES6

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-45-6	Methane, chlorodifluoro-	4.01	2.4	NJ
02		Unknown	8.67	1.9	J
03	556-67-2	Cyclotetrasiloxane, octamethyl-	13.04	0.62	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Lab Smp Id: 1363715 Client Smp ID: Y3ET7
Inj Date : 24-AUG-2007 11:55
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363715:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.836	1007811	125.000
* 2 Chlorobenzene-d5	12.342	1201583	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Methane, chlorodifluoro- $$ Algeon 22 $$				CAS #: 75-45-6			
4.008	486674	60.3626901	2.4	90	NBS129K.1	735	1
Unknown				CAS #:			
8.668	373290	46.2995075	1.9	0		0	1(L)

AMENDED DATA 10-19-07

201

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
13.036	147950	15.3911335	0.62	91	NBS129K.l	125682	2

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

201A

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

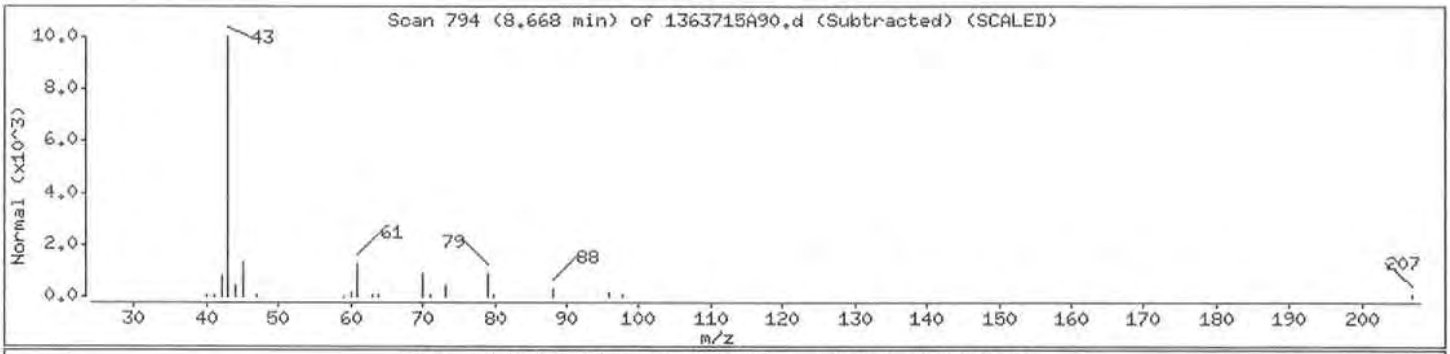
Client ID: Y3ET7 Instrument: 5973hp90.i

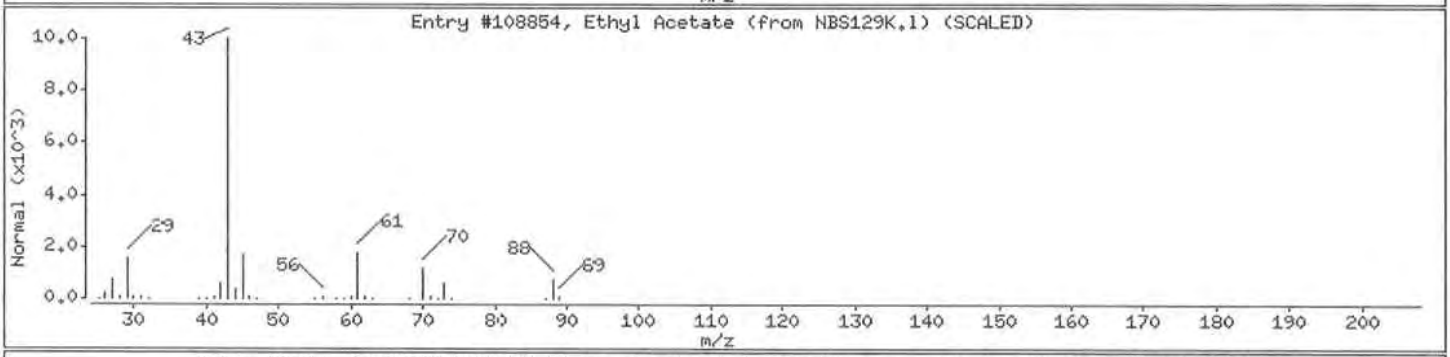
Sample Info: 1363715:2481

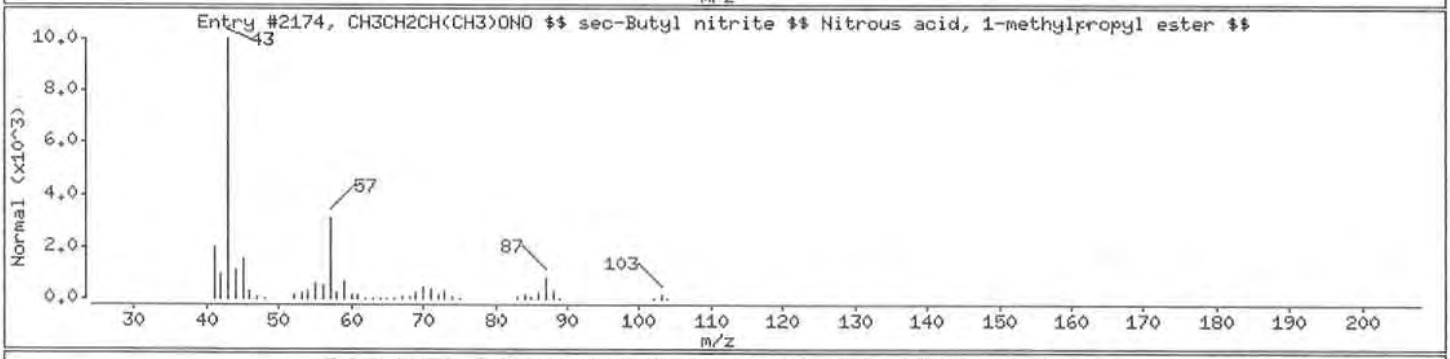
Purge Volume: 25.0 Operator: 2481

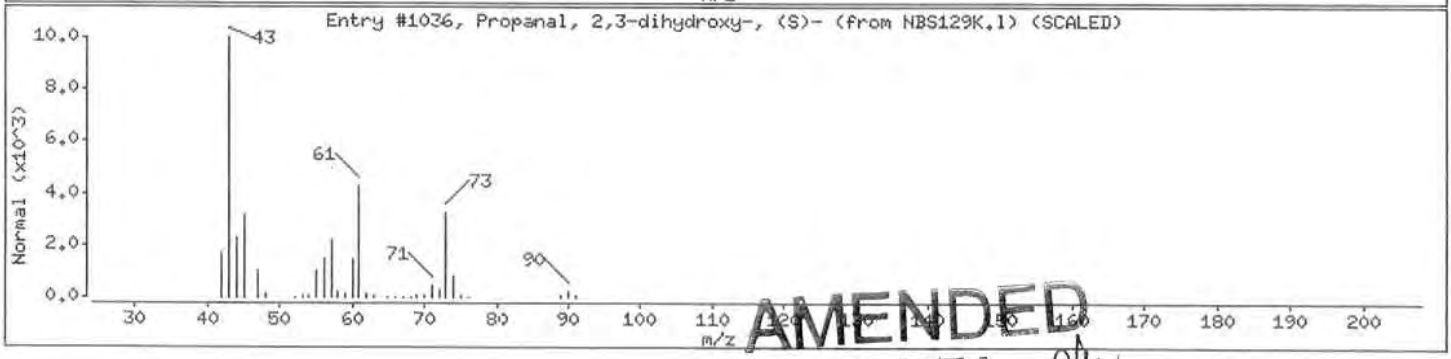
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethyl Acetate	141-78-6	NBS129K.l	108854	35	C4H8O2	88
CH3CH2CH(CH3)ONO $$ sec-Butyl nitrite $$	924-43-6	NBS129K.l	2174	9	C4H9NO2	103
Propanal, 2,3-dihydroxy-, (S)-	497-09-6	NBS129K.l	1036	9	C3H6O3	90









AMENDED DATA 10-19-07

ZOZA

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	7.0	J
02		Unknown	8.69	3.5	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-18-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 17-Oct-2007 18:47

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Lab Smp Id: 1363716 Client Smp ID: Y3ET8
Inj Date : 27-AUG-2007 11:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363716:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 2
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	1022247	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.002	570619	69.7751134	7.0	0		0	1
Unknown				CAS #:			
8.686	283971	34.7238389	3.5	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

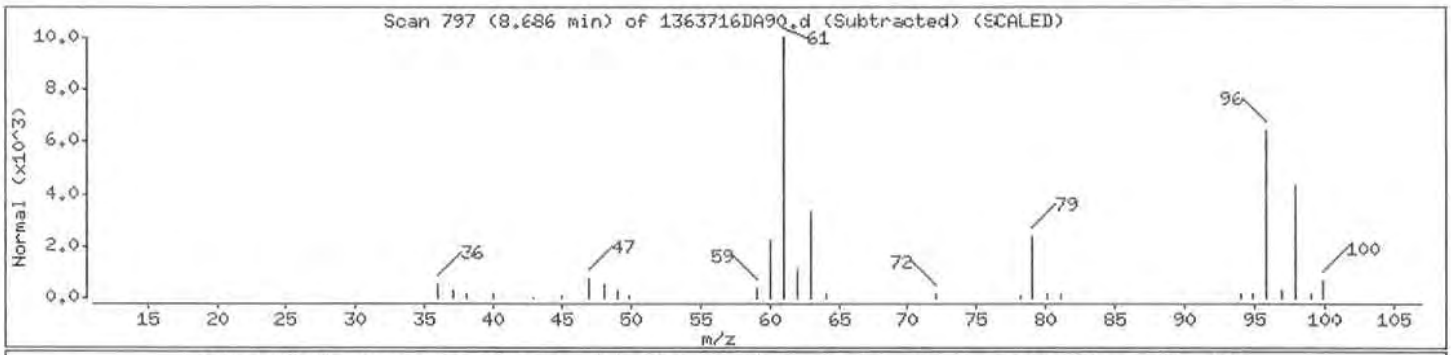
Client ID: Y3ET8 Instrument: 5973hp90.i

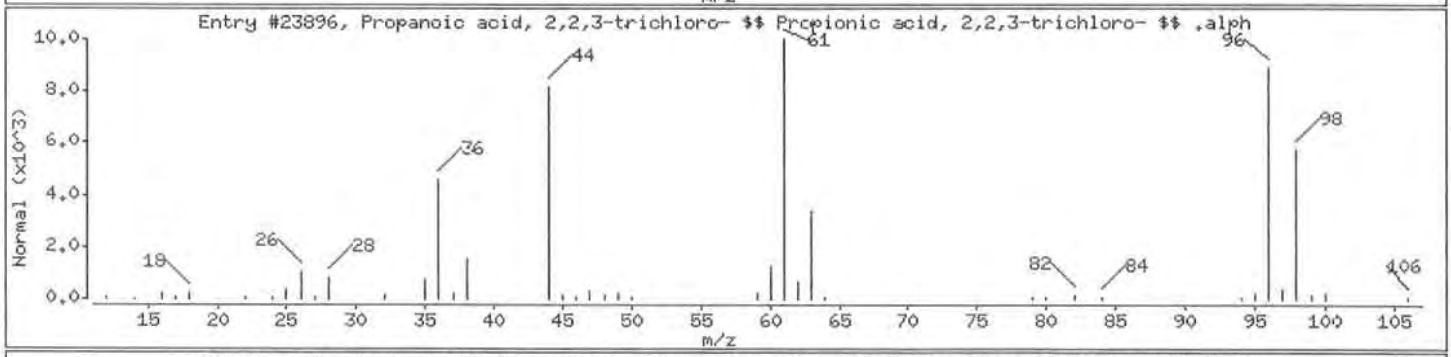
Sample Info: 1363716:2481

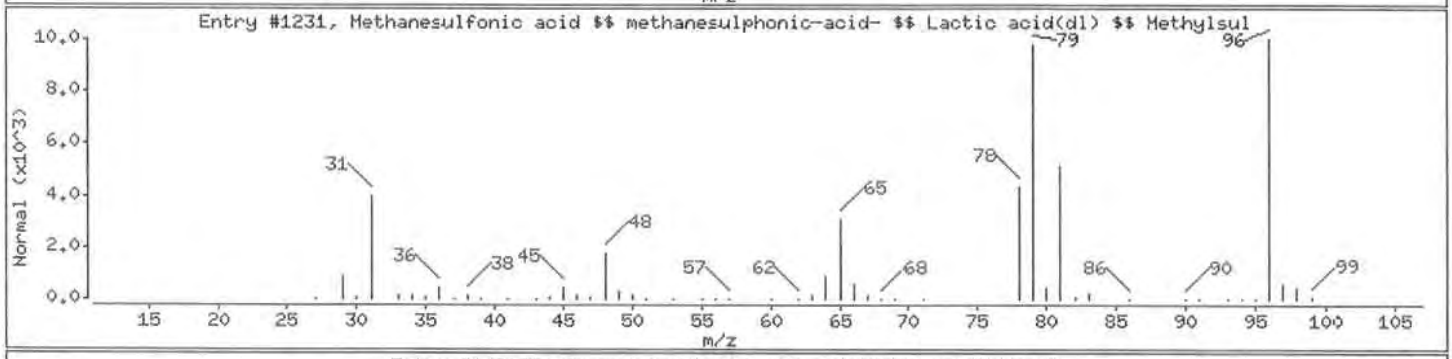
Purge Volume: 25.0 Operator: 2481

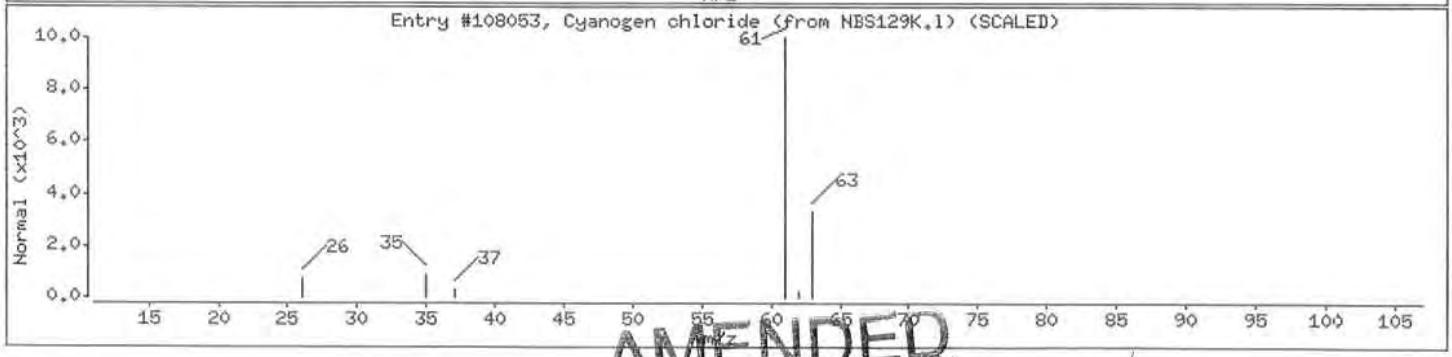
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2,2,3-trichloro- $$ Prop	3278-46-4	NBS129K.l	23896	64	C3H3Cl3O2	176
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	25	CH4O3S	96
Cyanogen chloride	506-77-4	NBS129K.l	108053	9	CClN	61









AMENDED DATA 10-19-07

21BA

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 13637 **Account:** EPA **Project:** EPW05028

SDG-Case: Y3ES6-36678 **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD

Report Style: COMPUCHEM STYLE 9 INTEGRATED WITH EDD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363715	Y3ET7	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363716	Y3ET8	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363717	Y3ET9	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363718	Y3EW0	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363719	Y3EW1	8/22/2007	8/23/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			
1363720	Y3ET1	8/21/2007	8/28/2007	9/17/2007	SOM01.2--SEE MA 1391.1--TRACE VOA--SAMPLE IS LISTED ON THE TR/COC RECIVED ON 8/22/07 BUT DID NOT ARRIVE TO LAB UNTIL 8/28/07--END OF SDG
W	VM.SOM02.T	EPA VOC SOM01.2 TRACE WATER			

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/21/2007
Received By(Signature)	Joan Purdie		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.Custody Seal(s)	Present/Absent*	1 Y3ES6	NO TAGS	1363701	RECD.IN GOOD CONDITION
	Intact/Broken	2 Y3ES7	NO TAGS	1363702	RECD.IN GOOD CONDITION
2.Custody Seal Nos.	NA	3 Y3ES8	NO TAGS	1363703	RECD.IN GOOD CONDITION
		4 Y3ES9	NO TAGS	1363704	RECD.IN GOOD CONDITION
3.Traffic Reports/	Present/Absent*	5 Y3ET0	NO TAGS	1363705	RECD.IN GOOD CONDITION
Chain of Custody		6			
Records (TR/COCs)		7			
or Packing Lists		8			
4. Airbill	Airbill/Sticker	9			
	Present/Absent*	10			
5. Airbill No.	799696515519	11			
		12			
6. Sample Tags	Present/Absent*	13			
Sample Tag Numbers	Listed/ Not Listed on	14			
	Chain-of-Custody	15			
7. Sample Condition	Intact/Broken*/Leaking	16			
		17			8/21/2007
8. Cooler Temperature	Present/Absent*	18			
Indicator Bottle		19			
9. Cooler Temperature	4.9 cc	20			
		21			
10.Does information onTR/COCs	Yes/No*	22			
and sample tags		23			
agree?		24			
11.Date Received at Laboratory	8/21/2007	25			
		26			
12.Time Received	9:00	27			
Sample Transfer		28			
Fraction VOA	Fraction	29			
Area# REF#4	Area#	30			
By JP	By 8/21/2007	31			
On 8/21/2007	On	32			
*Contact SMO and attach record of resolution.		33			

Reviewed BY	**Logbook No.**
Date 8/21/2007	**Logbook Page No.**

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SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/22/2007
Received By(Signature)	Joan Purdee		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

1.Custody Seal(s)	Present/Absent*
	Intact/Broken
2.Custody Seal Nos.	NA
3.Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker
	Present/Absent*
5. Airbill No.	791745150110
6. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/ Not Listed on Chain-of-Custody
7. Sample Condition	Intact/Broken*/Leaking
8. Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	3.9 oc
10.Does information onTR/COCs and sample tags agree?	Yes/No*
11.Date Received at Laboratory	8/22/2007
12.Time Received	8:55

Sample Transfer			
Fraction	VOA	Fraction	
Area#	REF#4	Area#	
By	JP	By	
On	8/22/2007	On	8/22/2007

*Contact SMO and attach record of resolution.

Reviewed BY	
Date 8/22/2007	

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	Y3ET2	NO TAGS	1363708	RECD.IN GOOD CONDITION
2	Y3ET2MS	NO TAGS	1363709	RECD.IN GOOD CONDITION
3	Y3ET2MS	NO TAGS	1363710	RECD.IN GOOD CONDITION
4	Y3ET3	NO TAGS	1363711	RECD.IN GOOD CONDITION
5	Y3ET4	NO TAGS	1363712	RECD.IN GOOD CONDITION
6	Y3ET5	NO TAGS	1363713	RECD.IN GOOD CONDITION
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				8/22/2007
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				

Logbook No.	
Logbook Page No.	

571

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/23/2007
Received By(Signature)	Joan Purdie		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.Custody Seal(s)	Present/Absent*	1 Y3ET6	NO TAGS	1363714	RECD.IN GOOD CONDITION
	Intact/Broken	2 Y3ET7	NO TAGS	1363715	RECD.IN GOOD CONDITION
2.Custody Seal Nos.	NA	3 Y3ET8	NO TAGS	1363716	RECD.IN GOOD CONDITION
		4 Y3ET9	NO TAGS	1363717	RECD.IN GOOD CONDITION
3.Traffic Reports/	Present/Absent*	5 Y3EW0	NO TAGS	1363718	RECD.IN GOOD CONDITION
Chain of Custody		6 Y3EW1	NO TAGS	1363719	RECD.IN GOOD CONDITION
Records (TR/COCs)		7			
or Packing Lists		8			
4. Airbill	Airbill/Sticker	9			
	Present/Absent*	10			
5. Airbill No.	792401812713	11			
		12			
6. Sample Tags	Present/Absent*	13			
Sample Tag Numbers	Listed/ Not Listed on	14			
	Chain-of-Custody	15			8/23/2007
7. Sample Condition	Intact/Broken*/Leaking	16			
		17			
8. Cooler Temperature	Present/Absent*	18			
Indicator Bottle		19			
9. Cooler Temperature	3.6 °C	20			
		21			
10.Does information onTR/COCs	Yes/No	22			
and sample tags		23			
agree?		24			
11.Date Received at Laboratory	8/23/2007	25			
		26			
12.Time Received	8:55	27			
Sample Transfer		28			
Fraction VOA	Fraction	29			
Area# REF#4	Area#	30			
By JP	By	31			
On 8/23/2007	On 8/23/2007	32			
*Contact SMO and attach record of resolution.		33			

Reviewed BY	**Logbook No.**
Date 8/23/2007	**Logbook Page No.**

572

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name: LIBERTY ANALYTICAL			**Page 1 of 1**
Received By(Print Name)	JOAN PURDIE		**Log-in Date** 8/28/2007
Received By(Signature)	Joan Purdie		
Case Number 36678	**Sample Delivery Group No.** Y3ES6		**Mod. Ref. No.** 1391.1

Remarks: ORIGINAL

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.Custody Seal(s)	Present/Absent*	1 Y3ET1	NO TAGS	1363720	RECD.IN GOOD CONDITION
	Intact/Broken	2			
2.Custody Seal Nos.	NA	3			
		4			
3.Traffic Reports/	Present/Absent*	5			
Chain of Custody		6			
Records (TR/COCs)		7			
or Packing Lists		8			
4. Airbill	Airbill/Sticker	9			
	Present/Absent*	10			
5. Airbill No.	691949105034	11			
		12			
6. Sample Tags	Present/Absent*	13			
Sample Tag Numbers	Listed/ Not Listed on	14			
	Chain-of-Custody	15			8/28/2007
7. Sample Condition	Intact/Broken*/Leaking	16			
		17			
8. Cooler Temperature	Present/Absent*	18			
Indicator Bottle		19			
9. Cooler Temperature	4.7	20			
		21			
10.Does information onTR/C0Cs	Yes/No*	22			
and sample tags		23			
agree?		24			
11.Date Received at Laboratory	8/28/2007	25			
		26			
12.Time Received	9:00	27			
Sample Transfer		28			
Fraction VOA	Fraction	29			
Area# REF#4	Area#	30			
By JP	By	31			
On 8/28/2007	On	32			
*Contact SMO and attach record of resolution.		33			

Reviewed BY	**Logbook No.**
Date 8/28/2007	**Logbook Page No.**

573

Request for Quote (RFQ) for Modified Analysis

Date: July 27, 2007

Subject: Modification Reference Number: 1391.1
Title: R9-TertButylAlcohol
Sample Matrix: Water
Fraction Affected: TVOA
Statement of Work: SOM01.X

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Organic Statement of Work (SOW) SOM01.X, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW SOM01.X remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW SOM01.X.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

The requirements in the RFQ are as stated and any defects will be assessed by SMO per the laboratory contract. The Laboratory should take this into account when submitting their quote.

Notice to Contractors: Acceptance of Modified Analysis samples will not count against the monthly capacity.

Modification to the SOW Specifications:

SOW SOM01.X requires Laboratories to analyze water samples for volatile organic compounds through the protocol outlined in Exhibit D, Trace Volatile method. Specific Trace Volatile target analytes and their associated Contract Required Quantitation Limits (CRQLs) are listed in Exhibit C, Section 1.0 pages C-5 and C-6 of SOW SOM01.X. The proposed modification will require the Laboratory to analyze samples for the same target analytes listed in Section 1.0 on pages C-5 and C-6, with the following additional requirements.

One additional analyte shall be added to the target analyte list: tertiary butyl alcohol (CAS # 75-65-0). This additional analyte shall have a CRQL of 5 ug/L.

If tertiary butyl alcohol is undetected, the Laboratory shall report at the CRQL specified in this modified analysis, even if the Laboratory is able to achieve a lower limit.

For initial calibration, opening and closing continuing calibration purposes, the additional analyte may either be added to the original calibration standards or may be analyzed as a single analyte. Of the 5 initial calibration standards and the opening and closing continuing calibration standards, the lowest calibration standard shall have a concentration at or below the CRQL.

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW SOM01.X. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via e-mail at CCSSupport@fedcsc.com for resolution.

All samples and/or fractions assigned to an SDG shall be analyzed under the same Modified Analysis requirements as established in this memorandum. The Laboratory shall not include data from multiple Modified Analyses in one SDG.

The Laboratory shall include the Modification Reference Number 1391.1 on each hardcopy data form under the "Mod. Ref. No." header appearing on each form as well as the data element "ServicesID" under the "SamplePlusMethod" node of the EDD. This should be done for the fractions affected by the modified analysis only. The "ServicesID" field should remain blank for all other fractions reported in the SDG. The Laboratory shall also document the Modification Reference Number and the Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name: LIBRTY
Laboratory Comments:

Joan Purdie

From: Maruska, Gale [gmaruska@fedcsc.com]
Sent: Friday, August 24, 2007 12:58 PM
To: cdover@compuchemlabs.com; aevans@compuchemlabs.com; bmeierer@compuchemlabs.com; jpurdie@compuchemlabs.com
Cc: R9RSCC@epamail.epa.gov; Kramer, Caroline
Subject: Region 09 | Case 36678 | Lab LIBRTY | Issue Samples listed on TR/COC but not received at laboratory | FINAL

36678-08-22-07.PDF

Joan,

Caroline is out of the office. This is Gale.

Summary Start
Issue: Sample Y3ET1 was listed on the TR/COC, but was not received by the laboratory.
Resolution: Per Region 9, PLEASE NOTE THIS IN THE SDG NARRATIVE AND PROCEED WITH THE ANALYSIS. SAMPLER NOTIFIED.
Summary End

Please let me know if you have any questions.

Gale E. Maruska
Environmental Scientist
Computer Sciences Corporation
Ph: 703-818-4125
Fax: 703-818-4601

-----Original Message-----
From: Odonnell.Mary@epamail.epa.gov [mailto:Odonnell.Mary@epamail.epa.gov] On Behalf Of R9RSCC@epamail.epa.gov
Sent: Friday, August 24, 2007 12:16 PM
To: Kramer, Caroline
Cc: mike.palm@ch2m.com
Subject: Re: (8-21) | Case 36678 | Lab LIBRTY | Issue Sample listed on TR/COC but not received at laboratory

PLEASE SEE BELOW.

MIke, FYI.....please send any response directly to Caroline Kramer with cc to r9rscc@epa.gov

Thanks,

Mary

****
Mary O'Donnell
Region 9 RSCC
EPA Region 9 Laboratory
Office: 510-412-2389
Fax: 510-412-2302
email: R9RSCC@epa.gov
****

"Kramer, Caroline" <ckramer5@fedcsc To

.com>

Mary ODonnell/R9/USEPA/US@EPA,
R9RSCC@EPA

08/22/2007 11:07 AM

cc

Subject
(8-21) | Case 36678 | Lab LIBRTY | Issue Sample listed on TR/COC but not received at laboratory

Mary,
LIBRTY is reporting the following issue regarding Case 36678. Please advise on how the lab should proceed.

Issue: Sample Y3ET1 was listed on the TR/COC, but was not received by the laboratory.

PLEASE NOTE THIS IN THE SDG NARRATIVE AND PROCEED WITH THE ANALYSIS. SAMPLER NOTIFIED.

Please let me know if you have any questions or problems.
thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: jpurdie@compuchemlabs.com [mailto:jpurdie@compuchemlabs.com]
Sent: Wednesday, August 22, 2007 1:21 PM
To: Kramer, Caroline
Subject: REGION 9|C#36678|ISSUE

Caroline,
I did not receive sample id Y3ET1 that is listed on the TR/COC. See attached.
<<36678-08-22-07.PDF>>

Thank you,
Joan Purdie
Contract Co-ordinator
CompuChem/Liberty
919-379-4081
jpurdie@compuchemlabs.com

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(See attached file: 36678-08-22-07.PDF)

Joan Purdie

From: Kramer, Caroline [ckramer5@fedcsc.com]
Sent: Tuesday, August 28, 2007 4:16 PM
To: jpurdie@compuchemlabs.com
Cc: Mary O'Donnell; R9
Subject: Region 09 | Case 36678 | Lab LIBRTY | Issue Multiple | FINAL

Joan,
Summary Start
-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC list Y3EW1 but the lab received a sample labeled Y3EW6. The station location, sampling date, and sampling time matches
Y3EW1.
Resolution 1: Per Region 9, the laboratory should report the samples as Y3EW1, note the issue in the SDG Narrative and proceed with the analysis of the sample.

-Missing temperature blank-
Issue 2: there was no temperature blank received with the samples, the temperature was determined to be 3.6C using an IR gun.
Resolution 2: In accordance with previous direction from Region 9, the laboratory will note the issue, and the method used to determine the temperature in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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From: Benjamin.Lechler@ch2m.com [mailto:Benjamin.Lechler@ch2m.com]
Sent: Tuesday, August 28, 2007 4:08 PM
To: Bauer.Richard@epamail.epa.gov
Cc: Kramer, Caroline
Subject: RE: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Hi All, Please report these as Y3EW1. Sorry for the confusion. - BJ

Benjamin J. Lechler, P.G.
Associate Hydrogeologist
CH2M HILL/SCO
(direct) 714-435-6283
(cell) 714-697-4203
(fax) 714-424-2233

From: Bauer.Richard@epamail.epa.gov [mailto:Bauer.Richard@epamail.epa.gov]
Sent: Tuesday, August 28, 2007 12:49 PM
To: Lechler, Benjamin/SCO
Cc: ckramer5@fedcsc.com
Subject: Fw: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Hi BJ:

Should Alhambra sample #16 (collected 8/22/07 at 12:00) be reported as Y3EW6 or as Y3EW1. COC says one thing and vials say the other. Please let me know ASAP.

****
Richard Bauer
U.S. EPA Region 9 Laboratory
1337 South 46th Street, Bldg 201
Richmond, CA 94804
(510) 412-2312
****

---- Forwarded by Richard Bauer/R9/USEPA/US on 08/28/2007 12:05 PM ----

"Kramer, Caroline" <ckramer5@fedcsc.com>

08/28/2007 09:02 AM

To Mary ODonnell/R9/USEPA/US@EPA, R9RSCC@EPA

cc

Subject FW: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Rich,
This issue is still outstanding; could you please provide a resolution for issue 1 when you get a chance?
Thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, August 23, 2007 11:28 AM
To: Mary O'Donnell; R9
Subject: (8-24) | Case 36678 | Lab LIBRTY | Issue Multiple

Mary,
LIBRTY is reporting the following issues regarding Case 36678. Issue 2 can be resolved using a standard answer, however please advise on how the lab should proceed for issue 1.

-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: The TR/COC list Y3EW1 but the lab received a sample labeled Y3EW6. The station location, sampling date, and sampling time matches Y3EW1 (see attached TR).

-Missing temperature blank-
Issue 2: there was no temperature blank received with the samples, the temperature was determined to be 3.6C using an IR gun.

8/28/2007

Resolution 2: In accordance with previous direction from Region 9, the laboratory will note the issue, and the method used to determine the temperature in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any question or problems.
thank you,

Caroline L. Kramer
Computer Sciences Corporation (CSC)
ckramer5@fedcsc.com
703-818-4248

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-----Original Message-----
From: jpurdie@compuchemlabs.com [mailto:jpurdie@compuchemlabs.com]
Sent: Thursday, August 23, 2007 11:03 AM
To: Kramer, Caroline
Subject: REGION 9|C#36678|ISSUE

Caroline,
The TR/COC list Y3EW1 but I received a sample labeled Y3EW6. The station location,sampling date, and sampling time matches Y3EW1. See attached.
No temperature blank is present in cooler 3.6 degrees was determined using
IR GUN and containers as all temperatures have been determined since this
Case started on 8/21/07.

<<36678-08-23-07.PDF>>

Thank you,
Joan Purdie
Contract Co-ordinator
CompuChem/Liberty
919-379-4081
jpurdie@compuchemlabs.com

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you have received this in error or by mistake. You are notified that disclosing,copying,distributing or taking any acton in reliance on the contents of this information is strictly prohibited.

CompuChem
A Division Of
Liberty Analytical Corp.

MEMORANDUM

TO: Santiago Lee, ESAT/ICF Consulting, Inc.

FROM: Bob Meierer

SUBJECT: Response to Communication Record Log for Case 36678/SDG Y3ES6

DATE: October 18, 2007

On October 16, 2007, a Communication Record Log was received regarding Case 36678/SDG Y3ES6. A copy of the Communication Record Log is included in Attachment 1. The following are responses to the issues raised.

1. The reviewer commented that there was a tentatively identified compound (TIC), co-eluting with cis-1,2-dichloroethene, in three samples (Y3ET7, Y3ET8, and Y3ET9). This was based on the observation of the presence of ions at m/e of 70, 79, and 88 in the spectra of the cis-1,2-dichloroethene in the three samples. The request was made to identify the TIC in each of the three samples and submit revised Forms 1J and mass spectra for the TIC.

   The amended Forms 1J, TIC quantitation reports, and library search spectra for the TIC in the three samples are included in Attachment 2.

2. The reviewer indicated that Trace volatile standard preparation information was missing from the data package. The reviewer further stated that Region 9 requires the information in order to fully validate the data. The standards information should include the expiration dates for the standards, preparation dates, lot numbers, standard sources, concentrations and volumes of spiking and LCS solutions.

   As indicated in responses to previous requests for standards information, the volatile standards are mostly identified by Group Standard ID#s that appear on the volatile GC/MS run logs. Copies of these run logs are contained in the Sample Data Package submitted for the subject SDG. A separate logbook presents the individual standards that comprise the Group Standard ID. For EPA CLP work involving the analyses of samples associated with the SOM01.2 SOW, an "SO" group designation is used. The Group Standard ID# for the analyses associated with SDG Y3ES6 was SO49 Trace. As seen on the logbook pages in Attachment 3, much of the information is different than what has been supplied before to the Region. The majority of the standards are taken directly from ampulated material. In the past, ampulated standards were used to prepare intermediates and details of the preparation of those intermediates were included in copies of other standard preparation logbook pages. That approach is still used for the preparation of the "SOM01 Internal

Standard," "EPA CLP Spiking Solution (LCS & MS)," and "Sample Surrogate" standards, designated on the Group Standard logbook pages. Copies of the standard preparation logbook pages containing the individual standard ID numbers comprising those components of the Group Standards are also included in Attachment 3. The BFB lot number used for SDG Y3ES6 was 65295. BFB standard preparation information is included with the Group Standard ID packet in Attachment 3.

As a point of clarification, the following information is offered, regarding the "SO" Group Standard logbook page:

- Standards with Lot Numbers beginning with "A" are purchased from Restek, while standards with Lot Numbers beginning with "PR" are purchased from Cambridge Isotope Laboratories, Inc.
- The SOM01.1 Internal Standard is at a concentration of 2500 ug/mL.
- The DMC Spiking Solution A (Non-Ketones) is at a concentration of 1000 ug/mL.
- The DMC Spiking Solution B (Ketones) is at a concentration of 5 mg/mL.
- The DMC Spiking Solution C (1,4-Dioxane) is at a concentration of 12.5 mg/mL. (Not used.)
- The SOM01 Calibration Mixture 1 (Mega Mix) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 2 (Gases) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 3 (Ketones) is at a concentration of 5000 ug/mL.
- The 1,4-Dioxane is at a concentration of 2000 ug/mL. (Not used.)
- The tertiary butyl alcohol is at a concentration of 50,000 ug/mL.

The individual standards in the standard preparation logbook have been highlighted for easier review.

I hope this response adequately addresses the issue raised in the Communication Record Log for Case 36678/SDG Y3ES6. If there are any additional issues or questions, please contact us.

ATTACHMENT 1

Communication Record Log for Case 36678/SDG Y3ES6

Bob Meierer

From: Lee.Santiago@epamail.epa.gov
Sent: Tuesday, October 16, 2007 7:34 PM
To: bmeierer@compuchemlabs.com
Cc: Remaley.Steve@epamail.epa.gov; Fong.Rose@epamail.epa.gov; Lindelof.Doug@epamail.epa.gov
Subject: Fw: In Reference to 36678, Y3ES6, TV; CompuChem

----- Forwarded by Santiago Lee/R9/USEPA/US on 10/16/2007 04:32 PM -----

Steve Remaley/R9/USEPA/US
10/16/2007 04:27 PM

To: Santiago Lee/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: Re: In Reference to 36678, Y3ES6, TV; CompuChem(Document link: Santiago Lee)

OK to send.
Steve

Santiago Lee/R9/USEPA/US
10/16/2007 04:14 PM

To: Steve Remaley/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: In Reference to 36678, Y3ES6, TV; CompuChem

Hi, Steve,
Please review. Thanks.

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Communication Record Log

Laboratory Name: CompuChem

Lab Contact: Bob Meierer

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Santiago Lee, ESAT/LDC

Call Initiated By: Laboratory X Region

In Reference to data for Case No. 36678, SDG No. Y3ES6, Trace Volatiles.

Summary of Questions/issues Discussed:

The following items were noted during the review of this sample delivery group (SDG) data package. Please respond within 7 days as specified in SOM01.1 Statement of Work (SOW), Exhibit B, Section 2.2.2. Send responses and resubmissions to:

ICF International/Laboratory Data Consultants, Inc.,
Environmental Services Assistance Team, USEPA Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804; FAX 510 412-2304.
Attention: Santiago Lee/LDC

1. For samples Y3ET7, Y3ET8, and Y3ET9, there is a tentatively identified compound (TIC) co-eluting with cis-1,2-dichloroethene (with ions at m/e of 70, 79, and 88; see p. 199, 214, and 228 in data package). Please identifiy this TIC and submit revised Form 1J and mass spectra for samples listed above.

2. In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard source (name of vendor), concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be Determined.

ATTACHMENT 2

Amended Data for Case 36678/SDG Y3ES6

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-45-6	Methane, chlorodifluoro-	4.01	2.4	NJ
02		Unknown	8.67	1.9	J
03	556-67-2	Cyclotetrasiloxane, octamethyl-	13.04	0.62	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Lab Smp Id: 1363715 Client Smp ID: Y3ET7
Inj Date : 24-AUG-2007 11:55
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363715:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.836	1007811	125.000
* 2 Chlorobenzene-d5	12.342	1201583	125.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Methane, chlorodifluoro- $$ Algeon 22 $$				CAS #: 75-45-6			
4.008	486674	60.3626901	2.4	90	NBS129K.1	735	1
Unknown				CAS #:			
8.668	373290	46.2995075	1.9	0		0	1(L)

AMENDED DATA 10-19-07

201

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
13.036	147950	15.3911335	0.62	91	NBS129K.1	125682	2

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

201A

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

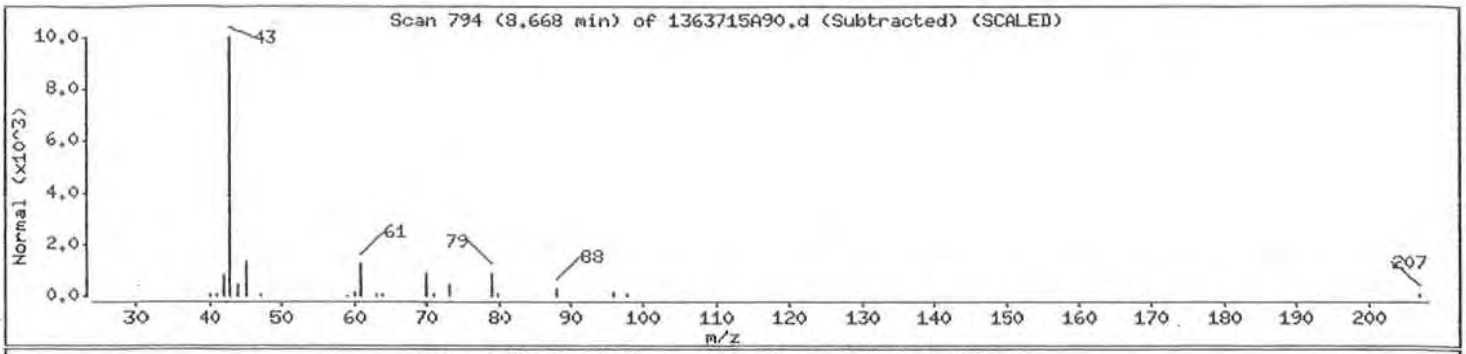
Client ID: Y3ET7 Instrument: 5973hp90.i

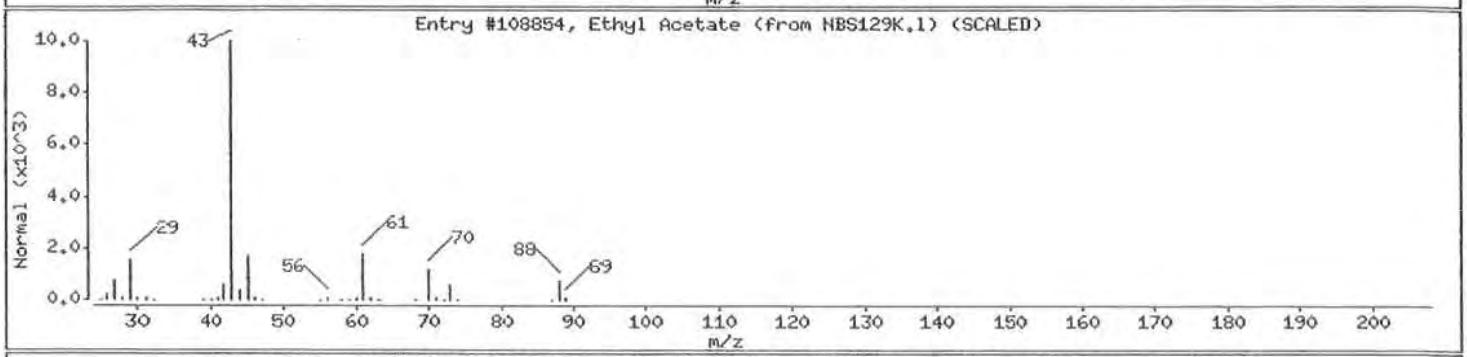
Sample Info: 1363715;2481

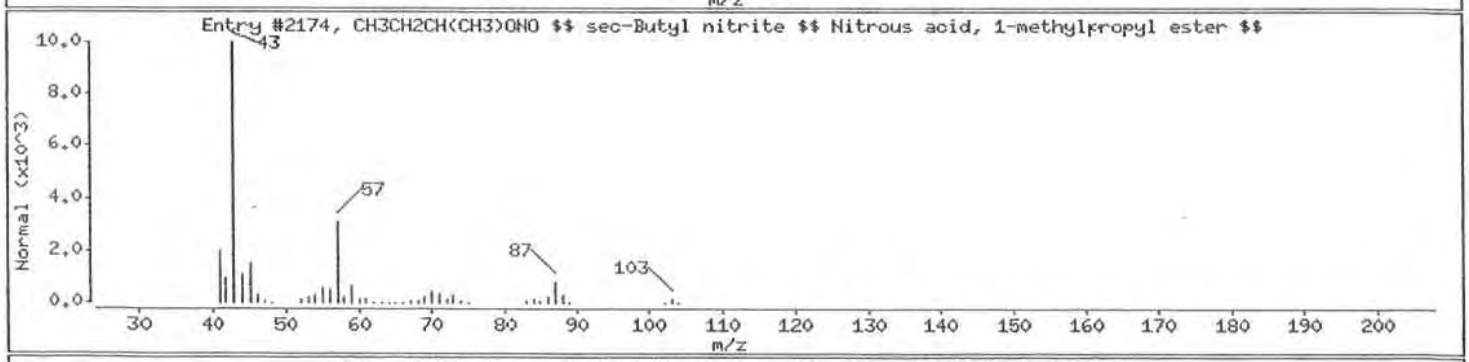
Purge Volume: 25.0 Operator: 2481

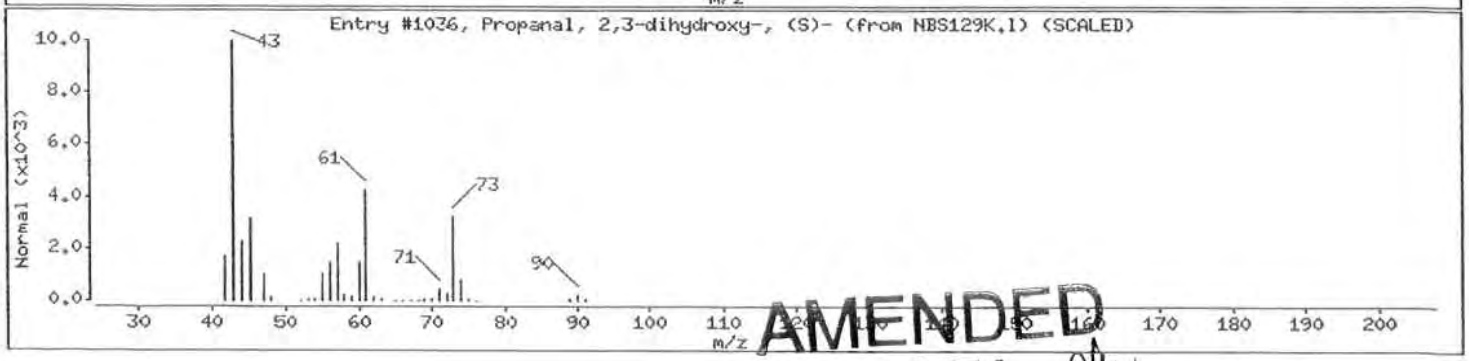
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethyl Acetate	141-78-6	NBS129K.l	108854	35	C4H8O2	88
CH3CH2CH(CH3)ONO $$ sec-Butyl nitrite $$	924-43-6	NBS129K.l	2174	9	C4H9NO2	103
Propanal, 2,3-dihydroxy-, (S)-	497-09-6	NBS129K.l	1036	9	C3H6O3	90









AMENDED DATA 10-19-07

ZOZA

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	7.0	J
02		Unknown	8.69	3.5	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-18-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 17-Oct-2007 18:47

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Lab Smp Id: 1363716 Client Smp ID: Y3ET8
Inj Date : 27-AUG-2007 11:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363716:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 2
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	1022247	125.000

	CONCENTRATIONS		QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.002	570619	69.7751134	7.0	0		0	1
Unknown			CAS #:				
8.686	283971	34.7238389	3.5	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

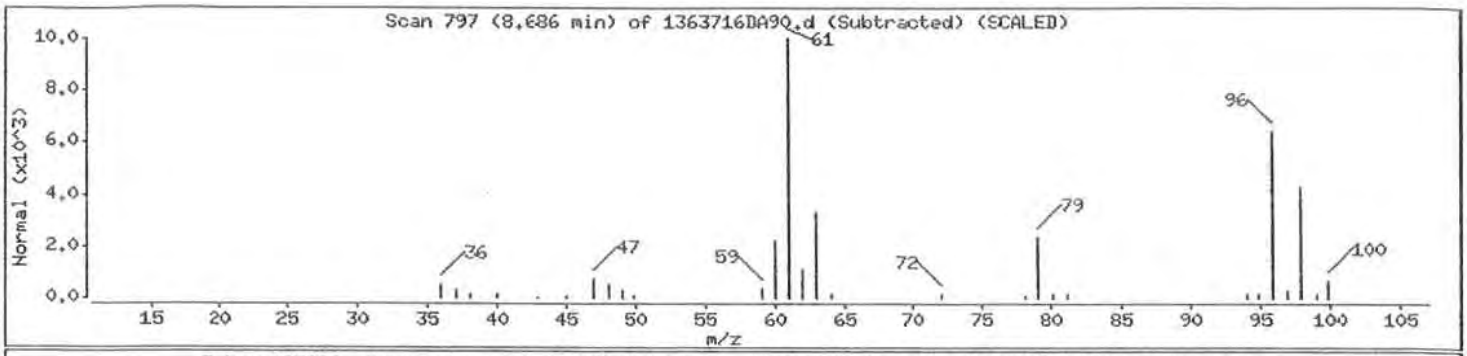
Client ID: Y3ET8 Instrument: 5973hp90.i

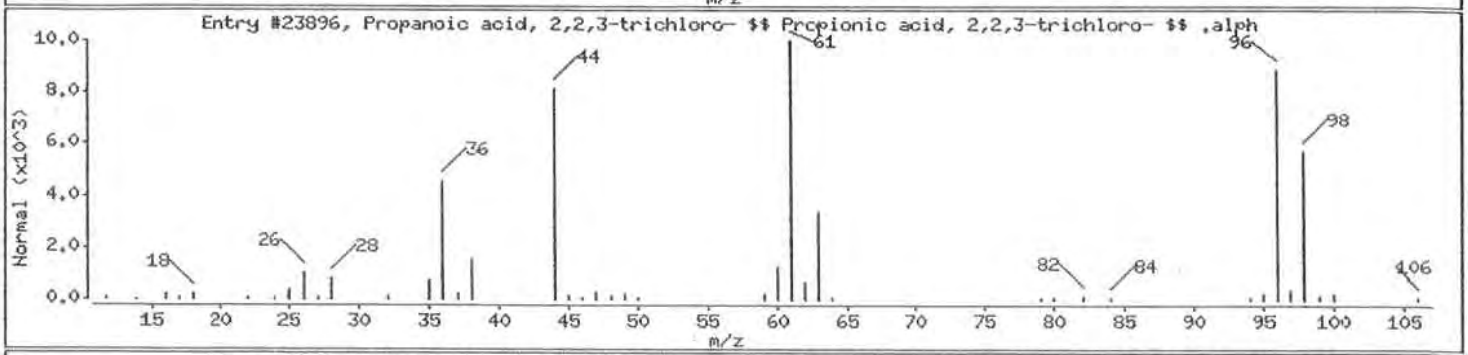
Sample Info: 1363716:2481

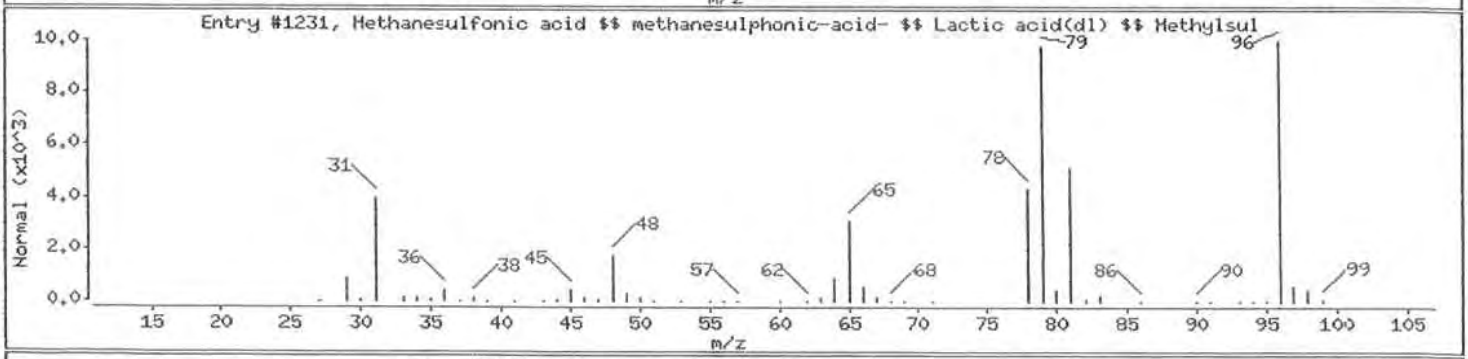
Purge Volume: 25.0 Operator: 2481

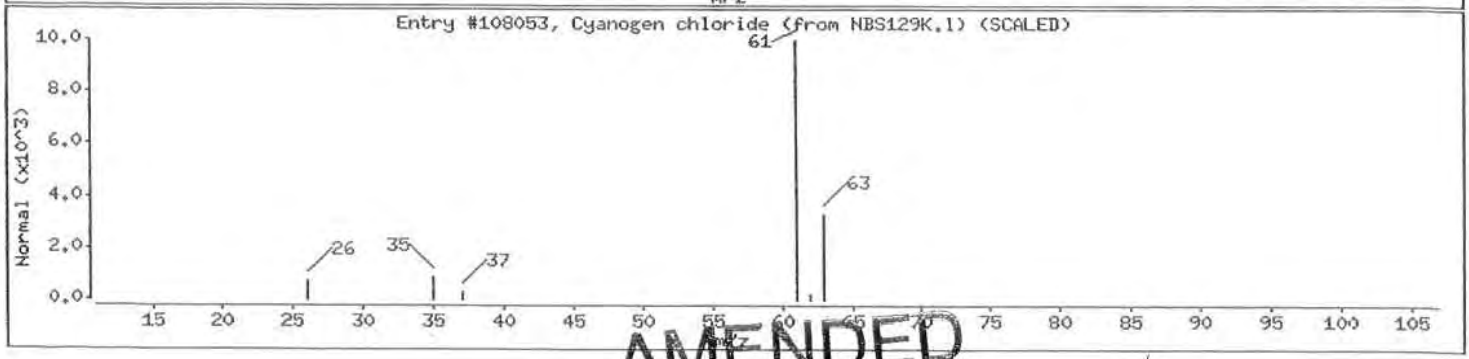
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2,2,3-trichloro- $$ Prop	3278-46-4	NBS129K.l	23896	64	C3H3Cl302	176
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	25	CH403S	96
Cyanogen chloride	506-77-4	NBS129K.l	108053	9	CClN	61









AMENDED DATA 10-19-07

218A

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363717

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363717DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	6.1	J
02		Unknown	8.68	3.4	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA DCN 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 17-Oct-2007 18:48

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Lab Smp Id: 1363717 Client Smp ID: Y3ET9
Inj Date : 27-AUG-2007 12:08
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363717:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 3
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.838	1004871	125.000

	CONCENTRATIONS		QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
4.004	493374	61.3727255	6.1	0		0	1
Unknown			CAS #:				
8.682	275878	34.3176149	3.4	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

231

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

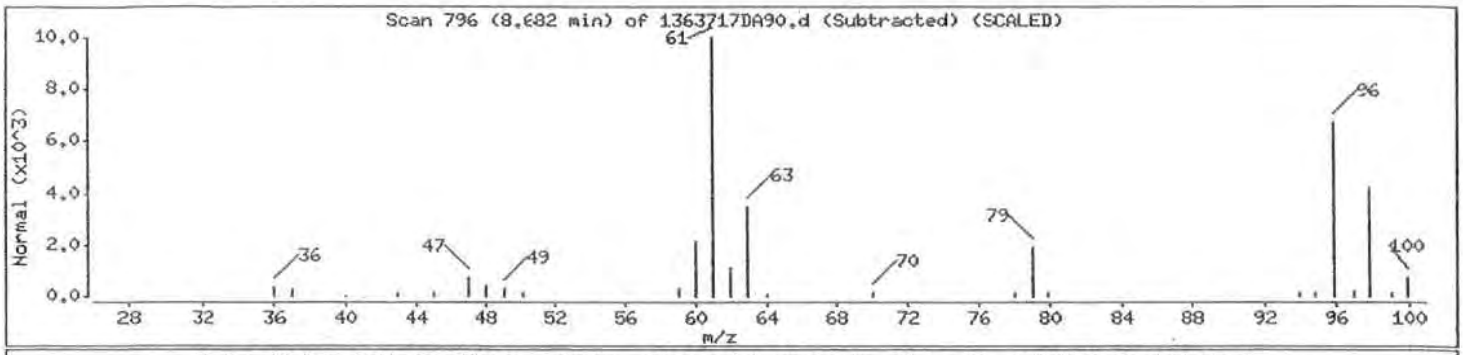
Client ID: Y3ET9 Instrument: 5973hp90.i

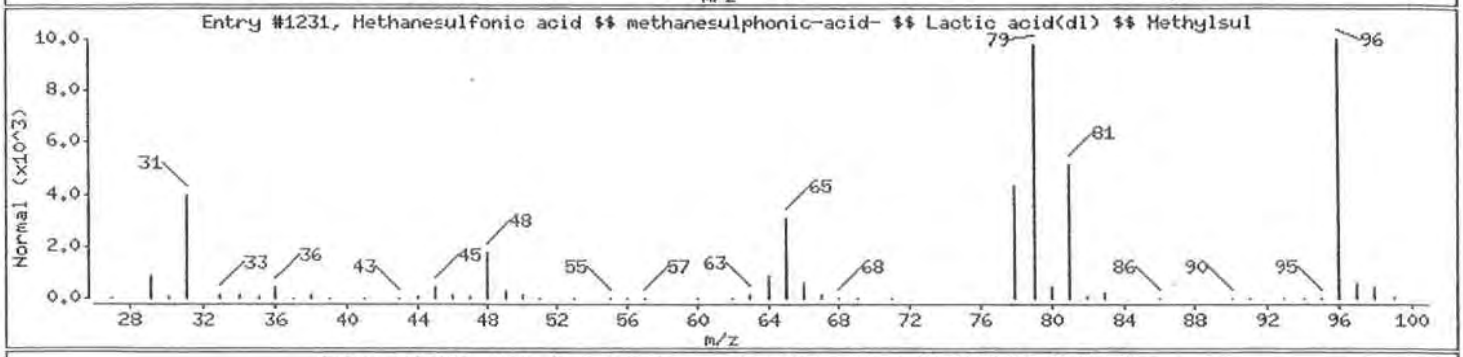
Sample Info: 1363717:2481

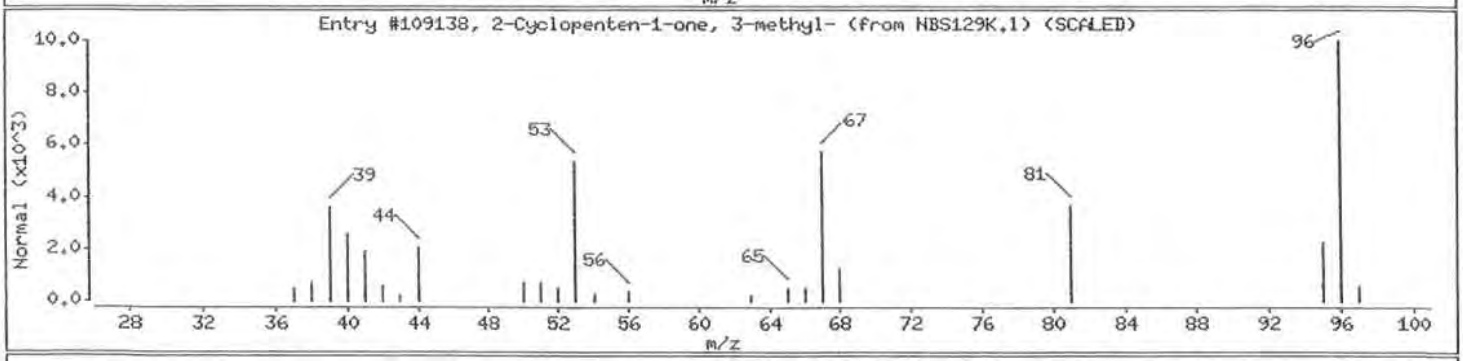
Purge Volume: 25.0 Operator: 2481

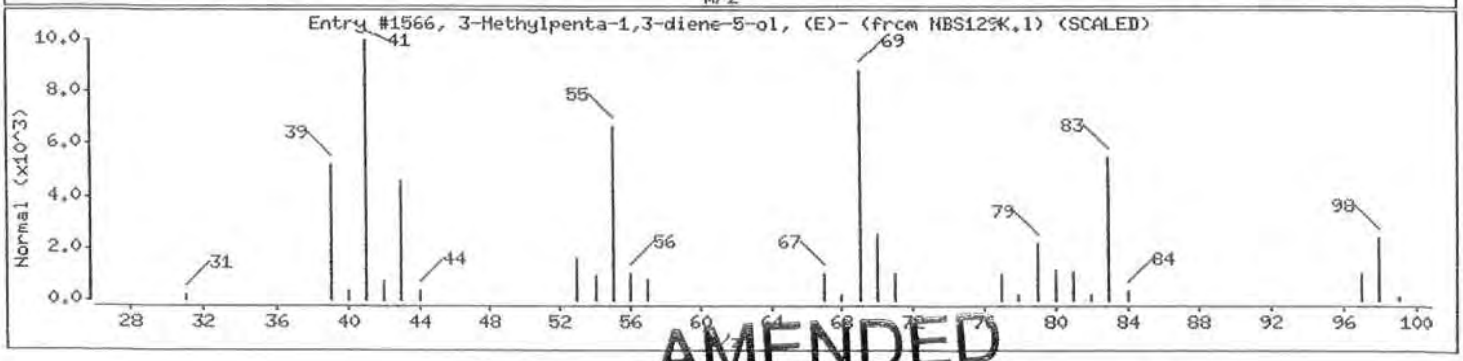
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	5	CH4O3S	96
2-Cyclopenten-1-one, 3-methyl-	2758-18-1	NBS129K.l	109138	5	C6H8O	96
3-Methylpenta-1,3-diene-5-ol, (E)-	1572-08-3	NBS129K.l	1566	4	C6H10O	98









AMENDED DATA 10-19-07

232A

CompuChem
A Division Of
Liberty Analytical Corp.

MEMORANDUM

TO: Santiago Lee, ESAT/ICF Consulting, Inc.

FROM: Bob Meierer

SUBJECT: Response to Communication Record Log for Case 36678/SDG Y3ES6

DATE: October 18, 2007

On October 16, 2007, a Communication Record Log was received regarding Case 36678/SDG Y3ES6. A copy of the Communication Record Log is included in Attachment 1. The following are responses to the issues raised.

1. The reviewer commented that there was a tentatively identified compound (TIC), co-eluting with cis-1,2-dichloroethene, in three samples (Y3ET7, Y3ET8, and Y3ET9). This was based on the observation of the presence of ions at m/e of 70, 79, and 88 in the spectra of the cis-1,2-dichloroethene in the three samples. The request was made to identify the TIC in each of the three samples and submit revised Forms 1J and mass spectra for the TIC.

   The amended Forms 1J, TIC quantitation reports, and library search spectra for the TIC in the three samples are included in Attachment 2.

2. The reviewer indicated that Trace volatile standard preparation information was missing from the data package. The reviewer further stated that Region 9 requires the information in order to fully validate the data. The standards information should include the expiration dates for the standards, preparation dates, lot numbers, standard sources, concentrations and volumes of spiking and LCS solutions.

   As indicated in responses to previous requests for standards information, the volatile standards are mostly identified by Group Standard ID#s that appear on the volatile GC/MS run logs. Copies of these run logs are contained in the Sample Data Package submitted for the subject SDG. A separate logbook presents the individual standards that comprise the Group Standard ID. For EPA CLP work involving the analyses of samples associated with the SOM01.2 SOW, an "SO" group designation is used. The Group Standard ID# for the analyses associated with SDG Y3ES6 was SO49 Trace. As seen on the logbook pages in Attachment 3, much of the information is different than what has been supplied before to the Region. The majority of the standards are taken directly from ampulated material. In the past, ampulated standards were used to prepare intermediates and details of the preparation of those intermediates were included in copies of other standard preparation logbook pages. That approach is still used for the preparation of the "SOM01 Internal

Standard," "EPA CLP Spiking Solution (LCS & MS)," and "Sample Surrogate" standards, designated on the Group Standard logbook pages. Copies of the standard preparation logbook pages containing the individual standard ID numbers comprising those components of the Group Standards are also included in Attachment 3. The BFB lot number used for SDG Y3ES6 was 65295. BFB standard preparation information is included with the Group Standard ID packet in Attachment 3.

As a point of clarification, the following information is offered, regarding the "SO" Group Standard logbook page:

- Standards with Lot Numbers beginning with "A" are purchased from Restek, while standards with Lot Numbers beginning with "PR" are purchased from Cambridge Isotope Laboratories, Inc.
- The SOM01.1 Internal Standard is at a concentration of 2500 ug/mL.
- The DMC Spiking Solution A (Non-Ketones) is at a concentration of 1000 ug/mL.
- The DMC Spiking Solution B (Ketones) is at a concentration of 5 mg/mL.
- The DMC Spiking Solution C (1,4-Dioxane) is at a concentration of 12.5 mg/mL. (Not used.)
- The SOM01 Calibration Mixture 1 (Mega Mix) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 2 (Gases) is at a concentration of 2000 ug/mL.
- The SOM01 Calibration Mixture 3 (Ketones) is at a concentration of 5000 ug/mL.
- The 1,4-Dioxane is at a concentration of 2000 ug/mL. (Not used.)
- The tertiary butyl alcohol is at a concentration of 50,000 ug/mL.

The individual standards in the standard preparation logbook have been highlighted for easier review.

I hope this response adequately addresses the issue raised in the Communication Record Log for Case 36678/SDG Y3ES6. If there are any additional issues or questions, please contact us.

ATTACHMENT 1

Communication Record Log for Case 36678/SDG Y3ES6

Bob Meierer

From: Lee.Santiago@epamail.epa.gov
Sent: Tuesday, October 16, 2007 7:34 PM
To: bmeierer@compuchemlabs.com
Cc: Remaley.Steve@epamail.epa.gov; Fong.Rose@epamail.epa.gov; Lindelof.Doug@epamail.epa.gov
Subject: Fw: In Reference to 36678, Y3ES6, TV; CompuChem

----- Forwarded by Santiago Lee/R9/USEPA/US on 10/16/2007 04:32 PM -----

Steve Remaley/R9/USEPA/US
10/16/2007 04:27 PM

To: Santiago Lee/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: Re: In Reference to 36678, Y3ES6, TV; CompuChem(Document link: Santiago Lee)

OK to send.
Steve

Santiago Lee/R9/USEPA/US
10/16/2007 04:14 PM

To: Steve Remaley/R9/USEPA/US@EPA
cc: Rose Fong/R9/USEPA/US@EPA
Subject: In Reference to 36678, Y3ES6, TV; CompuChem

Hi, Steve,
Please review. Thanks.

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Communication Record Log

Laboratory Name: CompuChem

Lab Contact: Bob Meierer

Region: 9

Regional Contact: Steve Remaley, CLP PO

ESAT Reviewer: Santiago Lee, ESAT/LDC

Call Initiated By: Laboratory X Region

In Reference to data for Case No. 36678, SDG No. Y3ES6, Trace Volatiles.

Summary of Questions/issues Discussed:

The following items were noted during the review of this sample delivery group (SDG) data package. Please respond within 7 days as specified in SOM01.1 Statement of Work (SOW), Exhibit B, Section 2.2.2. Send responses and resubmissions to:

ICF International/Laboratory Data Consultants, Inc.,
Environmental Services Assistance Team, USEPA Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804; FAX 510 412-2304.
Attention: Santiago Lee/LDC

1. For samples Y3ET7, Y3ET8, and Y3ET9, there is a tentatively identified compound (TIC) co-eluting with cis-1,2-dichloroethene (with ions at m/e of 70, 79, and 88; see p. 199, 214, and 228 in data package). Please identifiy this TIC and submit revised Form 1J and mass spectra for samples listed above.

2. In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard source (name of vendor), concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be Determined.

ATTACHMENT 2

Amended Data for Case 36678/SDG Y3ES6

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET7

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363715

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363715A90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/24/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-45-6	Methane, chlorodifluoro-	4.01	2.4	NJ
02		Unknown	8.67	1.9	J
03	556-67-2	Cyclotetrasiloxane, octamethyl-	13.04	0.62	NJ
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Lab Smp Id: 1363715 Client Smp ID: Y3ET7
Inj Date : 24-AUG-2007 11:55
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363715:2481
Misc Info : VMS:1446
Comment :
Method : /chem/5973hp90.i/DF070824A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.836	1007811	125.000
* 2 Chlorobenzene-d5	12.342	1201583	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Methane, chlorodifluoro- $$ Algeon 22 $$				CAS #: 75-45-6			
4.008	486674	60.3626901	2.4	90	NBS129K.1	735	1
Unknown				CAS #:			
8.668	373290	46.2995075	1.9	0		0	1(L)

AMENDED DATA 10-19-07

201

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d
Report Date: 17-Oct-2007 18:43

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
13.036	147950	15.3911335	0.62	91	NBS129K.l	125682	2

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

201A

Data File: /chem/5973hp90.i/DF070824A90.b/1363715A90.d

Date : 24-AUG-2007 11:55

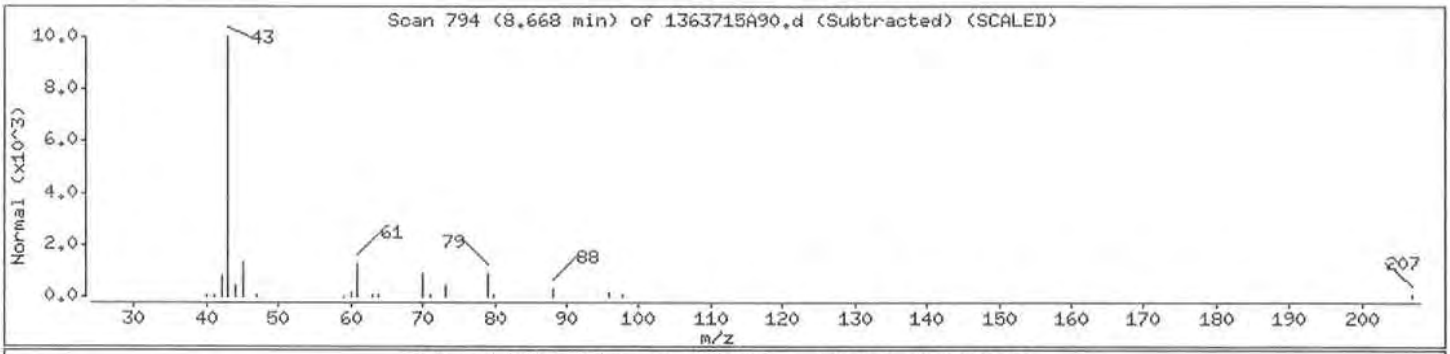
Client ID: Y3ET7 Instrument: 5973hp90.i

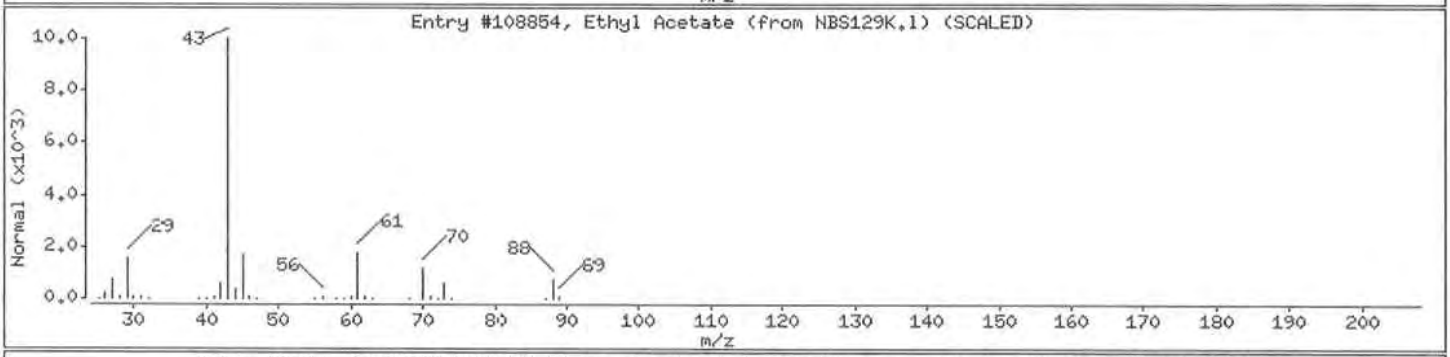
Sample Info: 1363715:2481

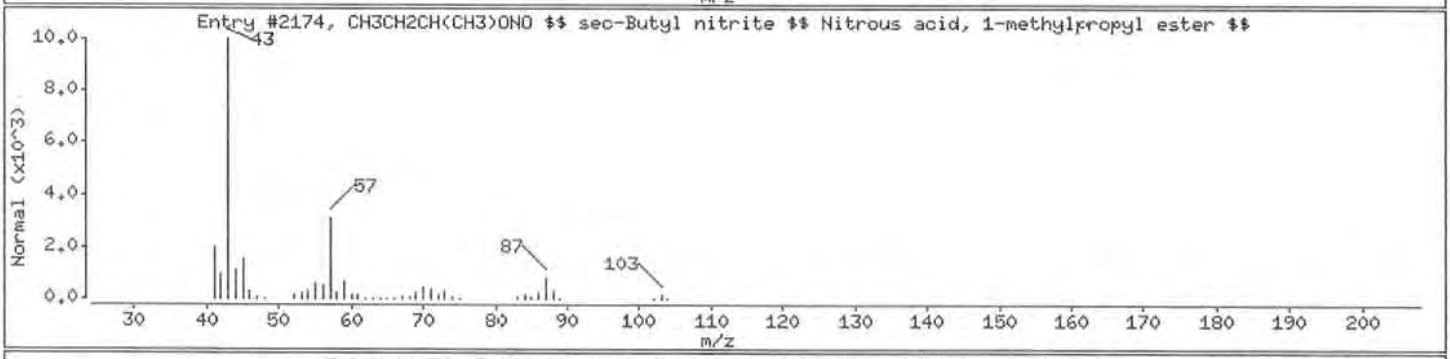
Purge Volume: 25.0 Operator: 2481

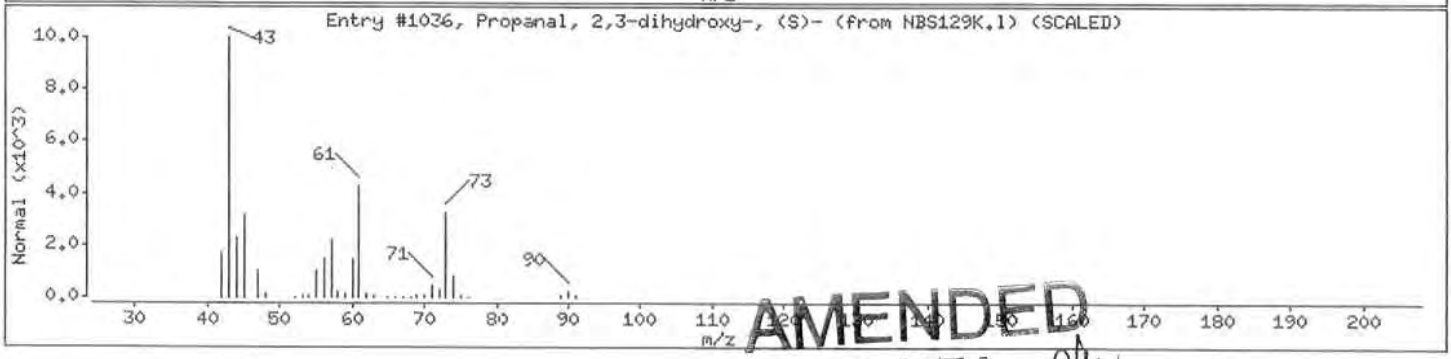
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethyl Acetate	141-78-6	NBS129K.l	108854	35	C4H8O2	88
CH3CH2CH(CH3)ONO $$ sec-Butyl nitrite $$	924-43-6	NBS129K.l	2174	9	C4H9NO2	103
Propanal, 2,3-dihydroxy-, (S)-	497-09-6	NBS129K.l	1036	9	C3H6O3	90









AMENDED DATA 10-19-07

ZOZA

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET8

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363716

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363716DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	7.0	J
02		Unknown	8.69	3.5	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA 10-18-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Report Date: 17-Oct-2007 18:47

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363716DA90.d
Lab Smp Id: 1363716 Client Smp ID: Y3ET8
Inj Date : 27-AUG-2007 11:39
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363716:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 2
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.842	1022247	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.002	570619	69.7751134	7.0	0		0	1
Unknown				CAS #:			
8.686	283971	34.7238389	3.5	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363716DA90.d

Date : 27-AUG-2007 11:39

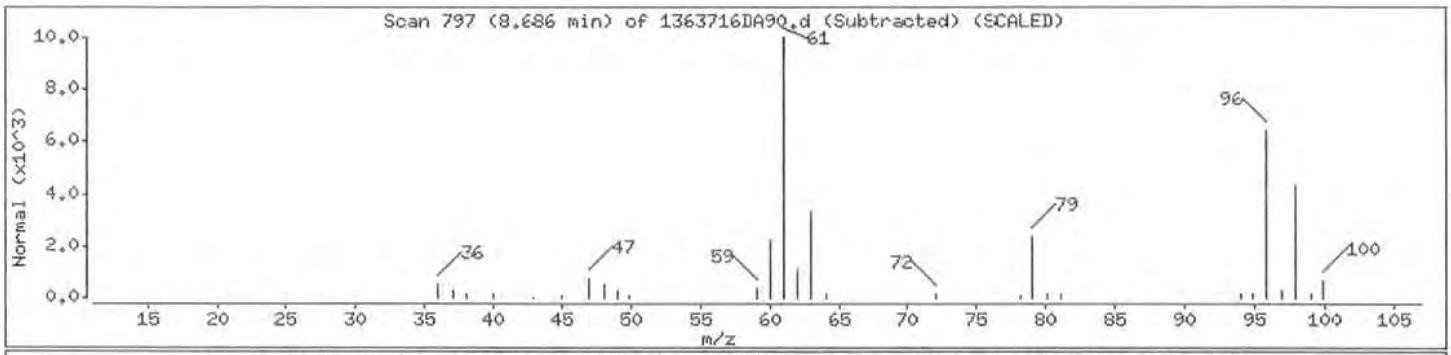
Client ID: Y3ET8 Instrument: 5973hp90.i

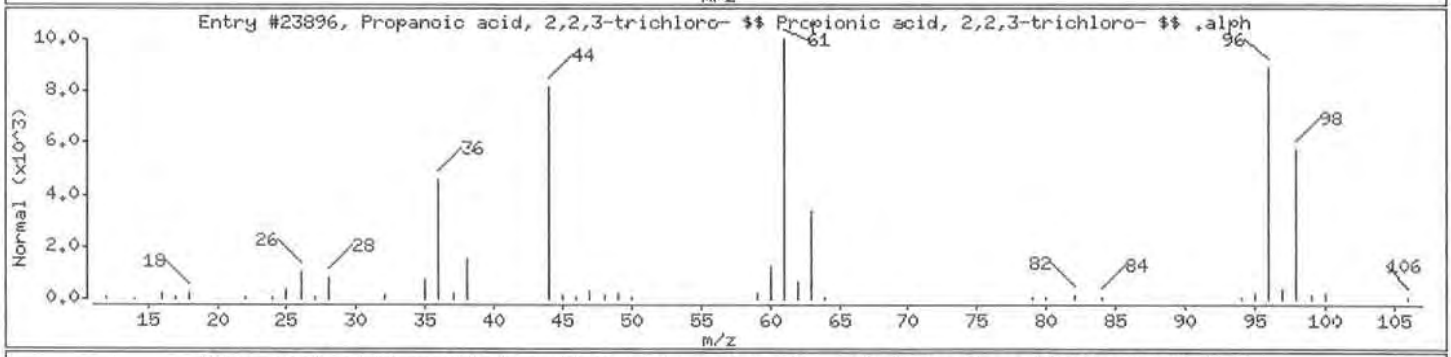
Sample Info: 1363716:2481

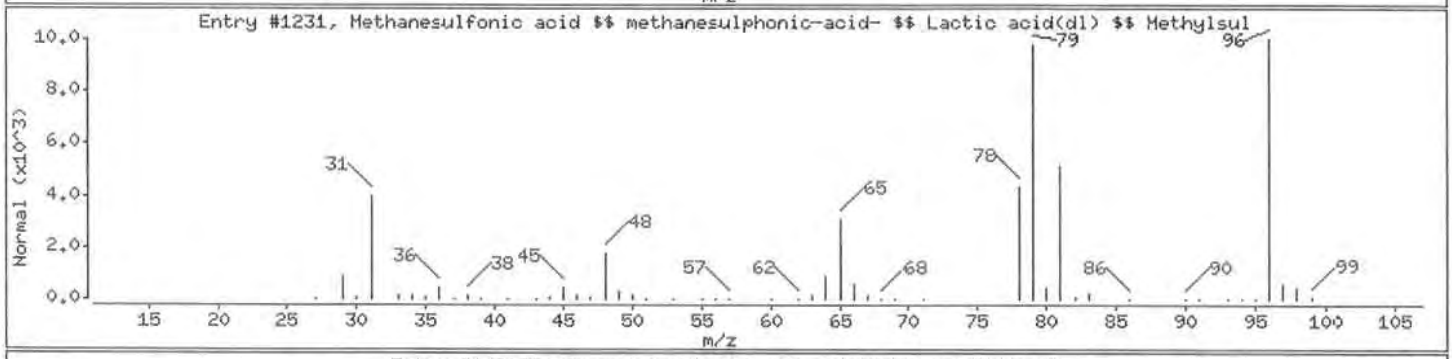
Purge Volume: 25.0 Operator: 2481

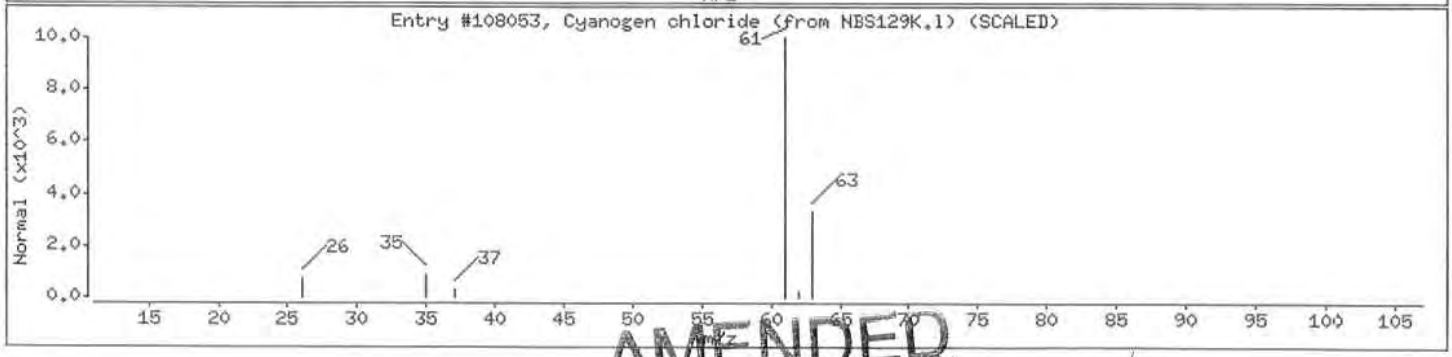
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2,2,3-trichloro- $$ Prop	3278-46-4	NBS129K.l	23896	64	C3H3Cl3O2	176
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	25	CH4O3S	96
Cyanogen chloride	506-77-4	NBS129K.l	108053	9	CClN	61









AMENDED DATA 10-19-07

21BA

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y3ET9

Lab Name: COMPUCHEM Contract: EPW05028

Lab Code: LIBRTY Case No.: 36678 Mod. Ref No.: 1391.1 SDG No.: Y3ES6

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: 1363717

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1363717DA90

Level: (TRACE or LOW/MED) TRACE Date Received: 08/23/2007

% Moisture: not dec. _____ Date Analyzed: 08/27/2007

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.00	6.1	J
02		Unknown	8.68	3.4	J
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					
	E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

AMENDED DATA Dan 10-19-07

SOM01.2 (8/2007)

221

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Report Date: 17-Oct-2007 18:48

CompuChem

OLC03 QUANT AND RATIO REPORT

Data file : /chem/5973hp90.i/DF070827A90.b/1363717DA90.d
Lab Smp Id: 1363717 Client Smp ID: Y3ET9
Inj Date : 27-AUG-2007 12:08
Operator : 2481 Inst ID: 5973hp90.i
Smp Info : 1363717:2481
Misc Info : VMS:1447
Comment :
Method : /chem/5973hp90.i/DF070827A90.b/SOM01.2_TRACE1391.1.m
Meth Date : 17-Oct-2007 18:38 keng Quant Type: ISTD
Cal Date : 23-AUG-2007 13:46 Cal File: GW070823A90.d
Als bottle: 3
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	2.50000	Dilution Factor
Vo	25.00000	Sample Volume purged (mL)
DF	2.50000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 1,4-Difluorobenzene	9.838	1004871	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.004	493374	61.3727255	6.1	0		0	1
Unknown				CAS #:			
8.682	275878	34.3176149	3.4	0		0	1(L)

QC Flag Legend

L - Operator selected an alternate library search match.

AMENDED DATA 10-19-07

Data File: /chem/5973hp90.i/DF070827A90.b/1363717DA90.d

Date : 27-AUG-2007 12:08

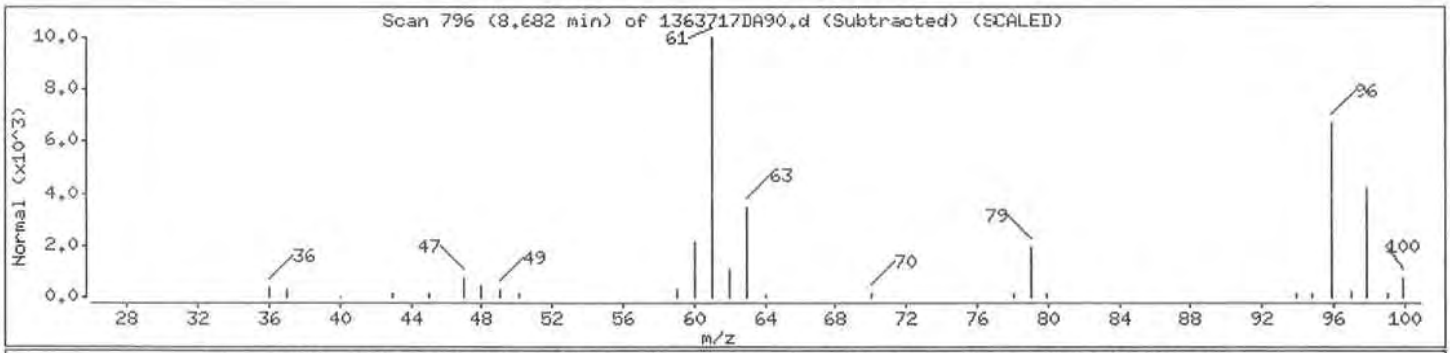
Client ID: Y3ET9 Instrument: 5973hp90.i

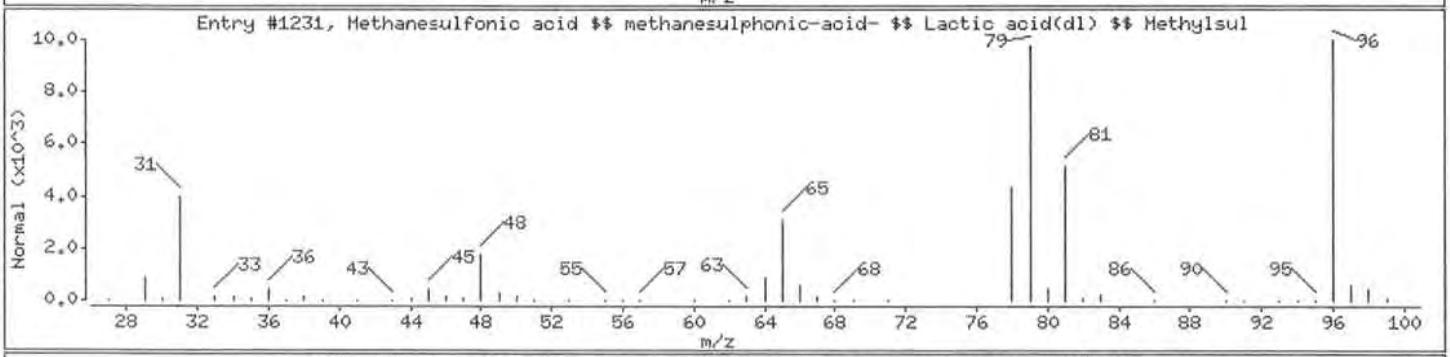
Sample Info: 1363717:2481

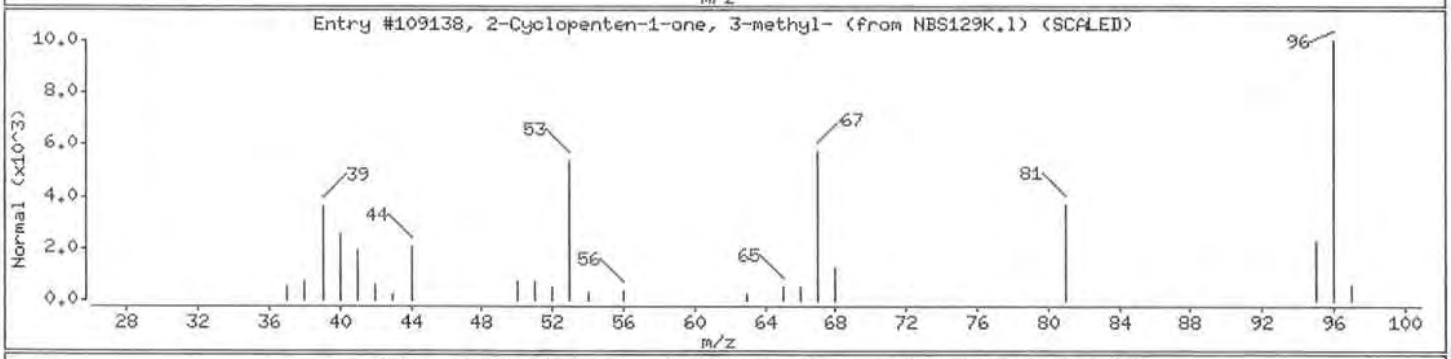
Purge Volume: 25.0 Operator: 2481

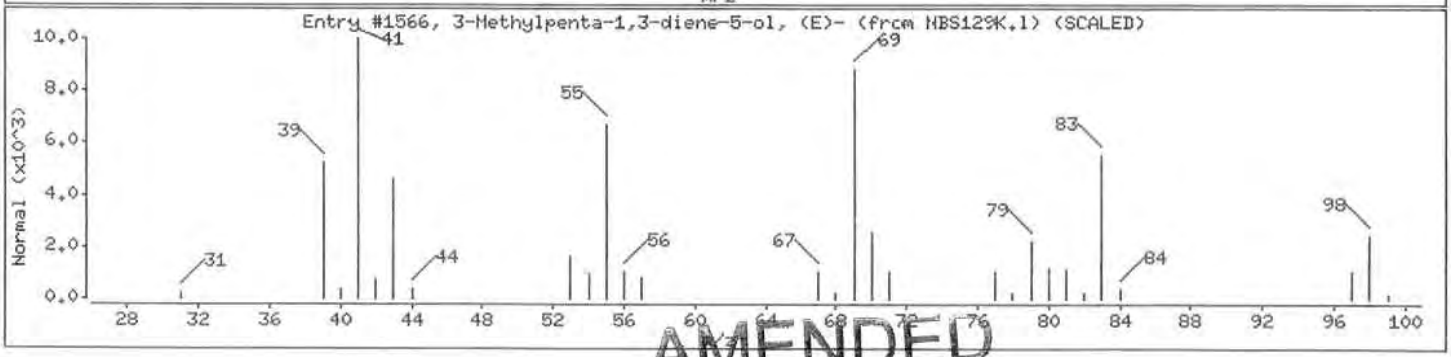
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methanesulfonic acid $$ methanesulphonic	75-75-2	NBS129K.l	1231	5	CH4O3S	96
2-Cyclopenten-1-one, 3-methyl-	2758-18-1	NBS129K.l	109138	5	C6H8O	96
3-Methylpenta-1,3-diene-5-ol, (E)-	1572-08-3	NBS129K.l	1566	4	C6H10O	98









AMENDED DATA 10-19-07

232A

ATTACHMENT 3

Trace Volatile Standard Preparation Logs for Case 36678/SDG Y3ES6

GC/MS VOA Laboratory

SO Group Standards Lots Identification Log

Method SOM01.1

Group Identification No.: SO 49 Trace

BFB 65194

Standard Identification	Lot Number	Expiration Date
SOM01 Internal Standard	65265	9-13-7
DMC Spiking Solution A	PR-16604B	4/15
DMC Spiking Solution B	PR-18446A	3/15
DMC Spiking Solution C	A050360	2/10
SOM01 Calibration Mix 1	A037974	7/08
SOM01 Calibration Mix 2	A052004	1/14
SOM01 Calibration Mix 3	A049156	3/10
1,4- Dioxane	A045088	5/11
EPA CLP Spiking Solution (LCS & MS)	65193	8-20-7
Sample Surrogate	65266	9-13-07
Test - But	A037764	6/08

Group Assigned by: [signature] Date: 8/13/07

Group Identification No.: SO 50 S/W

BFB 65295

Standard Identification	Lot Number	Expiration Date
SOM01 Internal Standard	65360	10/19/07
DMC Spiking Solution A	PR-16604B	4/15
DMC Spiking Solution B	120106	12/09
DMC Spiking Solution C	A050360	2/10
SOM01 Calibration Mix 1	A037974	7/08
SOM01 Calibration Mix 2	A052004	1/14
SOM01 Calibration Mix 3	A049156	3/10
1,4- Dioxane	A045088	5/11
EPA CLP Spiking Solution (LCS & MS)	65352	10-14-07
Sample Surrogate	65389	11/1/07
Test - But.	A037764	6/08

Group Assigned by: [signature] Date: 9-19-07

Reviewed By: [signature] Date: 9-19-07

3/01/06:jad

GC/MS Volatile Standards Preparation Logbook

8-13-07 JM	65264 8260 Internal Std/Surrogate #59 Krchon 500uL Restek Cat. #30240; 65172-10 500uL Restek Cat. #30241; 65144-4 Vf = 5.0ml with Omnisolv Methanol Lot # 47142 in 5ml-V. Flask Exp 9-13-07	[250ng/ml]
AD 8/13/07	65265 Sam Trace IS 500ul ~~250~~ ul of A051409 8/13/07 Vf = 5ml #47142 10 AD 8/13/07	[125ng/ul] Xp 9-13-07
AD 8/13/07	65266 Trace Surr 8/13/07 2 ml of PR-166048 50 ul of PR-184446A 625 ul of A050360 Vf = 1ml #47147	[25ng/ul] Xp 9-13-07
8-13-07 TM	65267 OLC SURR A 250uL ES 5038-1; PR-17855F Vf = 1ml # 47142	[25 ng/mL] 8-20-07
	65268 OLC SURR B 25ul ES 5287-10X; PR-18446A Vf = 1mL # 47142	[125 ng/mL] 8-20-07
	65269 OLC Cal Mix #1 12.5 uL 30456; A043838 12.5uL 30416; A031547 12.5uL 30225; A036113 Vf = 1mL # 47142	[25ng/mL] 8-20-07

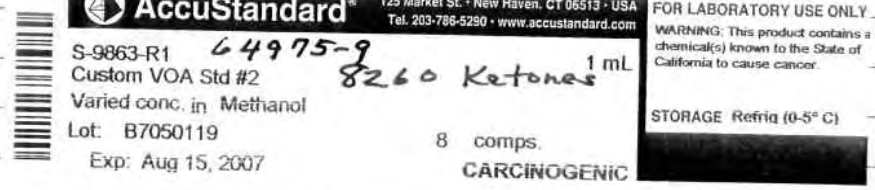
Reviewed by: _____ Date: 9-24-07

The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

04/23/07: vr

GC/MS Volatile Standards Preparation Logbook

7-20-07 JAS	65189 OLM Gases	[100 ug/mL]
	50uL RestaK Cat. # 30042; 65124-5	
	Vf = 1.0ml with Burdick & Jackson Methanol Lot # CS723	
	Exp 7-27-07	
7-20-07 JAS	65190 OLM Cal Mix	[100 ug/mL]
	20uL RestaK Cat. #30006; 64907-1	
	50uL RestaK Cat. # 30456; 63920-1	
	Vf = 1.0ml with Burdick & Jackson Methanol Lot # CS723	
	Exp 7-27-07	
7-20-07 JAS	65191 OLM Surrogate	[50 ug/mL]
	20uL RestaK Cat # 30004; 64052-1	
	Vf = 1.0ml with Burdick & Jackson Methanol Lot # CS723	
	Exp 7-27-07	
7-20-07 JAS	65192 OLM Internal Std (IS)	[50 ug/mL]
	20uL RestaK Cat. # 30011; 64912-2	
	Vf = 1.0ml with Burdick & Jackson Methanol Lot # CS723	
	Exp 7-27-07	
7-20-07 JAS	65193 1001C	[25 ug/mL]
	50uL RestaK Cat. # 30005; 64262-3	
	Vf = 5.0ml with Burdick & Jackson Methanol Lot # CS723 in 5ml-V.F. flask	
	Exp 8-20-07	
7-20-07 JAS	transfered to miniert	



Reviewed by: _____ Date: 9-22-07

The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

GC/MS Volatile Standards Preparation Logbook

NL 6-14-06	64257 OLC IS 250ul of 63912-2 [125ug/ul] Vf=5.0ml of mcCH 45270 ~~xp to~~ xp - 6-14-06
6-14-06	transfered to miniert GRO Surrogate Stock
	AccuStandard® 125 Market St. • New Haven, CT 06513 • USA Tel. 203-786-5290 • www.accustandard.com FOR LABORATORY USE ONLY 64128-1 M-001R-2 1,4-Dichlorobutane 20.0 mg/mL in MeOH Lot: B4060087 Exp. Jun 9, 2014 1 mL STORAGE Ambient POISON
6-14-06 JAO	64258 GRO Surrogate - low level [5mg/mL] 500uL AccuStd M-001R2; 64128-1 Vf=5.0ml in ~~5~~ 2 ml-V. Flask - Omnisolv Methanol Lot # 45270 JAO 6-14-06 xp 12-14-06
6-15-06 JAO	64259 (1→~~8~~ 7) JAO 6-15-06 8260 Internal Std Mix [2500ug/mL] Restek Cat. # 30241 Lot # A040977 Exp 10-2010
6-15-06 JAO	64260 (1→8) 8260 Surrogate Mix [2500ug/mL] Restek Cat. # 30240 Lot # A043935 Exp 3-2011
[illegible] 6/15/06	64261 GCMIS/Surr [250ng/ul] 500ul of 64131-1 xp 7-15-06 Vf=5ml #45270
6-16-06 JAO	64262 (1→3) VOA Matrix Spike 1001C [2500ug/mL] Restek Cat. # 30005 Lot # A041175 Exp 11-2010

Reviewed by: NL Date: 2-14-06

The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

8/15/05:jad

GC/MS Volatile Standards Preparation Logbook

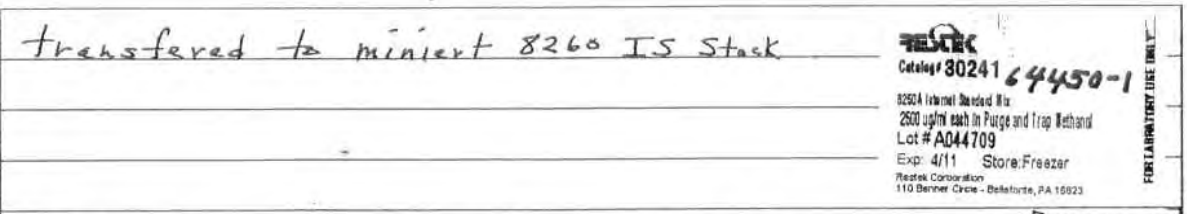
8-20-07 JD	65294 OLM IS # 91 [250 ng/mL] 9-20-07 500 uL 30ml ; A035800 ; 64053-1 Vf = 5mL # 47142
8-21-07 JAD	65295 BFB [25 ug/mL] 25uL Restek Cat. # 30003; 64533-2 Vf = 5.0ml with Omnisolv Methanol Lot# 47142 in 5ml-V. Flask Exp 9-21-07
8-22-07 JAD	transfered to miniert 2CEVE 62956-5 RESTEK Catalog# 30268 Lot # A035357 Exp:11/08 Store: Freezer 2-Chloroethyl vinyl ether Standard 2000 ug/ml each in Purge and Trap Methanol Restek Corporation – 110 Benner Circle – Bellefonte, PA 16823 FOR LABORATORY USE ONLY
8-22-07 JAD	transfered to miniert AccuStandard® 125 Market St. · New Haven, CT 06513 · USA Tel. 203-786-5290 · www.accustandard.com S-9863-R1 65276-1 1 mL Custom VOA Std #2 Varied conc. in Methanol Lot: B7080086 8 comps. Exp: Nov 10, 2007 CARCINOGENIC FOR LABORATORY USE ONLY WARNING: This product contains a chemical(s) known to the State of California to cause cancer. STORAGE Refrig (0-5° C)
8-23-07 JAD	65296 8260 IS/Surrogate Mixture #71 [125 ug/mL] 250uL Restek Cat. # 30240; 65172-4 250uL Restek Cat. # 30241; 65255-10 Vf = 5.0ml with Omnisolv Methanol Lot # 47142 in 5ml-V. Flask Exp 9-23-07
8-24-07 JAD	65297 8260 Internal Std [125 ug/mL] 250uL Restek Cat. # 30241; 65255 Vf = 5.0ml with Omnisolv Methanol Lot # 47142 Exp 9-24-07 in 5ml-V. Flask

Reviewed by: _____ Date: 9-24-07

The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

GC/MS Volatile Standards Preparation Logbook

10-19-06 JAO	transfered to miniert 8260 IS Stack
	RESTEK Catalog# 30241 64450-1 8260A Internal Standard Mix 2500 ug/ml each in Purge and Trap Methanol Lot # A044709 Exp: 4/11 Store: Freezer Restek Corporation 110 Benner Circle - Bellefonte, PA 16823 FOR LABORATORY USE ONLY
10-19-06 JAO	64530 8260 Internal Std (IS) [50 ug/mL]
	200 uL Restek Cat. # 30241; 64450-1
	Vf = 10.0 ml with Omnisolv Methanol Lot # 46107 in 10ml-V. Flask
	Exp 1-19-07
10-19-06 JAO	transfered to miniert 8260 Ketones
	AccuStandard® 125 Market St. • New Haven, CT 06513 • USA Tel. 203-786-5290 • www.accustandard.com FOR LABORATORY USE ONLY WARNING: This product contains a chemical(s) known to the State of California to cause cancer.
	S-9863-R1 64523-1 1 mL Custom VOA Std #2 Varied conc. in Methanol Lot: B6100101 8 comps. Exp: Jan 17, 2007 CARCINOGENIC STORAGE Refrig (0-5° C)
WL 10-19-06	64531 Som Trace Sample Surr
	25ul of PR-16604B
	50ul of PR 16325A
	100ul of PR 16324A [25 ug/ml]
	Vf = 1.0 ml of meoH 46107 Exp 11-19-06
10-19-06 JAO	64532 (1→4) CLP 4.1 Internal Std / SMC Spike Mix [2500 ug/mL]
	Restek Cat. # 30457 Lot # A041145 Exp 11-07
10-19-06 JAO	64533 (1→2) VOA Tuning Compound Mix [5000 ug/mL]
	Restek Cat. # 30003 Lot # A044823 Exp 7-2013
	JAO 10-19-06



Reviewed by: [signature] 2513 Date: 4-13-07

The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/23/06:jad