GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/19/2009

GCAL Report 209011424

Deliver To	Pastor, Behling, & Wheeler 2201 Double Creek Drive Suite 4004 Round Rock, TX 78664 512-671-3434
Attn	Jen Pavesi

Customer Pastor, Behling, & Wheeler

Project Gulfco Marine Maintenance Site

896758

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: Pastor, Behling, & Wheeler **Report:** 209011424

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 404503, the MS/MSD exhibited recovery failures.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 209011424

THIS REPORT CONTAINS 178 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20901142401	OCPT-5	Water	01/13/2009 10:00	01/14/2009 10:15
20901142402	NE4MW32C	Water	01/13/2009 09:15	01/14/2009 10:15
20901142403	NE4MW32C MS	Water	01/13/2009 09:15	01/14/2009 10:15
20901142404	NE4MW32C MSD	Water	01/13/2009 09:15	01/14/2009 10:15
20901142405	MW-1000	Water	01/13/2009 09:15	01/14/2009 10:15
20901142406	TRIP BLANK	Water	01/13/2009 00:00	01/14/2009 10:15
20901142407	GW-011309-EB	Water	01/13/2009 10:20	01/14/2009 10:15
20901142408	GW-011309-FB	Water	01/13/2009 10:30	01/14/2009 10:15

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Method: SW-846 8260

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	OCPT-5	96		99		98		96		0
2.	LCSD686236	101		96		100		96		0
3.	MB686234	100		93		99		98		0
4.	NE4MW32C	97		97		100		100		0
5.	NE4MW32C MS	105		96		100		99		0
6.	NE4MW32C MSD	100		95		100		97		0
7.	MW-1000	97		100		101		99		0
8.	TRIP BLANK	97		97		100		95		0
9.	GW-011309-EB	100		95		101		97		0
10.	GW-011309-FB	96		100		101		98		0
11.	LCS686235	103		100		100		98		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	78 - 130
SMC 2	Dibromofluoromethane	77 - 127
SMC 3	Toluene-d8	76 - 134
SMC 4	1,2-Dichloroethane-d4	71 - 127

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix Spike - EPA Sample No: NE4MW32C

Analytical Batch: 404503

SAMPLE NO. : 20901142403

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	50	0	50.9	102		76 - 129
1,1-Dichloroethene	ug/L	50	1.43	46.8	91		76 - 123
1,2,3-Trichloropropane	ug/L	50	4.2	56.9	105		71 - 126
1,2-Dichloroethane	ug/L	50	0	48.4	97		76 - 123
Benzene	ug/L	50	1.41	51.6	100		78 - 121
Carbon tetrachloride	ug/L	50	0	53.1	106		80 - 126
Methylene chloride	ug/L	50	0	45.2	90		73 - 123
Tetrachloroethene	ug/L	50	0	57.7	115		74 - 129
Trichloroethene	ug/L	50	34.1	79.9	92		80 - 123
Vinyl chloride	ug/L	50	0	51.8	104		71 - 126
cis-1,2-Dichloroethene	ug/L	50	112	149	74	*	77 - 123

SAMPLE NO. : 20901142404

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	50	52.1	104		2		76 - 129	0 - 30
1,1-Dichloroethene	ug/L	50	47.7	93		2		76 - 123	0 - 30
1,2,3-Trichloropropane	ug/L	50	56.4	104		.9		71 - 126	0 - 30
1,2-Dichloroethane	ug/L	50	49.3	99		2		76 - 123	0 - 30
Benzene	ug/L	50	52.4	102		2		78 - 121	0 - 30
Carbon tetrachloride	ug/L	50	53.9	108		1		80 - 126	0 - 30
Methylene chloride	ug/L	50	44.5	89		2		73 - 123	0 - 30
Tetrachloroethene	ug/L	50	56.8	114		2		74 - 129	0 - 30
Trichloroethene	ug/L	50	81.7	95		2		80 - 123	0 - 30
Vinyl chloride	ug/L	50	50.9	102		2		71 - 126	0 - 30
cis-1,2-Dichloroethene	ug/L	50	151	78		1		77 - 123	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 11 outside limits

Spike Recovery: 1 out of 22 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Analytical Batch: 404503

SAMPLE NO. : 686235

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	50	0	49.5	99		76 - 129
1,1-Dichloroethene	ug/L	50	0	46.9	94		76 - 123
1,2,3-Trichloropropane	ug/L	50	0	47.7	95		71 - 126
1,2-Dichloroethane	ug/L	50	0	47.3	95		76 - 123
Benzene	ug/L	50	0	48.6	97		78 - 121
Carbon tetrachloride	ug/L	50	0	50.9	102		80 - 126
Methylene chloride	ug/L	50	0	42.7	85		73 - 123
Tetrachloroethene	ug/L	50	0	55	110		74 - 129
Trichloroethene	ug/L	50	0	50	100		80 - 123
Vinyl chloride	ug/L	50	0	48.3	97		71 - 126
cis-1,2-Dichloroethene	ug/L	50	0	47.8	96		77 - 123

SAMPLE NO. : 686236

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	50	52.5	105		6		76 - 129	0 - 30
1,1-Dichloroethene	ug/L	50	46.1	92		2		76 - 123	0 - 20
1,2,3-Trichloropropane	ug/L	50	48.9	98		2		71 - 126	0 - 30
1,2-Dichloroethane	ug/L	50	48.9	98		3		76 - 123	0 - 30
Benzene	ug/L	50	49.7	99		2		78 - 121	0 - 20
Carbon tetrachloride	ug/L	50	49.5	99		3		80 - 126	0 - 30
Methylene chloride	ug/L	50	43.5	87		2		73 - 123	0 - 30
Tetrachloroethene	ug/L	50	55.7	111		1		74 - 129	0 - 30
Trichloroethene	ug/L	50	48.8	98		2		80 - 123	0 - 20
Vinyl chloride	ug/L	50	47.7	95		1		71 - 126	0 - 30
cis-1,2-Dichloroethene	ug/L	50	49.2	98		3		77 - 123	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB686234

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 209011424

Lab File ID: 2090115p/i2782

Lab Sample ID: 686234 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Analyzed: 01/15/09 Time: 1852

Instrument ID: MSV5 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 404503

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS686235	686235	2090115p/i2779	01/15/09	1743
2.	LCSD686236	686236	2090115p/i2780	01/15/09	1806
3.	NE4MW32C	20901142402	2090115p/i2783	01/15/09	1919
4.	OCPT-5	20901142401	2090115p/i2784	01/15/09	1942
5.	NE4MW32C MS	20901142403	2090115p/i2785	01/15/09	2017
6.	NE4MW32C MSD	20901142404	2090115p/i2786	01/15/09	2039
7.	MW-1000	20901142405	2090115p/i2788	01/15/09	2125
8.	TRIP BLANK	20901142406	2090115p/i2789	01/15/09	2148
9.	GW-011309-EB	20901142407	2090115p/i2790	01/15/09	2211
10.	GW-011309-FB	20901142408	2090115p/i2791	01/15/09	2233

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 209011424

Lab File ID: 2090114/i2724b

BFB Injection Date: 01/14/09

Instrument ID: MSV5

BFB Injection Time: 0918

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 404365

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*			
50	15.0 - 40.0% of mass 95	20.6	(	)	
75	30.0 - 60.0% of mass 95	40.56	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.22	(	)	
173	Less than 2.0% of mass 174	.34	(.47	)	1
174	50.0 - 120.0% of mass 95	73.09	(	)	
175	5.0 - 9.0% of mass 174	5.56	(7.61	)	1
176	95.0 - 101.0% of mass 174	72.98	(99.85	)	1
177	5.0 - 9.0% of mass 176	4.42	(6.06	)	2

1- Value is % mass 174

2- Value is % mass 176

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

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	V5STD001	1207	2090114/i2725	01/14/09	0940
2.	V5STD005	1201	2090114/i2726	01/14/09	1003
3.	V5STD010	1208	2090114/i2727	01/14/09	1025
4.	V5STD020	1202	2090114/i2728	01/14/09	1048
5.	V5STD050	1203	2090114/i2729	01/14/09	1111
6.	V5STD100	1204	2090114/i2730	01/14/09	1134
7.	V5STD200	1205	2090114/i2731	01/14/09	1156
8.	V5ICV050	1600	2090114/i2733	01/14/09	1259

FORM V VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 209011424

Lab File ID: 2090115p/i2778

BFB Injection Date: 01/15/09

Instrument ID: MSV5

BFB Injection Time: 1706

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 404503

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	19.18	(	)	
75	30.0 - 60.0% of mass 95	42.32	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.6	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 120.0% of mass 95	75.45	(	)	
175	5.0 - 9.0% of mass 174	5.21	(6.91	)	1
176	95.0 - 101.0% of mass 174	72.22	(95.73	)	1
177	5.0 - 9.0% of mass 176	4.64	(6.43	)	2

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

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V5STD050	1400	2090115p/i2779	01/15/09	1743
2.	LCS686235	686235	2090115p/i2779	01/15/09	1743
3.	LCSD686236	686236	2090115p/i2780	01/15/09	1806
4.	MB686234	686234	2090115p/i2782	01/15/09	1852
5.	NE4MW32C	20901142402	2090115p/i2783	01/15/09	1919
6.	OCPT-5	20901142401	2090115p/i2784	01/15/09	1942
7.	NE4MW32C MS	20901142403	2090115p/i2785	01/15/09	2017
8.	NE4MW32C MSD	20901142404	2090115p/i2786	01/15/09	2039
9.	MW-1000	20901142405	2090115p/i2788	01/15/09	2125
10.	TRIP BLANK	20901142406	2090115p/i2789	01/15/09	2148
11.	GW-011309-EB	20901142407	2090115p/i2790	01/15/09	2211
12.	GW-011309-FB	20901142408	2090115p/i2791	01/15/09	2233

FORM V VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 209011424
Lab File ID (Standard): 2090115p/i2779
Date Analyzed: 01/15/09
Instrument ID: MSV5
Time: 1743
GC Column: RTX-VMS-30 ID: .25 (mm)
Heated Purge: (Y/N) N
Analytical Batch: 404503

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
STANDARD	242874	9.98	185250	12.08	535838	7.2

EPA Sample	IS 1 Area	#	RT	#	IS 2 Area	#	RT	#	IS 3 Area	#	RT	#
1. LCS686235	242874		9.98		185250		12.08		535838		7.2	
2. GW-011309-EB	232231		9.97		156492		12.07		522059		7.19	
3. GW-011309-FB	231612		9.97		155178		12.06		509990		7.19	
4. LCSD686236	239069		9.98		181410		12.07		529528		7.2	
5. MB686234	237258		9.98		169690		12.07		532891		7.2	
6. NE4MW32C	239850		9.97		169719		12.08		531732		7.2	
7. OCPT-5	231370		9.98		155547		12.07		519473		7.19	
8. NE4MW32C MS	231984		9.97		175127		12.07		512875		7.2	
9. NE4MW32C MSD	236622		9.97		178803		12.07		519388		7.2	
10. MW-1000	235554		9.97		163985		12.06		517073		7.19	
11. TRIP BLANK	238579		9.97		165049		12.06		529475		7.19	

IS 1 ID : Chlorobenzene-d5
IS 2 ID : 1,4-Dichlorobenzene-d4
IS 3 ID : Fluorobenzene

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

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

FORM V III VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

OCPT-5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142401

Level: (low/med) LOW Lab File ID: 2090115p/i2784

% Moisture: not dec. Date Collected: 01/13/09 Time: 1000

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 1942

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.201	5.00
96-18-4	1,2,3-Trichloropropane	5.00	U	0.091	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
71-43-2	Benzene	5.00	U	0.065	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	5.00	U	0.153	5.00
79-01-6	Trichloroethene	5.00	U	0.118	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.162	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2784.d
Lab Smp Id: 20901142401
Inj Date : 15-JAN-2009 19:42
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142401*
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
$ 39 Dibromofluoromethane	111	6.398	6.402	(0.890)	154715	49.6424	49.6	6197
$ 48 1,2-Dichloroethane-d4	67	6.930	6.935	(0.964)	83220	48.0060	48.0	
* 52 FLUOROBENZENE	96	7.190	7.196	(1.000)	519473	50.0000		
$ 67 Toluene-d8	98	8.623	8.630	(0.864)	497660	49.2302	49.2	
* 83 CHLOROBENZENE-d5	82	9.979	9.979	(1.000)	231370	50.0000		
$ 94 Bromofluorobenzene	174	11.021	11.023	(1.104)	121628	47.9444	47.9	
* 111 1,4-DICHLOROBENZENE-D4	152	12.074	12.080	(1.000)	155547	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2784.d

Page 1

Date : 15-JAN-2009 19:42

Client ID:

Instrument: msv5.i

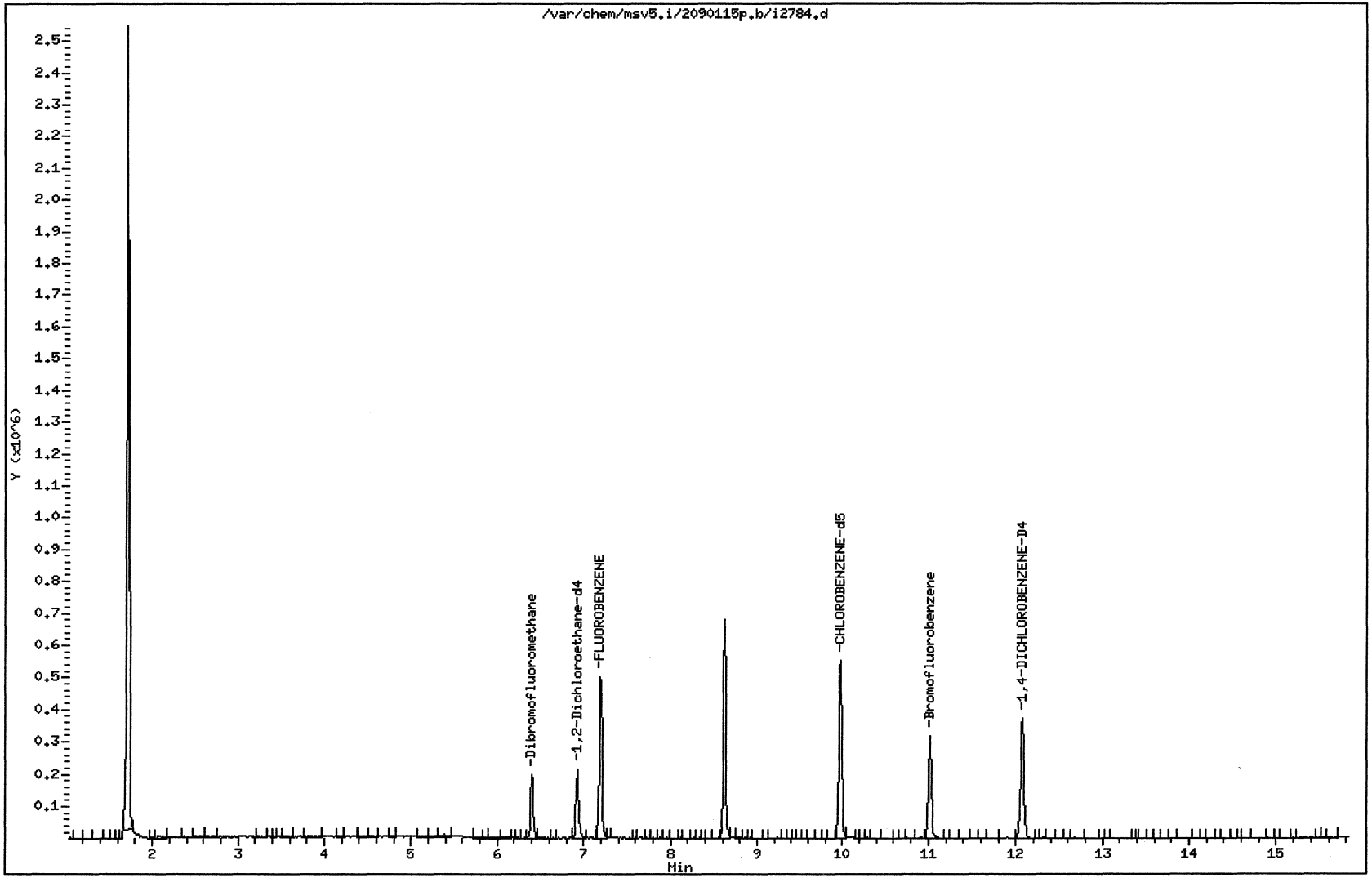
Sample Info: 20901142401*

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

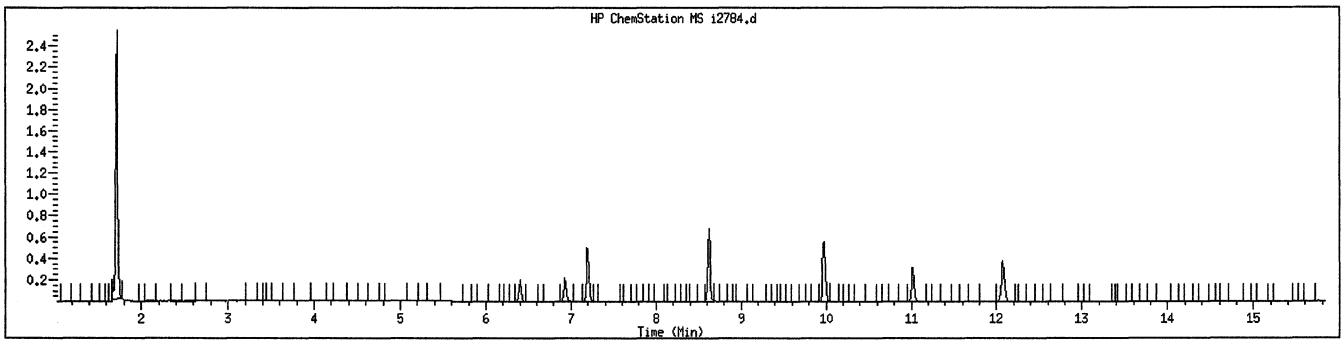
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2784.d
Report Date: 01/15/2009 20:06

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20901142401	SampleType	: SAMPLE
Injection Date	: 01/15/2009 19:42	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 20901142401*		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

NE4MW32C

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142402

Level: (low/med) LOW Lab File ID: 2090115p/i2783

% Moisture: not dec. Date Collected: 01/13/09 Time: 0915

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 1919

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
75-35-4	1,1-Dichloroethene	1.43	J	0.201	5.00
96-18-4	1,2,3-Trichloropropane	4.20	J	0.091	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
71-43-2	Benzene	1.41	J	0.065	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	5.00	U	0.153	5.00
79-01-6	Trichloroethene	34.1		0.118	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
156-59-2	cis-1,2-Dichloroethene	112		0.162	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2783.d
Lab Smp Id: 20901142402
Inj Date : 15-JAN-2009 19:19
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142402*
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
11 1,1-Dichloroethene +	96	3.521	3.522	(0.489)	3383	1.43253	1.43	
12 Carbon Disulfide	76	3.543	3.554	(0.492)	8587	1.13367	1.13	
27 1,1-Dichloroethane ++	63	5.313	5.315	(0.738)	103743	19.2588	19.3	
M 61 Total 1,2-Dichloroethene	61				533894	111.576	112	
31 cis-1,2-Dichloroethene	61	5.921	5.923	(0.822)	533894	111.576	112	
$ 39 Dibromofluoromethane	111	6.399	6.402	(0.888)	154023	48.2810	48.3	6260
45 Benzene	78	6.800	6.794	(0.944)	18536	1.41472	1.41	
$ 48 1,2-Dichloroethane-d4	67	6.931	6.935	(0.962)	89097	50.2112	50.2	
* 52 FLUOROBENZENE	96	7.202	7.196	(1.000)	531732	50.0000		
54 Trichloroethene	130	7.354	7.359	(1.021)	106773	34.1342	34.1	
$ 67 Toluene-d8	98	8.624	8.630	(0.865)	522225	49.8338	49.8	
* 83 CHLOROBENZENE-d5	82	9.970	9.979	(1.000)	239850	50.0000		
$ 94 Bromofluorobenzene	174	11.012	11.023	(1.105)	127640	48.5354	48.5	
100 1,2,3-Trichloropropane	75	11.316	11.317	(0.937)	19645	4.19532	4.20	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
* 111 1,4-DICHLOROBENZENE-D4	152	12.076	12.080	(1.000)	169719	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2783.d

Page 1

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

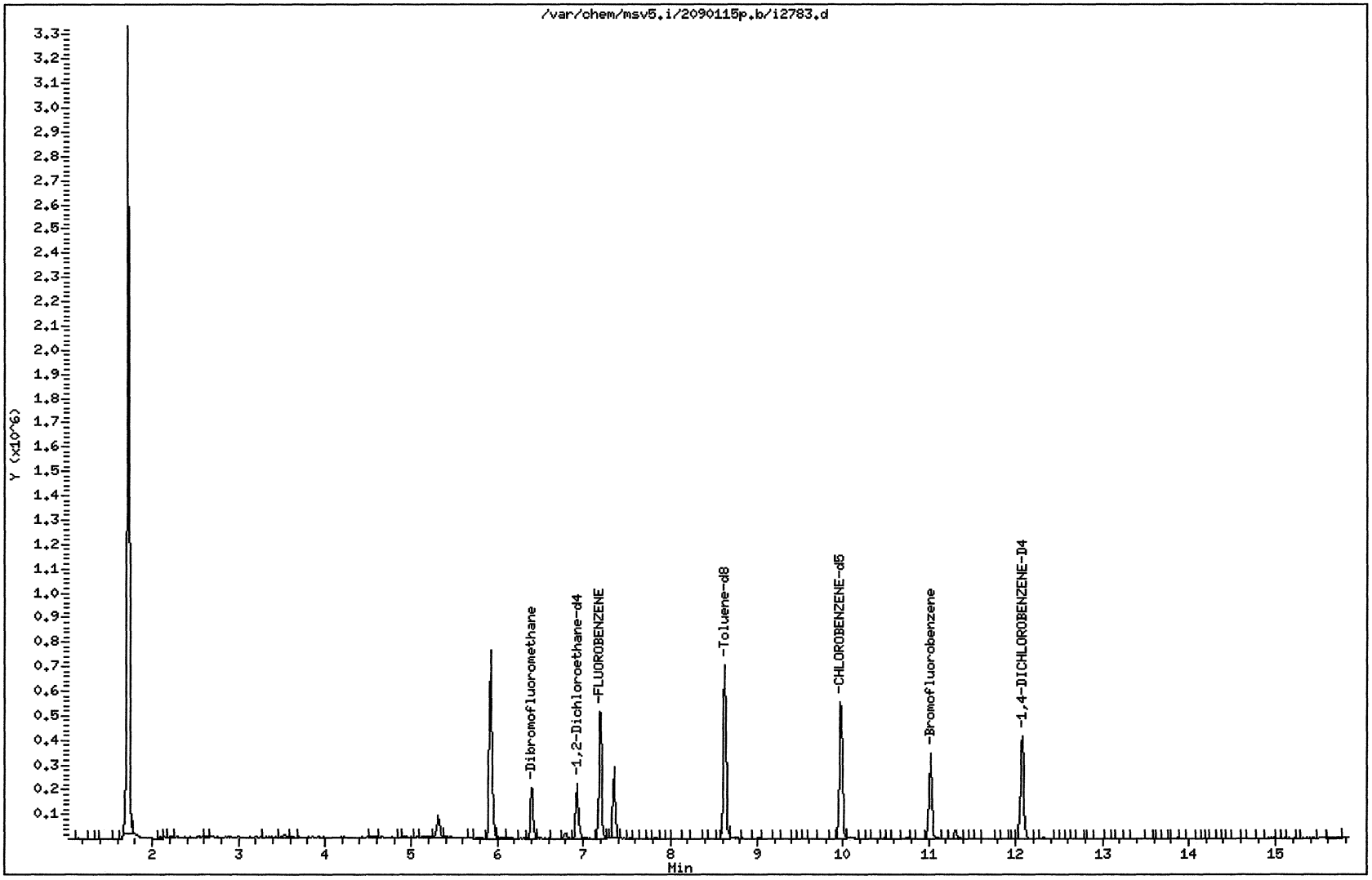
Sample Info: 20901142402*

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25



Data File: /var/chem/msv5.i/2090115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402*

Purge Volume: 5.0

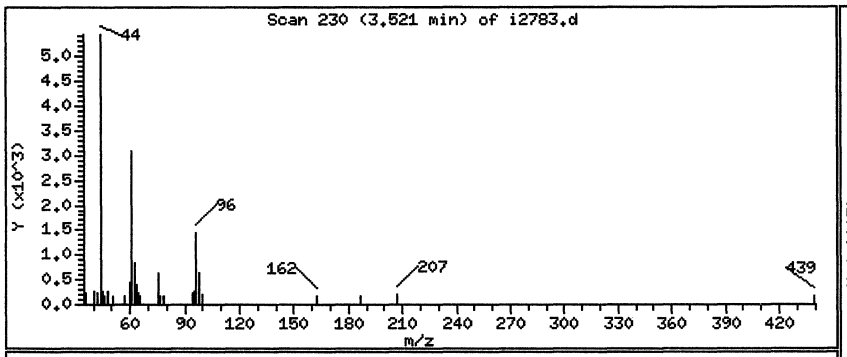
Operator: JCK

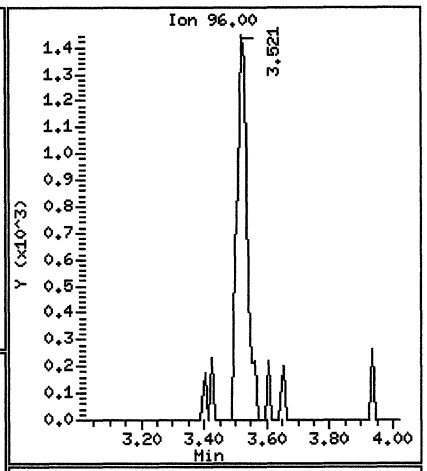
Column phase: RTX-VMS-30M

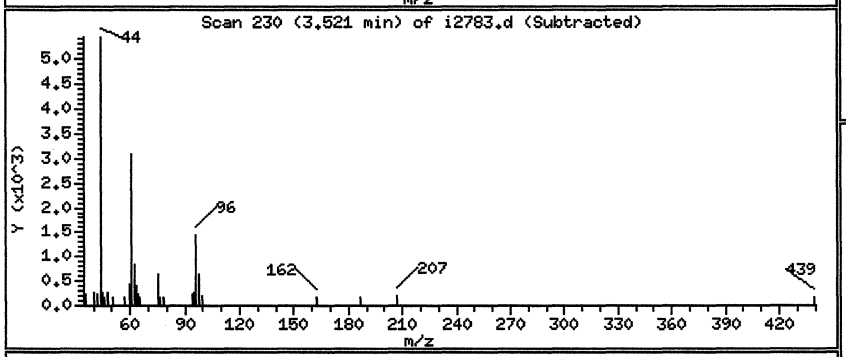
Column diameter: 0.25

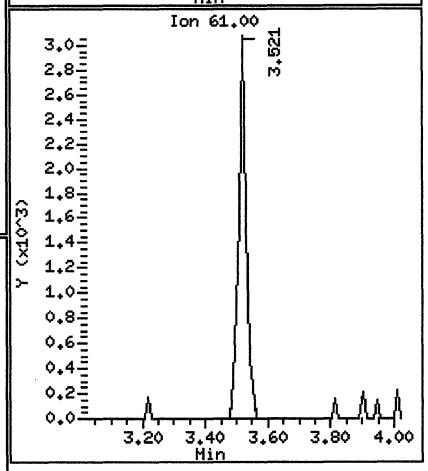
11 1,1-Dichloroethene +

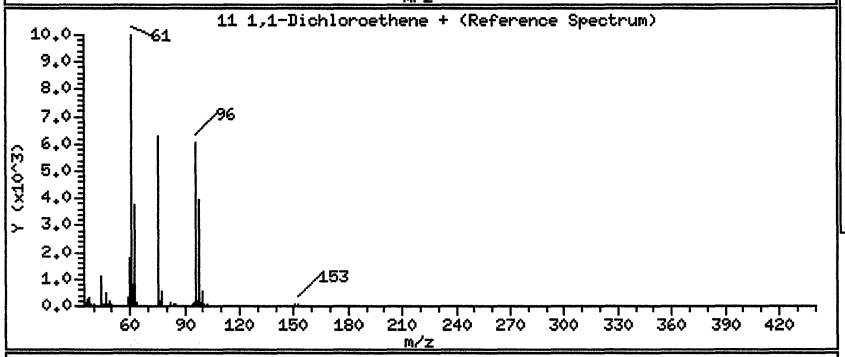
Concentration: 1.43 ug/L

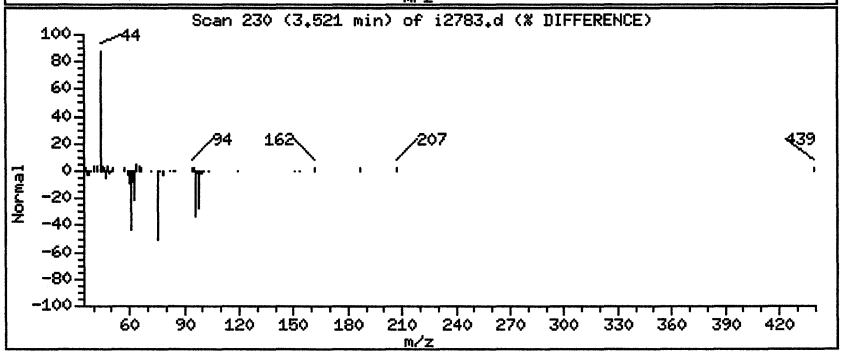












Data File: /var/chem/msv5.i/2090115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402×

Purge Volume: 5.0

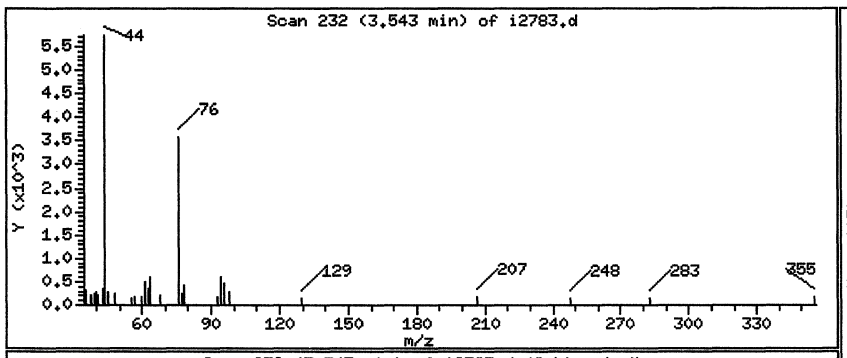
Operator: JCK

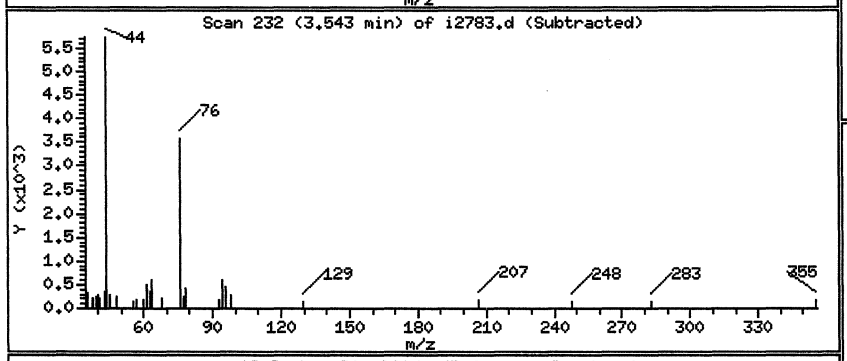
Column phase: RTX-VMS-30M

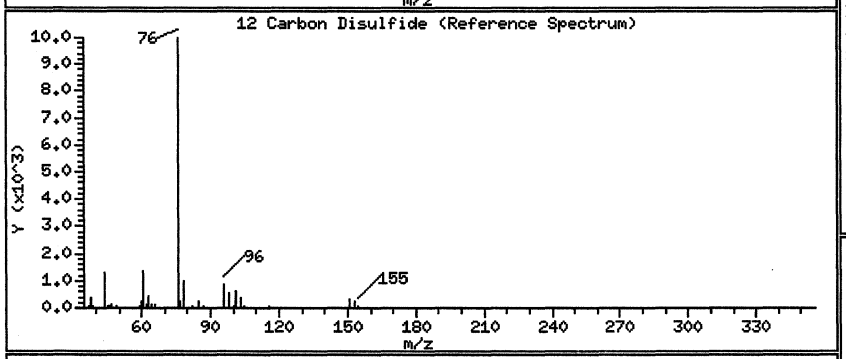
Column diameter: 0.25

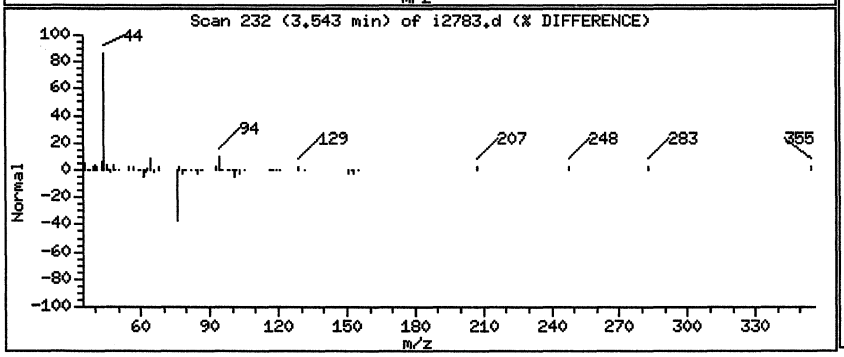
12 Carbon Disulfide

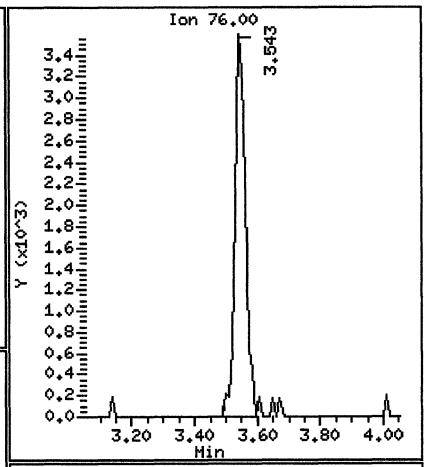
Concentration: 1.13 ug/L

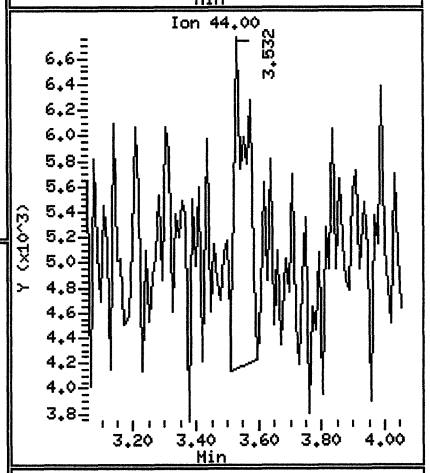


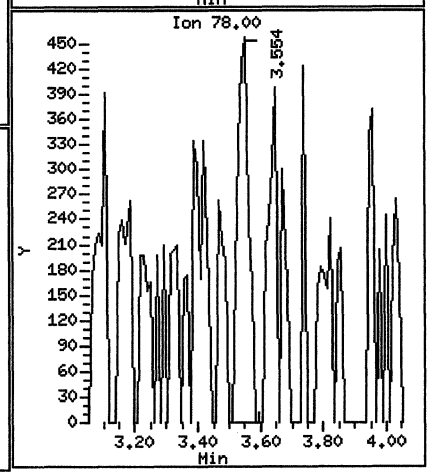












Data File: /var/chem/msv5.i/20901115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402*

Purge Volume: 5.0

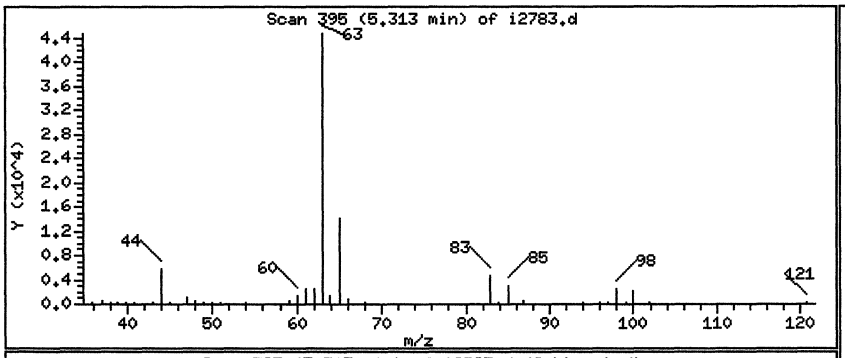
Operator: JCK

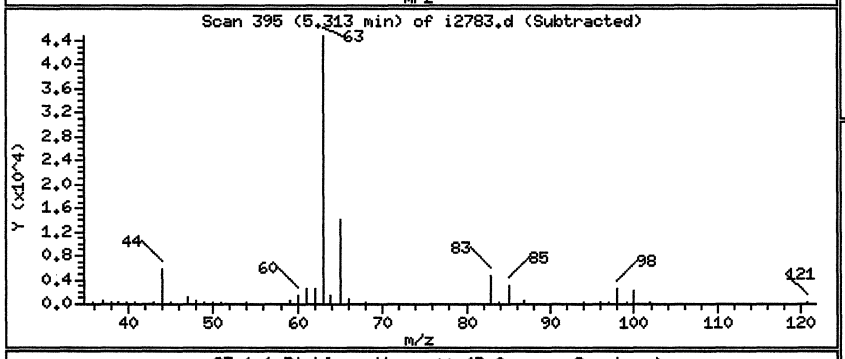
Column phase: RTX-VMS-30M

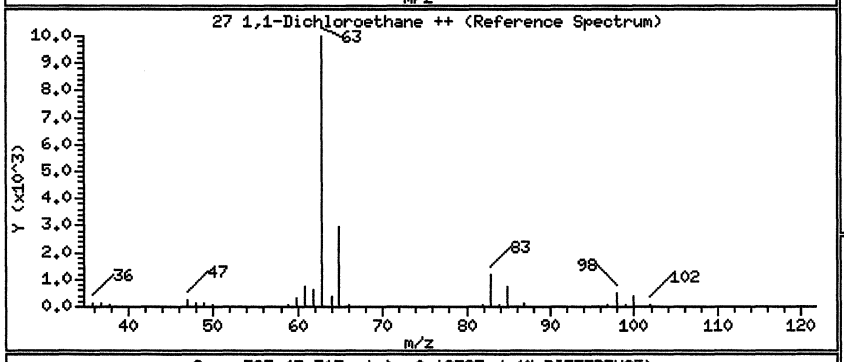
Column diameter: 0.25

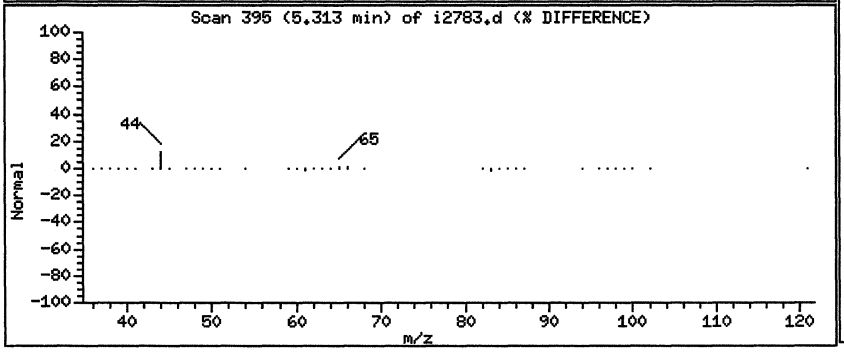
27 1,1-Dichloroethane ++

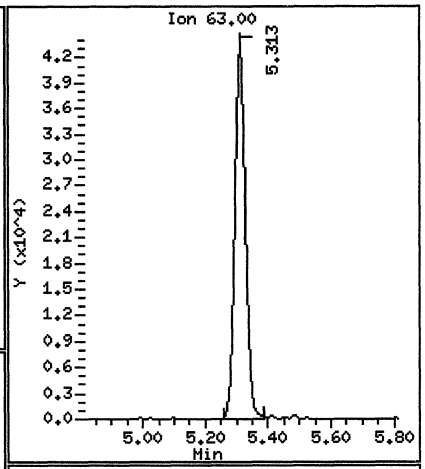
Concentration: 19.3 ug/L

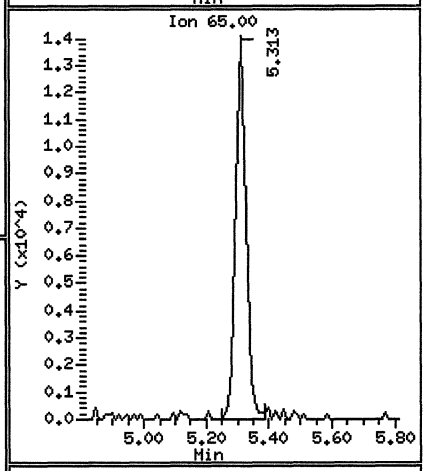


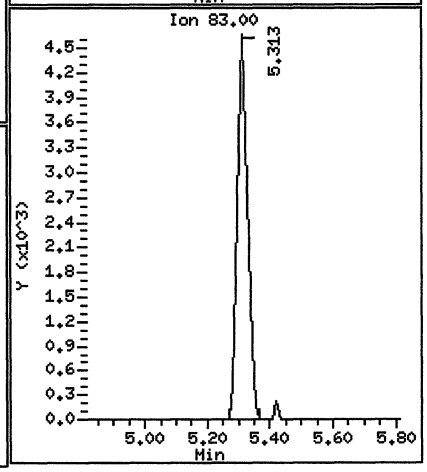












Data File: /var/chem/msv5.i/20901115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402*

Purge Volume: 5.0

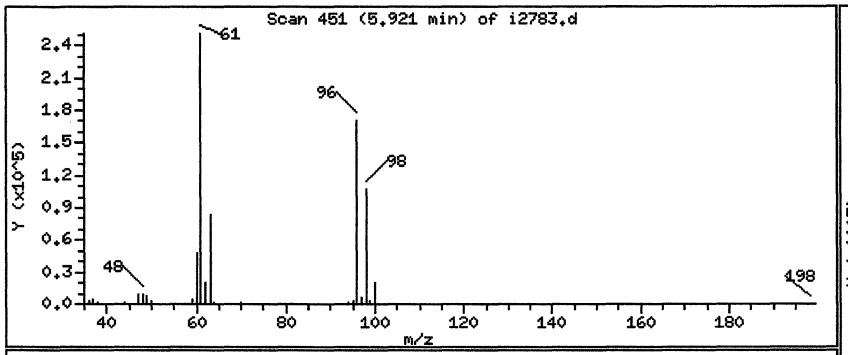
Operator: JCK

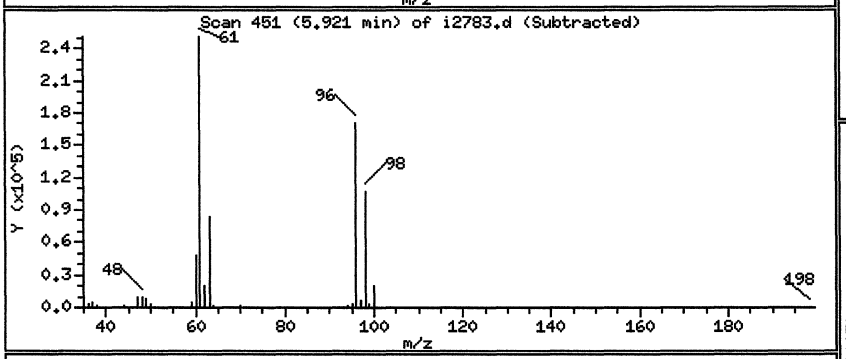
Column phase: RTX-VMS-30M

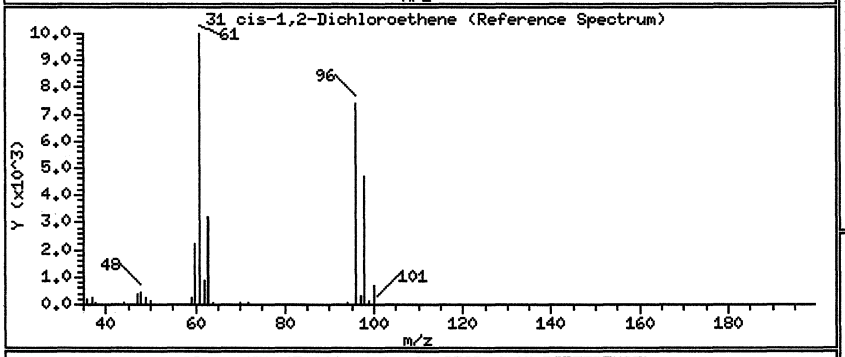
Column diameter: 0.25

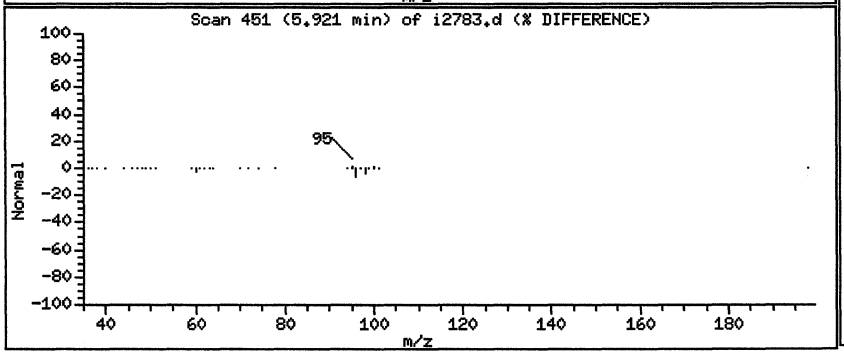
31 cis-1,2-Dichloroethene

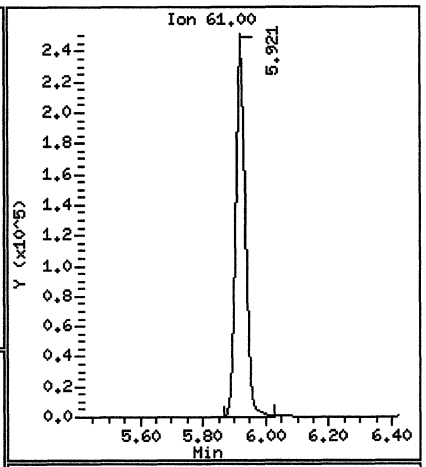
Concentration: 112 ug/L

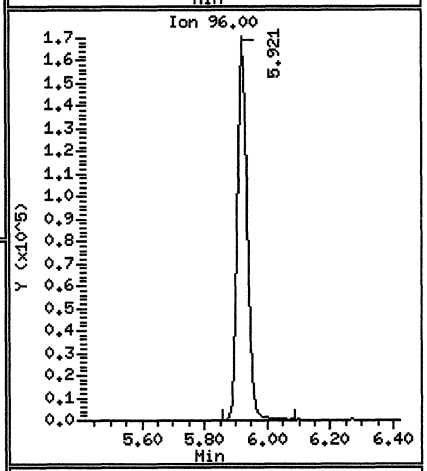


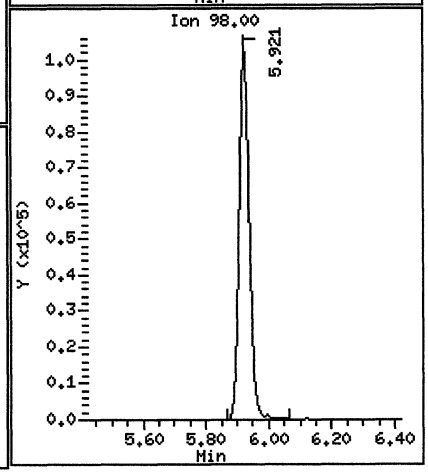












Data File: /var/chem/msv5.i/20901115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402*

Purge Volume: 5.0

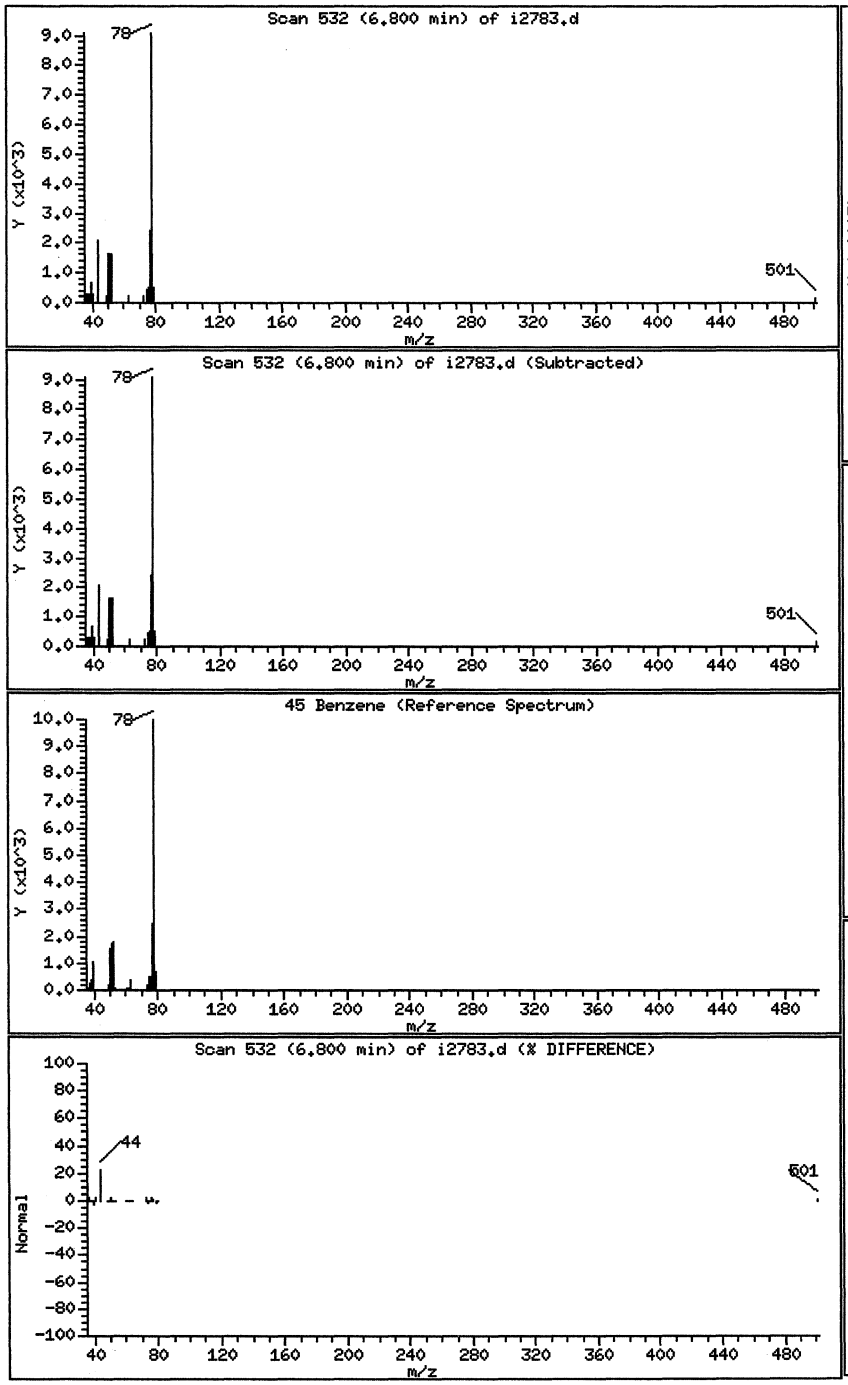
Operator: JCK

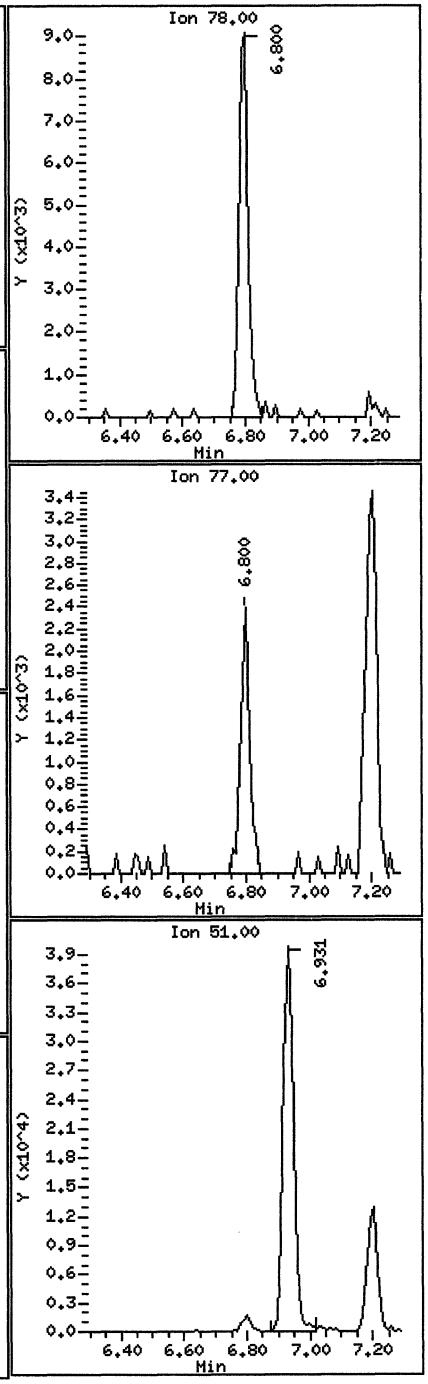
Column phase: RTX-VMS-30M

Column diameter: 0.25

45 Benzene

Concentration: 1.41 ug/L





Data File: /var/chem/msv5.i/2090115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402*

Purge Volume: 5.0

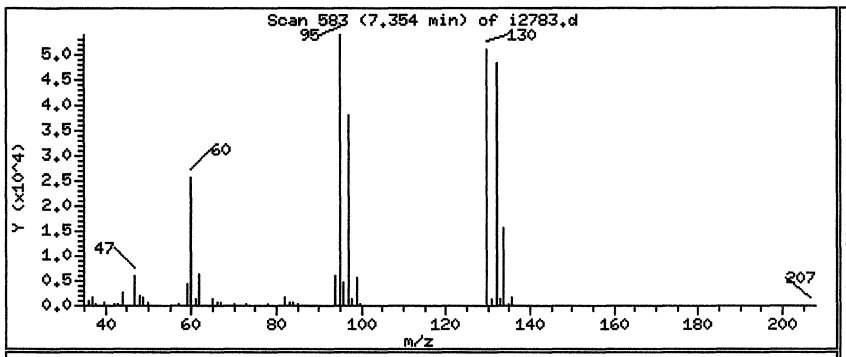
Operator: JCK

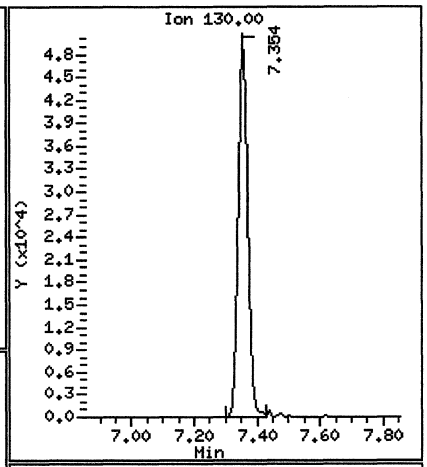
Column phase: RTX-VMS-30M

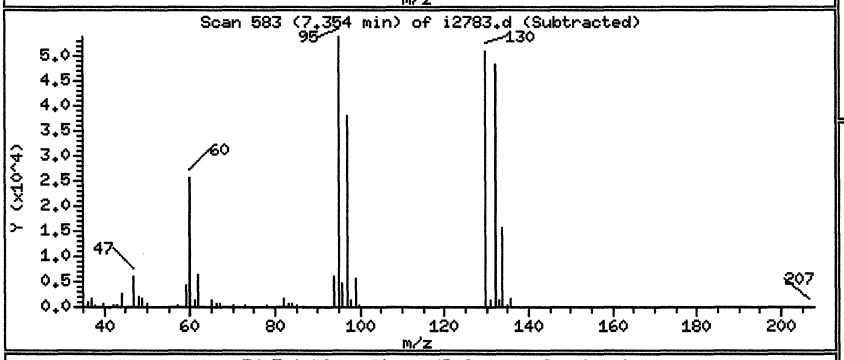
Column diameter: 0.25

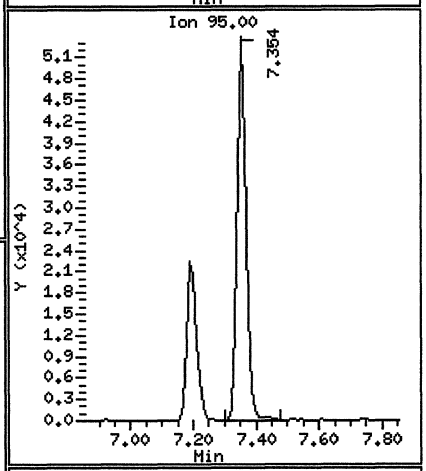
54 Trichloroethene

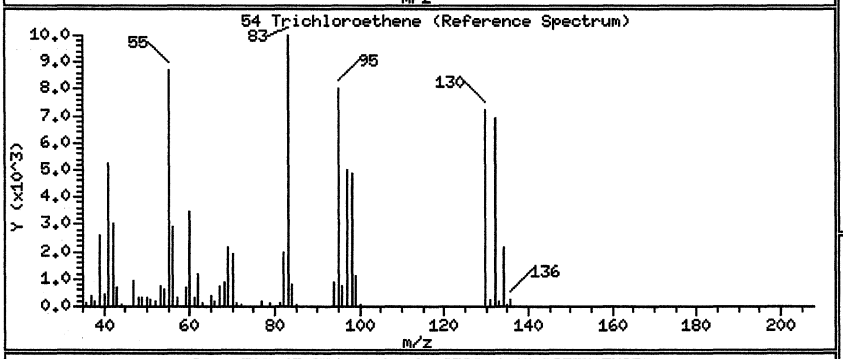
Concentration: 34.1 ug/L

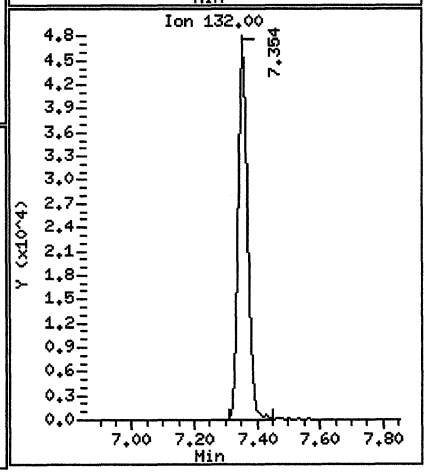


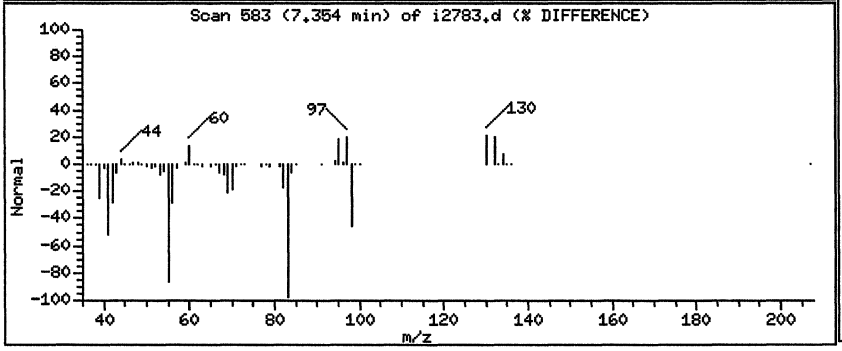












Data File: /var/chem/msv5.i/20901115p.b/i2783.d

Date : 15-JAN-2009 19:19

Client ID:

Instrument: msv5.i

Sample Info: 20901142402*

Purge Volume: 5.0

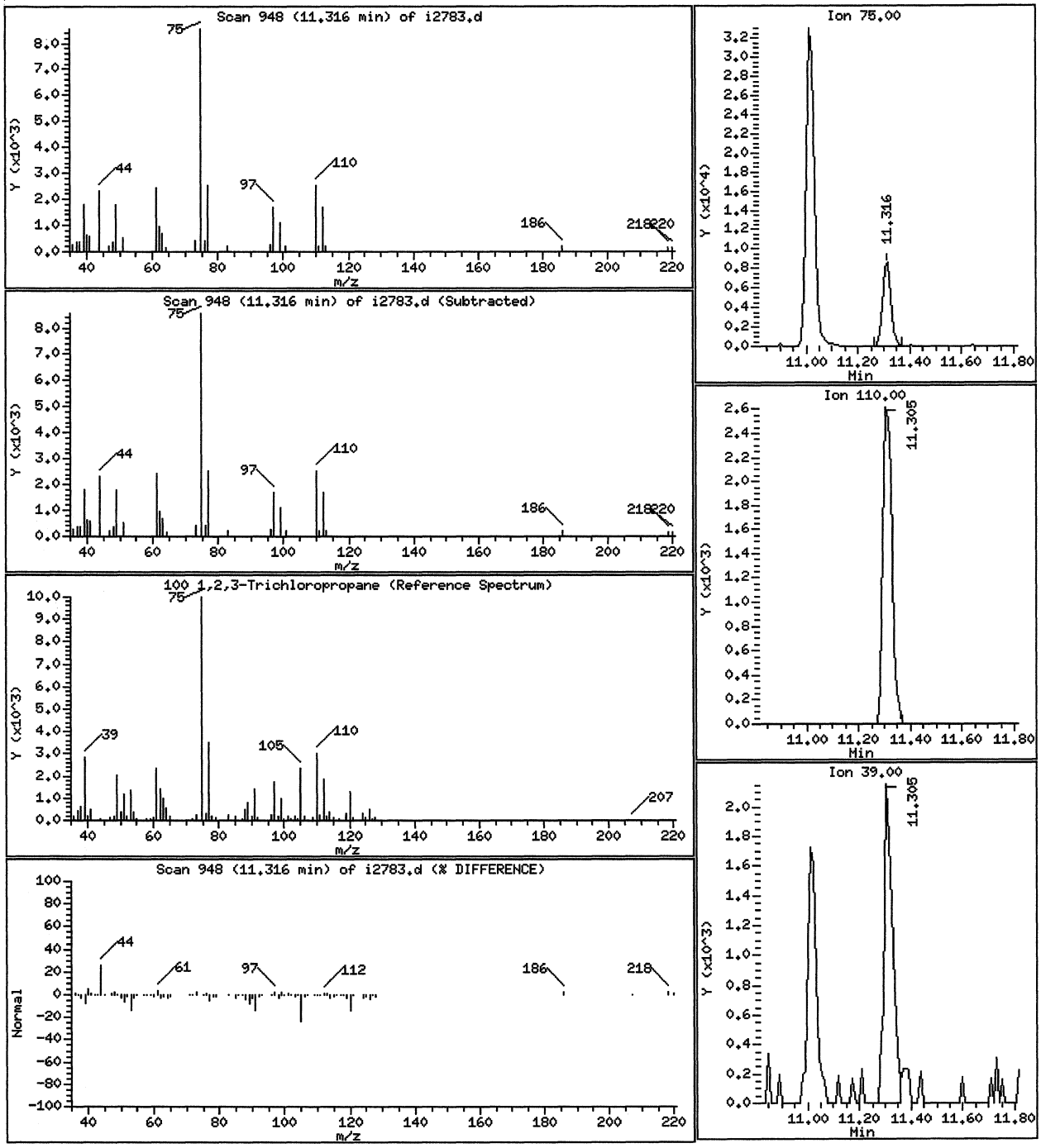
Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

100 1,2,3-Trichloropropane

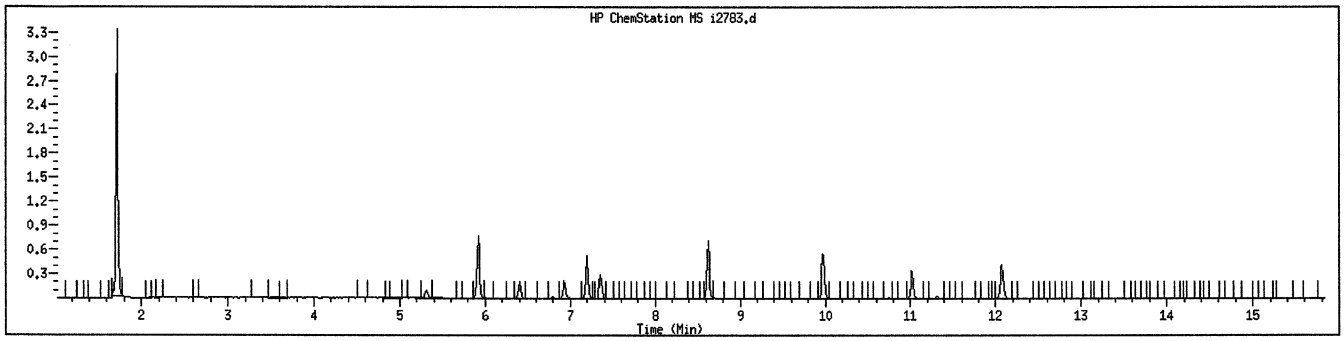
Concentration: 4.20 ug/L



Data file : /var/chem/msv5.i/2090115p.b/i2783.d Page: 1
Report Date: 01/15/2009 20:06

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 20901142402 SampleType : SAMPLE
Injection Date: 01/15/2009 19:19 Instrument : msv5.i
Operator : JCK
Sample Info : 20901142402*
Misc Info : MSV~15220~*1*JCK
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-1000

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142405

Level: (low/med) LOW Lab File ID: 2090115p/i2788

% Moisture: not dec. Date Collected: 01/13/09 Time: 0915

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 2125

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
75-35-4	1,1-Dichloroethene	1.74	J	0.201	5.00
96-18-4	1,2,3-Trichloropropane	4.47	J	0.091	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
71-43-2	Benzene	1.59	J	0.065	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	0.595	J	0.153	5.00
79-01-6	Trichloroethene	33.2		0.118	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
156-59-2	cis-1,2-Dichloroethene	115		0.162	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2788.d
Lab Smp Id: 20901142405
Inj Date : 15-JAN-2009 21:25
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142405*
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
11 1,1-Dichloroethene +	96	3.521	3.522	(0.490)	3991	1.73790	1.74	
19 trans-1,2-Dichloroethene	61	4.542	4.554	(0.632)	2592	0.66349	0.663	
27 1,1-Dichloroethane ++	63	5.313	5.315	(0.739)	103298	19.7198	19.7	
M 61 Total 1,2-Dichloroethene	61				538977	115.938	116	
31 cis-1,2-Dichloroethene	61	5.921	5.923	(0.823)	536385	115.274	115	
$ 39 Dibromofluoromethane	111	6.398	6.402	(0.890)	154685	49.8632	49.9	6260
45 Benzene	78	6.789	6.794	(0.944)	20286	1.59218	1.59	
$ 48 1,2-Dichloroethane-d4	67	6.930	6.935	(0.964)	85551	49.5797	49.6	
* 52 FLUOROBENZENE	96	7.191	7.196	(1.000)	517073	50.0000		
54 Trichloroethene	130	7.354	7.359	(1.023)	100955	33.1892	33.2	
$ 67 Toluene-d8	98	8.624	8.630	(0.865)	521985	50.7194	50.7	
72 Tetrachloroethene	164	9.015	9.011	(0.904)	1066	0.59494	0.595	
* 83 CHLOROBENZENE-d5	82	9.970	9.979	(1.000)	235554	50.0000		
$ 94 Bromofluorobenzene	174	11.012	11.023	(1.105)	125781	48.7008	48.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
100 1,2,3-Trichloropropane	75	11.305	11.317	(0.937)	20213	4.46756	4.47	
* 111 1,4-DICHLOROBENZENE-D4	152	12.065	12.080	(1.000)	163985	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2788.d

Page 1

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

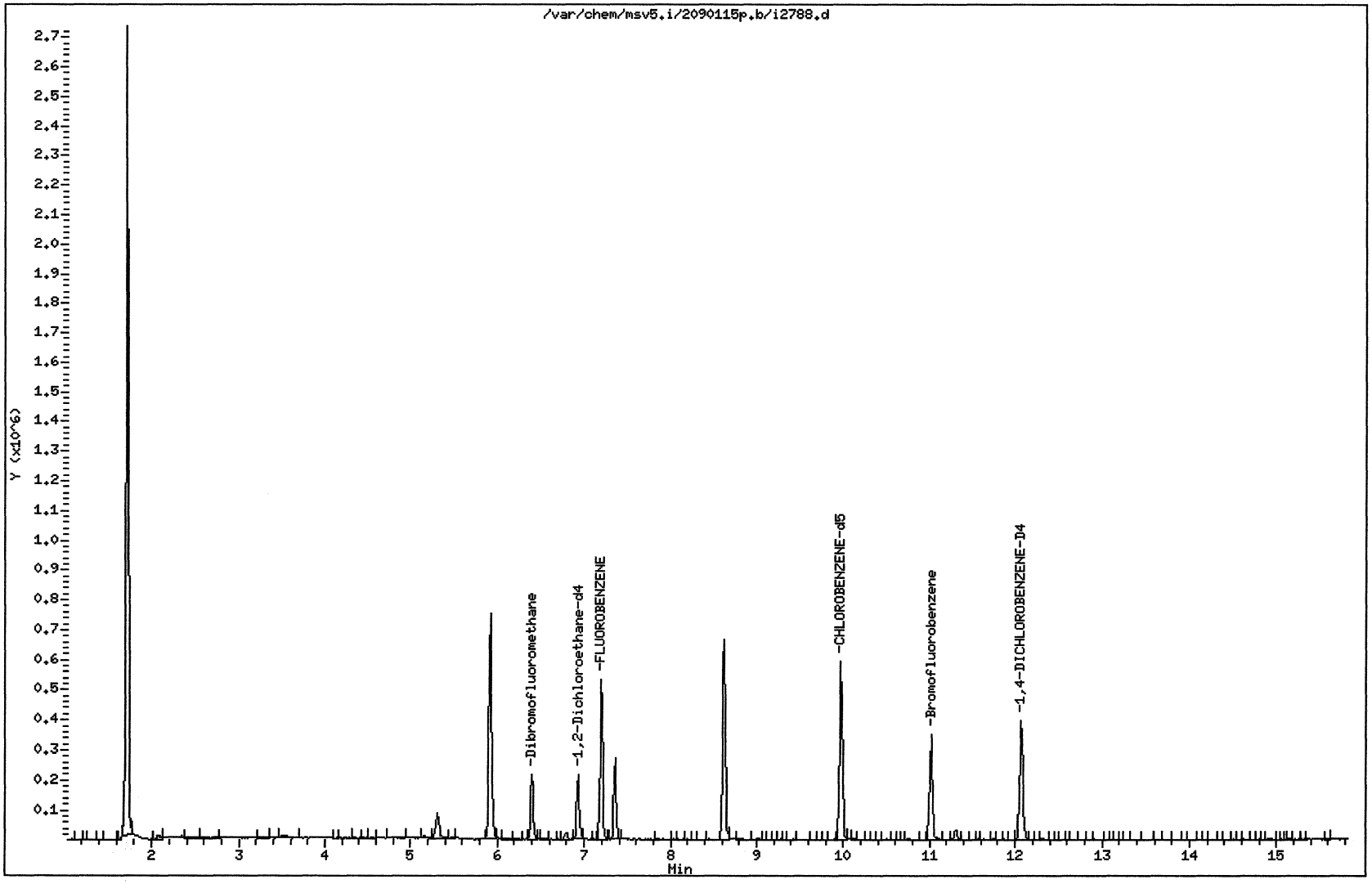
Sample Info: 20901142405*

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25



Data File: /var/chem/msv5.i/2090115p.b/i2788.d

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405x

Purge Volume: 5.0

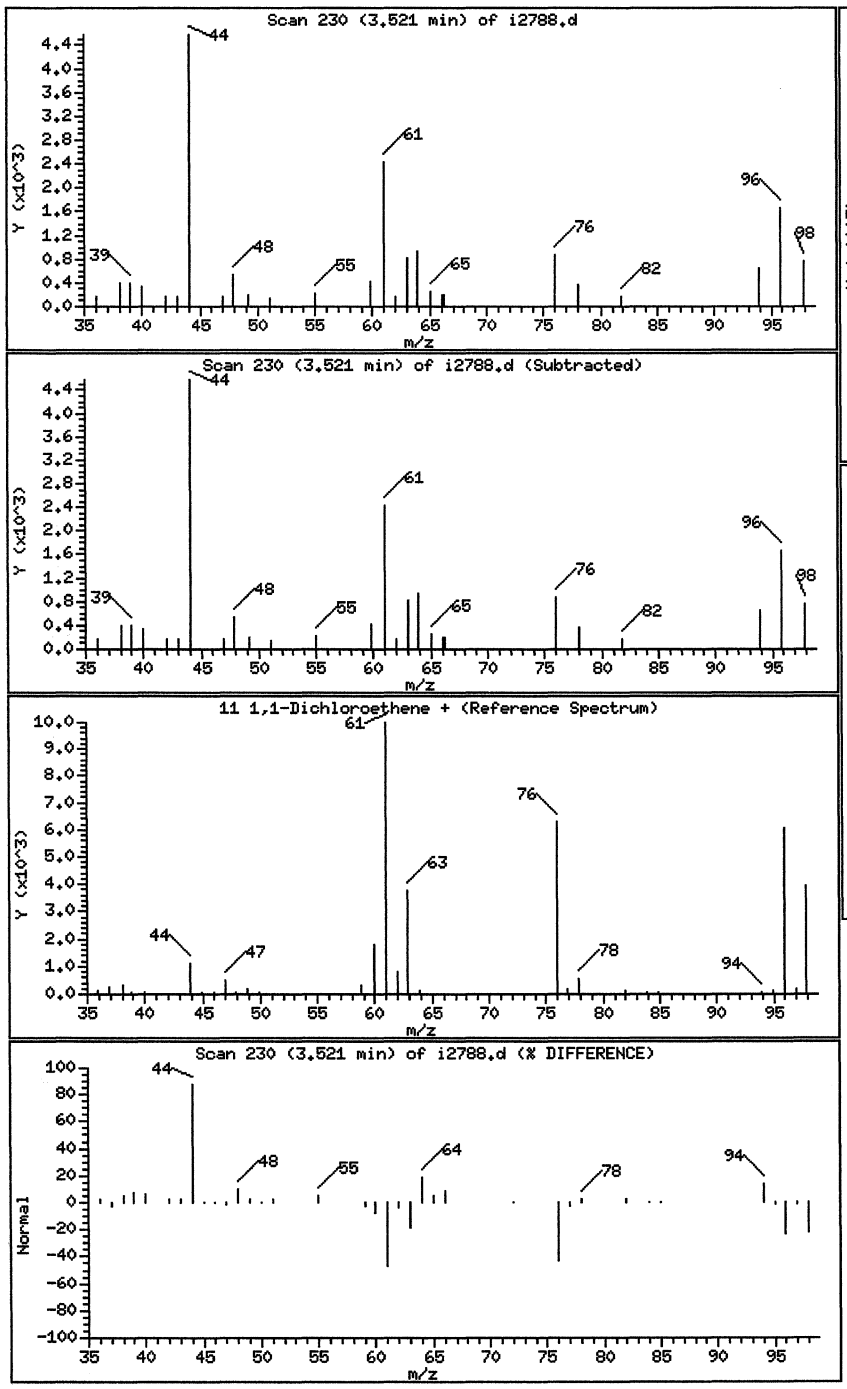
Operator: JCK

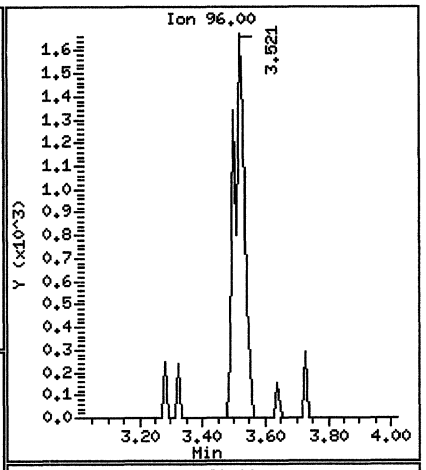
Column phase: RTX-VMS-30M

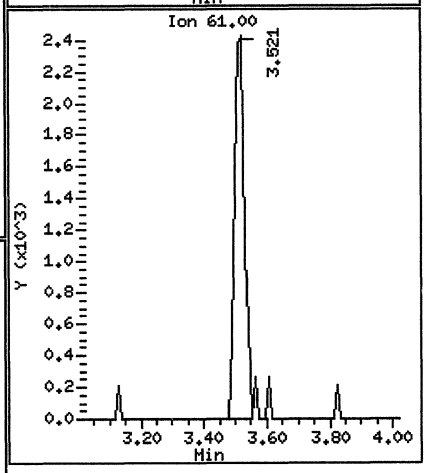
Column diameter: 0.25

11 1,1-Dichloroethene +

Concentration: 1.74 ug/L







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Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405*

Purge Volume: 5.0

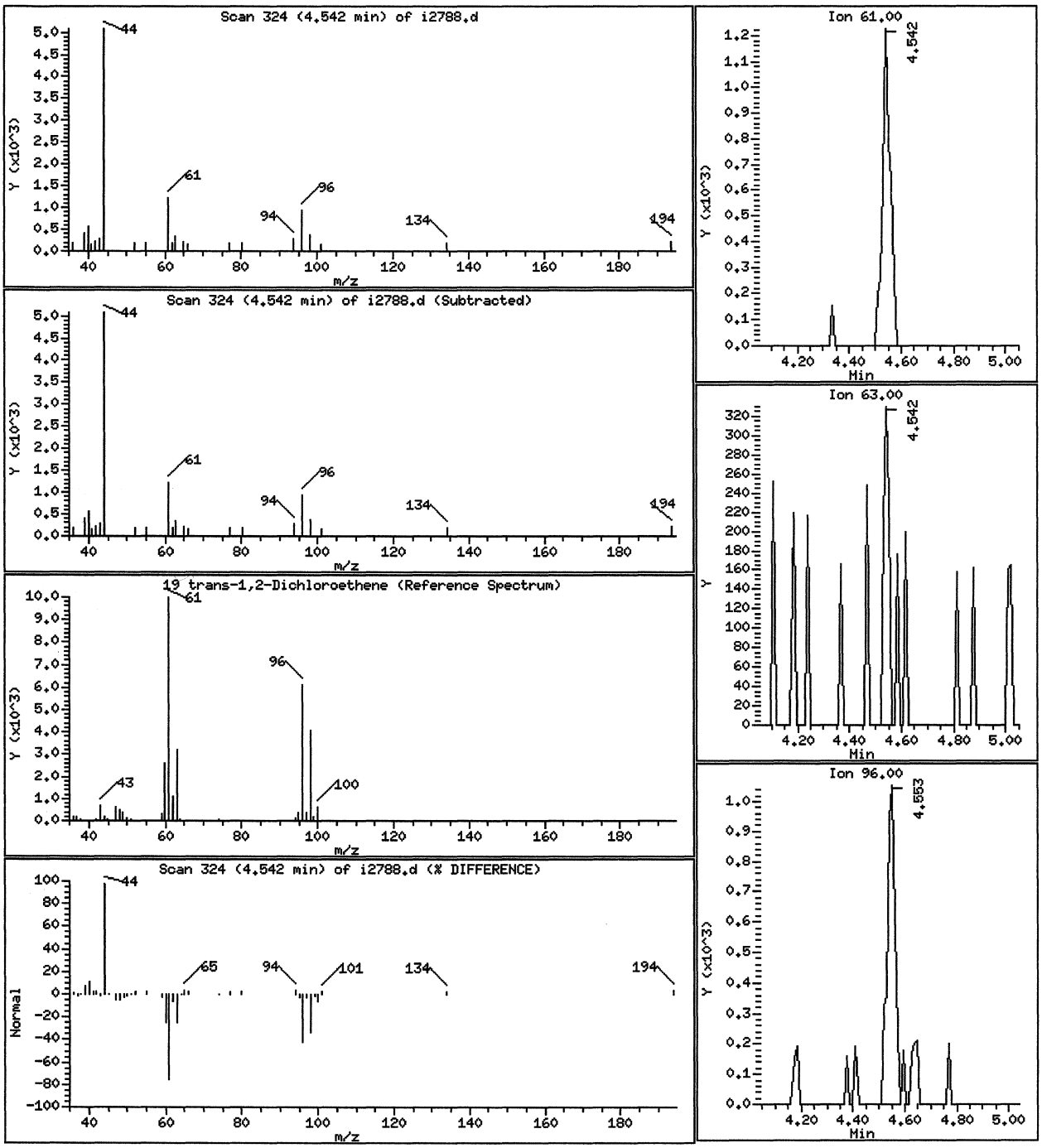
Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

19 trans-1,2-Dichloroethene

Concentration: 0.663 ug/L



Data File: /var/chem/msv5.i/20901150.b/i2788.d

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405*

Purge Volume: 5.0

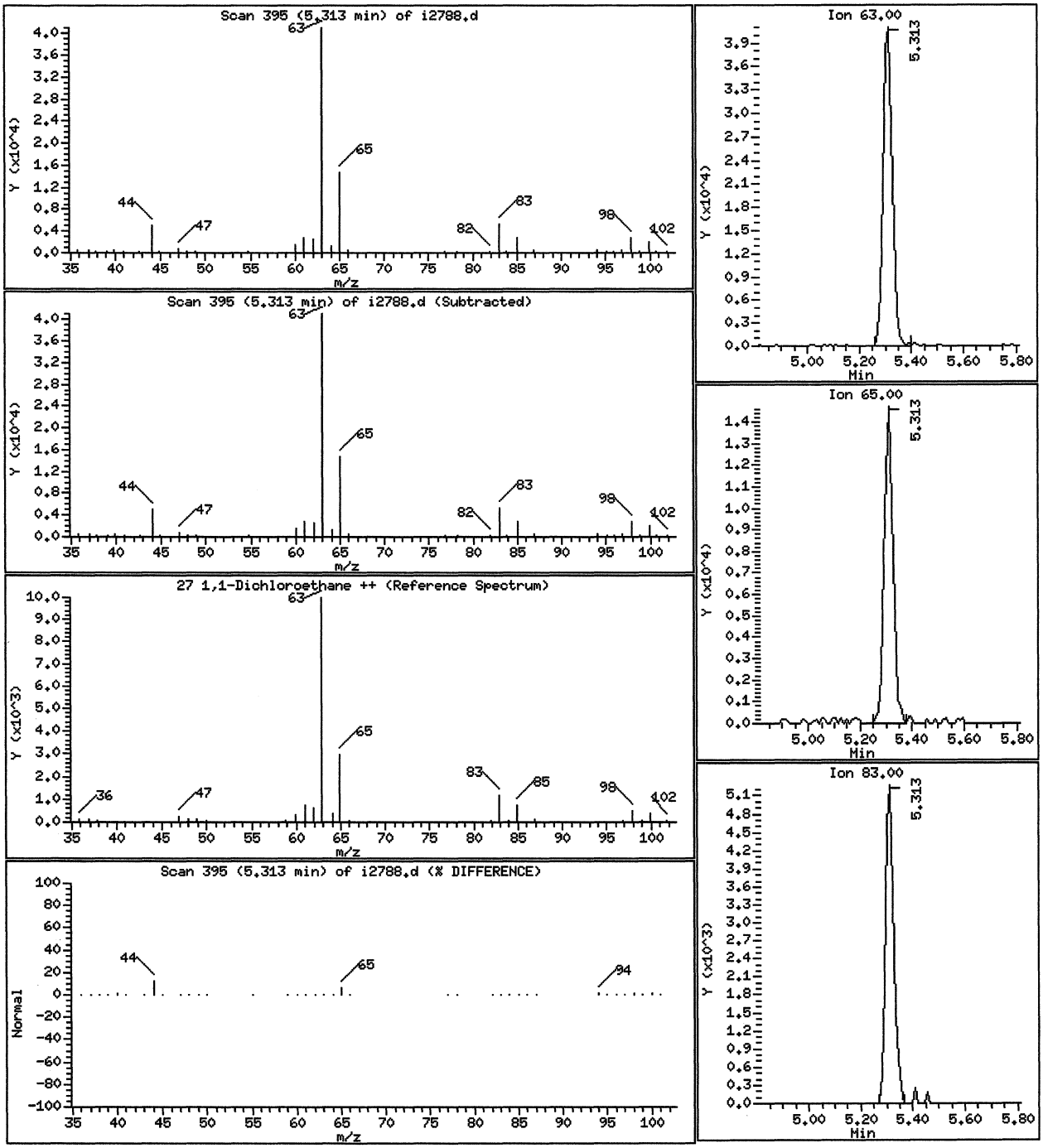
Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

27 1,1-Dichloroethane ++

Concentration: 19.7 ug/L



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Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405x

Purge Volume: 5.0

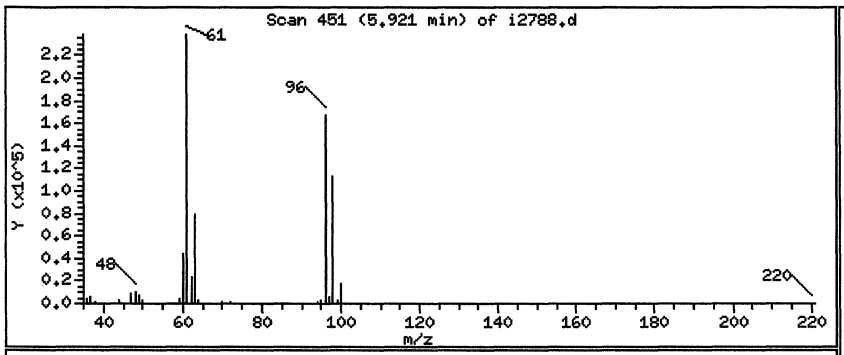
Operator: JCK

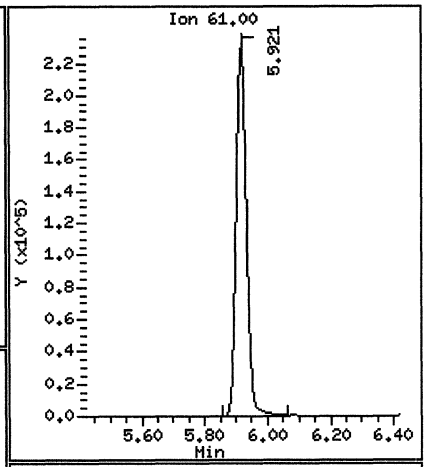
Column phase: RTX-VMS-30M

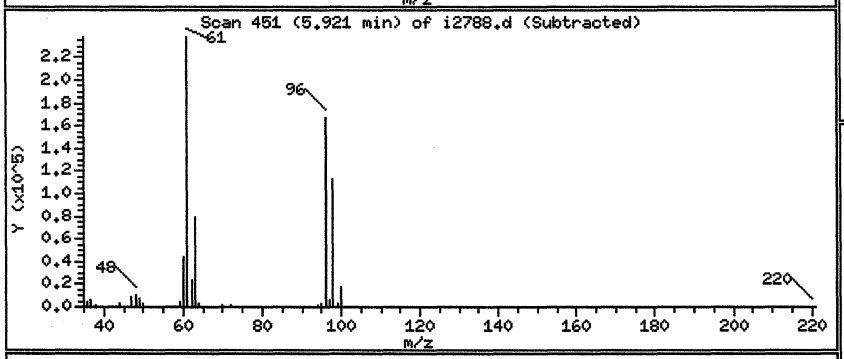
Column diameter: 0.25

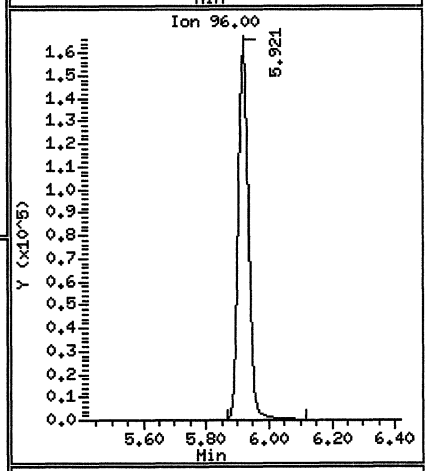
31 cis-1,2-Dichloroethene

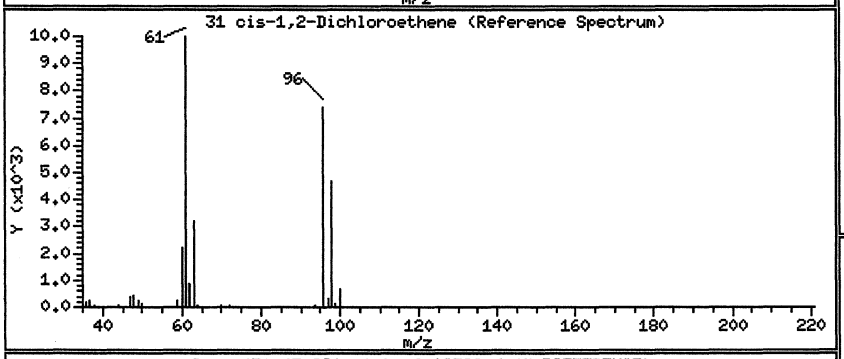
Concentration: 115 ug/L

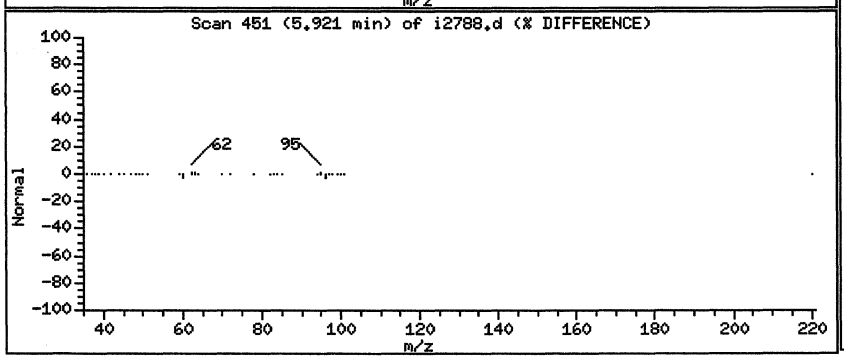


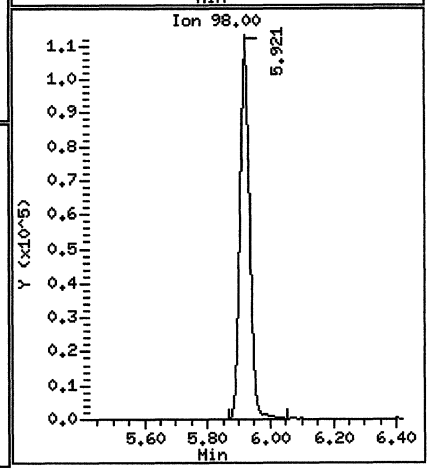












Data File: /var/chem/msv5.i/2090115p.b/i2788.d

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405*

Purge Volume: 5.0

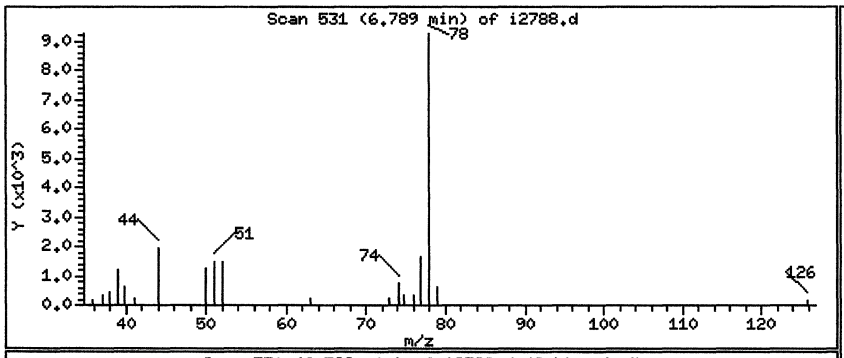
Operator: JCK

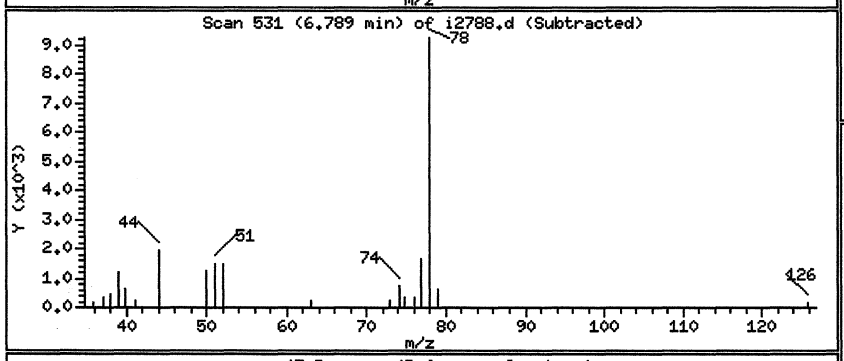
Column phase: RTX-VMS-30M

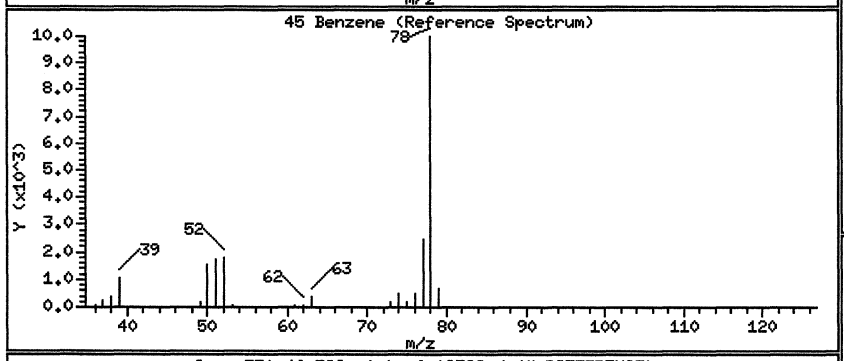
Column diameter: 0.25

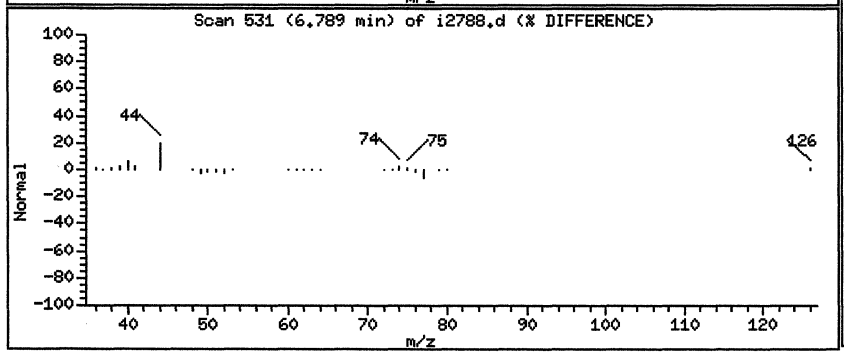
45 Benzene

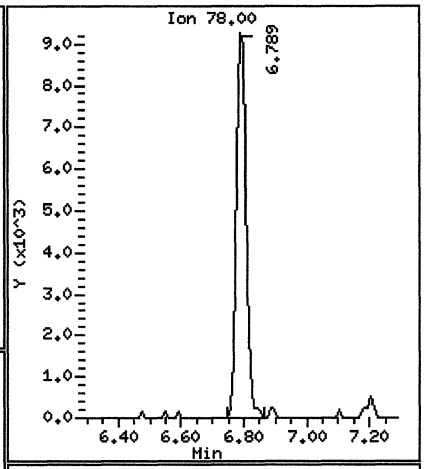
Concentration: 1.59 ug/L

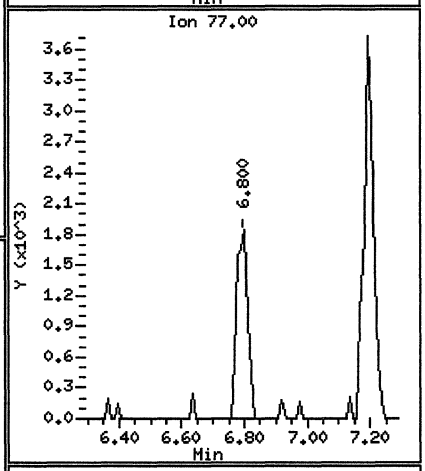


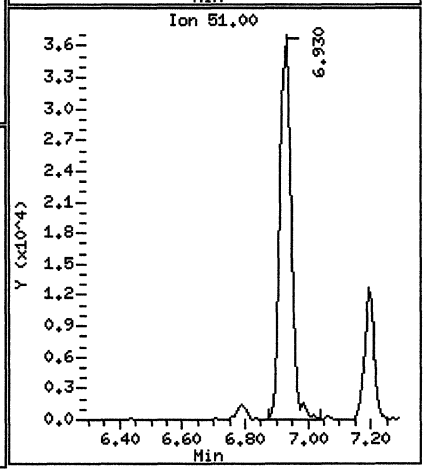












Data File: /var/chem/msv5.i/20901150.b/i2788.d

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405*

Purge Volume: 5.0

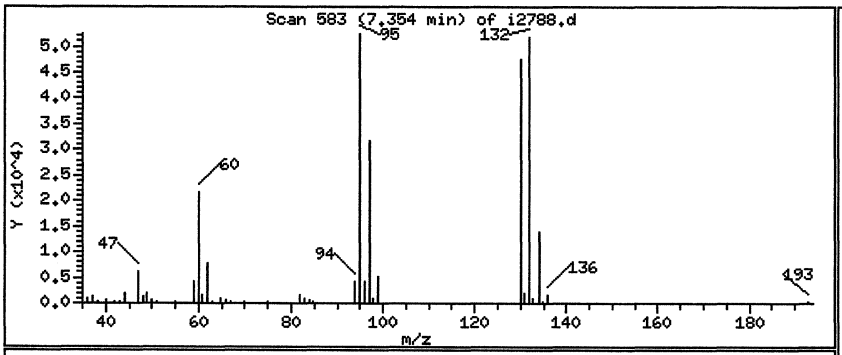
Operator: JCK

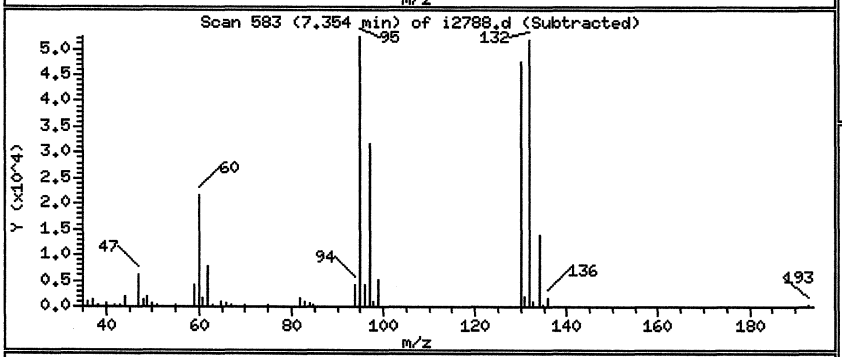
Column phase: RTX-VMS-30M

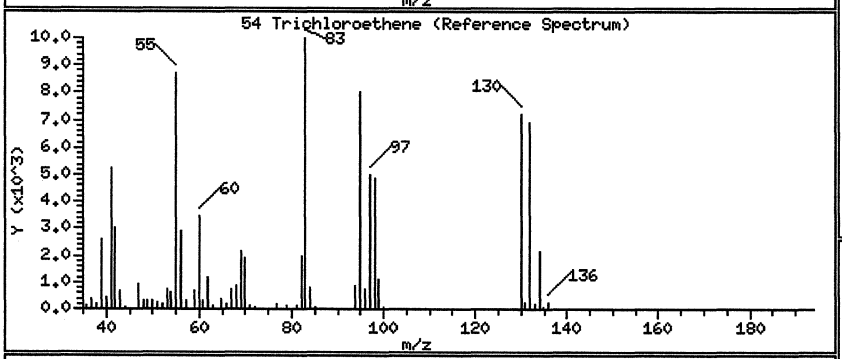
Column diameter: 0.25

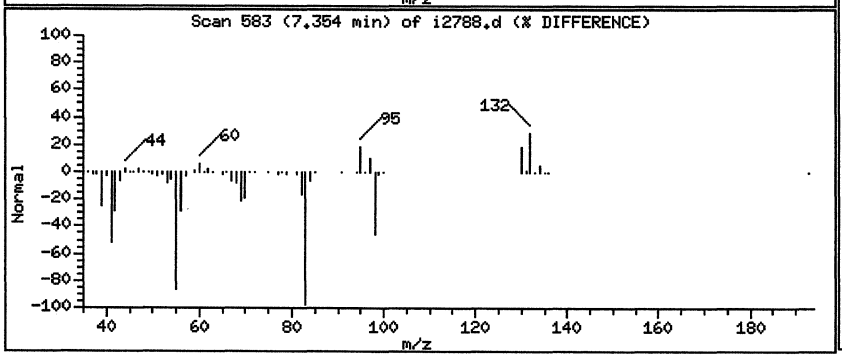
54 Trichloroethene

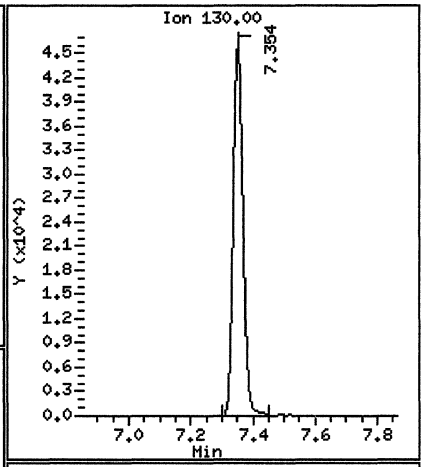
Concentration: 33.2 ug/L

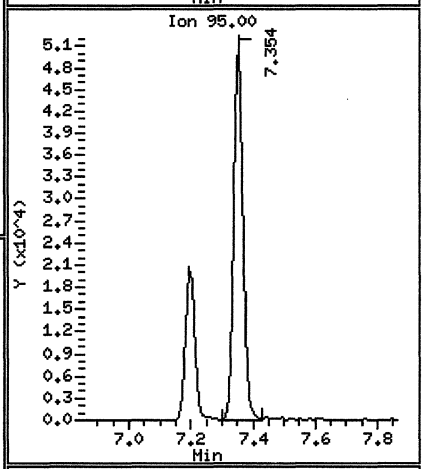


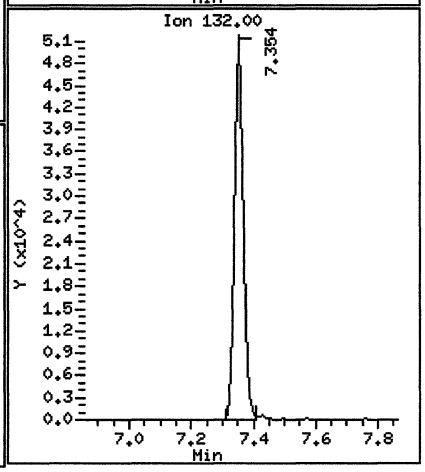












Data File: /var/chem/msv5.i/20901115p.b/i2788.d

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405*

Purge Volume: 5.0

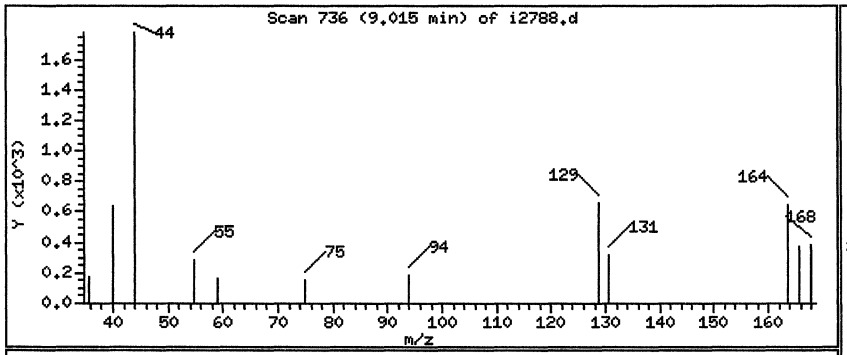
Operator: JCK

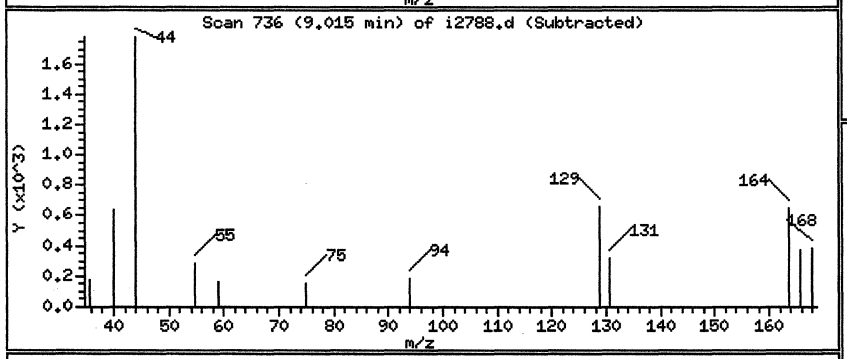
Column phase: RTX-VMS-30M

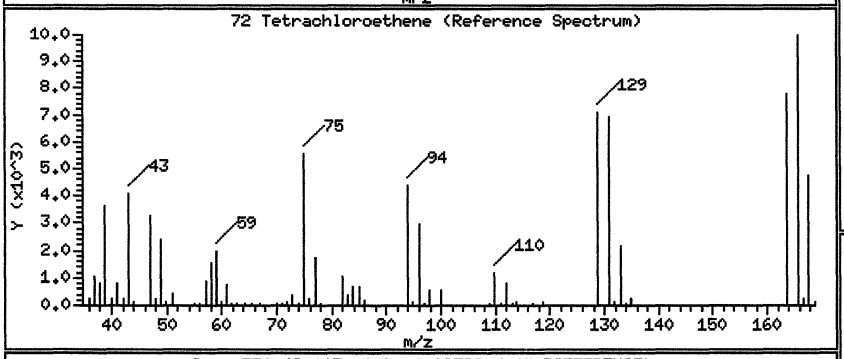
Column diameter: 0.25

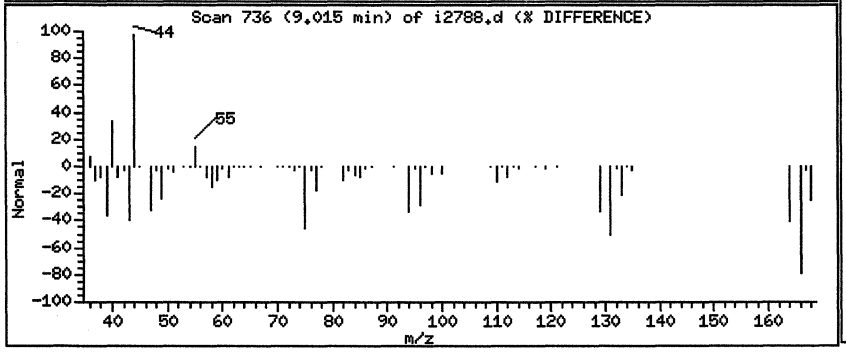
72 Tetrachloroethene

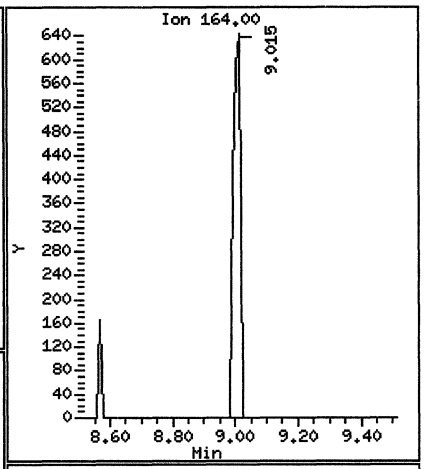
Concentration: 0.595 ug/L

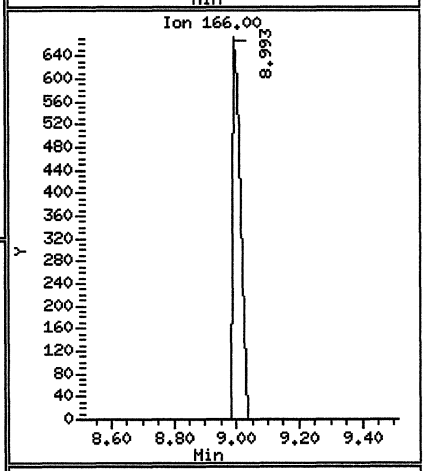


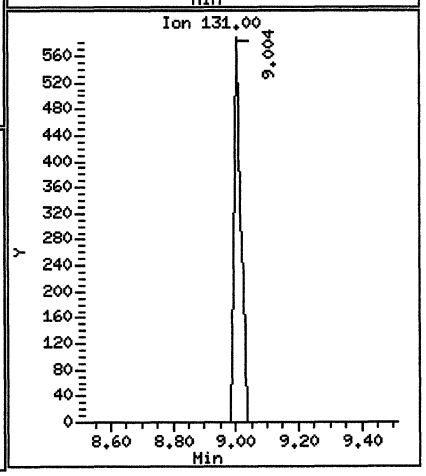












Data File: /var/chem/msv5.i/20901150.b/i2788.d

Date : 15-JAN-2009 21:25

Client ID:

Instrument: msv5.i

Sample Info: 20901142405*

Purge Volume: 5.0

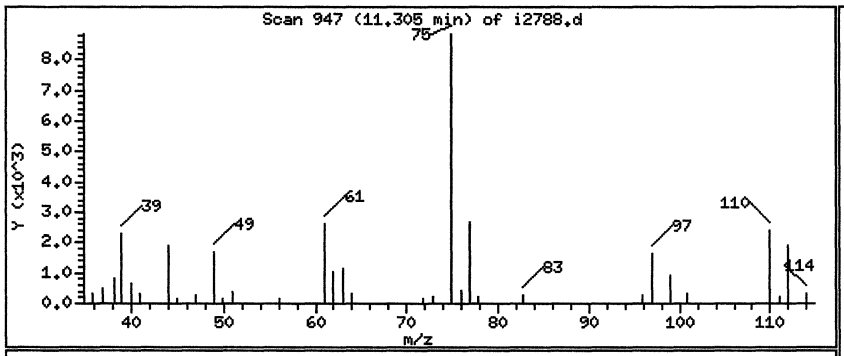
Operator: JCK

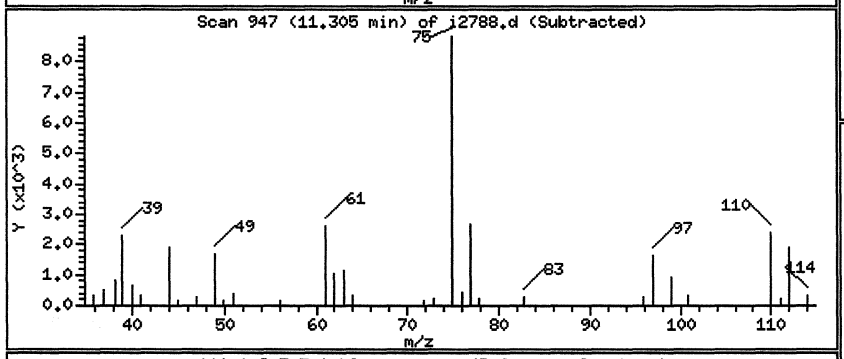
Column phase: RTX-VMS-30M

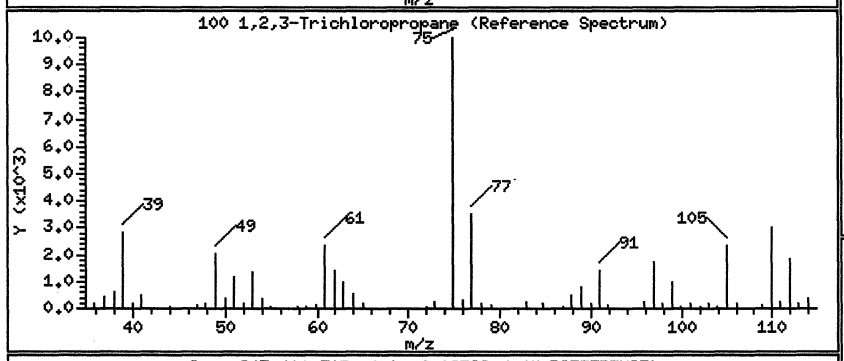
Column diameter: 0.25

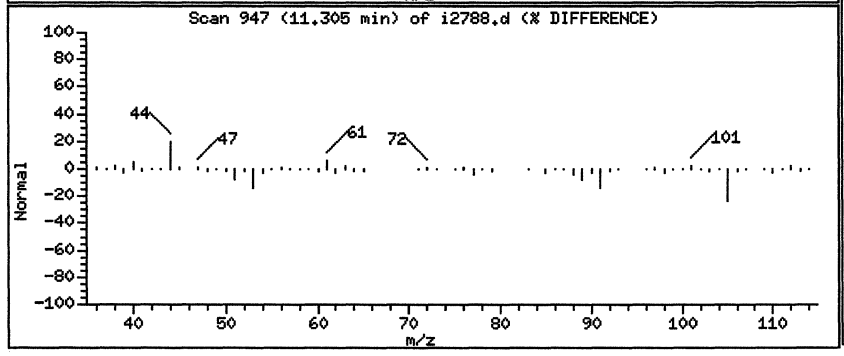
100 1,2,3-Trichloropropane

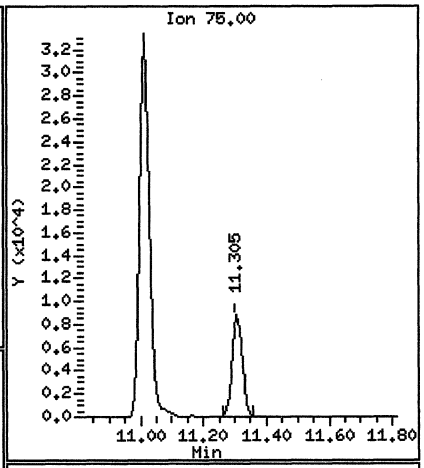
Concentration: 4.47 ug/L

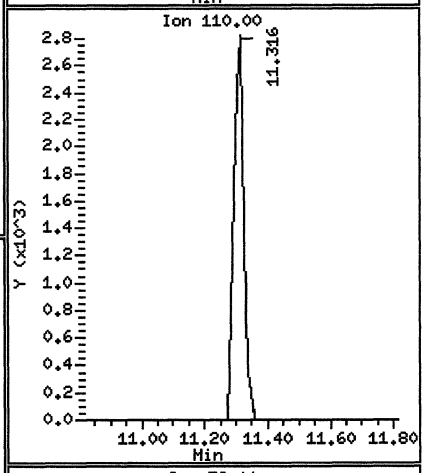


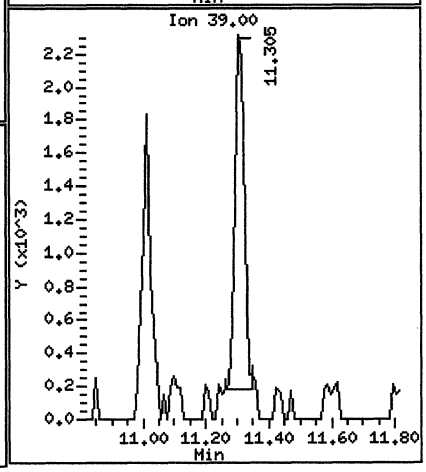








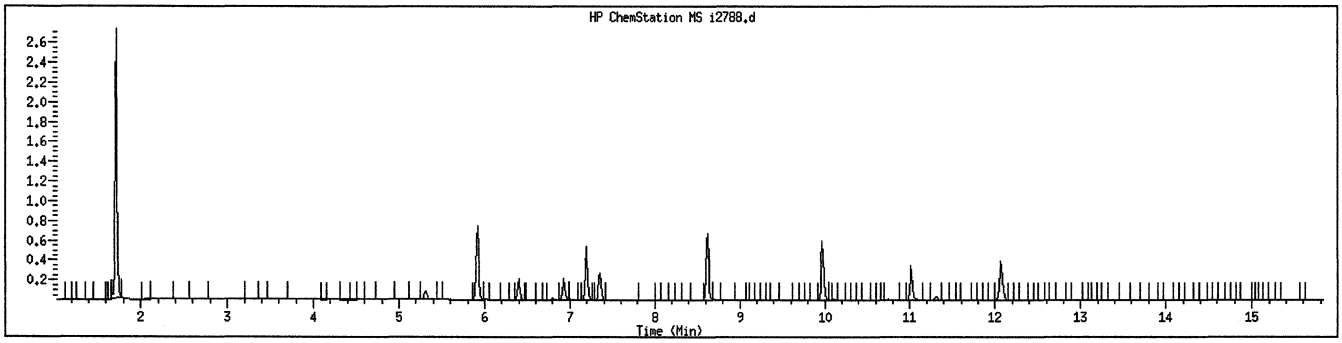




Data file : /var/chem/msv5.i/2090115p.b/i2788.d Page: 1
Report Date: 01/16/2009 10:25

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 20901142405 SampleType : SAMPLE
Injection Date: 01/15/2009 21:25 Instrument : msv5.i
Operator : JCK
Sample Info : 20901142405*
Misc Info : MSV~15220~*1*JCK
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142406

Level: (low/med) LOW Lab File ID: 2090115p/i2789

% Moisture: not dec. Date Collected: 01/13/09 Time: 0000

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 2148

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.201	5.00
96-18-4	1,2,3-Trichloropropane	5.00	U	0.091	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
71-43-2	Benzene	5.00	U	0.065	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	5.00	U	0.153	5.00
79-01-6	Trichloroethene	5.00	U	0.118	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.162	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2789.d
Lab Smp Id: 20901142406
Inj Date : 15-JAN-2009 21:48
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142406*
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

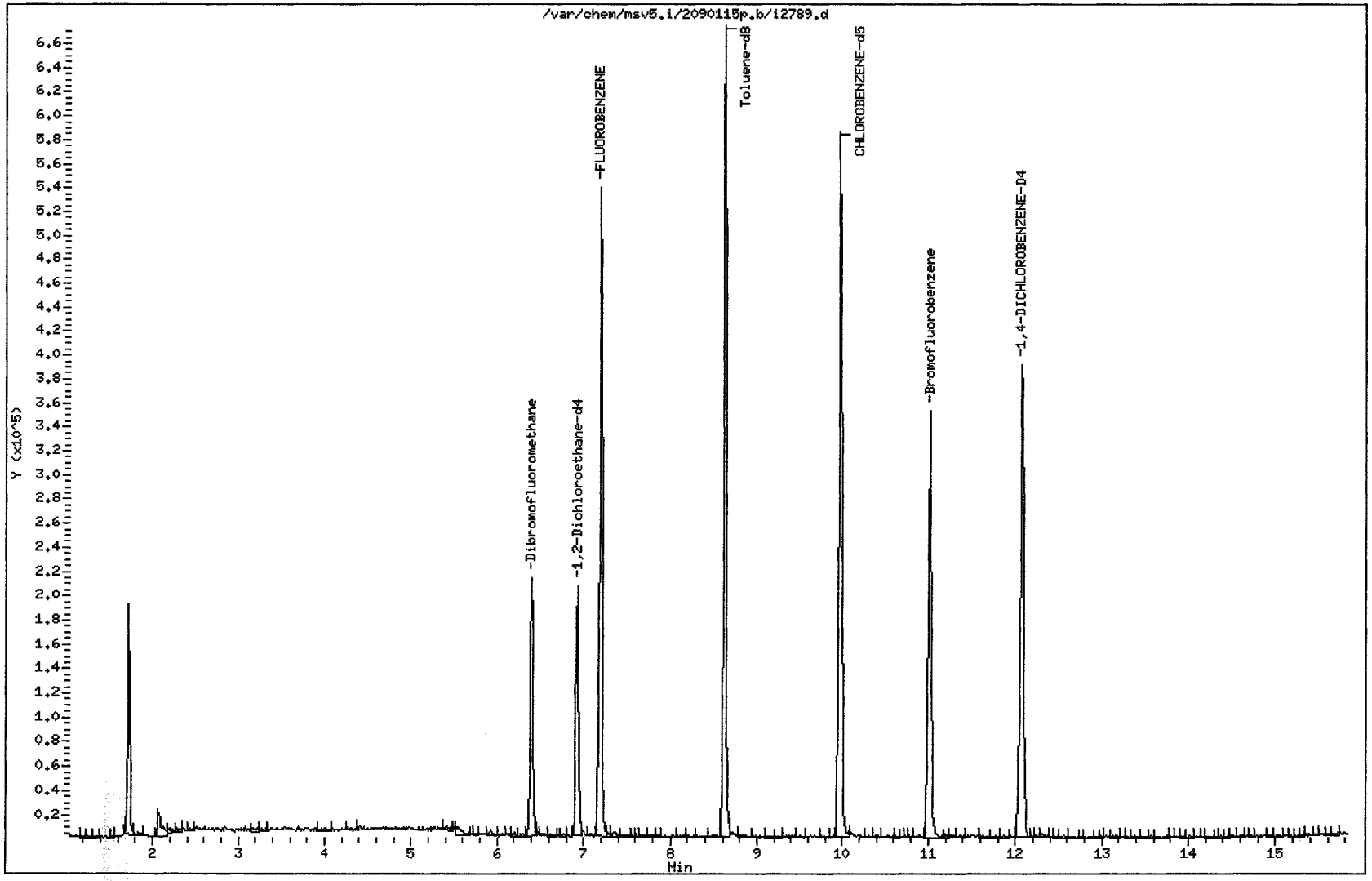
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 39 Dibromofluoromethane	111	6.398	6.402	(0.890)	154490	48.6338	48.6	6185
$ 48 1,2-Dichloroethane-d4	67	6.930	6.935	(0.964)	83746	47.3968	47.4	
* 52 FLUOROBENZENE	96	7.190	7.196	(1.000)	529475	50.0000		
$ 67 Toluene-d8	98	8.623	8.630	(0.865)	519337	49.8223	49.8	
* 83 CHLOROBENZENE-d5	82	9.969	9.979	(1.000)	238579	50.0000		
$ 94 Bromofluorobenzene	174	11.010	11.023	(1.105)	126292	48.2787	48.3	
* 111 1,4-DICHLOROBENZENE-D4	152	12.063	12.080	(1.000)	165049	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2789.d
Date : 15-JAN-2009 21:48
Client ID:
Sample Info: 20901142406*
Purge Volume: 5.0
Column phase: RTX-VMS-30M

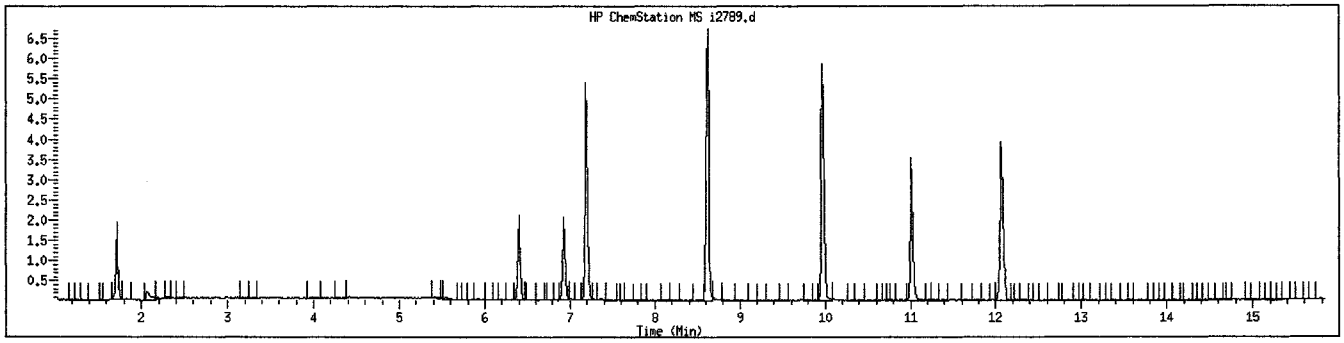
Instrument: msv5.i
Operator: JCK
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2789.d
Report Date: 01/16/2009 10:26

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20901142406	SampleType	: SAMPLE
Injection Date	: 01/15/2009 21:48	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 20901142406*		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-011309-EB

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142407

Level: (low/med) LOW Lab File ID: 2090115p/i2790

% Moisture: not dec. Date Collected: 01/13/09 Time: 1020

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 2211

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.201	5.00
96-18-4	1,2,3-Trichloropropane	5.00	U	0.091	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
71-43-2	Benzene	5.00	U	0.065	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	5.00	U	0.153	5.00
79-01-6	Trichloroethene	5.00	U	0.118	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.162	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2790.d
Lab Smp Id: 20901142407
Inj Date : 15-JAN-2009 22:11
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142407*
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
$ 39 Dibromofluoromethane	111	6.398	6.402	(0.890)	149107	47.6060	47.6	6171
$ 48 1,2-Dichloroethane-d4	67	6.929	6.935	(0.964)	84429	48.4622	48.5	
* 52 FLUOROBENZENE	96	7.190	7.196	(1.000)	522059	50.0000		
$ 67 Toluene-d8	98	8.623	8.630	(0.865)	512290	50.4896	50.5	
* 83 CHLOROBENZENE-d5	82	9.968	9.979	(1.000)	232231	50.0000		
$ 94 Bromofluorobenzene	174	11.010	11.023	(1.105)	127795	50.1886	50.2	
* 111 1,4-DICHLOROBENZENE-D4	152	12.074	12.080	(1.000)	156492	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2790.d

Date : 15-JAN-2009 22:11

Client ID:

Instrument: msv5.i

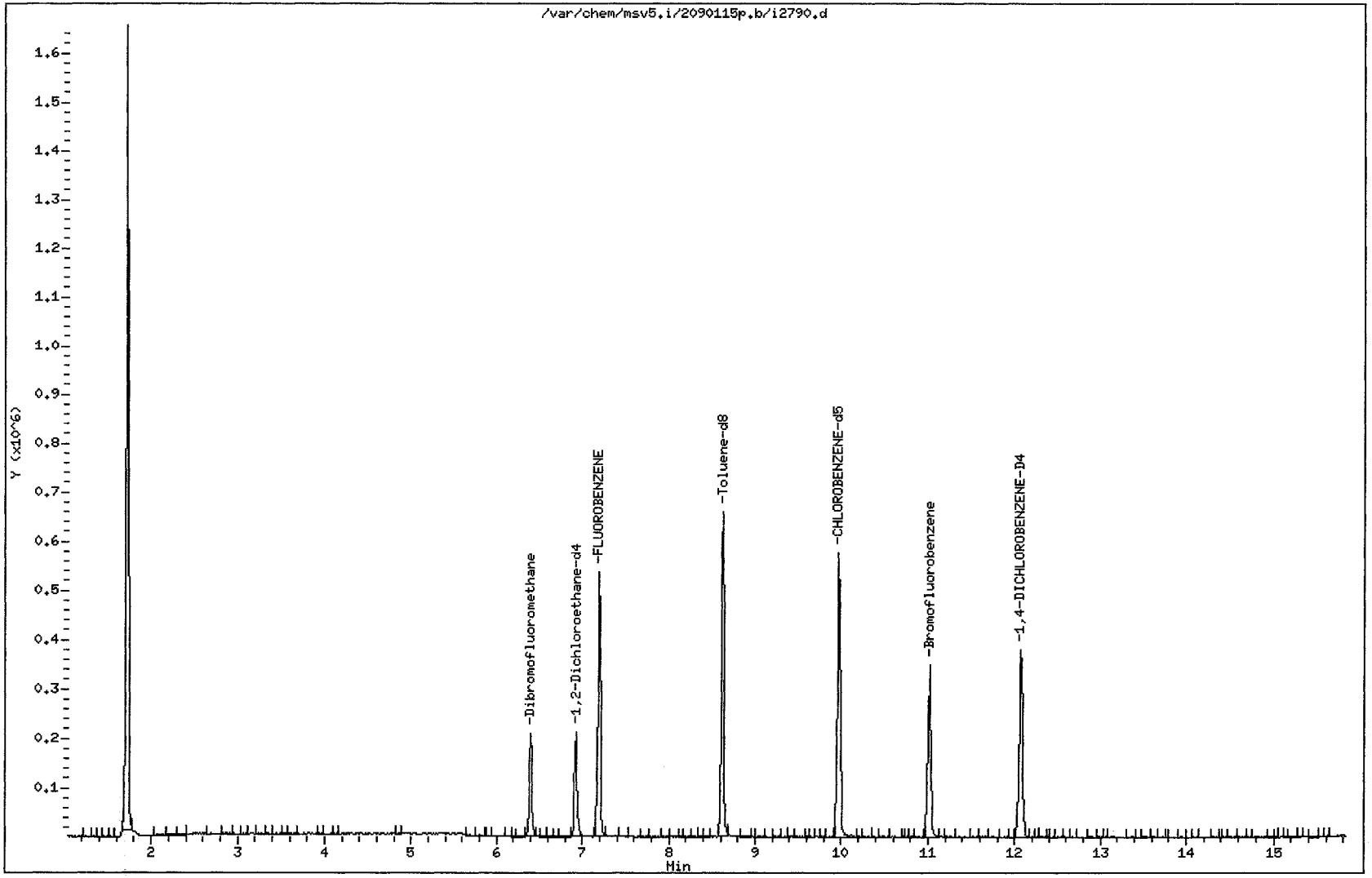
Sample Info: 20901142407*

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

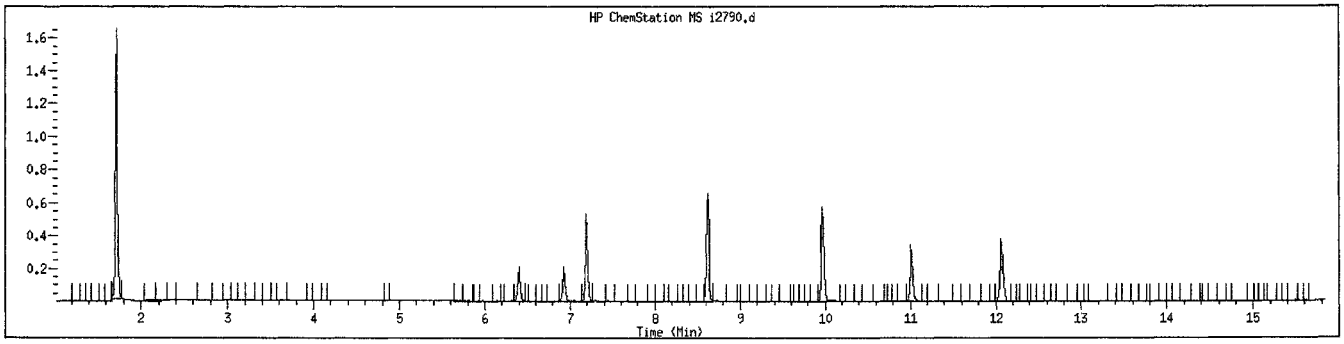
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2790.d Page: 1
Report Date: 01/16/2009 10:25

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20901142407	SampleType	: SAMPLE
Injection Date	: 01/15/2009 22:11	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 20901142407*		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-011309-FB

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142408

Level: (low/med) LOW Lab File ID: 2090115p/i2791

% Moisture: not dec. Date Collected: 01/13/09 Time: 1030

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 2233

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.201	5.00
96-18-4	1,2,3-Trichloropropane	5.00	U	0.091	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
71-43-2	Benzene	5.00	U	0.065	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	5.00	U	0.153	5.00
79-01-6	Trichloroethene	5.00	U	0.118	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.162	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2791.d
Lab Smp Id: 20901142408
Inj Date : 15-JAN-2009 22:33
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142408*
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
$ 39 Dibromofluoromethane	111	6.397	6.402	(0.890)	153413	50.1400	50.1	6180
$ 48 1,2-Dichloroethane-d4	67	6.929	6.935	(0.964)	83714	49.1889	49.2	
* 52 FLUOROBENZENE	96	7.190	7.196	(1.000)	509990	50.0000		
$ 67 Toluene-d8	98	8.623	8.630	(0.865)	510466	50.4443	50.4	
* 83 CHLOROBENZENE-d5	82	9.968	9.979	(1.000)	231612	50.0000		
$ 94 Bromofluorobenzene	174	11.010	11.023	(1.105)	121888	47.9967	48.0	
* 111 1,4-DICHLOROBENZENE-D4	152	12.063	12.080	(1.000)	155178	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2791.d

Page 1

Date : 15-JAN-2009 22:33

Client ID:

Instrument: msv5.i

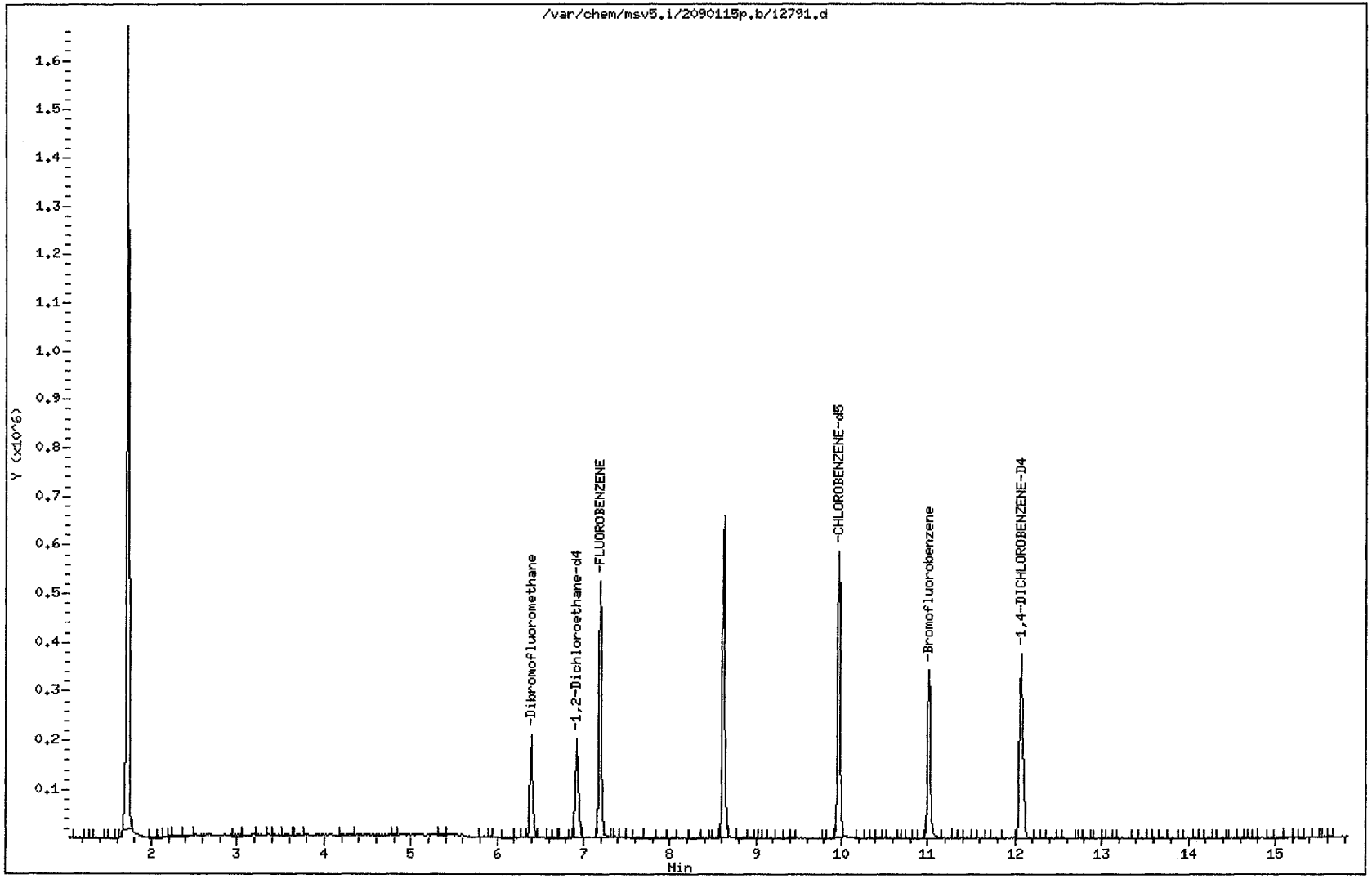
Sample Info: 20901142408*

Purge Volume: 5.0

Operator: JCK

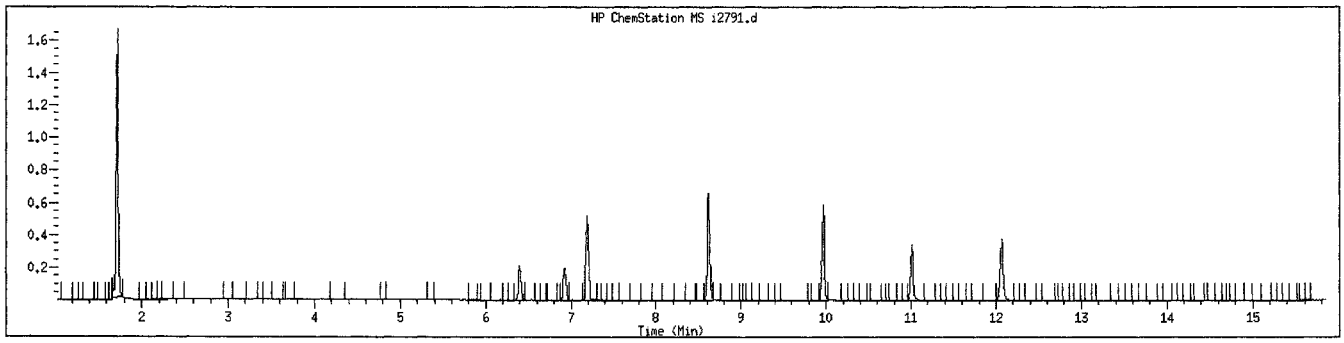
Column phase: RTX-VMS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 20901142408 SampleType : SAMPLE
Injection Date: 01/15/2009 22:33 Instrument : msv5.i
Operator : JCK
Sample Info : 20901142408*
Misc Info : MSV~15220~*1*JCK
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Calibration File Names:
Level 1: /var/chem/msv5.i/2090114.b/i2726.d
Level 2: /var/chem/msv5.i/2090114.b/i2728.d
Level 3: /var/chem/msv5.i/2090114.b/i2729.d
Level 4: /var/chem/msv5.i/2090114.b/i2730.d
Level 5: /var/chem/msv5.i/2090114.b/i2731.d
Level 7: /var/chem/msv5.i/2090114.b/i2725.d
Level 8: /var/chem/msv5.i/2090114.b/i2727.d

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
1 Dichlorodifluoromethane	0.34567	0.32309	0.34520	0.36158	0.35759	0.28894						
	0.32935						AVRG		0.33592		7.41698	
2 Chloromethane ++	0.49635	0.52784	0.54564	0.56218	0.55675	0.57338						
	0.55687						AVRG		0.54557		4.75543	
3 Vinyl Chloride +	0.37828	0.40352	0.41514	0.43808	0.44720	0.36809						
	0.39731						AVRG		0.40680		7.16166	
4 1-3 Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
28 2-Chloropropene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
5 Bromomethane	0.22102 0.23779	0.21721	0.22123	0.23815	0.24634	0.26734	AVRG		0.23558		7.53683	
8 Chloroethane	0.20136 0.21927	0.19854	0.21740	0.21648	0.20751	0.26392	AVRG		0.21778		10.05783	
9 Trichlorofluoromethane	0.27948 0.28619	0.27821	0.29052	0.30682	0.29712	0.22982	AVRG		0.28117		8.80034	
M 7 Total Difluorobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
10 Ethyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
11 1,1-Dichloroethene +	0.21832 0.20374	0.20790	0.21418	0.22315	0.21726	0.26988	AVRG		0.22206		9.94050	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	10 Level 8										
12 Carbon Disulfide	42006	149939	381736	772232	1562047	11641					
	74485						LINR	0.00237	0.79534		0.99992
13 1,1,2Trichlotrifluoroethane	0.22434	0.23082	0.23642	0.24824	0.23520	0.23334					
	0.22758						AVRG		0.23371		3.28968
14 Methyl Iodide	10465	54305	161159	353872	713773	2252					
	23731						LINR	0.05701	0.36900		0.99925
15 Acrolein	0.02681	0.03404	0.03237	0.03367	0.03169	0.03283					
	0.03111						AVRG		0.03179		7.63597
16 Allyl chloride	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00 <-
17 Methylene Chloride	0.41526	0.40976	0.41065	0.41610	0.39603	0.54368					
	0.41869						AVRG		0.43002		11.78072
18 Acetone	12359	36889	86572	161896	314045	4289					
	20528						LINR	-0.07225	0.15832		0.99928

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	10 Level 8											
19 trans-1,2-Dichloroethene	0.37411	0.35846	0.37439	0.38459	0.36354	0.42173						
	0.36753						AVRG		0.37776		5.59887	
20 Methyl Acetate	0.28608	0.28239	0.27438	0.28520	0.25680	+++++						
	0.26953						AVRG		0.27573		4.10298	
21 Hexane	0.31904	0.35019	0.34067	0.36933	0.36137	0.30184						
	0.34413						AVRG		0.34094		6.90721	
22 MTBE	0.59773	0.60554	0.58537	0.58748	0.57747	0.56351						
	0.60276						AVRG		0.58855		2.53521	
23 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
159 Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
24 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
25 Isopropyl Ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
26 Chloroprene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
27 1,1-Dichloroethane ++	0.51398 / 0.50186	0.48417	0.49110	0.51657	0.50063	0.53742	AVRG		0.50653		3.51821
29 Acrylonitrile	0.10766 / 0.12416	0.12566	0.12541	0.12636	0.11836	0.12679	AVRG		0.12206		5.70048
30 Vinyl Acetate	0.47252 / 0.44645	0.51941	0.48178	0.48809	0.48465	0.44733	AVRG		0.47718		5.29968
M 61 Total 1,2-Dichloroethene	0.39916 / 0.40550	0.39597	0.41762	0.41980	0.41073	0.44821	AVRG		0.41386		4.23721
31 cis-1,2-Dichloroethene	0.42421 / 0.44347	0.43349	0.46084	0.45501	0.45793	0.47469	AVRG		0.44995		3.84491

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
32 2,2-Dichloropropane	0.33131	0.33523	0.33876	0.34675	0.34900	0.31933						
	0.36093						AVRG		0.34019		3.96505	
34 Cyclohexane	0.46314	0.50058	0.51130	0.53560	0.53485	0.46834						
	0.46411						AVRG		0.49684		6.46445	
33 Bromochloromethane	0.17430	0.16498	0.16444	0.16562	0.14461	0.15517						
	0.16831						AVRG		0.16249		5.98050	
35 Chloroform +	26586	93631	232733	452756	929480	8489						
	47696						LINR	-0.00965	0.47065		0.99999	
36 Carbon Tetrachloride	0.25547	0.28293	0.27366	0.28767	0.28557	0.21204						
	0.27331						AVRG		0.26724		9.97474	
37 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
38 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2009 09:40
End Cal Date : 14-JAN-2009 11:56
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
40 1,1,1-Trichloroethane	0.27976	0.30536	0.32782	0.33516	0.33113	0.28112						
	0.30211						AVRG		0.30892		7.50061	
41 sec-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
42 2-Butanone	0.26665	0.28238	0.28199	0.28046	0.26986	0.28083						
	0.27924						AVRG		0.27735		2.29297	
43 1,1-Dichloropropene	0.33154	0.38821	0.41469	0.43357	0.42770	0.44430						
	0.40127						AVRG		0.40590		9.35775	
44 2-2-4 trimethyl Pentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
55 1,3 Difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
45 Benzene	1.17221	1.21703	1.24617	1.26573	1.23856	1.26871						
	1.21584						AVRG		1.23203		2.73034	

GCAL, Inc.

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Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
46 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
47 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
49 1,2-Dichloroethane	0.36442	0.39261	0.37513	0.37506	0.37090	0.36115						
	0.37672						AVRG		0.37371		2.72494	
50 Isobutyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
53 Methyl Cyclohexane	0.34321	0.37389	0.38554	0.41093	0.41234	0.35411						
	0.36482						AVRG		0.37783		7.07872	
54 Trichloroethene	0.29212	0.29058	0.29017	0.30155	0.29841	0.30096						
	0.28517						AVRG		0.29414		2.11719	
68 1,4 Difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
56 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
57 Dibromomethane	0.21087	0.21602	0.21285	0.21929	0.21471	0.22630						
	0.22643						AVRG		0.21807		2.86192	
58 2-3 Dichloro-1-Proprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
59 1,2-Dichloropropane +	0.34526	0.38963	0.39853	0.41239	0.40119	0.40082						
	0.39725						AVRG		0.39215		5.54559	
60 Bromodichloromethane	0.38164	0.38825	0.38075	0.39148	0.38889	0.41352						
	0.37326						AVRG		0.38826		3.28172	
62 Methyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
63 1,4- Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
64 1-Bromo-2-chloroethane	0.58030	0.62196	0.61383	0.60335	0.59131	0.52716						
	0.56776						AVRG		0.58652		5.49018	
65 2-Chloroethyl vinyl ether	1142	4533	16936	42683	100119	216						
	2344						LINR	0.15363	0.05172		0.99283	<-
66 cis-1,3-Dichloropropene	0.47422	0.51600	0.54314	0.55885	0.55811	0.46130						
	0.49548						AVRG		0.51530		7.72224	
M 6 1-3 Dichloropropene-Total	0.42692	0.47019	0.48968	0.50453	0.50552	0.40903						
	0.44534						AVRG		0.46446		8.24932	
81 1,2 Difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
69 Toluene +	2.83318	2.53935	2.65939	2.65609	2.67427	2.52909						
	2.70493						AVRG		2.65661		3.88285	
88 Methyl Disulfide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Integrator : HP RTE
Method file : /var/chem/msv5.i/2090114.b/8260Bw5.m
Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
70 2-nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
71 4-methyl-2-pentanone	0.38653	0.44119	0.44160	0.45890	0.45535	0.37405						
	0.41950						AVRG		0.42530		7.86542	
72 Tetrachloroethene	0.35799	0.40861	0.39712	0.40641	0.43115	0.26459						
	0.39644						AVRG		0.38033		14.59940	
73 trans-1,3-Dichloropropene	0.87324	0.89472	0.94616	0.95112	0.99047	0.81866						
	0.88147						AVRG		0.90798		6.38827	
74 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
75 1,1,2-Trichloroethane	0.60061	0.60108	0.61554	0.59511	0.60599	0.57336						
	0.57865						AVRG		0.59576		2.51105	
76 Dibromochloromethane	0.68741	0.65358	0.68258	0.68282	0.70556	0.73458						
	0.67912						AVRG		0.68938		3.64335	

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Cal Date : 19-Jan-2009 10:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	10 Level 8											
77 1,3-Dichloropropane	1.09001	1.19184	1.18841	1.19003	1.19675	1.31399						
	1.17448						AVRG		1.19222		5.48205	
78 1-nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
79 1,2-Dibromoethane(EDB)	0.65892	0.69746	0.68359	0.70451	0.70775	0.64870						
	0.69226						AVRG		0.68474		3.32243	
80 2-Hexanone	0.66986	0.73796	0.74222	0.75596	0.80309	0.64354						
	0.71026						AVRG		0.72327		7.44414	
82 1-Chlorohexane	0.87810	0.73549	0.83507	0.92355	0.85852	0.75027						
	0.73735						AVRG		0.81691		9.29271	
84 Chlorobenzene ++	1.76295	1.66264	1.71667	1.69751	1.70794	1.91627						
	1.76843						AVRG		1.74749		4.75209	
85 Ethylbenzene +	0.81720	0.82328	0.87648	0.89210	0.89744	0.85163						
	0.87221						AVRG		0.86148		3.69762	

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Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	10 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
86 1,1,1,2-Tetrachloroethane	0.51891	0.52277	0.53602	0.52970	0.54227	0.63031	0.53939	AVRG		0.54562		7.02071	
87 p,m-Xylene	1.04295	1.01736	1.04777	1.06306	1.09157	0.97383	1.00745	AVRG		1.03486		3.74782	
89 o-Xylene	0.98124	0.98160	1.07195	1.09147	1.13174	1.00410	0.97393	AVRG		1.03372		6.15970	
90 Styrene	1.69102	1.72866	1.86238	1.86591	1.96456	1.50750	1.67028	AVRG		1.75576		8.72997	
118 1-4 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
91 Bromoform ++	0.36924	0.39544	0.42288	0.42097	0.43691	0.38837	0.37501	AVRG		0.40126		6.46767	
119 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
92 1,5 Cyclooctadiene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
113 3-ethyltoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
114 2-ethyltoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
117 1-2 Diethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
93 Isopropylbenzene	2.28534 / 2.39327	2.31829	2.48799	2.53898	2.60813	2.09162	AVRG		2.38909		7.34007	
95 n-Propylbenzene	3.50281 / 3.75607	3.81473	3.84384	4.05867	3.91697	3.81809	AVRG		3.81588		4.43112	
96 Bromobenzene	1.83506 / 1.84519	1.82707	1.79465	1.83817	1.75122	1.73829	AVRG		1.80424		2.43205	

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Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 1,1,2,2-Tetrachloroethane++	1.21696	1.32446	1.25382	1.20319	1.14916	1.05036						
	1.36153						AVRG		1.22278		8.58499	
98 2-Chlorotoluene	2.75152	2.90935	2.84967	2.90626	2.82809	2.55667						
	2.88104						AVRG		2.81180		4.44331	
99 1,3,5-Trimethylbenzene	2.40005	2.60846	2.58172	2.66848	2.57547	2.52406						
	2.51394						AVRG		2.55317		3.33489	
100 1,2,3-Trichloropropane	1.27406	1.39199	1.41801	1.41831	1.41688	1.37402						
	1.36332						AVRG		1.37951		3.73770	
101 trans-1,4-Dichloro-2-Butene	3266	19284	47908	101221	212899	386						
	9214						LINR	0.02247	0.31276		0.99982	
102 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
103 4-Chlorotoluene	2.44214	2.55409	2.53205	2.60927	2.53316	2.62590						
	2.51791						AVRG		2.54493		2.39985	

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Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
M 124 TOTAL XYLENE	1.02238	1.00544	1.05583	1.07253	1.10496	0.98392						
	0.99628						AVRG		1.03448		4.30076	
104 tert-butylbenzene	1.11226	1.31877	1.31846	1.46326	1.36320	1.23742						
	1.34163						AVRG		1.30786		8.36453	
105 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
106 1,2,4-Trimethylbenzene	2.34044	2.64864	2.66101	2.71910	2.63777	2.53360						
	2.68391						AVRG		2.60349		4.96954	
107 sec-Butylbenzene	2.81505	3.07980	3.19149	3.27354	3.21090	2.87110						
	3.12227						AVRG		3.08059		5.66360	
108 p-Isopropyltoluene	1.98437	2.32179	2.37359	2.49680	2.44499	2.00134						
	2.29590						AVRG		2.27411		8.97218	
109 Dicylopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
110 1,3-Dichlorobenzene	1.36522	1.52361	1.46982	1.47869	1.47572	1.34725						
	1.47239						AVRG		1.44753		4.50359	
112 1,4-Dichlorobenzene	1.47587	1.50824	1.51869	1.55014	1.50016	2.02842						
	1.48017						AVRG		1.58024		12.60502	
115 n-Butylbenzene	24199	109683	304760	675112	1427314	4322						
	51566						LINR	0.04705	2.10653		0.99945	
M 127 Total Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
116 1,2-Dichlorobenzene	1.43341	1.46713	1.41056	1.44583	1.40803	1.22726						
	1.36159						AVRG		1.39340		5.77911	
128 2-methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
120 1,2-Dibromo-3-Chloropropane	2256	9361	28136	58678	125042	136						
	4652						LINR	0.04207	0.18430		0.99978	<-

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Compound	5 Level 1 / 10 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
121 Benzal Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
122 Hexachlorobutadiene	3053	12751	32795	67417	148857	147						
	6383						LINR	0.03291	0.21734		0.99934	<-
123 1,2,4-Trichlorobenzene	8676	39211	105436	229231	485671	1340						
	16232						LINR	0.04351	0.71616		0.99963	
125 Naphthalene	22025	108764	313626	693112	1480110	4977						
	46030						LINR	0.05885	2.18814		0.99938	
126 1,2,3-Trichlorobenzene	0.64984	0.63082	0.62948	0.66737	0.66947	0.59440						
	0.62765						AVRG		0.63843		4.10631	
$ 39 Dibromofluoromethane	0.30285	0.29714	0.29945	0.30150	0.29005	0.30693						
	0.30191						AVRG		0.29998		1.77155	
$ 48 1,2-Dichloroethane-d4	0.16471	0.16345	0.16414	0.16597	0.16166	0.17471						
	0.17335						AVRG		0.16686		3.04768	

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Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	1 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	10 Level 8										
$ 67 Toluene-d8	2.20479	2.13730	2.14298	2.15590	2.20128	2.24186					
	2.20780						AVRG		2.18456		1.80185
$ 94 Bromofluorobenzene	0.58409	0.53475	0.52585	0.53816	0.55729	0.57002					
	0.52741						AVRG		0.54822		4.11974

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Average %RSD Results.

Calculated Average %RSD = 5.74562
Maximun Average %RSD = 15.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2724bfb.d
Lab Smp Id: 1000 Client Smp ID: V5BFB
Inj Date : 14-JAN-2009 09:18
Operator : JCK Inst ID: msv5.i
Smp Info : 1000*V5BFB
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/bfb1.m
Meth Date : 06-Jan-2009 15:18 rjo Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
VI	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
11.031	11.060	(0.000)	95	64621			100.00- 100.00	100.00
11.031	11.060	(0.000)	50	13310			15.00- 40.00	20.60
11.031	11.060	(0.000)	75	26210			30.00- 60.00	40.56
11.031	11.060	(0.000)	96	4022			5.00- 9.00	6.22
11.031	11.060	(0.000)	173	220			0.00- 2.00	0.47
11.031	11.060	(0.000)	174	47234			50.00- 120.00	73.09
11.031	11.060	(0.000)	175	3595			5.00- 9.00	7.61
11.031	11.060	(0.000)	176	47162			95.00- 101.00	99.85
11.031	11.060	(0.000)	177	2857			5.00- 9.00	6.06

Data File: /var/chem/msv5.i/2090114.b/i2724bfb.d

Date : 14-JAN-2009 09:18

Client ID: V5BFB

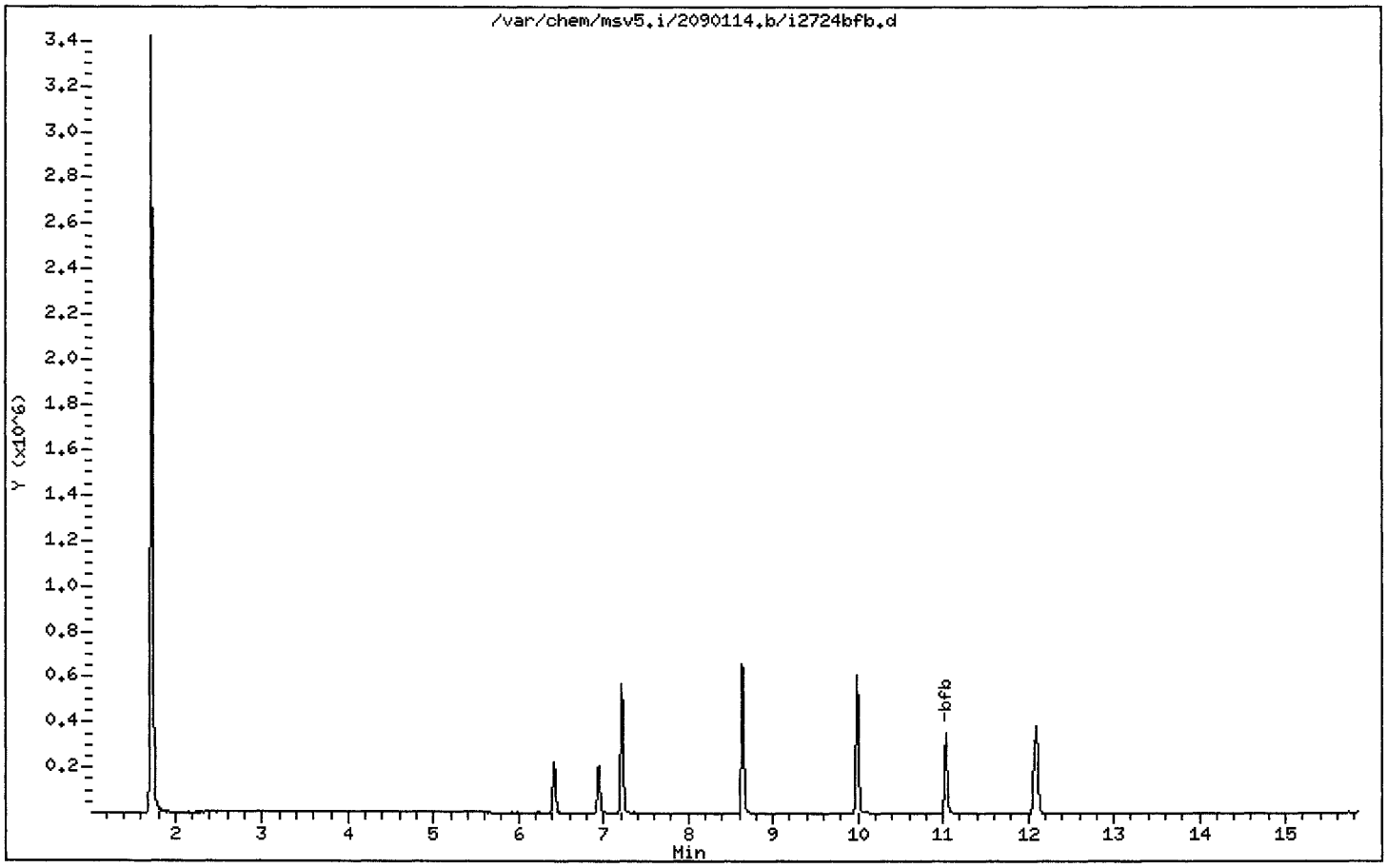
Instrument: msv5.i

Sample Info: 1000*V5BFB

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25



Data File: /var/chem/msv5.i/2090114.b/i2724bfb.d

Date : 14-JAN-2009 09:18

Client ID: V5BFB

Instrument: msv5.i

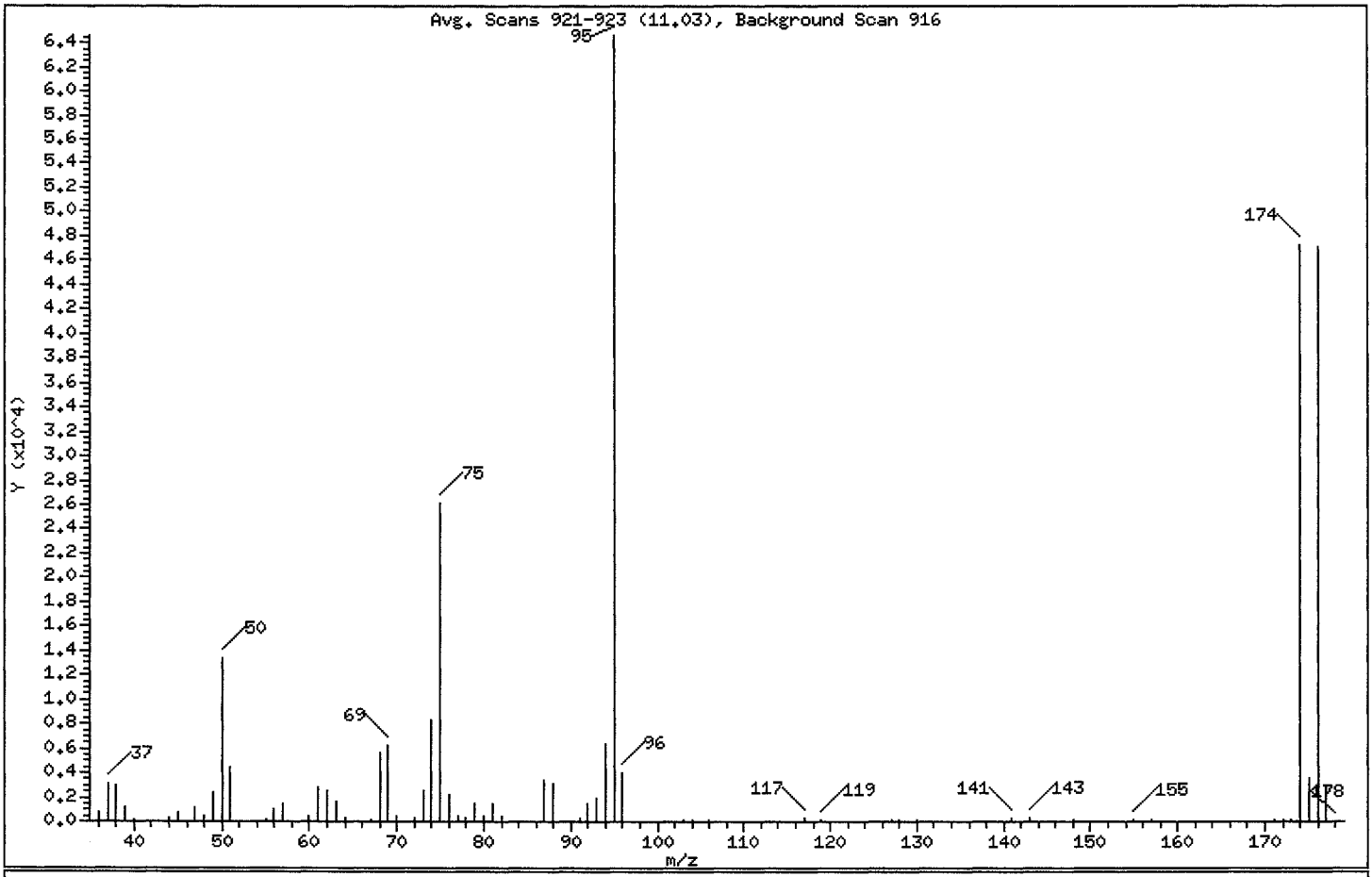
Sample Info: 1000xV5BFB

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.60
75	30.00 - 60.00% of mass 95	40.56
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.34 (0.47)
174	50.00 - 120.00% of mass 95	73.09
175	5.00 - 9.00% of mass 174	5.56 (7.61)
176	95.00 - 101.00% of mass 174	72.98 (99.85)
177	5.00 - 9.00% of mass 176	4.42 (6.06)

Data File: /var/chem/msv5.i/2090114.b/i2724bfb.d

Date : 14-JAN-2009 09:18

Client ID: V5BFB

Instrument: msv5.i

Sample Info: 1000xV5BFB

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

Data File: i2724bfb.d
Spectrum: Avg. Scans 921-923 (11.03), Background Scan 916
Location of Maximum: 95.00
Number of points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	729	63.00	1670	86.00	74	128.00	135
37.00	3079	64.00	335	87.00	3411	130.00	136
38.00	3028	65.00	57	88.00	3071	134.00	57
39.00	1144	66.00	62	91.00	238	135.00	66
40.00	123	67.00	132	92.00	1480	141.00	313
44.00	366	68.00	5661	93.00	1922	143.00	340
45.00	743	69.00	6170	94.00	6364	148.00	98
47.00	1201	70.00	415	95.00	64616	155.00	119
48.00	389	72.00	371	96.00	4022	157.00	102
49.00	2407	73.00	2541	97.00	51	171.00	79
50.00	13310	74.00	8377	103.00	84	172.00	200
51.00	4422	75.00	26208	104.00	88	173.00	220
52.00	74	76.00	2264	106.00	80	174.00	47232
55.00	76	77.00	468	115.00	61	175.00	3595
56.00	989	78.00	333	116.00	67	176.00	47160
57.00	1549	79.00	1422	117.00	351	177.00	2857
60.00	432	80.00	500	118.00	66	178.00	56
61.00	2764	81.00	1453	119.00	220		
62.00	2534	82.00	399	127.00	101		

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2725.d
Lab Smp Id: 1207 Client Smp ID: V5STD001
Inj Date : 14-JAN-2009 09:40
Operator : JCK Inst ID: msv5.i
Smp Info : 1207*V5STD001
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 09:40 Cal File: i2725.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.262)	2957	1.00000	0.860	
2 Chloromethane ++	50	2.109	2.109	(0.292)	5868	1.00000	1.05	
3 Vinyl Chloride +	62	2.207	2.207	(0.306)	3767	1.00000	0.905	
5 Bromomethane	94	2.587	2.587	(0.359)	2736	1.00000	1.13	
8 Chloroethane	64	2.728	2.728	(0.378)	2701	1.00000	1.21	
9 Trichlorofluoromethane	101	2.902	2.902	(0.402)	2352	1.00000	0.817	
11 1,1-Dichloroethene +	96	3.531	3.531	(0.490)	2762	1.00000	1.22	
12 Carbon Disulfide	76	3.564	3.564	(0.494)	11641	1.00000	1.55	
13 1,1,2Trichlotrifluoroethane	101	3.596	3.596	(0.499)	2388	1.00000	0.998	
14 Methyl Iodide	142	3.727	3.727	(0.517)	2252	1.00000	3.45	
15 Acrolein	56	4.020	4.020	(0.557)	1680	5.00000	5.16	
17 Methylene Chloride	49	4.357	4.357	(0.604)	5564	1.00000	1.26	
19 trans-1,2-Dichloroethene	61	4.563	4.563	(0.633)	4316	1.00000	1.12	
20 Methyl Acetate	43	4.617	4.617	(0.640)	4072	1.00000	1.44	2377(M2)

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21	Hexane	57	4.672	4.672	(0.648)	3089	1.00000	0.885	5023(M2)
	22	MTBE	73	4.715	4.715	(0.654)	5767	1.00000	0.957	4556
	27	1,1-Dichloroethane ++	63	5.323	5.323	(0.738)	5500	1.00000	1.06	
	29	Acrylonitrile	53	5.399	5.399	(0.749)	6488	5.00000	5.19	
	30	Vinyl Acetate	43	5.649	5.649	(0.783)	4578	1.00000	0.937	
M	61	Total 1,2-Dichloroethene	61				9174	2.00000	2.17	
	31	cis-1,2-Dichloroethene	61	5.931	5.931	(0.822)	4858	1.00000	1.05	
	32	2,2-Dichloropropane	77	6.050	6.050	(0.839)	3268	1.00000	0.939	
	34	Cyclohexane	56	6.137	6.137	(0.851)	4793	1.00000	0.943	8457
	33	Bromochloromethane	128	6.148	6.148	(0.852)	1588	1.00000	0.955	
	35	Chloroform +	83	6.235	6.235	(0.865)	8489	1.00000	1.28	
	36	Carbon Tetrachloride	117	6.354	6.354	(0.881)	2170	1.00000	0.793	
$	39	Dibromofluoromethane	111	6.419	6.419	(0.890)	157059	50.0000	51.2	6249
	40	1,1,1-Trichloroethane	97	6.430	6.430	(0.892)	2877	1.00000	0.910	
	42	2-Butanone	43	6.561	6.561	(0.910)	2874	1.00000	1.01	(M2)
	43	1,1-Dichloropropene	75	6.561	6.561	(0.910)	4547	1.00000	1.09	
	45	Benzene	78	6.810	6.810	(0.944)	12984	1.00000	1.03	
$	48	1,2-Dichloroethane-d4	67	6.940	6.940	(0.962)	89398	50.0000	52.4	
	49	1,2-Dichloroethane	62	7.006	7.006	(0.971)	3696	1.00000	0.966	
*	52	FLUOROBENZENE	96	7.212	7.212	(1.000)	511702	50.0000		
	53	Methyl Cyclohexane	83	7.353	7.353	(1.020)	3624	1.00000	0.937	8515
	54	Trichloroethene	130	7.375	7.375	(1.023)	3080	1.00000	1.02	
	57	Dibromomethane	93	7.776	7.776	(1.078)	2316	1.00000	1.04	
	59	1,2-Dichloropropane +	63	7.852	7.852	(1.089)	4102	1.00000	1.02	
	60	Bromodichloromethane	83	7.907	7.907	(1.096)	4232	1.00000	1.07	
	64	1-Bromo-2-chloroethane	63	8.351	8.351	(1.158)	5395	1.00000	0.899	7709
	65	2-Chloroethyl vinyl ether	63	8.395	8.395	(1.164)	216	1.00000	8.09	(M2)
	66	cis-1,3-Dichloropropene	75	8.482	8.482	(1.176)	4721	1.00000	0.895	
M	6	1-3 Dichloropropene-Total	100				8372	2.00000	1.76	0
$	67	Toluene-d8	98	8.634	8.634	(0.864)	499901	50.0000	51.3	
	69	Toluene +	91	8.688	8.688	(0.870)	11279	1.00000	0.952	
	71	4-methyl-2-pentanone	43	9.014	9.014	(1.250)	3828	1.00000	0.879	
	72	Tetrachloroethene	164	9.014	9.014	(0.902)	1180	1.00000	0.696	
	73	trans-1,3-Dichloropropene	75	9.046	9.046	(0.905)	3651	1.00000	0.902	(M1)
	75	1,1,2-Trichloroethane	97	9.177	9.177	(0.919)	2557	1.00000	0.962	
	76	Dibromochloromethane	129	9.339	9.339	(0.935)	3276	1.00000	1.07	
	77	1,3-Dichloropropane	76	9.426	9.426	(0.944)	5860	1.00000	1.10	
	79	1,2-Dibromoethane(EDB)	107	9.567	9.567	(0.958)	2893	1.00000	0.947	
	80	2-Hexanone	43	9.719	9.719	(0.973)	2870	1.00000	0.890	(M3)
	82	1-Chlorohexane	91	9.958	9.958	(0.997)	3346	1.00000	0.918	2887
*	83	CHLOROBENZENE-d5	82	9.991	9.991	(1.000)	222985	50.0000		
	84	Chlorobenzene ++	112	10.012	10.012	(1.002)	8546	1.00000	1.10	
	85	Ethylbenzene +	106	10.001	10.001	(1.001)	3798	1.00000	0.989	
	86	1,1,1,2-Tetrachloroethane	133	10.056	10.056	(1.007)	2811	1.00000	1.16	(M1)
	87	p,m-Xylene	106	10.132	10.132	(1.014)	8686	2.00000	1.88	
	89	o-Xylene	106	10.512	10.512	(1.052)	4478	1.00000	0.971	
	90	Styrene	104	10.555	10.555	(1.057)	6723	1.00000	0.859	

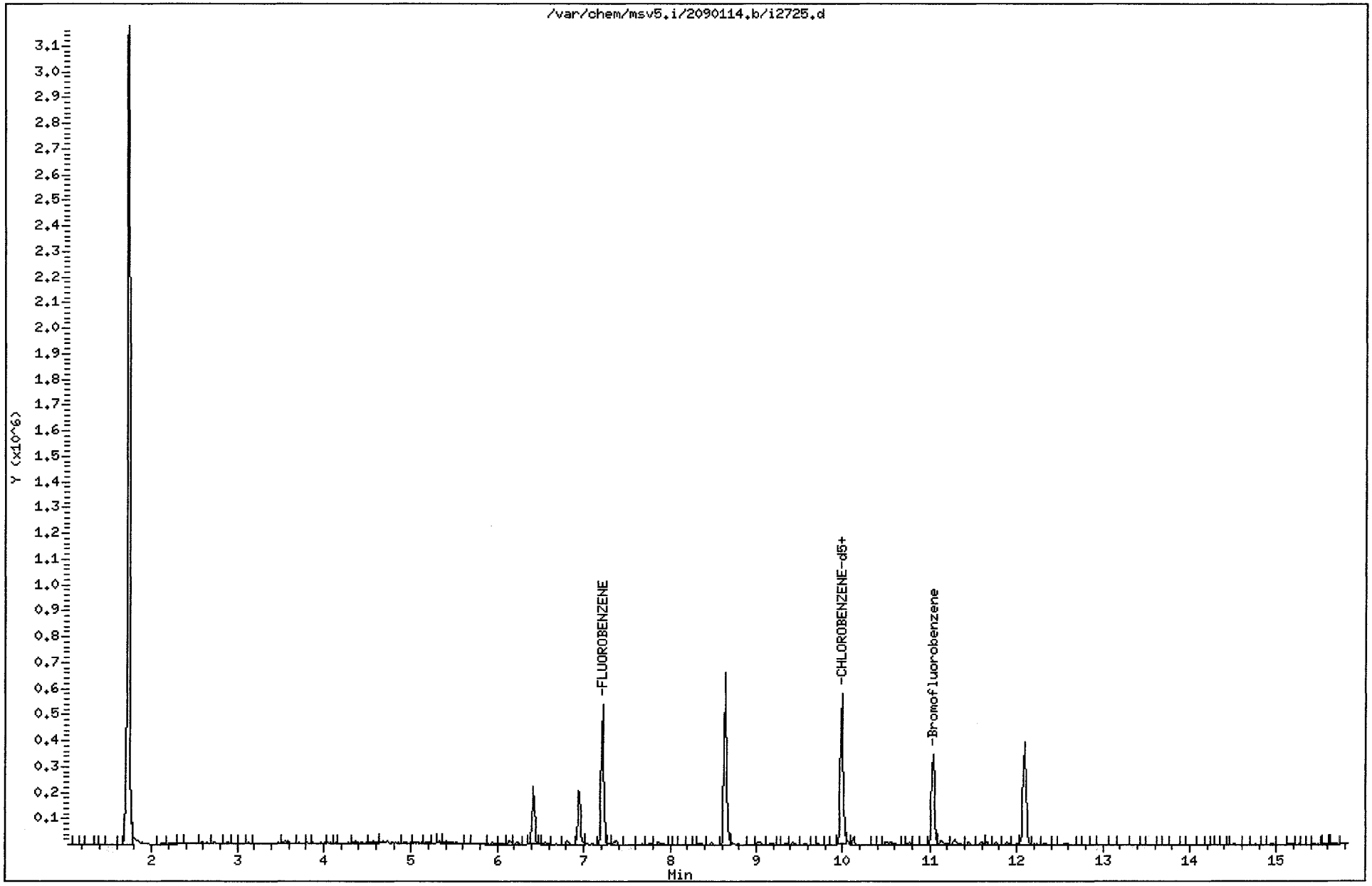
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
91 Bromoform ++	173	10.599	10.599	(1.061)	1732	1.00000	0.968	
93 Isopropylbenzene	105	10.761	10.761	(1.077)	9328	1.00000	0.875	
$ 94 Bromofluorobenzene	174	11.033	11.033	(1.104)	127107	50.0000	52.0	
95 n-Propylbenzene	91	11.120	11.120	(0.920)	12410	1.00000	1.00	
96 Bromobenzene	77	11.131	11.131	(0.921)	5650	1.00000	0.963	
97 1,1,2,2-Tetrachloroethane++	83	11.185	11.185	(0.925)	3414	1.00000	0.859	
98 2-Chlorotoluene	91	11.294	11.294	(0.934)	8310	1.00000	0.909	
99 1,3,5-Trimethylbenzene	105	11.283	11.283	(0.934)	8204	1.00000	0.989	
100 1,2,3-Trichloropropane	75	11.326	11.326	(0.937)	4466	1.00000	0.996	
101 trans-1,4-Dichloro-2-Butene	53	11.348	11.348	(0.939)	386	1.00000	1.50	(M3)
103 4-Chlorotoluene	91	11.435	11.435	(0.946)	8535	1.00000	1.03	
M 124 TOTAL XYLENE	106				13164	3.00000	2.85	
104 tert-butylbenzene	91	11.587	11.587	(0.959)	4022	1.00000	0.946	
106 1,2,4-Trimethylbenzene	105	11.652	11.652	(0.964)	8235	1.00000	0.973	
107 sec-Butylbenzene	105	11.760	11.760	(0.973)	9332	1.00000	0.932	
108 p-Isopropyltoluene	119	11.891	11.891	(0.984)	6505	1.00000	0.880	
110 1,3-Dichlorobenzene	146	12.021	12.021	(0.995)	4379	1.00000	0.931	
* 111 1,4-DICHLOROBENZENE-D4	152	12.086	12.086	(1.000)	162516	50.0000		
112 1,4-Dichlorobenzene	146	12.108	12.108	(1.002)	6593	1.00000	1.28	
115 n-Butylbenzene	91	12.325	12.325	(1.020)	4322	1.00000	2.98	
116 1,2-Dichlorobenzene	146	12.564	12.564	(1.040)	3989	1.00000	0.881	
120 1,2-Dibromo-3-Chloropropane	157	13.584	13.584	(1.124)	136	1.00000	2.33	(M1)
122 Hexachlorobutadiene	225	14.473	14.473	(1.197)	147	1.00000	1.85	(M1)
123 1,2,4-Trichlorobenzene	180	14.528	14.528	(1.202)	1340	1.00000	2.75	
125 Naphthalene	128	14.940	14.940	(1.236)	4977	1.00000	3.64	
126 1,2,3-Trichlorobenzene	180	15.168	15.168	(1.255)	1932	1.00000	0.931	(M3)

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.
M2- Compound response manually integrated because Target system integrated incorrectly.
M3- Compound response manually integrated because Target system integrated incorrect peak.

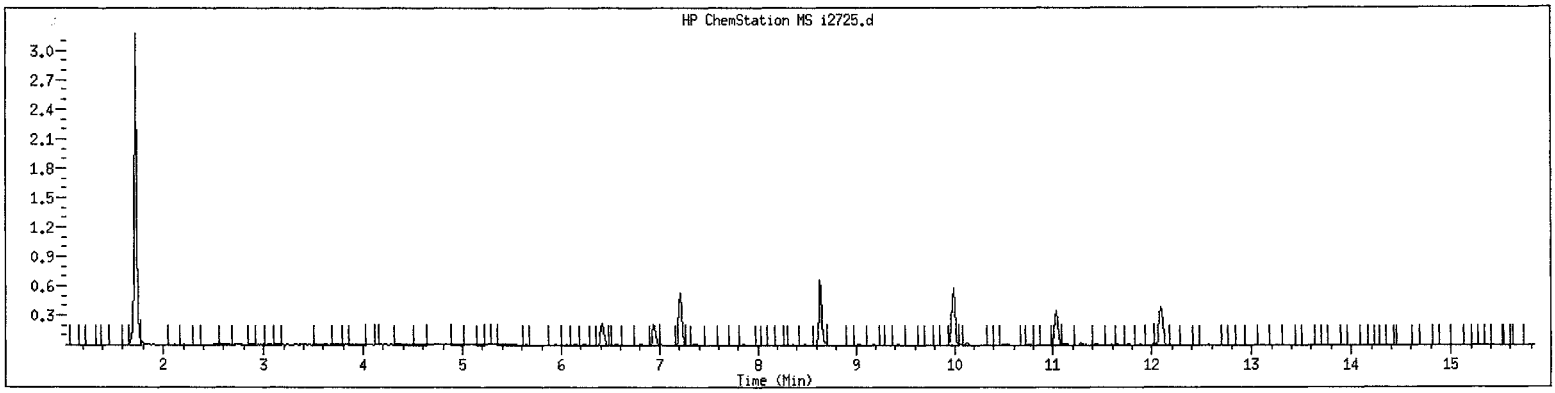
Data File: /var/chem/msv5.i/2090114.b/i2725.d
Date : 14-JAN-2009 09:40
Client ID: V5STD001
Sample Info: 1207*V5STD001
Purge Volume: 5.0
Column phase: RTX-VMS-30M

Instrument: msv5.i
Operator: JCK
Column diameter: 0.25



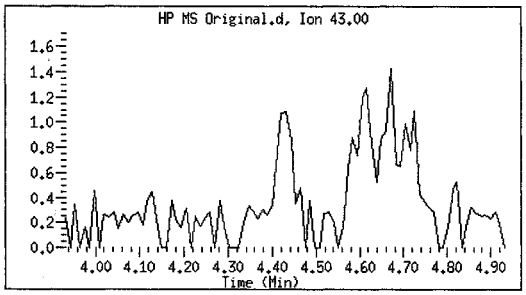
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1207	SampleType	: CALIB_7
Injection Date	: 01/14/2009 09:40	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1207*V5STD001		
Misc Info	: MSV~15210~*1*WAS		
Method	: /var/chem/msv5.i/2090114.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



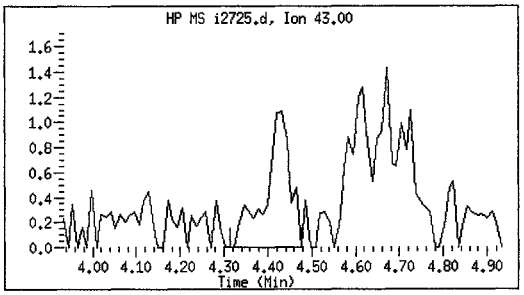
Original Final

18 Acetone CAS#: 67-64-1 Reason: M1

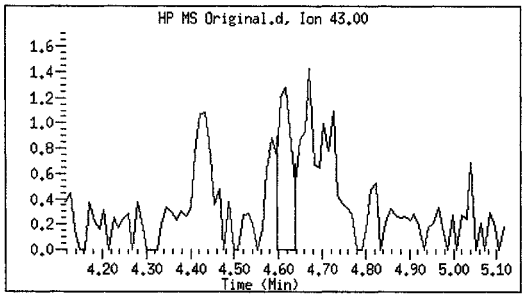


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:44



20 Methyl Acetate CAS#: 79-20-9 Reason: M2



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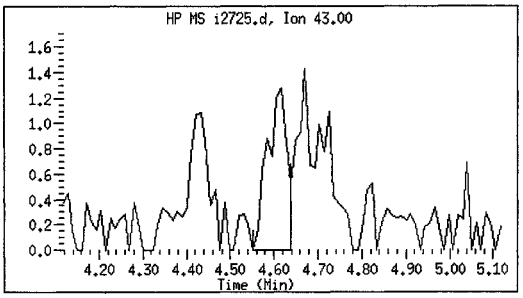
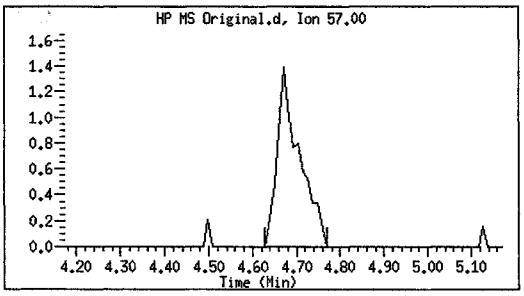
Date: 01/14/2009 10:44



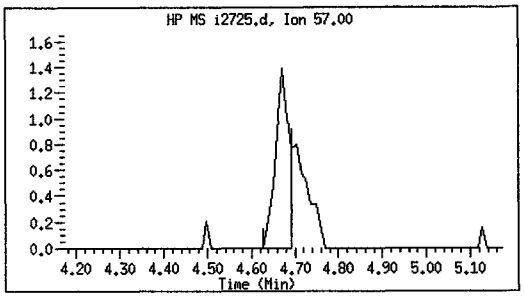
Original | Final

21 Hexane CAS#: 110-54-3 Reason: M2

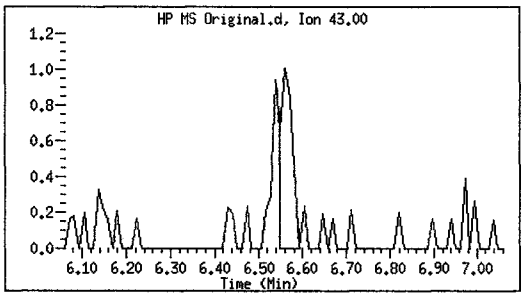


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:44

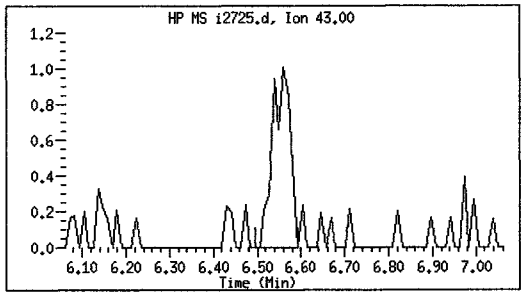


42 2-Butanone CAS#: 78-93-3 Reason: M2

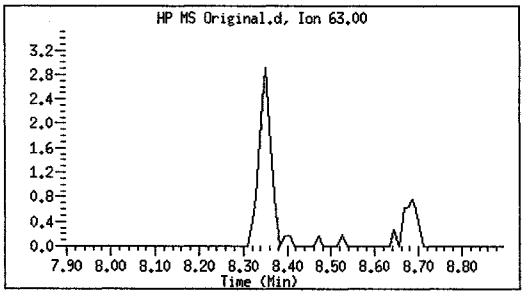


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:44

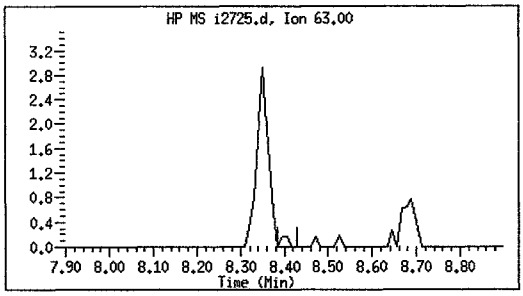


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M2

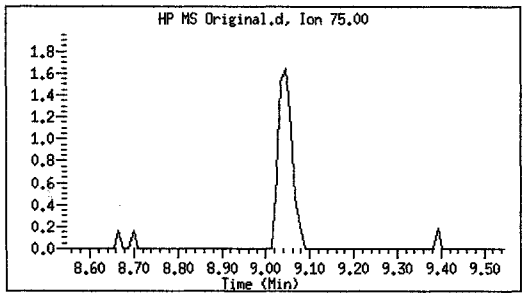


Electronic Signature Applied

User: jck
Date: 01/14/2009 12:18

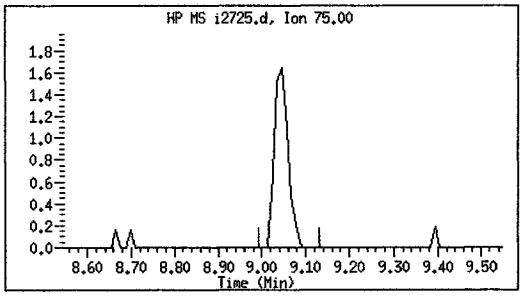


73 trans-1,3-Dichloropropene CAS#: 10061-02-6 Reason: M1

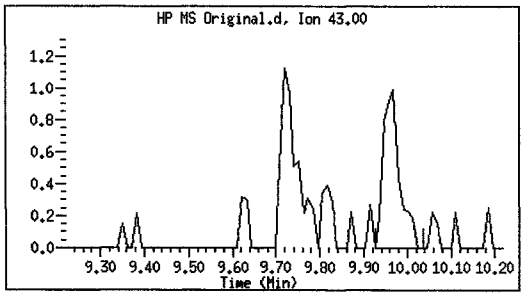


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:45



80 2-Hexanone CAS#: 591-78-6 Reason: M3



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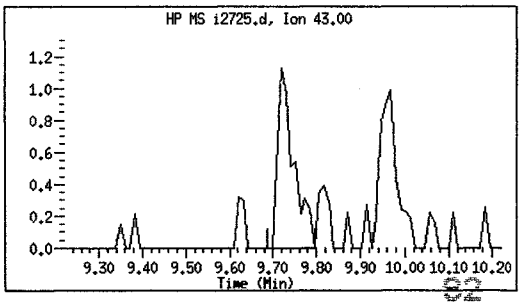
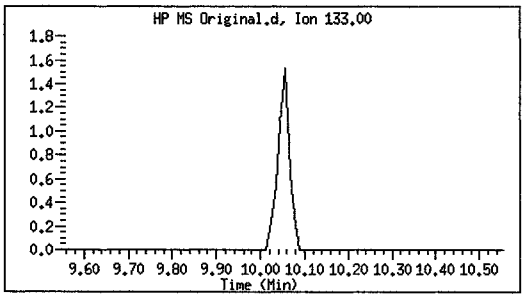
User: jck
Date: 01/14/2009 10:45



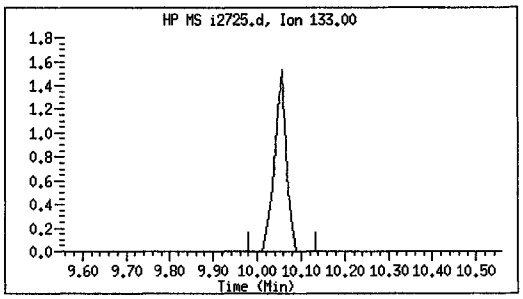
Original | Final

86 1,1,1,2-Tetrachloroethane CAS#: 630-20-6 Reason: M1

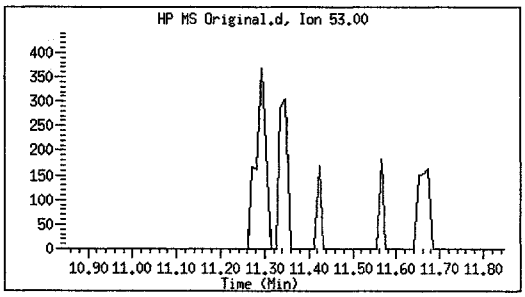


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:45



101 trans-1,4-Dichloro-2-Butene CAS#: 110-57-6 Reason: M3



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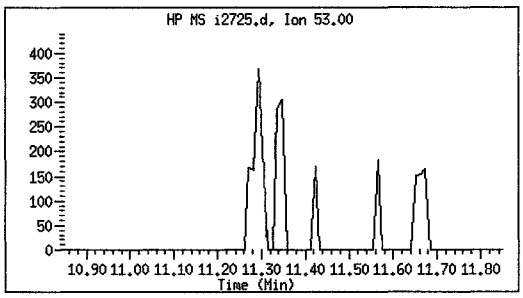
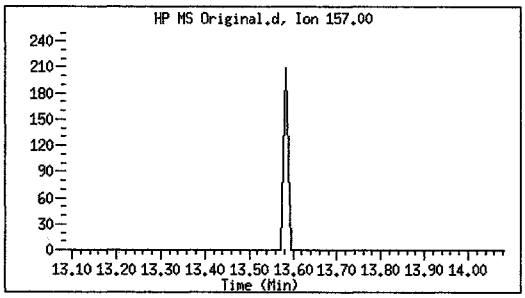
Date: 01/14/2009 10:45

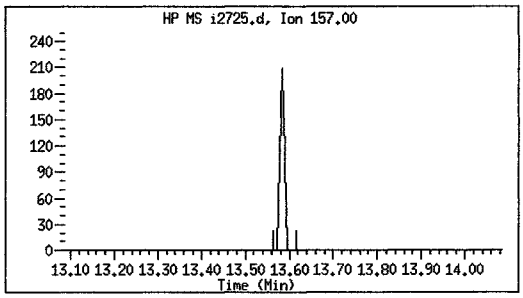


120 1,2-Dibromo-3-Chloropropane CAS#: 96-12-8 Reason: M1

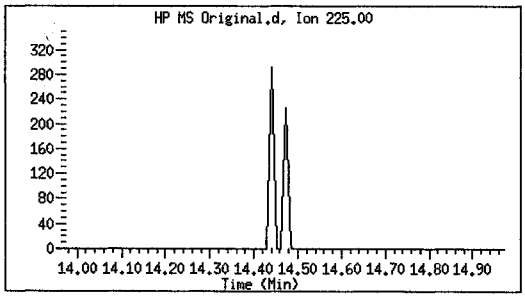


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:45

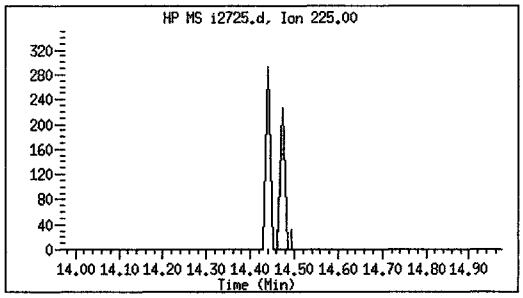


122 Hexachlorobutadiene CAS#: 87-68-3 Reason: M1

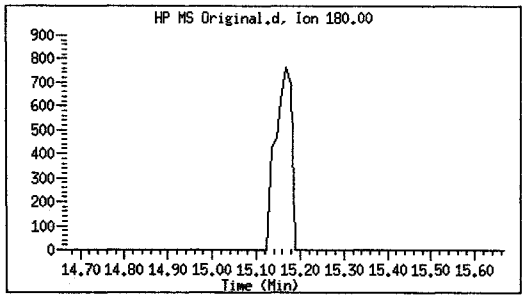


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:45

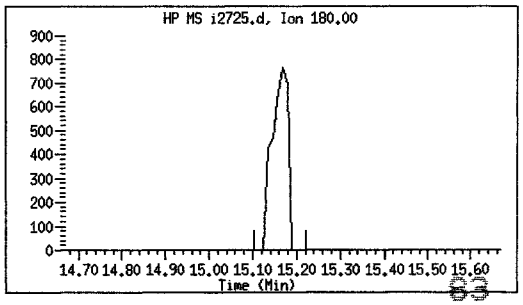


126 1,2,3-Trichlorobenzene CAS#: 87-61-6 Reason: M3



Electronic Signature Applied

User: jck
Date: 01/14/2009 10:43



M1 - Target system did not integrate
M2 - Target system integrated incorrectly
M3 - Target system integrated incorrect peak

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2726.d
Lab Smp Id: 1201 Client Smp ID: V5STD005
Inj Date : 14-JAN-2009 10:03
Operator : JCK Inst ID: msv5.i
Smp Info : 1201*V5STD005
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 10:03 Cal File: i2726.d
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.262)	17809	5.00000	5.15	
2 Chloromethane ++	50	2.109	2.109	(0.292)	25572	5.00000	4.55	
3 Vinyl Chloride +	62	2.207	2.207	(0.306)	19489	5.00000	4.65	
5 Bromomethane	94	2.576	2.576	(0.357)	11387	5.00000	4.69	
8 Chloroethane	64	2.728	2.728	(0.378)	10374	5.00000	4.62	
9 Trichlorofluoromethane	101	2.902	2.902	(0.402)	14399	5.00000	4.97	
11 1,1-Dichloroethene +	96	3.542	3.542	(0.491)	11248	5.00000	4.92	
12 Carbon Disulfide	76	3.564	3.564	(0.494)	42006	5.00000	5.24	
13 1,1,2Trichlotrifluoroethane	101	3.608	3.608	(0.500)	11558	5.00000	4.80	
14 Methyl Iodide	142	3.727	3.727	(0.517)	10465	5.00000	5.60	
15 Acrolein	56	4.020	4.020	(0.557)	6905	25.0000	21.1	
17 Methylene Chloride	49	4.346	4.346	(0.603)	21394	5.00000	4.83	
18 Acetone	43	4.433	4.433	(0.615)	12359	5.00000	3.96	
19 trans-1,2-Dichloroethene	61	4.563	4.563	(0.633)	19274	5.00000	4.95	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.596	4.596	(0.637)	14739	5.00000	5.19	5292
	21 Hexane	57	4.672	4.672	(0.648)	16437	5.00000	4.68	7868(M2)
	22 MTBE	73	4.726	4.726	(0.655)	30795	5.00000	5.08	7835
	27 1,1-Dichloroethane ++	63	5.324	5.324	(0.738)	26480	5.00000	5.07	
	29 Acrylonitrile	53	5.400	5.400	(0.749)	27734	25.0000	22.1	
	30 Vinyl Acetate	43	5.639	5.639	(0.782)	24344	5.00000	4.95	
M	61 Total 1,2-Dichloroethene	61				41129	10.0000	9.67	
	31 cis-1,2-Dichloroethene	61	5.932	5.932	(0.822)	21855	5.00000	4.71	
	32 2,2-Dichloropropane	77	6.051	6.051	(0.839)	17069	5.00000	4.87	
	34 Cyclohexane	56	6.149	6.149	(0.852)	23861	5.00000	4.66	9295
	33 Bromochloromethane	128	6.149	6.149	(0.852)	8980	5.00000	5.36	
	35 Chloroform +	83	6.236	6.236	(0.864)	26586	5.00000	5.00	
	36 Carbon Tetrachloride	117	6.355	6.355	(0.881)	13162	5.00000	4.78	
$	39 Dibromofluoromethane	111	6.420	6.420	(0.890)	156026	50.0000	50.5	6719
	40 1,1,1-Trichloroethane	97	6.431	6.431	(0.892)	14413	5.00000	4.53	
	42 2-Butanone	43	6.562	6.562	(0.910)	13738	5.00000	4.81	
	43 1,1-Dichloropropene	75	6.562	6.562	(0.910)	17081	5.00000	4.08	
	45 Benzene	78	6.811	6.811	(0.944)	60392	5.00000	4.76	
$	48 1,2-Dichloroethane-d4	67	6.942	6.942	(0.962)	84857	50.0000	49.4	
	49 1,2-Dichloroethane	62	7.007	7.007	(0.971)	18775	5.00000	4.88	
*	52 FLUOROBENZENE	96	7.213	7.213	(1.000)	515199	50.0000		
	53 Methyl Cyclohexane	83	7.355	7.355	(1.020)	17682	5.00000	4.54	9133
	54 Trichloroethene	130	7.376	7.376	(1.023)	15050	5.00000	4.97	
	57 Dibromomethane	93	7.756	7.756	(1.075)	10864	5.00000	4.83	
	59 1,2-Dichloropropane +	63	7.854	7.854	(1.089)	17788	5.00000	4.40	
	60 Bromodichloromethane	83	7.908	7.908	(1.096)	19662	5.00000	4.91	
	64 1-Bromo-2-chloroethane	63	8.353	8.353	(1.158)	29897	5.00000	4.95	9085
	65 2-Chloroethyl vinyl ether	63	8.407	8.407	(1.166)	1142	5.00000	9.82	(M1)
	66 cis-1,3-Dichloropropene	75	8.483	8.483	(1.176)	24432	5.00000	4.60	
M	6 1-3 Dichloropropene-Total	100				43990	10.0000	9.19	0
$	67 Toluene-d8	98	8.635	8.635	(0.864)	493810	50.0000	50.5	
	69 Toluene +	91	8.679	8.679	(0.869)	63455	5.00000	5.33	
	71 4-methyl-2-pentanone	43	9.005	9.005	(1.248)	19914	5.00000	4.54	
	72 Tetrachloroethene	164	9.027	9.027	(0.903)	8018	5.00000	4.71	
	73 trans-1,3-Dichloropropene	75	9.037	9.037	(0.904)	19558	5.00000	4.81	
	75 1,1,2-Trichloroethane	97	9.179	9.179	(0.918)	13452	5.00000	5.04	
	76 Dibromochloromethane	129	9.341	9.341	(0.935)	15396	5.00000	4.99	
	77 1,3-Dichloropropane	76	9.428	9.428	(0.944)	24413	5.00000	4.57	
	79 1,2-Dibromoethane(EDB)	107	9.569	9.569	(0.958)	14758	5.00000	4.81	
	80 2-Hexanone	43	9.721	9.721	(0.973)	15003	5.00000	4.63	
	82 1-Chlorohexane	91	9.949	9.949	(0.996)	19667	5.00000	5.37	8775
*	83 CHLOROBENZENE-d5	82	9.993	9.993	(1.000)	223971	50.0000		
	84 Chlorobenzene ++	112	10.004	10.004	(1.001)	39485	5.00000	5.04	
	85 Ethylbenzene +	106	10.004	10.004	(1.001)	18303	5.00000	4.74	
	86 1,1,1,2-Tetrachloroethane	133	10.058	10.058	(1.007)	11622	5.00000	4.76	
	87 p,m-Xylene	106	10.124	10.124	(1.013)	46718	10.0000	10.1	
	89 o-Xylene	106	10.504	10.504	(1.051)	21977	5.00000	4.75	

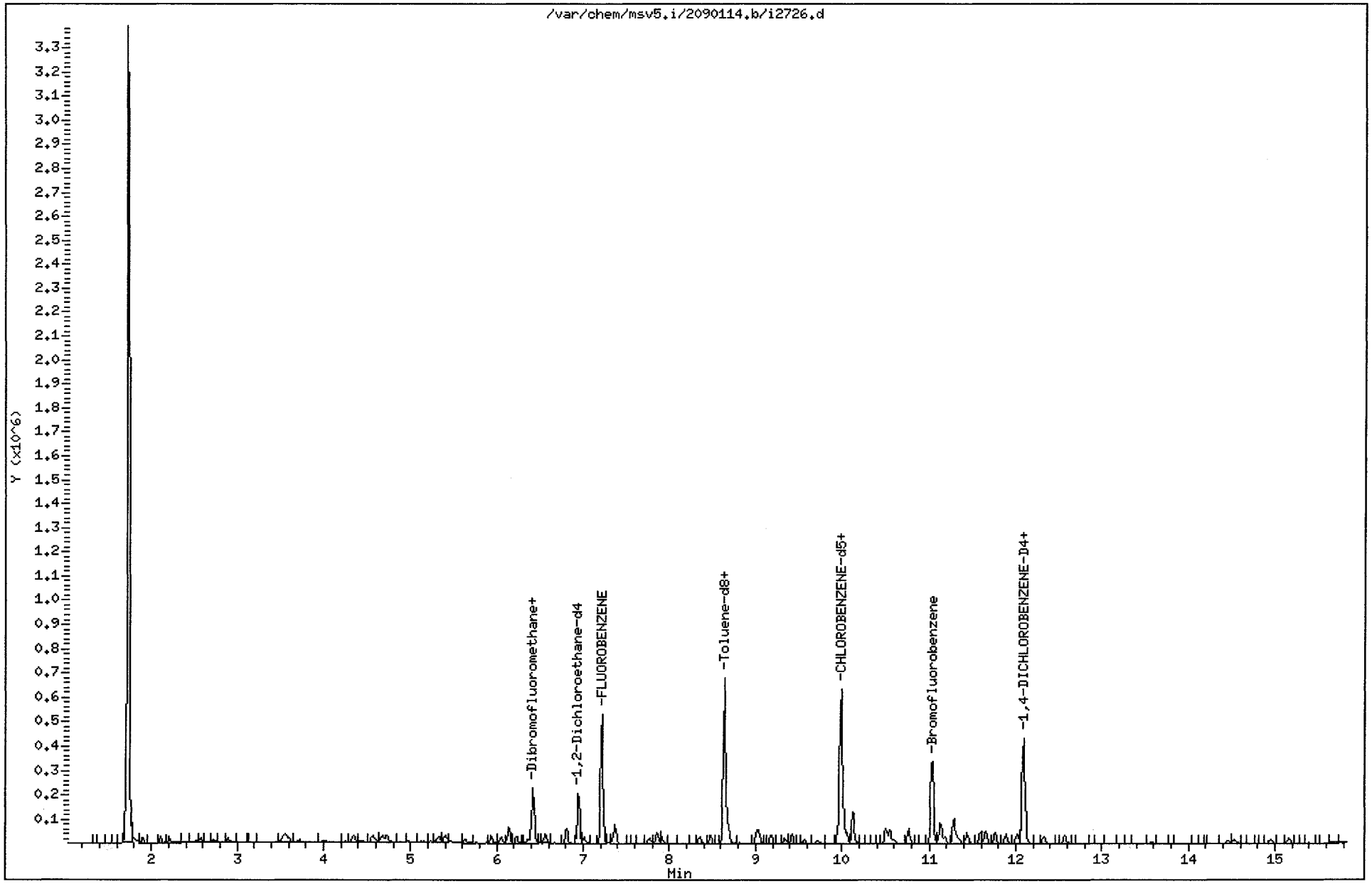
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
90 Styrene	104	10.547	10.547	(1.055)	37874	5.00000	4.82	
91 Bromoform ++	173	10.590	10.590	(1.060)	8270	5.00000	4.60	
93 Isopropylbenzene	105	10.764	10.764	(1.077)	51185	5.00000	4.78	
$ 94 Bromofluorobenzene	174	11.036	11.036	(1.104)	130819	50.0000	53.3	
95 n-Propylbenzene	91	11.123	11.123	(0.920)	57175	5.00000	4.59	
96 Bromobenzene	77	11.134	11.134	(0.921)	29953	5.00000	5.09	
97 1,1,2,2-Tetrachloroethane++	83	11.177	11.177	(0.924)	19864	5.00000	4.98	
98 2-Chlorotoluene	91	11.286	11.286	(0.933)	44912	5.00000	4.89	
99 1,3,5-Trimethylbenzene	105	11.275	11.275	(0.933)	39175	5.00000	4.70	
100 1,2,3-Trichloropropane	75	11.319	11.319	(0.936)	20796	5.00000	4.62	
101 trans-1,4-Dichloro-2-Butene	53	11.340	11.340	(0.938)	3266	5.00000	4.32	
103 4-Chlorotoluene	91	11.438	11.438	(0.946)	39862	5.00000	4.80	
M 124 TOTAL XYLENE	106				68695	15.0000	14.8	
104 tert-butylbenzene	91	11.590	11.590	(0.959)	18155	5.00000	4.25	
106 1,2,4-Trimethylbenzene	105	11.655	11.655	(0.964)	38202	5.00000	4.49	
107 sec-Butylbenzene	105	11.764	11.764	(0.973)	45949	5.00000	4.57	
108 p-Isopropyltoluene	119	11.884	11.884	(0.983)	32390	5.00000	4.36	
110 1,3-Dichlorobenzene	146	12.014	12.014	(0.994)	22284	5.00000	4.72	
* 111 1,4-DICHLOROBENZENE-D4	152	12.090	12.090	(1.000)	163226	50.0000		
112 1,4-Dichlorobenzene	146	12.101	12.101	(1.001)	24090	5.00000	4.67	
115 n-Butylbenzene	91	12.329	12.329	(1.020)	24199	5.00000	5.87	
116 1,2-Dichlorobenzene	146	12.568	12.568	(1.040)	23397	5.00000	5.14	
120 1,2-Dibromo-3-Chloropropane	157	13.566	13.566	(1.122)	2256	5.00000	5.85	
122 Hexachlorobutadiene	225	14.445	14.445	(1.195)	3053	5.00000	5.95	
123 1,2,4-Trichlorobenzene	180	14.543	14.543	(1.203)	8676	5.00000	5.89	
125 Naphthalene	128	14.955	14.955	(1.237)	22025	5.00000	6.03	
126 1,2,3-Trichlorobenzene	180	15.161	15.161	(1.254)	10607	5.00000	5.09	(M3)

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.
M2- Compound response manually integrated because Target system integrated incorrectly.
M3- Compound response manually integrated because Target system integrated incorrect peak.

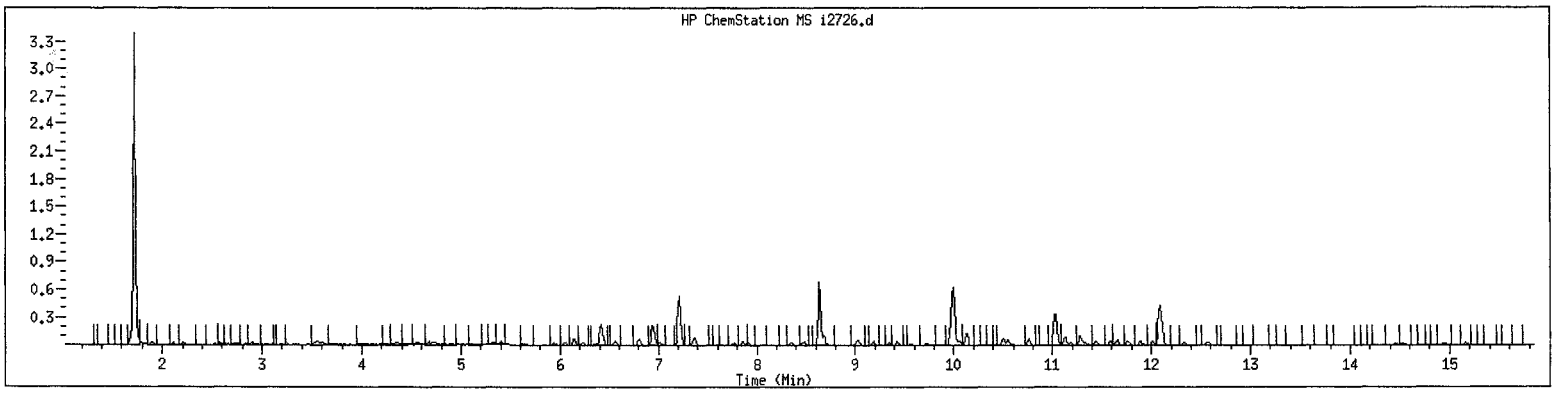
Data File: /var/chem/msv5.i/2090114.b/i2726.d
Date : 14-JAN-2009 10:03
Client ID: V5STD005
Sample Info: 1201*V5STD005
Purge Volume: 5.0
Column phase: RTX-VMS-30M

Instrument: msv5.i
Operator: JCK
Column diameter: 0.25



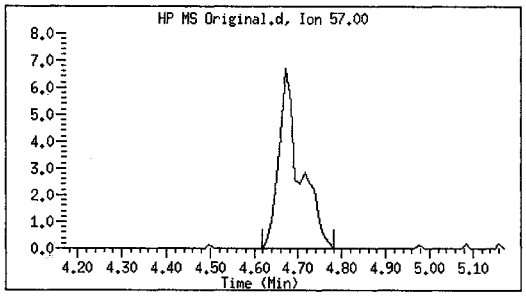
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 01/14/2009 10:03	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1201*V5STD005		
Misc Info	: MSV~15210~*1*WAS		
Method	: /var/chem/msv5.i/2090114.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



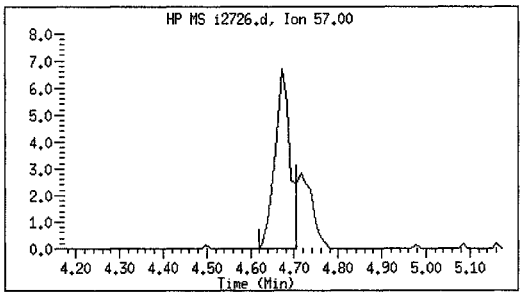
Original | Final

21 Hexane CAS#: 110-54-3 Reason: M2

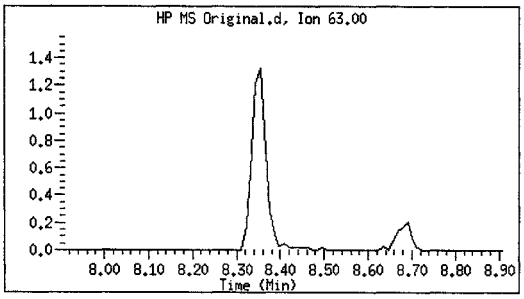


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:43

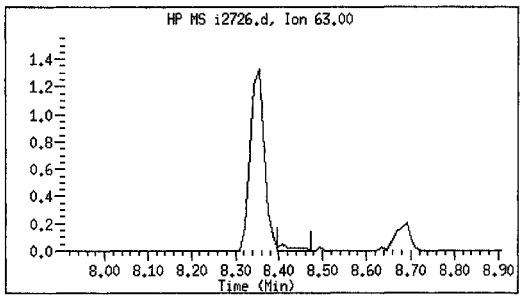


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M1



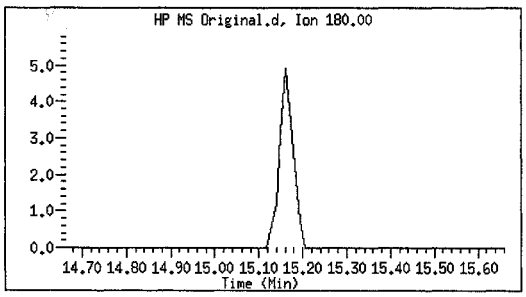
Electronic Signature Applied

User: jck
Date: 01/14/2009 12:18



Original Final

126 1,2,3-Trichlorobenzene CAS#: 87-61-6 Reason: M3



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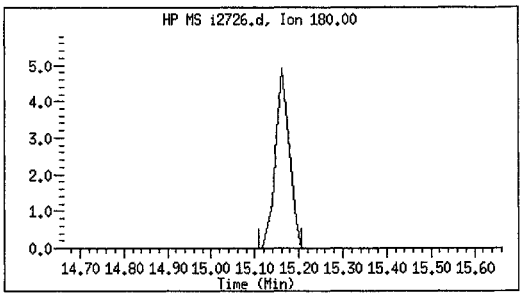
User: jck
Date: 01/14/2009 10:43



M1 - Target system did not integrate
M2 - Target system integrated incorrectly
M3 - Target system integrated incorrect peak

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2727.d
Lab Smp Id: 1208 Client Smp ID: V5STD010
Inj Date : 14-JAN-2009 10:25
Operator : JCK Inst ID: msv5.i
Smp Info : 1208*V5STD010
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 10:25 Cal File: i2727.d
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.262)	32317	10.0000	9.80	
2 Chloromethane ++	50	2.109	2.109	(0.292)	54642	10.0000	10.2	
3 Vinyl Chloride +	62	2.207	2.207	(0.306)	38986	10.0000	9.77	
5 Bromomethane	94	2.576	2.576	(0.357)	23333	10.0000	10.1	
8 Chloroethane	64	2.728	2.728	(0.378)	21516	10.0000	10.1	
9 Trichlorofluoromethane	101	2.891	2.891	(0.401)	28082	10.0000	10.2	
11 1,1-Dichloroethene +	96	3.532	3.532	(0.490)	19992	10.0000	9.18	
12 Carbon Disulfide	76	3.564	3.564	(0.494)	74485	10.0000	9.66	
13 1,1,2Trichlotrifluoroethane	101	3.597	3.597	(0.499)	22331	10.0000	9.74	
14 Methyl Iodide	142	3.716	3.716	(0.515)	23731	10.0000	9.40	
15 Acrolein	56	4.010	4.010	(0.556)	15265	50.0000	48.9	
17 Methylene Chloride	49	4.346	4.346	(0.602)	41084	10.0000	9.74	
18 Acetone	43	4.433	4.433	(0.615)	20528	10.0000	9.60	
19 trans-1,2-Dichloroethene	61	4.564	4.564	(0.633)	36064	10.0000	9.73	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.607	4.607	(0.639)	26447	10.0000	9.77	4626
	21 Hexane	57	4.672	4.672	(0.648)	33767	10.0000	10.1	8743
	22 MTBE	73	4.727	4.727	(0.655)	59145	10.0000	10.2	8476
	27 1,1-Dichloroethane ++	63	5.324	5.324	(0.738)	49245	10.0000	9.91	
	29 Acrylonitrile	53	5.400	5.400	(0.749)	60913	50.0000	50.9	
	30 Vinyl Acetate	43	5.639	5.639	(0.782)	43807	10.0000	9.36	
M	61 Total 1,2-Dichloroethene	61				79579	20.0000	19.6	
	31 cis-1,2-Dichloroethene	61	5.943	5.943	(0.824)	43515	10.0000	9.86	
	32 2,2-Dichloropropane	77	6.051	6.051	(0.839)	35416	10.0000	10.6	
	34 Cyclohexane	56	6.138	6.138	(0.851)	45540	10.0000	9.34	9394
	33 Bromochloromethane	128	6.149	6.149	(0.852)	16515	10.0000	10.4	
	35 Chloroform +	83	6.236	6.236	(0.864)	47696	10.0000	9.85	
	36 Carbon Tetrachloride	117	6.367	6.367	(0.883)	26818	10.0000	10.2	
$	39 Dibromofluoromethane	111	6.421	6.421	(0.890)	148123	50.0000	50.3	7296
	40 1,1,1-Trichloroethane	97	6.432	6.432	(0.892)	29644	10.0000	9.78	
	42 2-Butanone	43	6.562	6.562	(0.910)	27400	10.0000	10.1	
	43 1,1-Dichloropropene	75	6.562	6.562	(0.910)	39374	10.0000	9.89	
	45 Benzene	78	6.812	6.812	(0.944)	119303	10.0000	9.87	
$	48 1,2-Dichloroethane-d4	67	6.942	6.942	(0.962)	85048	50.0000	51.9	
	49 1,2-Dichloroethane	62	7.008	7.008	(0.971)	36965	10.0000	10.1	
*	52 FLUOROBENZENE	96	7.214	7.214	(1.000)	490620	50.0000		
	53 Methyl Cyclohexane	83	7.355	7.355	(1.020)	35798	10.0000	9.66	9432
	54 Trichloroethene	130	7.366	7.366	(1.021)	27982	10.0000	9.70	
	57 Dibromomethane	93	7.768	7.768	(1.077)	22218	10.0000	10.4	
	59 1,2-Dichloropropane +	63	7.855	7.855	(1.089)	38980	10.0000	10.1	
	60 Bromodichloromethane	83	7.909	7.909	(1.096)	36626	10.0000	9.61	
	64 1-Bromo-2-chloroethane	63	8.354	8.354	(1.158)	55711	10.0000	9.68	9490
	65 2-Chloroethyl vinyl ether	63	8.408	8.408	(1.166)	2344	10.0000	12.3	(M2H)
	66 cis-1,3-Dichloropropene	75	8.474	8.474	(1.175)	48618	10.0000	9.62	
M	6 1-3 Dichloropropene-Total	100				87397	20.0000	19.2	0
$	67 Toluene-d8	98	8.637	8.637	(0.865)	485648	50.0000	50.5	
	69 Toluene +	91	8.680	8.680	(0.869)	119000	10.0000	10.2	
	71 4-methyl-2-pentanone	43	9.006	9.006	(1.248)	41163	10.0000	9.86	
	72 Tetrachloroethene	164	9.017	9.017	(0.903)	17441	10.0000	10.4	
	73 trans-1,3-Dichloropropene	75	9.039	9.039	(0.905)	38779	10.0000	9.71	
	75 1,1,2-Trichloroethane	97	9.180	9.180	(0.919)	25457	10.0000	9.71	
	76 Dibromochloromethane	129	9.343	9.343	(0.936)	29877	10.0000	9.85	
	77 1,3-Dichloropropane	76	9.419	9.419	(0.943)	51670	10.0000	9.85	
	79 1,2-Dibromoethane(EDB)	107	9.571	9.571	(0.959)	30455	10.0000	10.1	
	80 2-Hexanone	43	9.723	9.723	(0.974)	31247	10.0000	9.82	
	82 1-Chlorohexane	91	9.951	9.951	(0.997)	32439	10.0000	9.03	9189
*	83 CHLOROBENZENE-d5	82	9.983	9.983	(1.000)	219969	50.0000		
	84 Chlorobenzene ++	112	10.005	10.005	(1.002)	77800	10.0000	10.1	
	85 Ethylbenzene +	106	10.005	10.005	(1.002)	38372	10.0000	10.1	
	86 1,1,1,2-Tetrachloroethane	133	10.049	10.049	(1.007)	23730	10.0000	9.89	
	87 p,m-Xylene	106	10.125	10.125	(1.014)	88643	20.0000	19.5	
	89 o-Xylene	106	10.505	10.505	(1.052)	42847	10.0000	9.42	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
90 Styrene	104	10.549	10.549	(1.057)	73482	10.0000	9.51	
91 Bromoform ++	173	10.592	10.592	(1.061)	16498	10.0000	9.35	
93 Isopropylbenzene	105	10.766	10.766	(1.078)	105289	10.0000	10.0	
$ 94 Bromofluorobenzene	174	11.027	11.027	(1.104)	116014	50.0000	48.1	
95 n-Propylbenzene	91	11.125	11.125	(0.920)	115331	10.0000	9.84	
96 Bromobenzene	77	11.136	11.136	(0.921)	56657	10.0000	10.2	
97 1,1,2,2-Tetrachloroethane++	83	11.190	11.190	(0.925)	41806	10.0000	11.1	
98 2-Chlorotoluene	91	11.288	11.288	(0.933)	88463	10.0000	10.2	
99 1,3,5-Trimethylbenzene	105	11.277	11.277	(0.933)	77191	10.0000	9.85	
100 1,2,3-Trichloropropane	75	11.332	11.332	(0.937)	41861	10.0000	9.88	
101 trans-1,4-Dichloro-2-Butene	53	11.353	11.353	(0.939)	9214	10.0000	10.7	
103 4-Chlorotoluene	91	11.440	11.440	(0.946)	77313	10.0000	9.89	
M 124 TOTAL XYLENE	106				131490	30.0000	28.9	
104 tert-butylbenzene	91	11.592	11.592	(0.959)	41195	10.0000	10.3	
106 1,2,4-Trimethylbenzene	105	11.658	11.658	(0.964)	82410	10.0000	10.3	
107 sec-Butylbenzene	105	11.756	11.756	(0.972)	95870	10.0000	10.1	
108 p-Isopropyltoluene	119	11.886	11.886	(0.983)	70496	10.0000	10.1	
110 1,3-Dichlorobenzene	146	12.016	12.016	(0.994)	45210	10.0000	10.2	
* 111 1,4-DICHLOROBENZENE-D4	152	12.093	12.093	(1.000)	153526	50.0000		
112 1,4-Dichlorobenzene	146	12.104	12.104	(1.001)	45449	10.0000	9.37	
115 n-Butylbenzene	91	12.332	12.332	(1.020)	51566	10.0000	10.3	
116 1,2-Dichlorobenzene	146	12.571	12.571	(1.040)	41808	10.0000	9.77	
120 1,2-Dibromo-3-Chloropropane	157	13.569	13.569	(1.122)	4652	10.0000	10.3	
122 Hexachlorobutadiene	225	14.459	14.459	(1.196)	6383	10.0000	11.2	
123 1,2,4-Trichlorobenzene	180	14.535	14.535	(1.202)	16232	10.0000	9.56	
125 Naphthalene	128	14.947	14.947	(1.236)	46030	10.0000	9.79	
126 1,2,3-Trichlorobenzene	180	15.164	15.164	(1.254)	19272	10.0000	9.83	(M3)

QC Flag Legend

M2- Compound response manually integrated because Target system integrated incorrectly.
M3- Compound response manually integrated because Target system integrated incorrect peak.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2090114.b/i2727.d

Date : 14-JAN-2009 10:25

Client ID: V5STD010

Instrument: msv5.i

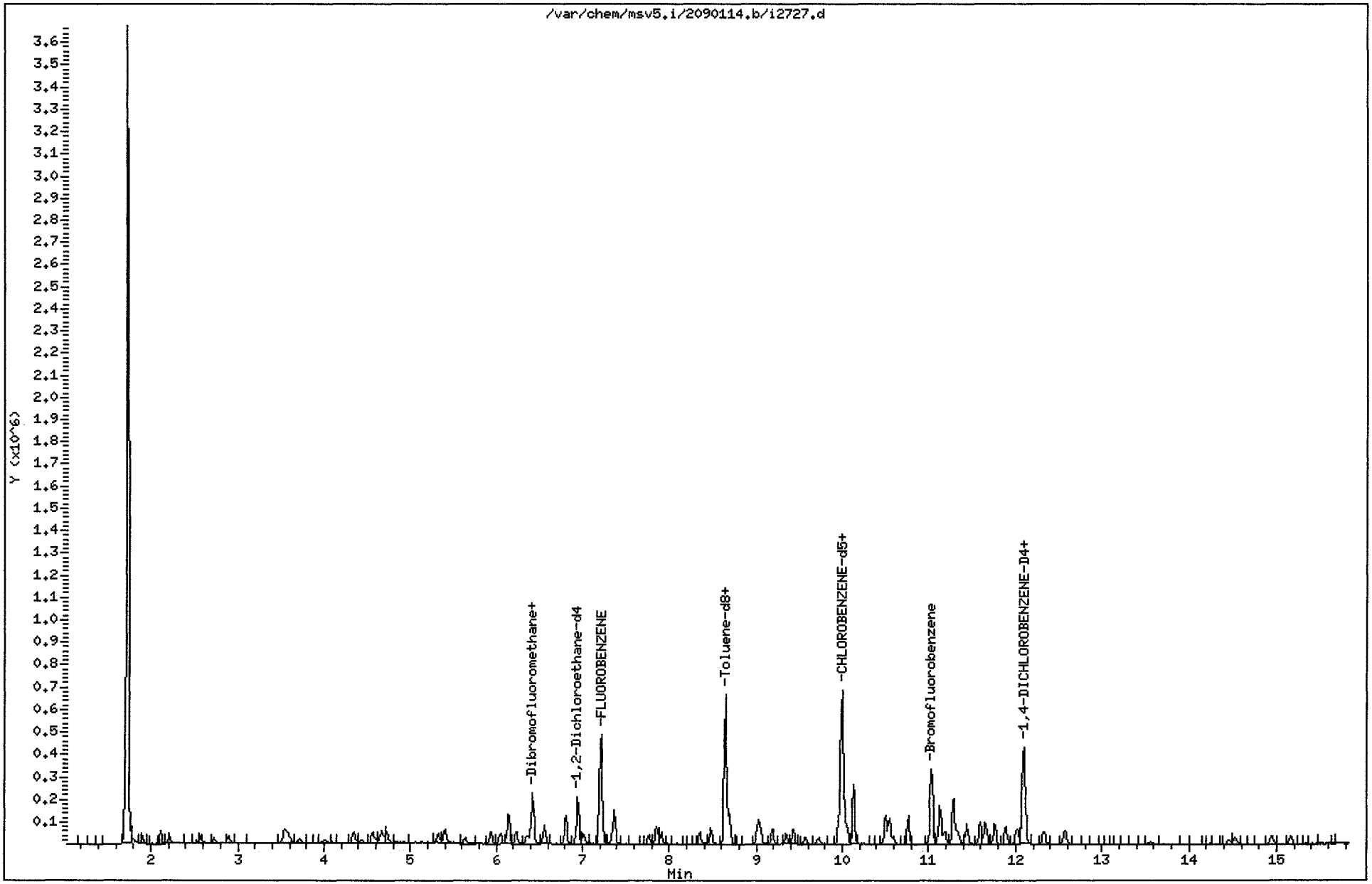
Sample Info: 1208*V5STD010

Purge Volume: 5.0

Operator: JCK

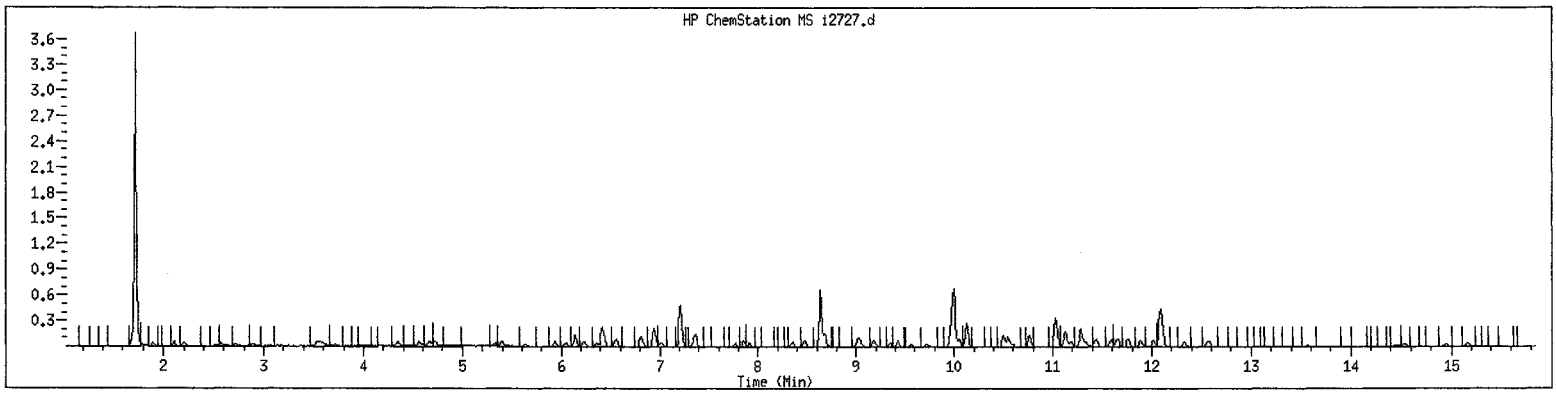
Column phase: RTX-VMS-30M

Column diameter: 0.25



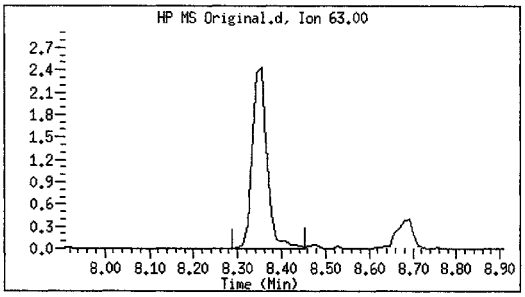
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1208	SampleType	: CALIB_8
Injection Date	: 01/14/2009 10:25	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1208*V5STD010		
Misc Info	: MSV~15210~*1*WAS		
Method	: /var/chem/msv5.i/2090114.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



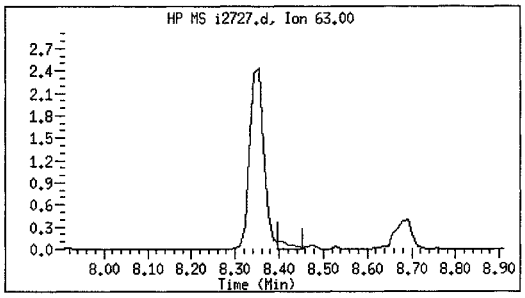
Original Final

65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M2

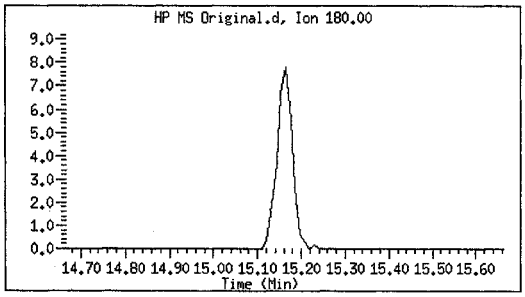


Electronic Signature Applied

User: jck
Date: 01/14/2009 12:18

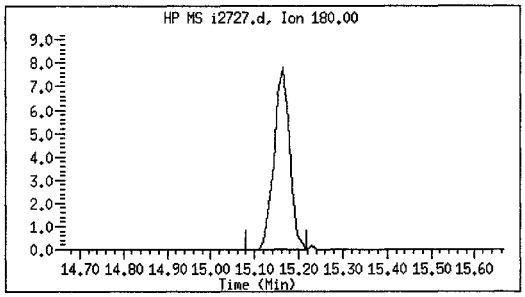


126 1,2,3-Trichlorobenzene CAS#: 87-61-6 Reason: M3



Electronic Signature Applied

User: jck
Date: 01/14/2009 10:43



M2 - Target system integrated incorrectly
M3 - Target system integrated incorrect peak

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2728.d
Lab Smp Id: 1202 Client Smp ID: V5STD020
Inj Date : 14-JAN-2009 10:48
Operator : JCK Inst ID: msv5.i
Smp Info : 1202*V5STD020
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 10:48 Cal File: i2728.d
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.262)	62982	20.0000	19.2	
2 Chloromethane ++	50	2.109	2.109	(0.292)	102895	20.0000	19.3	
3 Vinyl Chloride +	62	2.207	2.207	(0.306)	78661	20.0000	19.8	
5 Bromomethane	94	2.576	2.576	(0.357)	42342	20.0000	18.4	
8 Chloroethane	64	2.728	2.728	(0.378)	38702	20.0000	18.2	
9 Trichlorofluoromethane	101	2.902	2.902	(0.402)	54234	20.0000	19.8	
11 1,1-Dichloroethene +	96	3.532	3.532	(0.489)	40527	20.0000	18.7	
12 Carbon Disulfide	76	3.565	3.565	(0.494)	149939	20.0000	19.5	
13 1,1,2Trichlotrifluoroethane	101	3.597	3.597	(0.499)	44995	20.0000	19.8	
14 Methyl Iodide	142	3.717	3.717	(0.515)	54305	20.0000	17.9	
15 Acrolein	56	4.010	4.010	(0.556)	33183	100.000	107	
17 Methylene Chloride	49	4.347	4.347	(0.602)	79877	20.0000	19.1	
18 Acetone	43	4.434	4.434	(0.615)	36889	20.0000	20.3	
19 trans-1,2-Dichloroethene	61	4.564	4.564	(0.633)	69877	20.0000	19.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.608	4.608	(0.639)	55049	20.0000	20.5	4757
	21 Hexane	57	4.673	4.673	(0.648)	68264	20.0000	20.5	9151(M2)
	22 MTBE	73	4.727	4.727	(0.655)	118042	20.0000	20.6	8875
	27 1,1-Dichloroethane ++	63	5.325	5.325	(0.738)	94382	20.0000	19.1	
	29 Acrylonitrile	53	5.401	5.401	(0.749)	122480	100.000	103	
	30 Vinyl Acetate	43	5.640	5.640	(0.782)	101253	20.0000	21.8	
M	61 Total 1,2-Dichloroethene	61				154380	40.0000	38.2	
	31 cis-1,2-Dichloroethene	61	5.933	5.933	(0.822)	84503	20.0000	19.3	
	32 2,2-Dichloropropane	77	6.052	6.052	(0.839)	65349	20.0000	19.7	
	34 Cyclohexane	56	6.139	6.139	(0.851)	97581	20.0000	20.2	9350
	33 Bromochloromethane	128	6.150	6.150	(0.852)	32160	20.0000	20.3	
	35 Chloroform +	83	6.226	6.226	(0.863)	93631	20.0000	19.9	
	36 Carbon Tetrachloride	117	6.368	6.368	(0.883)	55153	20.0000	21.2	
$	39 Dibromofluoromethane	111	6.422	6.422	(0.890)	144810	50.0000	49.5	8281
	40 1,1,1-Trichloroethane	97	6.433	6.433	(0.892)	59526	20.0000	19.8	
	42 2-Butanone	43	6.563	6.563	(0.910)	55046	20.0000	20.4	
	43 1,1-Dichloropropene	75	6.563	6.563	(0.910)	75677	20.0000	19.1	
	45 Benzene	78	6.813	6.813	(0.944)	237244	20.0000	19.8	
$	48 1,2-Dichloroethane-d4	67	6.943	6.943	(0.962)	79656	50.0000	49.0	
	49 1,2-Dichloroethane	62	7.009	7.009	(0.971)	76535	20.0000	21.0	
*	52 FLUOROBENZENE	96	7.215	7.215	(1.000)	487342	50.0000		
	53 Methyl Cyclohexane	83	7.356	7.356	(1.020)	72884	20.0000	19.8	9417
	54 Trichloroethene	130	7.367	7.367	(1.021)	56644	20.0000	19.8	
	57 Dibromomethane	93	7.769	7.769	(1.077)	42110	20.0000	19.8	
	59 1,2-Dichloropropane +	63	7.856	7.856	(1.089)	75954	20.0000	19.9	
	60 Bromodichloromethane	83	7.910	7.910	(1.096)	75685	20.0000	20.0	
	64 1-Bromo-2-chloroethane	63	8.356	8.356	(1.158)	121242	20.0000	21.2	9537
	65 2-Chloroethyl vinyl ether	63	8.399	8.399	(1.164)	4533	20.0000	16.7	(M2H)
	66 cis-1,3-Dichloropropene	75	8.475	8.475	(1.175)	100587	20.0000	20.0	
M	6 1-3 Dichloropropene-Total	100				183315	40.0000	40.5	0
$	67 Toluene-d8	98	8.638	8.638	(0.865)	494047	50.0000	48.9	
	69 Toluene +	91	8.682	8.682	(0.869)	234793	20.0000	19.1	
	71 4-methyl-2-pentanone	43	9.008	9.008	(1.248)	86005	20.0000	20.7	
	72 Tetrachloroethene	164	9.029	9.029	(0.904)	37781	20.0000	21.5	
	73 trans-1,3-Dichloropropene	75	9.040	9.040	(0.905)	82728	20.0000	19.7	
	75 1,1,2-Trichloroethane	97	9.182	9.182	(0.919)	55577	20.0000	20.2	
	76 Dibromochloromethane	129	9.345	9.345	(0.936)	60431	20.0000	19.0	
	77 1,3-Dichloropropane	76	9.421	9.421	(0.943)	110200	20.0000	20.0	
	79 1,2-Dibromoethane(EDB)	107	9.562	9.562	(0.958)	64489	20.0000	20.4	
	80 2-Hexanone	43	9.725	9.725	(0.974)	68233	20.0000	20.4	
	82 1-Chlorohexane	91	9.953	9.953	(0.997)	68005	20.0000	18.0	9511
*	83 CHLOROBENZENE-d5	82	9.986	9.986	(1.000)	231155	50.0000		
	84 Chlorobenzene ++	112	10.007	10.007	(1.002)	153731	20.0000	19.0	
	85 Ethylbenzene +	106	10.007	10.007	(1.002)	76122	20.0000	19.1	
	86 1,1,1,2-Tetrachloroethane	133	10.051	10.051	(1.007)	48336	20.0000	19.2	
	87 p,m-Xylene	106	10.127	10.127	(1.014)	188135	40.0000	39.3	
	89 o-Xylene	106	10.507	10.507	(1.052)	90761	20.0000	19.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
90 Styrene	104	10.551	10.551	(1.057)	159835	20.0000	19.7	
91 Bromoform ++	173	10.595	10.595	(1.061)	36563	20.0000	19.7	
93 Isopropylbenzene	105	10.768	10.768	(1.078)	214354	20.0000	19.4	
$ 94 Bromofluorobenzene	174	11.029	11.029	(1.105)	123610	50.0000	48.8	
95 n-Propylbenzene	91	11.127	11.127	(0.921)	238932	20.0000	20.0	
96 Bromobenzene	77	11.138	11.138	(0.922)	114437	20.0000	20.3	
97 1,1,2,2-Tetrachloroethane++	83	11.182	11.182	(0.925)	82956	20.0000	21.7	
98 2-Chlorotoluene	91	11.280	11.280	(0.933)	182224	20.0000	20.7	
99 1,3,5-Trimethylbenzene	105	11.280	11.280	(0.933)	163378	20.0000	20.4	
100 1,2,3-Trichloropropane	75	11.334	11.334	(0.938)	87186	20.0000	20.2	
101 trans-1,4-Dichloro-2-Butene	53	11.345	11.345	(0.939)	19284	20.0000	20.8	
103 4-Chlorotoluene	91	11.432	11.432	(0.946)	159973	20.0000	20.1	
M 124 TOTAL XYLENE	106				278896	60.0000	58.3	
104 tert-butylbenzene	91	11.595	11.595	(0.959)	82600	20.0000	20.2	
106 1,2,4-Trimethylbenzene	105	11.650	11.650	(0.964)	165895	20.0000	20.3	
107 sec-Butylbenzene	105	11.758	11.758	(0.973)	192900	20.0000	20.0	
108 p-Isopropyltoluene	119	11.889	11.889	(0.984)	145423	20.0000	20.4	
110 1,3-Dichlorobenzene	146	12.019	12.019	(0.995)	95430	20.0000	21.1	
* 111 1,4-DICHLOROBENZENE-D4	152	12.085	12.085	(1.000)	156585	50.0000		
112 1,4-Dichlorobenzene	146	12.107	12.107	(1.002)	94467	20.0000	19.1	
115 n-Butylbenzene	91	12.324	12.324	(1.020)	109683	20.0000	19.0	
116 1,2-Dichlorobenzene	146	12.574	12.574	(1.040)	91892	20.0000	21.1	
120 1,2-Dibromo-3-Chloropropane	157	13.572	13.572	(1.123)	9361	20.0000	18.3	
122 Hexachlorobutadiene	225	14.462	14.462	(1.197)	12751	20.0000	20.4	
123 1,2,4-Trichlorobenzene	180	14.527	14.527	(1.202)	39211	20.0000	19.7	
125 Naphthalene	128	14.940	14.940	(1.236)	108764	20.0000	18.8	
126 1,2,3-Trichlorobenzene	180	15.157	15.157	(1.254)	39511	20.0000	19.8	

QC Flag Legend

M2- Compound response manually integrated because
Target system integrated incorrectly.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2090114.b/i2728.d

Date : 14-JAN-2009 10:48

Client ID: V5STD020

Instrument: msv5.i

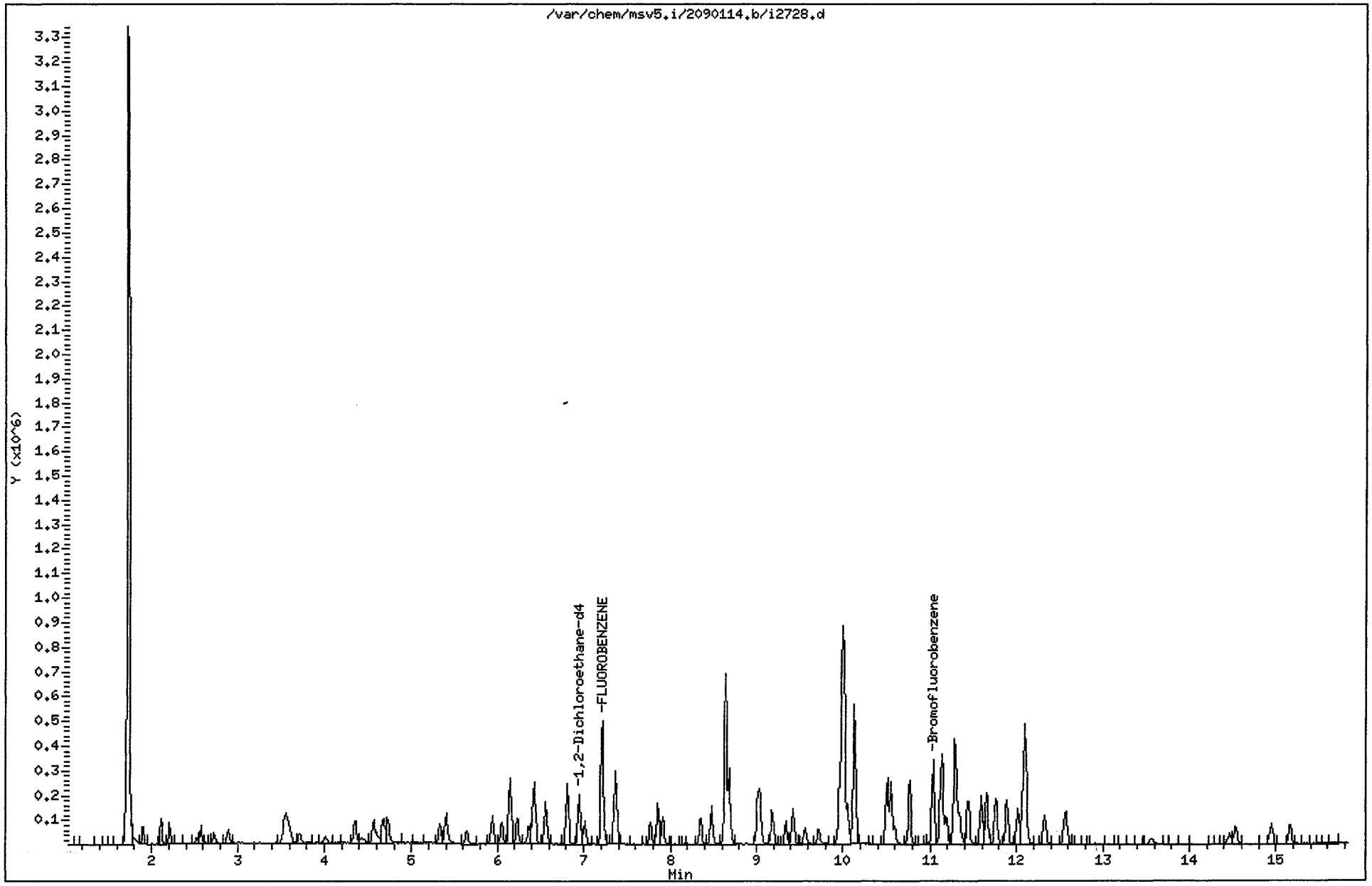
Sample Info: 1202WV5STD020

Purge Volume: 5.0

Operator: JCK

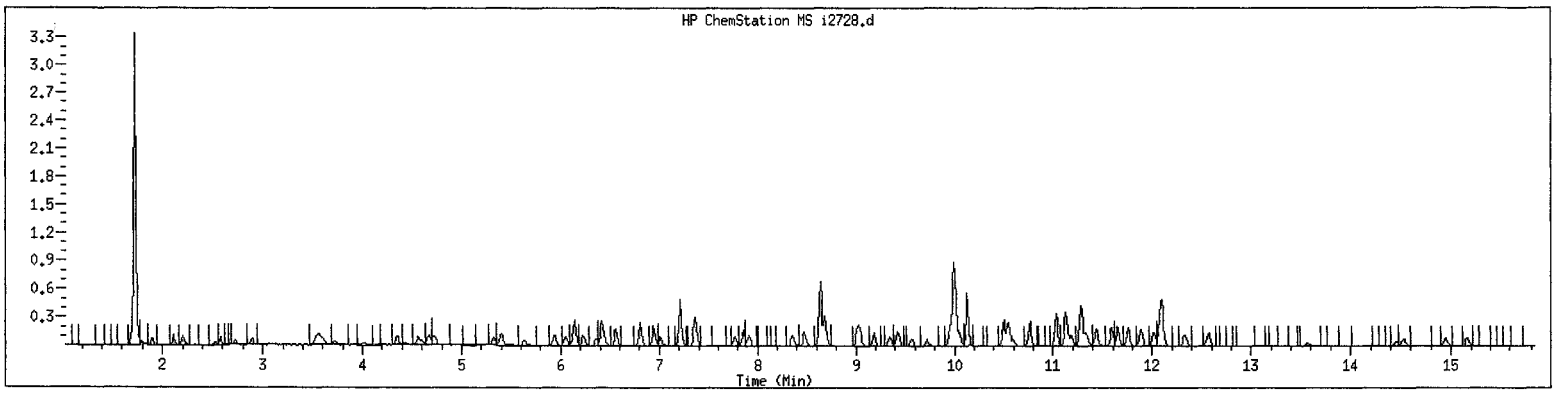
Column phase: RTX-VMS-30M

Column diameter: 0.25



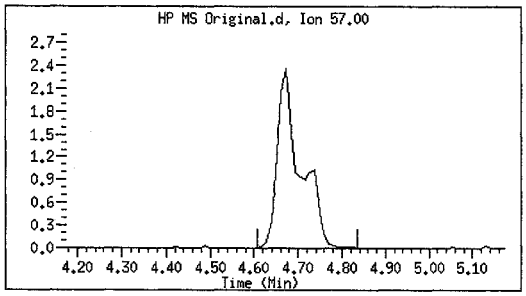
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 01/14/2009 10:48 Instrument : msv5.i
Operator : JCK
Sample Info : 1202*V5STD020
Misc Info : MSV~15210~*1*WAS
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



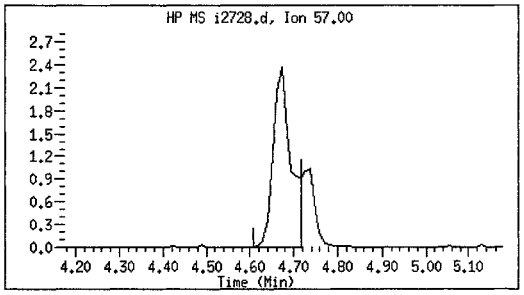
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2

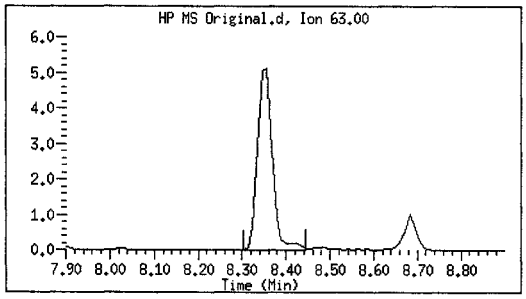


Electronic Signature Applied

User: jck
Date: 01/14/2009 10:46

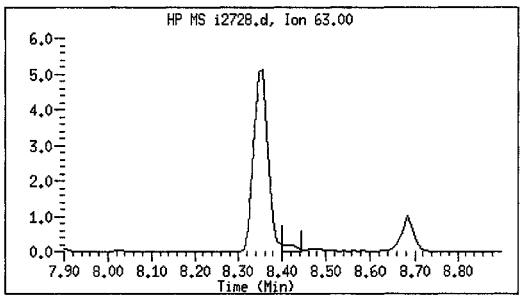


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M2



Electronic Signature Applied

User: jck
Date: 01/14/2009 12:18



M2 - Target system integrated incorrectly

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2729.d
Lab Smp Id: 1203 Client Smp ID: V5STD050
Inj Date : 14-JAN-2009 11:11
Operator : JCK Inst ID: msv5.i
Smp Info : 1203*V5STD050
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:11 Cal File: i2729.d
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.263)	168459	50.0000	51.4	
2 Chloromethane ++	50	2.109	2.109	(0.293)	266274	50.0000	50.0	
3 Vinyl Chloride +	62	2.207	2.207	(0.306)	202590	50.0000	51.0	
5 Bromomethane	94	2.576	2.576	(0.358)	107959	50.0000	47.0	
8 Chloroethane	64	2.728	2.728	(0.379)	106094	50.0000	49.9	
9 Trichlorofluoromethane	101	2.891	2.891	(0.401)	141774	50.0000	51.7	
11 1,1-Dichloroethene +	96	3.532	3.532	(0.490)	104518	50.0000	48.2	
12 Carbon Disulfide	76	3.565	3.565	(0.495)	381736	50.0000	49.3	
13 1,1,2Trichlotrifluoroethane	101	3.598	3.598	(0.499)	115374	50.0000	50.6	
14 Methyl Iodide	142	3.717	3.717	(0.516)	161159	50.0000	47.6	
15 Acrolein	56	4.011	4.011	(0.557)	78977	250.000	255	
17 Methylene Chloride	49	4.348	4.348	(0.603)	200396	50.0000	47.7	
18 Acetone	43	4.434	4.434	(0.615)	86572	50.0000	52.4	
19 trans-1,2-Dichloroethene	61	4.565	4.565	(0.633)	182702	50.0000	49.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.608	4.608	(0.640)	133900	50.0000	49.8	4929
	21 Hexane	57	4.674	4.674	(0.649)	166248	50.0000	50.0	9329(M2)
	22 MTBE	73	4.728	4.728	(0.656)	285664	50.0000	49.7	9079
	27 1,1-Dichloroethane ++	63	5.326	5.326	(0.739)	239656	50.0000	48.5	
	29 Acrylonitrile	53	5.402	5.402	(0.750)	305997	250.000	257	
	30 Vinyl Acetate	43	5.641	5.641	(0.783)	235110	50.0000	50.5	
M	61 Total 1,2-Dichloroethene	61				407594	100.000	101	
	31 cis-1,2-Dichloroethene	61	5.934	5.934	(0.823)	224892	50.0000	51.2	
	32 2,2-Dichloropropane	77	6.053	6.053	(0.840)	165314	50.0000	49.8	
	34 Cyclohexane	56	6.140	6.140	(0.852)	249513	50.0000	51.5	9340
	33 Bromochloromethane	128	6.151	6.151	(0.854)	80248	50.0000	50.6	
	35 Chloroform +	83	6.228	6.228	(0.864)	232733	50.0000	50.2	
	36 Carbon Tetrachloride	117	6.358	6.358	(0.882)	133546	50.0000	51.2	
$	39 Dibromofluoromethane	111	6.423	6.423	(0.891)	146131	50.0000	49.9	9141
	40 1,1,1-Trichloroethane	97	6.434	6.434	(0.893)	159975	50.0000	53.1	
	42 2-Butanone	43	6.554	6.554	(0.909)	137614	50.0000	50.8	
	43 1,1-Dichloropropene	75	6.565	6.565	(0.911)	202368	50.0000	51.1	
	45 Benzene	78	6.815	6.815	(0.946)	608133	50.0000	50.6	
$	48 1,2-Dichloroethane-d4	67	6.945	6.945	(0.964)	80103	50.0000	49.2	
	49 1,2-Dichloroethane	62	7.010	7.010	(0.973)	183064	50.0000	50.2	
*	52 FLUOROBENZENE	96	7.206	7.206	(1.000)	488002	50.0000		
	53 Methyl Cyclohexane	83	7.358	7.358	(1.021)	188144	50.0000	51.0	9586
	54 Trichloroethene	130	7.369	7.369	(1.023)	141603	50.0000	49.3	
	57 Dibromomethane	93	7.771	7.771	(1.078)	103873	50.0000	48.8	
	59 1,2-Dichloropropane +	63	7.858	7.858	(1.090)	194484	50.0000	50.8	
	60 Bromodichloromethane	83	7.912	7.912	(1.098)	185807	50.0000	49.0	
	64 1-Bromo-2-chloroethane	63	8.347	8.347	(1.158)	299549	50.0000	52.3	9567
	65 2-Chloroethyl vinyl ether	63	8.412	8.412	(1.167)	16936	50.0000	41.2	(M2H)
	66 cis-1,3-Dichloropropene	75	8.477	8.477	(1.176)	265053	50.0000	52.7	
M	6 1-3 Dichloropropene-Total	100				477934	100.000	105	0
$	67 Toluene-d8	98	8.640	8.640	(0.865)	482159	50.0000	49.0	
	69 Toluene +	91	8.684	8.684	(0.869)	598350	50.0000	50.1	
	71 4-methyl-2-pentanone	43	9.010	9.010	(1.250)	215501	50.0000	51.9	
	72 Tetrachloroethene	164	9.021	9.021	(0.903)	89351	50.0000	52.2	
	73 trans-1,3-Dichloropropene	75	9.043	9.043	(0.905)	212881	50.0000	52.1	
	75 1,1,2-Trichloroethane	97	9.184	9.184	(0.919)	138493	50.0000	51.7	
	76 Dibromochloromethane	129	9.347	9.347	(0.936)	153578	50.0000	49.5	
	77 1,3-Dichloropropane	76	9.423	9.423	(0.943)	267386	50.0000	49.8	
	79 1,2-Dibromoethane(EDB)	107	9.565	9.565	(0.958)	153804	50.0000	49.9	
	80 2-Hexanone	43	9.717	9.717	(0.973)	166996	50.0000	51.3	
	82 1-Chlorohexane	91	9.956	9.956	(0.997)	187887	50.0000	51.1	9656
*	83 CHLOROBENZENE-d5	82	9.989	9.989	(1.000)	224995	50.0000		
	84 Chlorobenzene ++	112	10.010	10.010	(1.002)	386242	50.0000	49.1	
	85 Ethylbenzene +	106	10.010	10.010	(1.002)	197204	50.0000	50.9	
	86 1,1,1,2-Tetrachloroethane	133	10.054	10.054	(1.007)	120601	50.0000	49.1	
	87 p,m-Xylene	106	10.130	10.130	(1.014)	471488	100.000	101	
	89 o-Xylene	106	10.511	10.511	(1.052)	241183	50.0000	51.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
90 Styrene	104	10.554	10.554	(1.057)	419026	50.0000	53.0	
91 Bromoform ++	173	10.598	10.598	(1.061)	95146	50.0000	52.7	
93 Isopropylbenzene	105	10.761	10.761	(1.077)	559786	50.0000	52.1	
$ 94 Bromofluorobenzene	174	11.033	11.033	(1.105)	118313	50.0000	48.0	
95 n-Propylbenzene	91	11.120	11.120	(0.920)	627176	50.0000	50.4	
96 Bromobenzene	77	11.131	11.131	(0.921)	292823	50.0000	49.7	
97 1,1,2,2-Tetrachloroethane++	83	11.185	11.185	(0.925)	204579	50.0000	51.3	
98 2-Chlorotoluene	91	11.283	11.283	(0.933)	464964	50.0000	50.7	
99 1,3,5-Trimethylbenzene	105	11.283	11.283	(0.933)	421243	50.0000	50.6	
100 1,2,3-Trichloropropane	75	11.338	11.338	(0.938)	231368	50.0000	51.4	
101 trans-1,4-Dichloro-2-Butene	53	11.349	11.349	(0.939)	47908	50.0000	48.1	
103 4-Chlorotoluene	91	11.436	11.436	(0.946)	413139	50.0000	49.7	
M 124 TOTAL XYLENE	106				712671	150.000	153	
104 tert-butylbenzene	91	11.588	11.588	(0.959)	215125	50.0000	50.4	
106 1,2,4-Trimethylbenzene	105	11.654	11.654	(0.964)	434181	50.0000	51.1	
107 sec-Butylbenzene	105	11.763	11.763	(0.973)	520737	50.0000	51.8	
108 p-Isopropyltoluene	119	11.893	11.893	(0.984)	387284	50.0000	52.2	
110 1,3-Dichlorobenzene	146	12.013	12.013	(0.994)	239822	50.0000	50.8	
* 111 1,4-DICHLOROBENZENE-D4	152	12.089	12.089	(1.000)	163164	50.0000		
112 1,4-Dichlorobenzene	146	12.111	12.111	(1.002)	247796	50.0000	48.1	
115 n-Butylbenzene	91	12.329	12.329	(1.020)	304760	50.0000	46.7	
116 1,2-Dichlorobenzene	146	12.568	12.568	(1.040)	230153	50.0000	50.6	
120 1,2-Dibromo-3-Chloropropane	157	13.577	13.577	(1.123)	28136	50.0000	48.9	
122 Hexachlorobutadiene	225	14.467	14.467	(1.197)	32795	50.0000	47.9	
123 1,2,4-Trichlorobenzene	180	14.533	14.533	(1.202)	105436	50.0000	47.3	
125 Naphthalene	128	14.945	14.945	(1.236)	313626	50.0000	46.9	
126 1,2,3-Trichlorobenzene	180	15.163	15.163	(1.254)	102708	50.0000	49.3	

QC Flag Legend

M2- Compound response manually integrated because
Target system integrated incorrectly.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2090114.b/i2729.d

Date : 14-JAN-2009 11:11

Client ID: V5STD050

Instrument: msv5.i

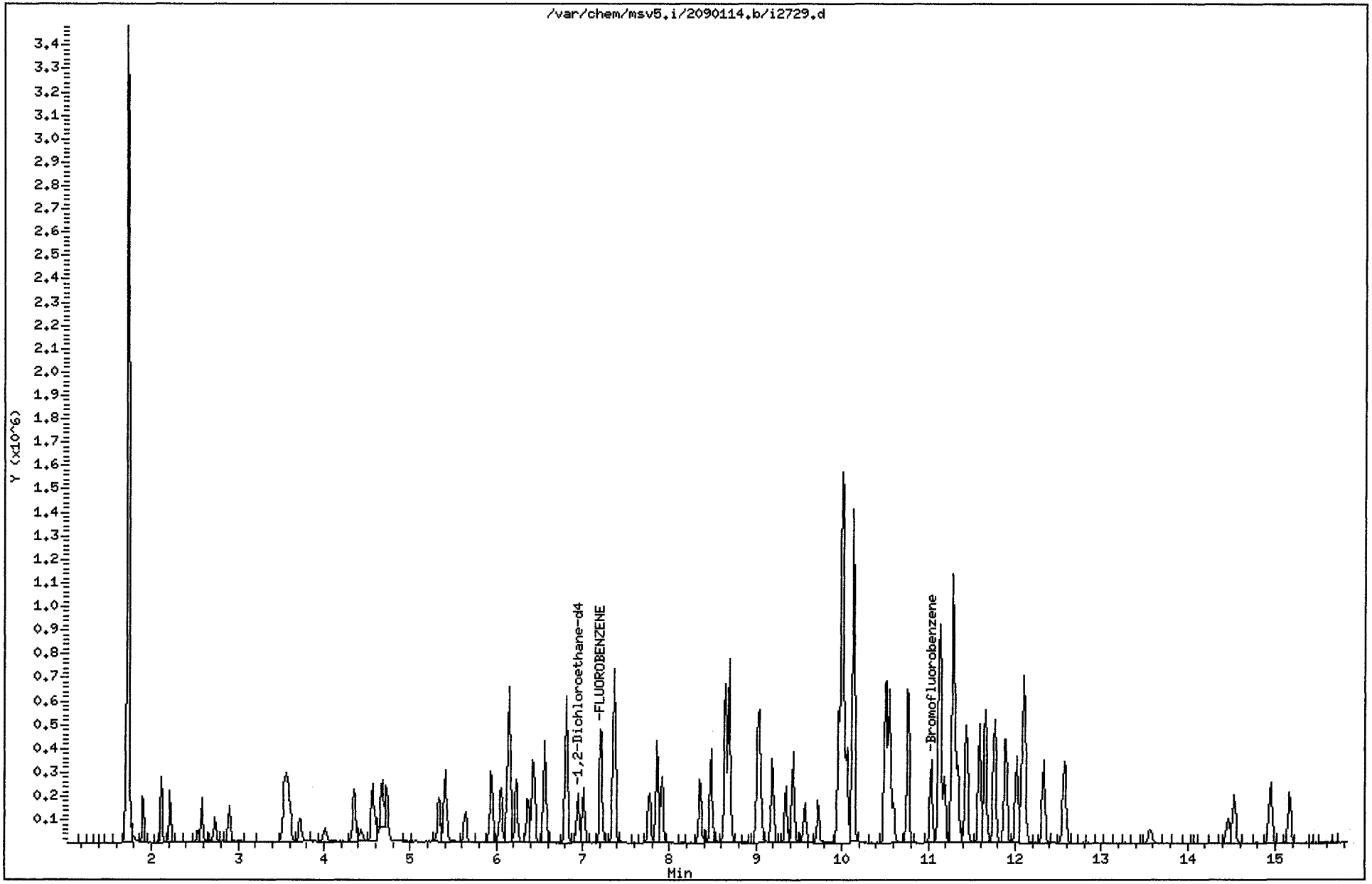
Sample Info: 1203*V5STD050

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

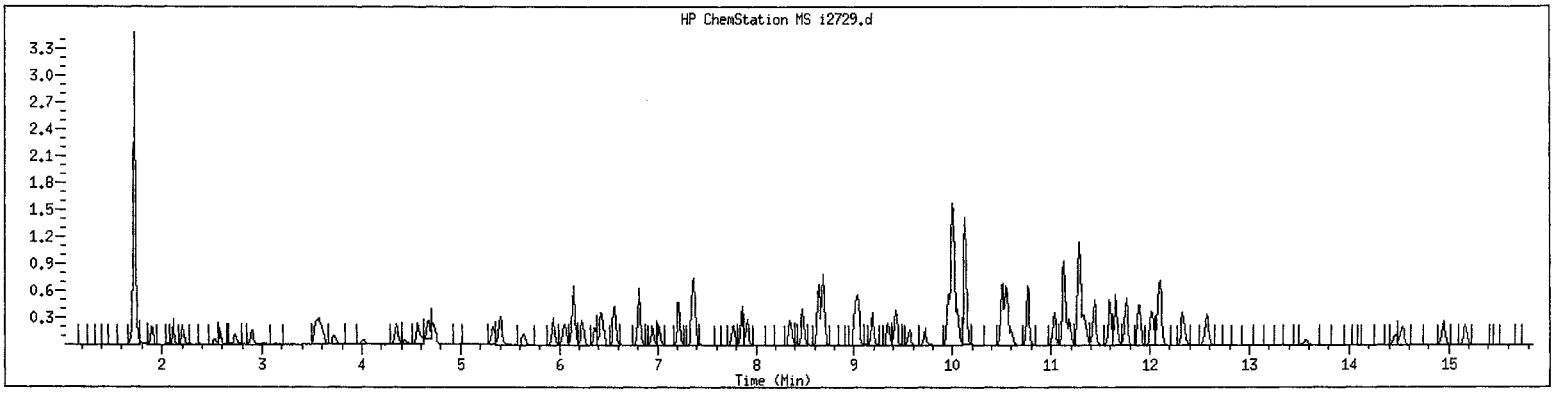
Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

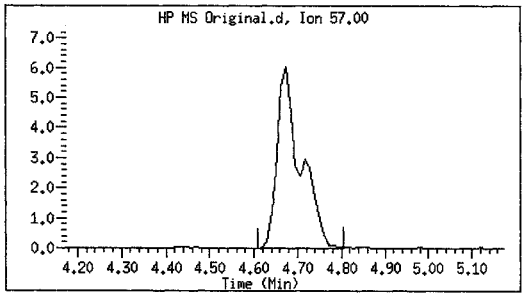
Lab ID : 1203
Injection Date: 01/14/2009 11:11
Operator : JCK
Sample Info : 1203*V5STD050
Misc Info : MSV~15210~*1*WAS
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE

SampleType : CALIB_3
Instrument : msv5.i
Compound Sublist: 8260b



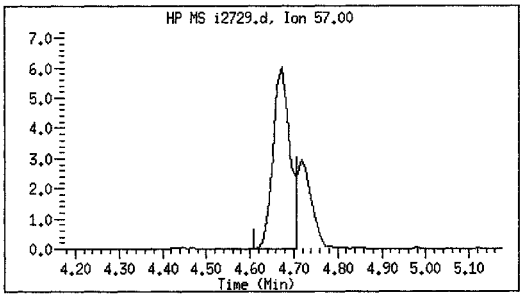
Original | Final

21 Hexane CAS#: 110-54-3 Reason: M2

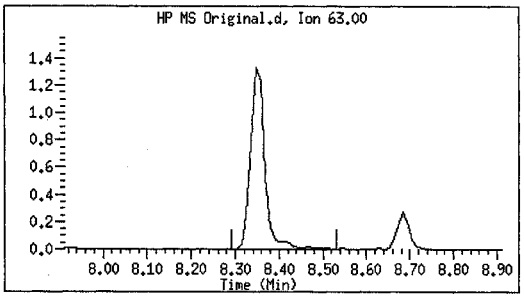


Electronic Signature Applied

User: jck
Date: 01/14/2009 11:10

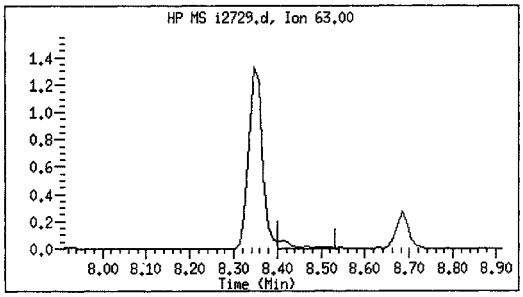


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M2



Electronic Signature Applied

User: jck
Date: 01/14/2009 12:17



M2 - Target system integrated incorrectly

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2730.d
Lab Smp Id: 1204 Client Smp ID: V5STD100
Inj Date : 14-JAN-2009 11:34
Operator : JCK Inst ID: msv5.i
Smp Info : 1204*V5STD100
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:34 Cal File: i2730.d
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(1.000)	347561	100.000	108	
2 Chloromethane ++	50	2.109	2.109	(1.000)	540377	100.000	103	
3 Vinyl Chloride +	62	2.207	2.207	(1.000)	421092	100.000	108	
5 Bromomethane	94	2.576	2.576	(1.000)	228914	100.000	101	
8 Chloroethane	64	2.729	2.729	(1.000)	208087	100.000	99.4	
9 Trichlorofluoromethane	101	2.892	2.892	(1.000)	294926	100.000	109	
11 1,1-Dichloroethene +	96	3.533	3.533	(1.000)	214500	100.000	100	
12 Carbon Disulfide	76	3.565	3.565	(1.000)	772232	100.000	101	
13 1,1,2Trichlotrifluoroethane	101	3.598	3.598	(1.000)	238617	100.000	106	
14 Methyl Iodide	142	3.718	3.718	(1.000)	353872	100.000	103	
15 Acrolein	56	4.011	4.011	(1.000)	161822	500.000	530	
17 Methylene Chloride	49	4.348	4.348	(1.000)	399970	100.000	96.8	
18 Acetone	43	4.435	4.435	(1.000)	161896	100.000	103	
19 trans-1,2-Dichloroethene	61	4.566	4.566	(1.000)	369674	100.000	102	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.609	4.609	(1.000)	274141	100.000	103	5005
	21 Hexane	57	4.664	4.664	(1.000)	355006	100.000	108	9301(M2)
	22 MTBE	73	4.718	4.718	(1.000)	564698	100.000	99.8	9203
	27 1,1-Dichloroethane ++	63	5.327	5.327	(1.000)	496542	100.000	102	
	29 Acrylonitrile	53	5.403	5.403	(1.000)	607320	500.000	518	
	30 Vinyl Acetate	43	5.642	5.642	(1.000)	469163	100.000	102	
M	61 Total 1,2-Dichloroethene	61				807045	200.000	203	
	31 cis-1,2-Dichloroethene	61	5.935	5.935	(1.000)	437371	100.000	101	
	32 2,2-Dichloropropane	77	6.055	6.055	(1.000)	333301	100.000	102	
	34 Cyclohexane	56	6.142	6.142	(1.000)	514834	100.000	108	9299
	33 Bromochloromethane	128	6.142	6.142	(1.000)	159198	100.000	102	
	35 Chloroform +	83	6.229	6.229	(1.000)	452756	100.000	99.6	
	36 Carbon Tetrachloride	117	6.359	6.359	(1.000)	276514	100.000	108	
$	39 Dibromofluoromethane	111	6.414	6.414	(1.000)	144903	50.0000	50.3	9139
	40 1,1,1-Trichloroethane	97	6.436	6.436	(1.000)	322167	100.000	108	
	42 2-Butanone	43	6.555	6.555	(1.000)	269587	100.000	101	
	43 1,1-Dichloropropene	75	6.566	6.566	(1.000)	416757	100.000	107	
	45 Benzene	78	6.805	6.805	(1.000)	1216651	100.000	103	
$	48 1,2-Dichloroethane-d4	67	6.947	6.947	(1.000)	79767	50.0000	49.7	
	49 1,2-Dichloroethane	62	7.012	7.012	(1.000)	360514	100.000	100	
*	52 FLUOROBENZENE	96	7.208	7.208	(1.000)	480612	50.0000		(M1)
	53 Methyl Cyclohexane	83	7.360	7.360	(1.000)	394995	100.000	109	9709
	54 Trichloroethene	130	7.371	7.371	(1.000)	289860	100.000	103	
	57 Dibromomethane	93	7.762	7.762	(1.000)	210785	100.000	101	
	59 1,2-Dichloropropane +	63	7.860	7.860	(1.000)	396395	100.000	105	
	60 Bromodichloromethane	83	7.915	7.915	(1.000)	376297	100.000	101	
	64 1-Bromo-2-chloroethane	63	8.349	8.349	(1.000)	579956	100.000	103	9541
	65 2-Chloroethyl vinyl ether	63	8.414	8.414	(1.167)	42683	100.000	93.5	(M3H)
	66 cis-1,3-Dichloropropene	75	8.480	8.480	(1.000)	537182	100.000	108	
M	6 1-3 Dichloropropene-Total	100				969929	200.000	217	0
$	67 Toluene-d8	98	8.643	8.643	(0.865)	490453	50.0000	49.3	
	69 Toluene +	91	8.687	8.687	(0.869)	1208482	100.000	100	
	71 4-methyl-2-pentanone	43	9.002	9.002	(1.000)	441106	100.000	108	
	72 Tetrachloroethene	164	9.024	9.024	(0.903)	184910	100.000	107	
	73 trans-1,3-Dichloropropene	75	9.045	9.045	(0.905)	432747	100.000	105	
	75 1,1,2-Trichloroethane	97	9.187	9.187	(0.919)	270767	100.000	99.9	
	76 Dibromochloromethane	129	9.350	9.350	(0.936)	310673	100.000	99.0	
	77 1,3-Dichloropropane	76	9.426	9.426	(0.943)	541448	100.000	99.8	
	79 1,2-Dibromoethane(EDB)	107	9.568	9.568	(0.958)	320543	100.000	103	
	80 2-Hexanone	43	9.720	9.720	(0.973)	343953	100.000	105	
	82 1-Chlorohexane	91	9.959	9.959	(0.997)	420202	100.000	113	9703
*	83 CHLOROBENZENE-d5	82	9.992	9.992	(1.000)	227493	50.0000		
	84 Chlorobenzene ++	112	10.003	10.003	(1.001)	772345	100.000	97.1	
	85 Ethylbenzene +	106	10.014	10.014	(1.002)	405894	100.000	104	
	86 1,1,1,2-Tetrachloroethane	133	10.057	10.057	(1.007)	241004	100.000	97.1	
	87 p,m-Xylene	106	10.134	10.134	(1.014)	967351	200.000	205	
	89 o-Xylene	106	10.503	10.503	(1.051)	496604	100.000	106	

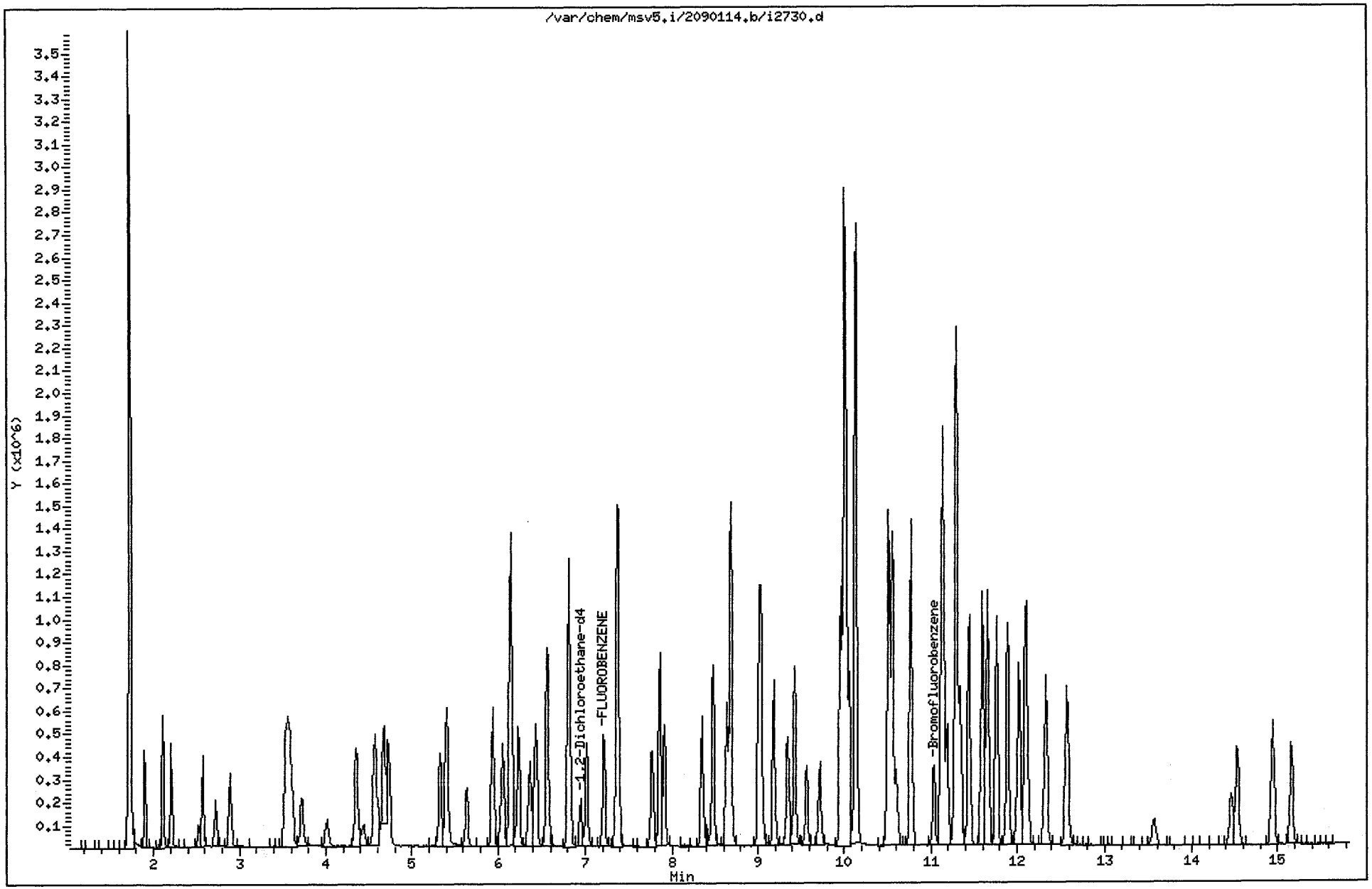
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
90 Styrene	104	10.547	10.547	(1.056)	848961	100.000	106	
91 Bromoform ++	173	10.601	10.601	(1.061)	191536	100.000	105	
93 Isopropylbenzene	105	10.765	10.765	(1.077)	1155200	100.000	106	
$ 94 Bromofluorobenzene	174	11.037	11.037	(1.105)	122427	50.0000	49.1	
95 n-Propylbenzene	91	11.124	11.124	(0.920)	1322298	100.000	106	
96 Bromobenzene	77	11.135	11.135	(0.921)	598869	100.000	102	
97 1,1,2,2-Tetrachloroethane++	83	11.189	11.189	(0.925)	391994	100.000	98.4	
98 2-Chlorotoluene	91	11.288	11.288	(0.933)	946847	100.000	103	
99 1,3,5-Trimethylbenzene	105	11.288	11.288	(0.933)	869380	100.000	105	
100 1,2,3-Trichloropropane	75	11.331	11.331	(0.937)	462081	100.000	103	
101 trans-1,4-Dichloro-2-Butene	53	11.342	11.342	(0.938)	101221	100.000	100	
103 4-Chlorotoluene	91	11.440	11.440	(0.946)	850091	100.000	103	
M 124 TOTAL XYLENE	106				1463955	300.000	311	
104 tert-butylbenzene	91	11.593	11.593	(0.959)	476725	100.000	112	
106 1,2,4-Trimethylbenzene	105	11.658	11.658	(0.964)	885872	100.000	104	
107 sec-Butylbenzene	105	11.756	11.756	(0.972)	1066506	100.000	106	
108 p-Isopropyltoluene	119	11.887	11.887	(0.983)	813446	100.000	110	
110 1,3-Dichlorobenzene	146	12.018	12.018	(0.994)	481752	100.000	102	
* 111 1,4-DICHLOROBENZENE-D4	152	12.094	12.094	(1.000)	162898	50.0000		
112 1,4-Dichlorobenzene	146	12.105	12.105	(1.001)	505028	100.000	98.1	
115 n-Butylbenzene	91	12.334	12.334	(1.020)	675112	100.000	101	
116 1,2-Dichlorobenzene	146	12.573	12.573	(1.040)	471046	100.000	104	
120 1,2-Dibromo-3-Chloropropane	157	13.572	13.572	(1.122)	58678	100.000	99.8	
122 Hexachlorobutadiene	225	14.462	14.462	(1.196)	67417	100.000	96.9	
123 1,2,4-Trichlorobenzene	180	14.528	14.528	(1.201)	229231	100.000	100	
125 Naphthalene	128	14.940	14.940	(1.235)	693112	100.000	100	
126 1,2,3-Trichlorobenzene	180	15.158	15.158	(1.253)	217426	100.000	105	

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.
M2- Compound response manually integrated because Target system integrated incorrectly.
M3- Compound response manually integrated because Target system integrated incorrect peak.
H - Operator selected an alternate compound hit.

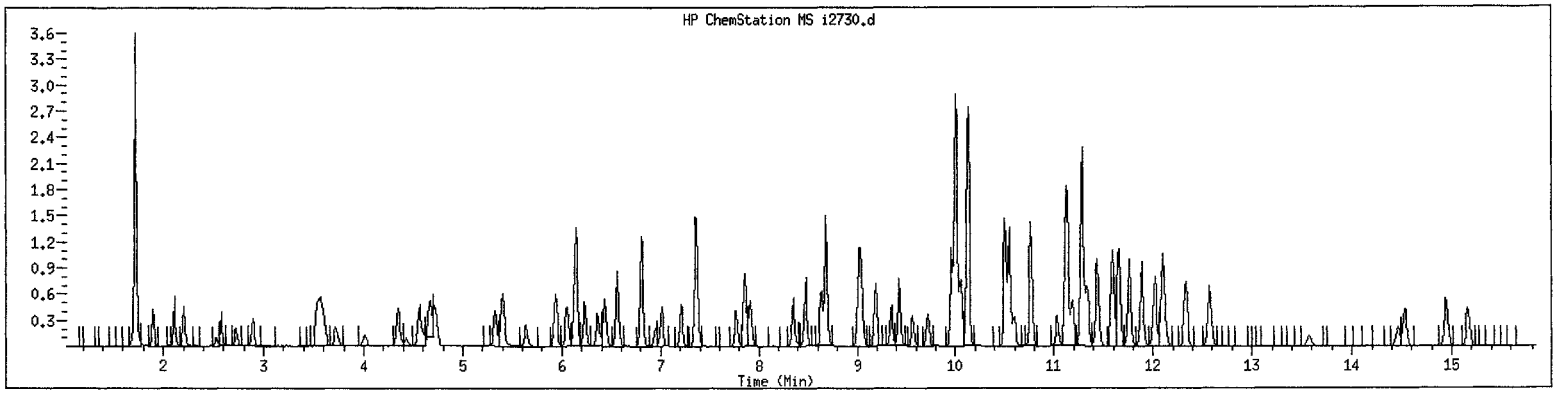
Data File: /var/chem/msv5.i/2090114.b/i2730.d
Date : 14-JAN-2009 11:34
Client ID: V5STD100
Sample Info: 1204*V5STD100
Purge Volume: 5.0
Column phase: RTX-VMS-30M

Instrument: msv5.i
Operator: JCK
Column diameter: 0.25



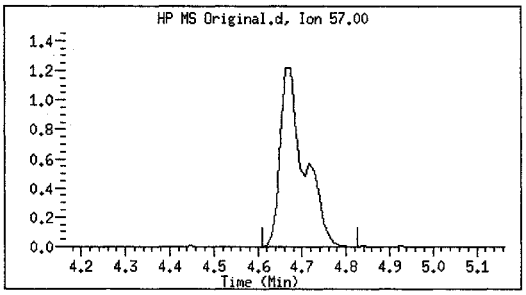
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 01/14/2009 11:34	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1204*V5STD100		
Misc Info	: MSV~15210~*1*WAS		
Method	: /var/chem/msv5.i/2090114.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



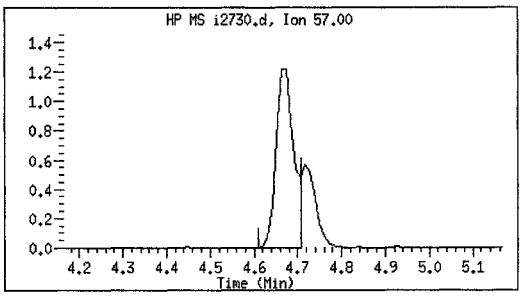
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2

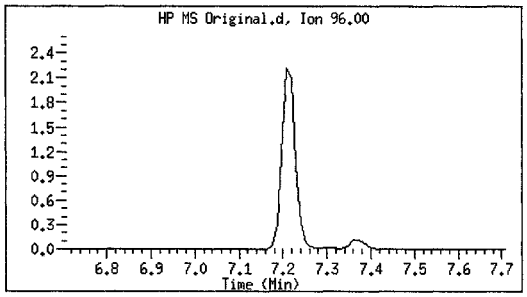


Electronic Signature Applied

User: jck
Date: 01/14/2009 12:13

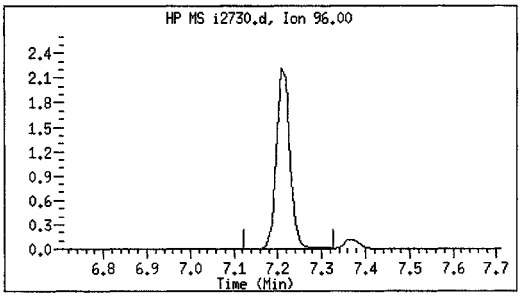


* 52 FLUOROBENZENE CAS#: 462-06-6 Reason: M1



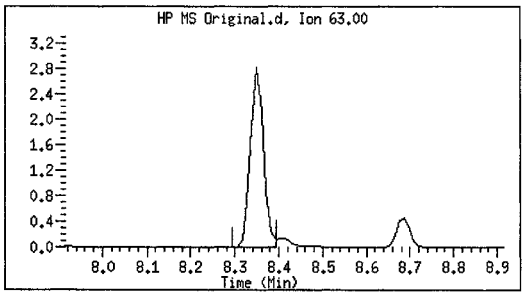
Electronic Signature Applied

User: jck
Date: 01/14/2009 12:13



Original Final

65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M3



Electronic Signature Applied

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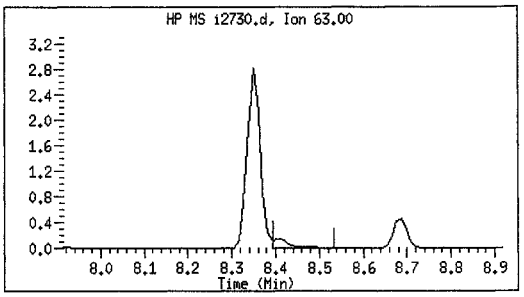
Date: 01/14/2009 12:17



M1 - Target system did not integrate
M2 - Target system integrated incorrectly
M3 - Target system integrated incorrect peak

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2731.d
Lab Smp Id: 1205 Client Smp ID: V5STD200
Inj Date : 14-JAN-2009 11:56
Operator : JCK Inst ID: msv5.i
Smp Info : 1205*V5STD200
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 12:31 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(1.000)	703915	200.000	213	(A)
2 Chloromethane ++	50	2.109	2.109	(1.000)	1095958	200.000	204	(A)
3 Vinyl Chloride +	62	2.207	2.207	(1.000)	880303	200.000	220	(A)
5 Bromomethane	94	2.577	2.577	(1.000)	484910	200.000	209	(A)
8 Chloroethane	64	2.718	2.718	(1.000)	408474	200.000	191	
9 Trichlorofluoromethane	101	2.892	2.892	(1.000)	584888	200.000	211	(A)
11 1,1-Dichloroethene +	96	3.533	3.533	(1.000)	427671	200.000	196	
12 Carbon Disulfide	76	3.566	3.566	(1.000)	1562047	200.000	200	
13 1,1,2Trichlotrifluoroethane	101	3.599	3.599	(1.000)	462992	200.000	201	(A)
14 Methyl Iodide	142	3.719	3.719	(1.000)	713773	200.000	199	
15 Acrolein	56	4.012	4.012	(1.000)	311900	1000.00	997	
17 Methylene Chloride	49	4.349	4.349	(1.000)	779587	200.000	184	
18 Acetone	43	4.436	4.436	(1.000)	314045	200.000	198	
19 trans-1,2-Dichloroethene	61	4.567	4.567	(1.000)	715618	200.000	192	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.610	4.610	(1.000)	505509	200.000	186	4791
	21 Hexane	57	4.665	4.665	(1.000)	711346	200.000	212	9329(AM2)
	22 MTBE	73	4.719	4.719	(1.000)	1136738	200.000	196	9088
	27 1,1-Dichloroethane ++	63	5.328	5.328	(1.000)	985487	200.000	198	
	29 Acrylonitrile	53	5.404	5.404	(1.000)	1164923	1000.00	970	
	30 Vinyl Acetate	43	5.632	5.632	(1.000)	954039	200.000	203	(A)
M	61 Total 1,2-Dichloroethene	61				1617044	400.000	396	
	31 cis-1,2-Dichloroethene	61	5.936	5.936	(1.000)	901426	200.000	204	(A)
	32 2,2-Dichloropropane	77	6.045	6.045	(1.000)	687011	200.000	205	(A)
	34 Cyclohexane	56	6.143	6.143	(1.000)	1052848	200.000	215	9043(A)
	33 Bromochloromethane	128	6.154	6.154	(1.000)	284656	200.000	178	
	35 Chloroform +	83	6.230	6.230	(1.000)	929480	200.000	200	(A)
	36 Carbon Tetrachloride	117	6.361	6.361	(1.000)	562147	200.000	214	(A)
$	39 Dibromofluoromethane	111	6.416	6.416	(1.000)	142743	50.0000	48.3	7521
	40 1,1,1-Trichloroethane	97	6.437	6.437	(1.000)	651823	200.000	214	(A)
	42 2-Butanone	43	6.557	6.557	(1.000)	531225	200.000	195	
	43 1,1-Dichloropropene	75	6.557	6.557	(1.000)	841928	200.000	211	(A)
	45 Benzene	78	6.807	6.807	(1.000)	2438094	200.000	201	(A)
$	48 1,2-Dichloroethane-d4	67	6.949	6.949	(1.000)	79556	50.0000	48.4	
	49 1,2-Dichloroethane	62	7.014	7.014	(1.000)	730116	200.000	198	
*	52 FLUOROBENZENE	96	7.210	7.210	(1.000)	492124	50.0000		(M1)
	53 Methyl Cyclohexane	83	7.362	7.362	(1.000)	811693	200.000	218	9701(A)
	54 Trichloroethene	130	7.373	7.373	(1.000)	587424	200.000	203	(A)
	57 Dibromomethane	93	7.764	7.764	(1.000)	422651	200.000	197	
	59 1,2-Dichloropropane +	63	7.862	7.862	(1.000)	789738	200.000	205	(A)
	60 Bromodichloromethane	83	7.917	7.917	(1.000)	765534	200.000	200	(A)
	64 1-Bromo-2-chloroethane	63	8.352	8.352	(1.000)	1163990	200.000	202	9606(A)
	65 2-Chloroethyl vinyl ether	63	8.417	8.417	(1.000)	100119	200.000	204	(AH)
	66 cis-1,3-Dichloropropene	75	8.472	8.472	(1.000)	1098636	200.000	217	(A)
M	6 1-3 Dichloropropene-Total	100				1990236	400.000	435	0(A)
$	67 Toluene-d8	98	8.635	8.635	(0.864)	495384	50.0000	50.4	
	69 Toluene +	91	8.690	8.690	(0.869)	2407313	200.000	201	(A)
	71 4-methyl-2-pentanone	43	9.005	9.005	(1.000)	896361	200.000	214	(A)
	72 Tetrachloroethene	164	9.027	9.027	(0.903)	388115	200.000	227	(A)
	73 trans-1,3-Dichloropropene	75	9.038	9.038	(0.904)	891600	200.000	218	(A)
	75 1,1,2-Trichloroethane	97	9.190	9.190	(0.919)	545499	200.000	203	(A)
	76 Dibromochloromethane	129	9.343	9.343	(0.935)	635129	200.000	205	(A)
	77 1,3-Dichloropropane	76	9.430	9.430	(0.943)	1077286	200.000	201	(A)
	79 1,2-Dibromoethane(EDB)	107	9.561	9.561	(0.956)	637096	200.000	207	(A)
	80 2-Hexanone	43	9.713	9.713	(0.972)	722923	200.000	222	(A)
	82 1-Chlorohexane	91	9.963	9.963	(0.997)	772823	200.000	210	9707(A)
*	83 CHLOROBENZENE-d5	82	9.996	9.996	(1.000)	225044	50.0000		
	84 Chlorobenzene ++	112	10.007	10.007	(1.001)	1537450	200.000	195	
	85 Ethylbenzene +	106	10.007	10.007	(1.001)	807857	200.000	208	(A)
	86 1,1,1,2-Tetrachloroethane	133	10.051	10.051	(1.005)	488138	200.000	199	
	87 p,m-Xylene	106	10.127	10.127	(1.013)	1965216	400.000	422	(A)
	89 o-Xylene	106	10.508	10.508	(1.051)	1018766	200.000	219	(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
90 Styrene	104	10.551	10.551	(1.056)	1768452	200.000	224	(A)
91 Bromoform ++	173	10.595	10.595	(1.060)	393294	200.000	218	(A)
93 Isopropylbenzene	105	10.769	10.769	(1.077)	2347775	200.000	218	(A)
$ 94 Bromofluorobenzene	174	11.030	11.030	(1.103)	125415	50.0000	50.8	
95 n-Propylbenzene	91	11.129	11.129	(0.921)	2679706	200.000	205	(A)
96 Bromobenzene	77	11.140	11.140	(0.921)	1198056	200.000	194	
97 1,1,2,2-Tetrachloroethane++	83	11.183	11.183	(0.925)	786174	200.000	188	
98 2-Chlorotoluene	91	11.293	11.293	(0.934)	1934774	200.000	201	(A)
99 1,3,5-Trimethylbenzene	105	11.282	11.282	(0.933)	1761953	200.000	202	(A)
100 1,2,3-Trichloropropane	75	11.336	11.336	(0.938)	969328	200.000	205	(A)
101 trans-1,4-Dichloro-2-Butene	53	11.347	11.347	(0.939)	212899	200.000	200	(A)
103 4-Chlorotoluene	91	11.434	11.434	(0.946)	1733007	200.000	199	
M 124 TOTAL XYLENE	106				2983982	600.000	641	
104 tert-butylbenzene	91	11.598	11.598	(0.959)	932602	200.000	208	(A)
106 1,2,4-Trimethylbenzene	105	11.652	11.652	(0.964)	1804570	200.000	203	(A)
107 sec-Butylbenzene	105	11.762	11.762	(0.973)	2196670	200.000	208	(A)
108 p-Isopropyltoluene	119	11.892	11.892	(0.984)	1672685	200.000	215	(A)
110 1,3-Dichlorobenzene	146	12.023	12.023	(0.995)	1009578	200.000	204	(A)
* 111 1,4-DICHLOROBENZENE-D4	152	12.089	12.089	(1.000)	171032	50.0000		
112 1,4-Dichlorobenzene	146	12.111	12.111	(1.002)	1026304	200.000	190	
115 n-Butylbenzene	91	12.328	12.328	(1.020)	1427314	200.000	200	(A)
116 1,2-Dichlorobenzene	146	12.579	12.579	(1.041)	963270	200.000	202	(A)
120 1,2-Dibromo-3-Chloropropane	157	13.567	13.567	(1.122)	125042	200.000	200	(A)
122 Hexachlorobutadiene	225	14.458	14.458	(1.196)	148857	200.000	202	(A)
123 1,2,4-Trichlorobenzene	180	14.535	14.535	(1.202)	485671	200.000	200	(A)
125 Naphthalene	128	14.948	14.948	(1.236)	1480110	200.000	201	(A)
126 1,2,3-Trichlorobenzene	180	15.165	15.165	(1.254)	458003	200.000	210	(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M1- Compound response manually integrated because Target system did not integrate.
M2- Compound response manually integrated because Target system integrated incorrectly.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2090114.b/i2731.d

Date : 14-JAN-2009 11:56

Client ID: V5STD200

Sample Info: 1205*V5STD200

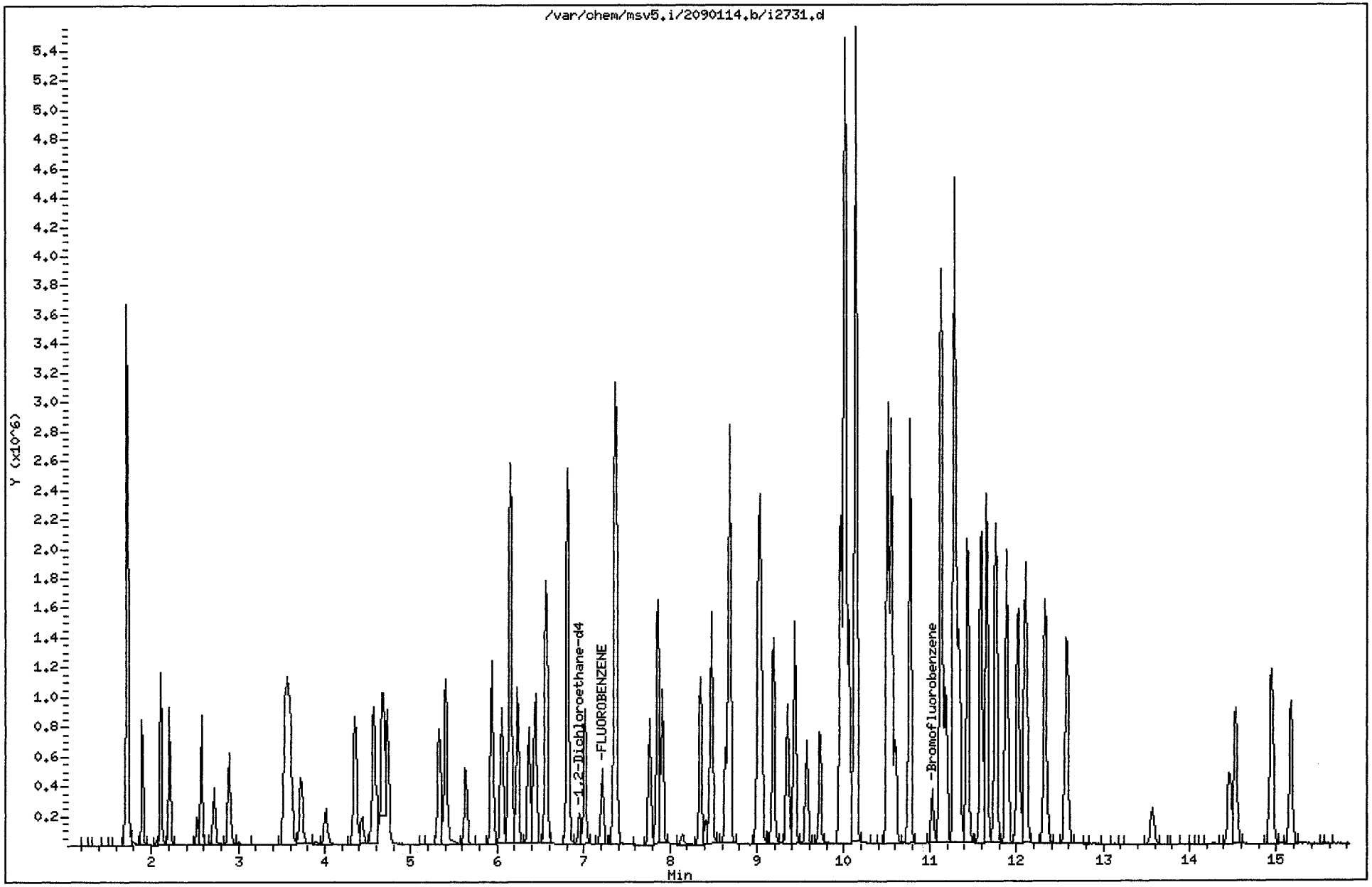
Purge Volume: 5.0

Column phase: RTX-VMS-30M

Instrument: msv5.i

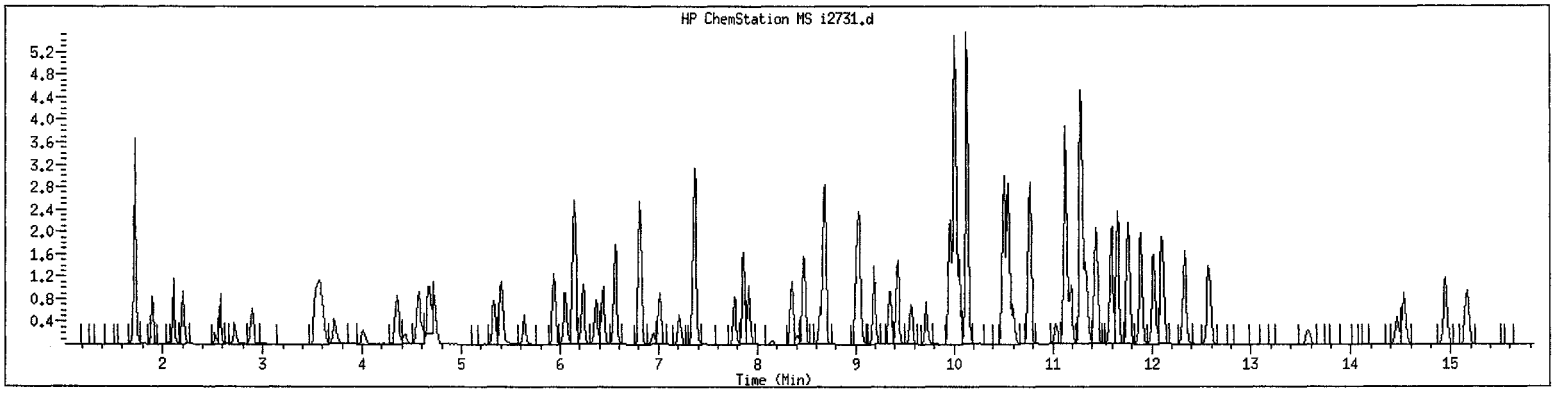
Operator: JCK

Column diameter: 0.25



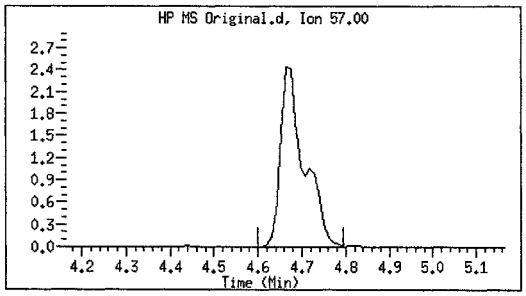
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 01/14/2009 11:56	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1205*V5STD200		
Misc Info	: MSV~15210~*1*WAS		
Method	: /var/chem/msv5.i/2090114.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



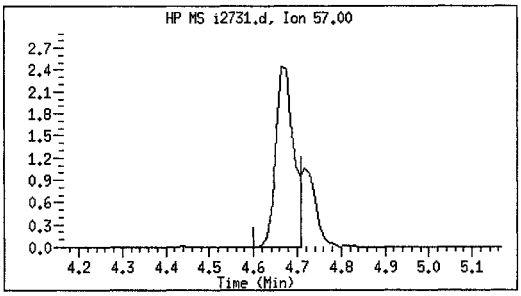
Original | Final

21 Hexane CAS#: 110-54-3 Reason: M2

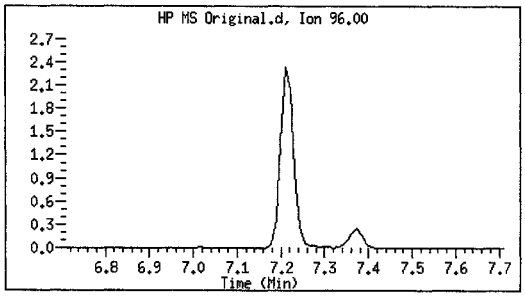


Electronic Signature Applied

User: jck
Date: 01/14/2009 12:15

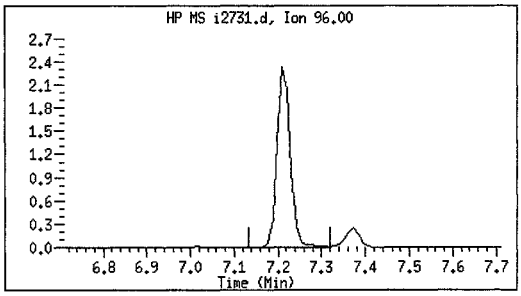


* 52 FLUOROBENZENE CAS#: 462-06-6 Reason: M1



Electronic Signature Applied

User: jck
Date: 01/14/2009 12:16



M1 - Target system did not integrate
M2 - Target system integrated incorrectly

Data File: /var/chem/msv5.i/2090114.b/i2733.d
Report Date: 14-Jan-2009 14:34

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv5.i/2090114.b/8260Bw5.m
Misc Info: MSV~15210~*1*WAS

Client SDG: 2090114
Fraction: VOA
Client Smp ID: V5ICV050
Operator: JCK
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
1	Dichlorodifluoromethane	50.0	57.0	114.04	60-140	
2	Chloromethane ++	50.0	52.4	104.90	70-130	
3	Vinyl Chloride +	50.0	58.7	117.36	70-130	
5	Bromomethane	50.0	51.8	103.65	60-140	
8	Chloroethane	50.0	54.0	107.90	70-130	
9	Trichlorofluoromethane	50.0	58.9	117.82	70-130	
11	1,1-Dichloroethene +	50.0	53.6	107.17	70-130	
12	Carbon Disulfide	50.0	56.7	113.47	70-130	
13	1,1,2Trichlotrifluoroethane	50.0	56.4	112.78	70-130	
14	Methyl Iodide	50.0	43.3	86.62	70-130	
15	Acrolein	250	270	107.95	60-140	
17	Methylene Chloride	50.0	54.1	108.29	70-130	
18	Acetone	50.0	52.6	105.24	60-140	
19	trans-1,2-Dichloroethene	50.0	56.1	112.27	70-130	
22	MTBE	50.0	56.2	112.30	70-130	
27	1,1-Dichloroethane ++	50.0	54.8	109.55	70-130	
29	Acrylonitrile	250	254	101.52	60-140	
30	Vinyl Acetate	50.0	56.4	112.89	60-140	
31	cis-1,2-Dichloroethene	50.0	56.6	113.25	70-130	
32	2,2-Dichloropropane	50.0	57.7	115.46	70-130	
34	Cyclohexane	50.0	65.1	130.23*	70-130	NT
33	Bromochloromethane	50.0	58.6	117.22	70-130	
35	Chloroform +	50.0	56.7	113.41	70-130	
36	Carbon Tetrachloride	50.0	60.1	120.19	70-130	
40	1,1,1-Trichloroethane	50.0	60.4	120.84	70-130	
43	1,1-Dichloropropene	50.0	55.8	111.62	70-130	
42	2-Butanone	50.0	50.9	101.76	60-140	
45	Benzene	50.0	53.9	107.89	70-130	
49	1,2-Dichloroethane	50.0	52.2	104.32	70-130	
53	Methyl Cyclohexane	50.0	63.4	126.87	70-130	
54	Trichloroethene	50.0	55.9	111.76	70-130	
57	Dibromomethane	50.0	56.7	113.49	70-130	
59	1,2-Dichloropropane +	50.0	54.2	108.39	70-130	

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
60 Bromodichloromethane	50.0	53.5	106.96	70-130
65 2-Chloroethyl vinyl ether	50.0	39.3	78.54	60-140
66 cis-1,3-Dichloropropene	50.0	53.9	107.86	70-130
69 Toluene +	50.0	52.3	104.61	70-130
72 Tetrachloroethene	50.0	61.5	123.01	70-130
71 4-methyl-2-pentanone	50.0	56.2	112.46	60-140
73 trans-1,3-Dichloropropene	50.0	57.4	114.90	70-130
75 1,1,2-Trichloroethane	50.0	54.2	108.34	70-130
76 Dibromochloromethane	50.0	51.3	102.52	70-130
77 1,3-Dichloropropane	50.0	52.8	105.59	70-130
79 1,2-Dibromoethane(EDB)	50.0	54.1	108.19	70-130
80 2-Hexanone	50.0	52.7	105.33	60-140
84 Chlorobenzene ++	50.0	51.2	102.35	70-130
85 Ethylbenzene +	50.0	52.8	105.56	70-130
86 1,1,1,2-Tetrachloroethane	50.0	50.5	100.94	70-130
87 p,m-Xylene	100	109	108.75	70-130
89 o-Xylene	50.0	52.7	105.38	70-130
90 Styrene	50.0	54.2	108.36	70-130
91 Bromoform ++	50.0	57.5	115.10	70-130
93 Isopropylbenzene	50.0	56.0	112.01	70-130
96 Bromobenzene	50.0	53.6	107.27	70-130
95 n-Propylbenzene	50.0	60.0	120.04	70-130
97 1,1,2,2-Tetrachloroethane++	50.0	53.3	106.55	70-130
98 2-Chlorotoluene	50.0	55.0	109.92	70-130
99 1,3,5-Trimethylbenzene	50.0	57.4	114.71	70-130
100 1,2,3-Trichloropropane	50.0	55.9	111.89	70-130
101 trans-1,4-Dichloro-2-Butene	50.0	51.0	101.92	70-130
103 4-Chlorotoluene	50.0	55.3	110.59	70-130
104 tert-butylbenzene	50.0	59.7	119.44	70-130
106 1,2,4-Trimethylbenzene	50.0	56.6	113.12	70-130
107 sec-Butylbenzene	50.0	59.6	119.11	70-130
108 p-Isopropyltoluene	50.0	63.9	127.88	70-130
110 1,3-Dichlorobenzene	50.0	57.5	115.03	70-130
112 1,4-Dichlorobenzene	50.0	53.9	107.82	70-130
115 n-Butylbenzene	50.0	59.4	118.76	70-130
116 1,2-Dichlorobenzene	50.0	56.8	113.60	70-130
120 1,2-Dibromo-3-Chloropropane	50.0	55.3	110.63	60-140
122 Hexachlorobutadiene	50.0	56.3	112.63	70-130
123 1,2,4-Trichlorobenzene	50.0	54.7	109.48	70-130
125 Naphthalene	50.0	51.6	103.29	70-130
126 1,2,3-Trichlorobenzene	50.0	57.8	115.70	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 39 Dibromofluoromethane	50.0	50.4	100.86	77-127

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 48 1,2-Dichloroethane-d4	50.0	49.4	98.89	71-127
$ 67 Toluene-d8	50.0	49.3	98.58	76-134
$ 94 Bromofluorobenzene	50.0	49.1	98.14	78-130

GCAL, Inc.

Data file : /var/chem/msv5.i/2090114.b/i2733.d
Lab Smp Id: 1600 Client Smp ID: V5ICV050
Inj Date : 14-JAN-2009 12:59
Operator : JCK Inst ID: msv5.i
Smp Info : 1600*V5ICV050
Misc Info : MSV~15210~*1*WAS
Comment :
Method : /var/chem/msv5.i/2090114.b/8260Bw5.m
Meth Date : 14-Jan-2009 13:55 was Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.893	1.892	(0.262)	193467	57.0179	57.0	
2 Chloromethane ++	50	2.110	2.109	(0.292)	289029	52.4476	52.4	
3 Vinyl Chloride +	62	2.207	2.207	(0.306)	241113	58.6778	58.7	
5 Bromomethane	94	2.577	2.577	(0.357)	123320	51.8236	51.8	
8 Chloroethane	64	2.729	2.718	(0.378)	118686	53.9525	54.0	
9 Trichlorofluoromethane	101	2.903	2.892	(0.402)	167303	58.9080	58.9	
11 1,1-Dichloroethene +	96	3.533	3.533	(0.489)	120190	53.5835	53.6	
12 Carbon Disulfide	76	3.566	3.566	(0.494)	454850	56.7358	56.7	
13 1,1,2Trichlotrifluoroethane	101	3.598	3.599	(0.499)	133113	56.3880	56.4	
14 Methyl Iodide	142	3.729	3.719	(0.517)	150811	43.3118	43.3	
15 Acrolein	56	4.022	4.012	(0.557)	86653	269.864	270	
17 Methylene Chloride	49	4.348	4.349	(0.602)	235180	54.1432	54.1	
18 Acetone	43	4.435	4.436	(0.614)	89930	52.6222	52.6	
19 trans-1,2-Dichloroethene	61	4.566	4.567	(0.633)	214194	56.1338	56.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 Methyl Acetate	43	4.609	4.610	(0.639)	156349	56.1365	56.1	5094
	21 Hexane	57	4.675	4.665	(0.648)	198321	57.5881	57.6	9306(M2)
	22 MTBE	73	4.729	4.719	(0.655)	333817	56.1514	56.2	8926
	27 1,1-Dichloroethane ++	63	5.327	5.328	(0.738)	280266	54.7771	54.8	
	29 Acrylonitrile	53	5.403	5.404	(0.749)	312914	253.804	254	
	30 Vinyl Acetate	43	5.642	5.632	(0.782)	272052	56.4430	56.4	
M	61 Total 1,2-Dichloroethene	61				471548	112.758	113	
	31 cis-1,2-Dichloroethene	61	5.935	5.936	(0.822)	257354	56.6246	56.6	
	32 2,2-Dichloropropane	77	6.055	6.045	(0.839)	198375	57.7307	57.7	
	34 Cyclohexane	56	6.142	6.143	(0.851)	326788	65.1152	65.1	8963(R)
	33 Bromochloromethane	128	6.153	6.154	(0.852)	96198	58.6110	58.6	
	35 Chloroform +	83	6.229	6.230	(0.863)	271862	56.7034	56.7	
	36 Carbon Tetrachloride	117	6.370	6.361	(0.883)	162217	60.0951	60.1	
$	39 Dibromofluoromethane	111	6.425	6.416	(0.890)	152803	50.4292	50.4	9163
	40 1,1,1-Trichloroethane	97	6.435	6.437	(0.892)	188537	60.4206	60.4	
	42 2-Butanone	43	6.555	6.557	(0.908)	142534	50.8784	50.9	
	43 1,1-Dichloropropene	75	6.566	6.557	(0.910)	228828	55.8122	55.8	
	45 Benzene	78	6.816	6.807	(0.944)	671340	53.9456	53.9	
$	48 1,2-Dichloroethane-d4	67	6.946	6.949	(0.962)	83333	49.4441	49.4	
	49 1,2-Dichloroethane	62	7.012	7.014	(0.971)	196889	52.1579	52.2	
*	52 FLUOROBENZENE	96	7.218	7.210	(1.000)	505049	50.0000		
	53 Methyl Cyclohexane	83	7.359	7.362	(1.020)	242096	63.4341	63.4	9221
	54 Trichloroethene	130	7.370	7.373	(1.021)	166016	55.8775	55.9	
	57 Dibromomethane	93	7.772	7.764	(1.077)	124990	56.7442	56.7	
	59 1,2-Dichloropropane +	63	7.859	7.862	(1.089)	214669	54.1938	54.2	
	60 Bromodichloromethane	83	7.914	7.917	(1.096)	209733	53.4791	53.5	
	64 1-Bromo-2-chloroethane	63	8.348	8.352	(1.157)	314342	53.0583	53.1	9483
	65 2-Chloroethyl vinyl ether	63	8.414	8.417	(1.166)	16504	39.2712	39.3	(M2)
	66 cis-1,3-Dichloropropene	75	8.479	8.472	(1.175)	280711	53.9306	53.9	
M	6 1-3 Dichloropropene-Total	100				528154	112.577	113	0
$	67 Toluene-d8	98	8.642	8.635	(0.865)	510779	49.2890	49.3	
	69 Toluene +	91	8.686	8.690	(0.869)	659171	52.3059	52.3	
	71 4-methyl-2-pentanone	43	9.011	9.005	(1.248)	241569	56.2314	56.2	
	72 Tetrachloroethene	164	9.022	9.027	(0.903)	110971	61.5074	61.5	
	73 trans-1,3-Dichloropropene	75	9.044	9.038	(0.905)	247443	57.4488	57.4	
	75 1,1,2-Trichloroethane	97	9.186	9.190	(0.919)	153092	54.1702	54.2	
	76 Dibromochloromethane	129	9.349	9.343	(0.936)	167624	51.2578	51.3	
	77 1,3-Dichloropropane	76	9.425	9.430	(0.943)	298589	52.7958	52.8	
	79 1,2-Dibromoethane(EDB)	107	9.566	9.561	(0.958)	175706	54.0930	54.1	
	80 2-Hexanone	43	9.718	9.713	(0.973)	180700	52.6669	52.7	
	82 1-Chlorohexane	91	9.957	9.963	(0.997)	215192	55.5307	55.5	9637
*	83 CHLOROBENZENE-d5	82	9.990	9.996	(1.000)	237186	50.0000		
	84 Chlorobenzene ++	112	10.012	10.007	(1.002)	424238	51.1772	51.2	
	85 Ethylbenzene +	106	10.012	10.007	(1.002)	215684	52.7782	52.8	
	86 1,1,1,2-Tetrachloroethane	133	10.056	10.051	(1.007)	130625	50.4678	50.5	
	87 p,m-Xylene	106	10.132	10.127	(1.014)	533857	108.749	109	
	89 o-Xylene	106	10.512	10.508	(1.052)	258372	52.6894	52.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
90 Styrene	104	10.556	10.551	(1.057)	451247	54.1789	54.2	
91 Bromoform ++	173	10.600	10.595	(1.061)	109540	57.5478	57.5	
93 Isopropylbenzene	105	10.774	10.769	(1.078)	634715	56.0051	56.0	
$ 94 Bromofluorobenzene	174	11.034	11.030	(1.105)	127608	49.0683	49.1	
95 n-Propylbenzene	91	11.133	11.129	(0.921)	761701	60.0214	60.0	
96 Bromobenzene	77	11.143	11.140	(0.922)	321828	53.6348	53.6	
97 1,1,2,2-Tetrachloroethane++	83	11.187	11.183	(0.925)	216642	53.2734	53.3	
98 2-Chlorotoluene	91	11.296	11.293	(0.934)	513927	54.9584	55.0	
99 1,3,5-Trimethylbenzene	105	11.285	11.282	(0.933)	487021	57.3569	57.4	
100 1,2,3-Trichloropropane	75	11.340	11.336	(0.938)	256678	55.9474	55.9	
101 trans-1,4-Dichloro-2-Butene	53	11.351	11.347	(0.939)	51839	50.9611	51.0	
103 4-Chlorotoluene	91	11.438	11.434	(0.946)	468003	55.2955	55.3	
M 124 TOTAL XYLENE	106				792229	161.439	161	
104 tert-butylbenzene	91	11.601	11.598	(0.959)	259764	59.7222	59.7	
106 1,2,4-Trimethylbenzene	105	11.656	11.652	(0.964)	489731	56.5611	56.6	
107 sec-Butylbenzene	105	11.765	11.762	(0.973)	610152	59.5553	59.6	
108 p-Isopropyltoluene	119	11.895	11.892	(0.984)	483575	63.9395	63.9	
110 1,3-Dichlorobenzene	146	12.026	12.023	(0.995)	276877	57.5144	57.5	
* 111 1,4-DICHLOROBENZENE-D4	152	12.091	12.089	(1.000)	166285	50.0000		
112 1,4-Dichlorobenzene	146	12.113	12.111	(1.002)	283318	53.9098	53.9	
115 n-Butylbenzene	91	12.341	12.328	(1.021)	399519	59.3801	59.4	
116 1,2-Dichlorobenzene	146	12.570	12.579	(1.040)	263205	56.7982	56.8	
120 1,2-Dibromo-3-Chloropropane	157	13.568	13.567	(1.122)	32613	55.3131	55.3	
122 Hexachlorobutadiene	225	14.469	14.458	(1.197)	39516	56.3150	56.3	
123 1,2,4-Trichlorobenzene	180	14.546	14.535	(1.203)	125191	54.7389	54.7	
125 Naphthalene	128	14.948	14.948	(1.236)	354410	51.6447	51.6	
126 1,2,3-Trichlorobenzene	180	15.176	15.165	(1.255)	122824	57.8476	57.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M2- Compound response manually integrated because
Target system integrated incorrectly.

Data File: /var/chem/msv5.i/2090114.b/i2733.d

Date : 14-JAN-2009 12:59

Client ID: V5ICV050

Instrument: msv5.i

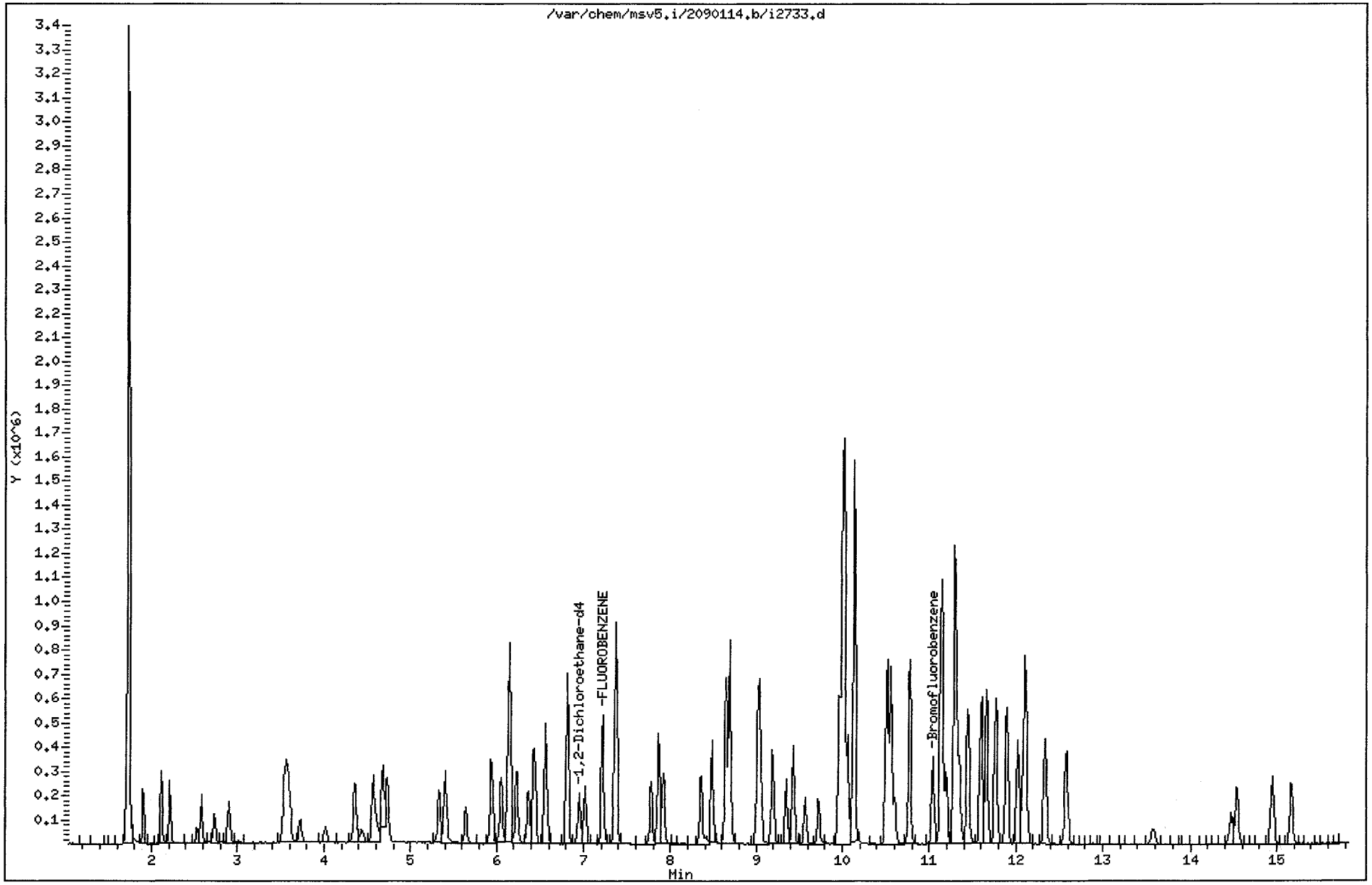
Sample Info: 1600*V5ICV050

Purge Volume: 5.0

Operator: JCK

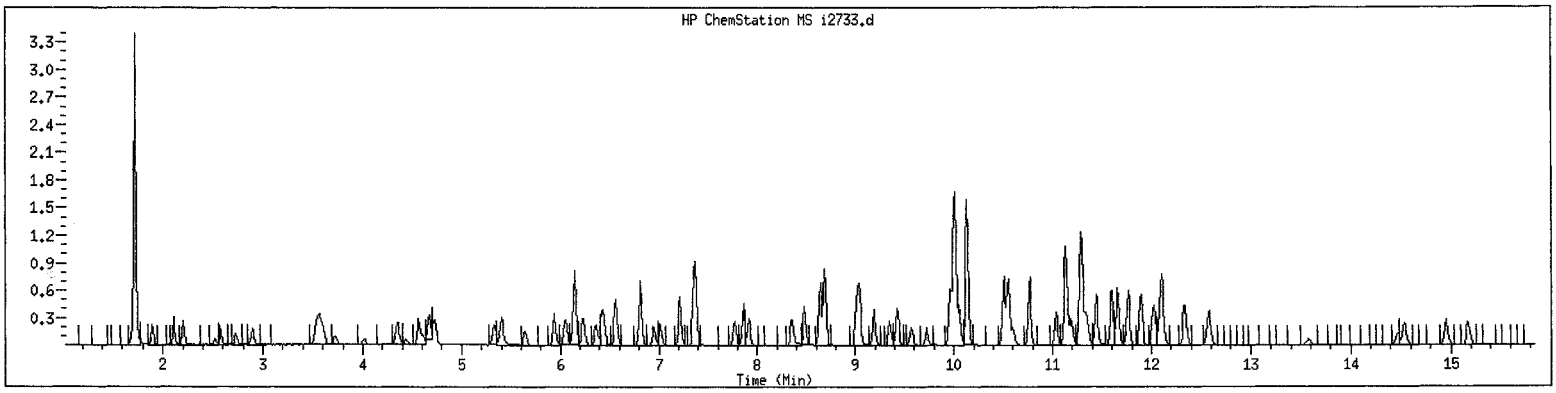
Column phase: RTX-VMS-30M

Column diameter: 0.25



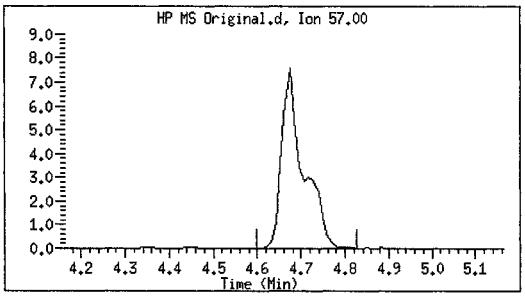
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 01/14/2009 12:59	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1600*V5ICV050		
Misc Info	: MSV~15210~*1*WAS		
Method	: /var/chem/msv5.i/2090114.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



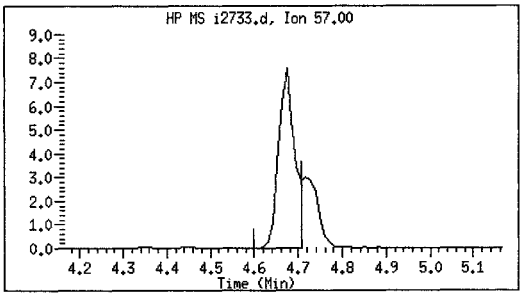
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2

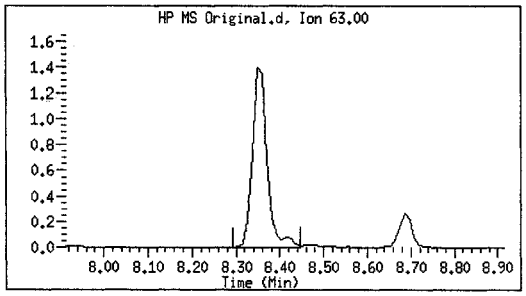


Electronic Signature Applied

User: jck
Date: 01/14/2009 13:12

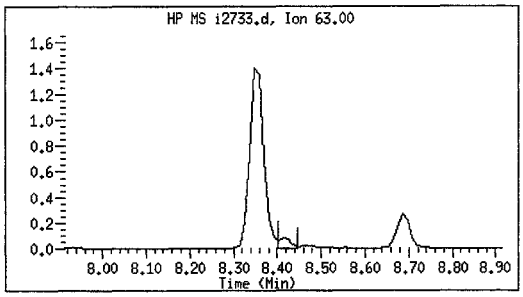


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M2



Electronic Signature Applied

User: jck
Date: 01/14/2009 13:12



M2 - Target system integrated incorrectly

Data File: /var/chem/msv5.i/2090115p.b/i2779.d
Report Date: 15-Jan-2009 20:04

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i
Lab File ID: i2779.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv5.i/2090115p.b/8260Bw5.m

Injection Date: 15-JAN-2009 17:43
Init. Cal. Date(s): 14-JAN-2009 14-JAN-2009
Init. Cal. Times: 09:40 11:56
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.33592	0.33677	0.33677	0.050	0.25319	40.00000	Averaged
2 Chloromethane ++	0.54557	0.46870	0.46870	0.050	-14.08955	30.00000	Averaged
3 Vinyl Chloride +	0.40680	0.39333	0.39333	0.050	-3.31232	20.00000	Averaged
5 Bromomethane	0.23558	0.17129	0.17129	0.050	-27.28891	40.00000	Averaged
8 Chloroethane	0.21778	0.19598	0.19598	0.050	-10.01196	40.00000	Averaged
9 Trichlorofluoromethane	0.28117	0.27939	0.27939	0.050	-0.63148	30.00000	Averaged
11 1,1-Dichloroethene +	0.22206	0.20817	0.20817	0.050	-6.25621	20.00000	Averaged
12 Carbon Disulfide	47.35341	50.00000	0.75136	0.050	-5.29318	30.00000	Linear
13 1,1,2Trichlotrifluoroethane	0.23371	0.22958	0.22958	0.050	-1.76443	30.00000	Averaged
14 Methyl Iodide	38.31025	50.00000	0.26169	0.050	-23.37950	30.00000	Linear
15 Acrolein	0.03179	0.01938	0.01938	0.010	-39.04898	40.00000	Averaged
17 Methylene Chloride	0.43002	0.36717	0.36717	0.050	-14.61538	30.00000	Averaged
18 Acetone	46.51837	50.00000	0.15873	0.050	-6.96327	40.00000	Linear
19 trans-1,2-Dichloroethene	0.37776	0.35692	0.35692	0.050	-5.51768	30.00000	Averaged
20 Methyl Acetate	0.27573	0.24999	0.24999	0.050	-9.33641	30.00000	Averaged
21 Hexane	0.34094	0.34903	0.34903	0.050	2.37268	30.00000	Averaged
22 MTBE	0.58855	0.57448	0.57448	0.050	-2.39023	30.00000	Averaged
27 1,1-Dichloroethane ++	0.50653	0.46268	0.46268	0.050	-8.65836	30.00000	Averaged
29 Acrylonitrile	0.12206	0.10052	0.10052	0.050	-17.64374	40.00000	Averaged
30 Vinyl Acetate	0.47718	0.39071	0.39071	0.050	-18.12043	40.00000	Averaged
M 61 Total 1,2-Dichloroethene	0.41386	0.39332	0.39332	0.050	-4.96173	30.00000	Averaged
31 cis-1,2-Dichloroethene	0.44995	0.42972	0.42972	0.050	-4.49497	30.00000	Averaged
32 2,2-Dichloropropane	0.34019	0.33404	0.33404	0.050	-1.80584	30.00000	Averaged
34 Cyclohexane	0.49684	0.52439	0.52439	0.050	5.54482	30.00000	Averaged
33 Bromochloromethane	0.16249	0.16263	0.16263	0.050	0.08994	30.00000	Averaged
35 Chloroform +	47.25785	50.00000	0.44938	0.050	-5.48430	20.00000	Linear
36 Carbon Tetrachloride	0.26724	0.27200	0.27200	0.050	1.78379	30.00000	Averaged
$ 39 Dibromofluoromethane	0.29998	0.30029	0.30029	0.050	0.10417	30.00000	Averaged
40 1,1,1-Trichloroethane	0.30892	0.30605	0.30605	0.050	-0.92911	30.00000	Averaged
42 2-Butanone	0.27735	0.26796	0.26796	0.050	-3.38284	40.00000	Averaged
43 1,1-Dichloropropene	0.40590	0.40791	0.40791	0.050	0.49601	30.00000	Averaged
45 Benzene	1.23203	1.19640	1.19640	0.050	-2.89271	30.00000	Averaged
$ 48 1,2-Dichloroethane-d4	0.16686	0.16421	0.16421	0.050	-1.58630	30.00000	Averaged
49 1,2-Dichloroethane	0.37371	0.35339	0.35339	0.050	-5.43845	30.00000	Averaged
53 Methyl Cyclohexane	0.37783	0.42349	0.42349	0.050	12.08354	30.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i
Lab File ID: i2779.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv5.i/2090115p.b/8260Bw5.m

Injection Date: 15-JAN-2009 17:43
Init. Cal. Date(s): 14-JAN-2009 14-JAN-2009
Init. Cal. Times: 09:40 11:56
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
54 Trichloroethene	0.29414	0.29438	0.29438	0.050	0.08271	30.00000	Averaged	
57 Dibromomethane	0.21807	0.21279	0.21279	0.050	-2.41990	30.00000	Averaged	
59 1,2-Dichloropropane +	0.39215	0.37977	0.37977	0.050	-3.15748	20.00000	Averaged	
60 Bromodichloromethane	0.38826	0.37272	0.37272	0.050	-4.00146	30.00000	Averaged	
64 1-Bromo-2-chloroethane	0.58652	0.56121	0.56121	0.050	-4.31644	30.00000	Averaged	
65 2-Chloroethyl vinyl ether	41.49900	50.00000	0.03498	0.050	-17.00201	30.00000	Linear	<-
66 cis-1,3-Dichloropropene	0.51530	0.53562	0.53562	0.050	3.94344	30.00000	Averaged	
M 6 1-3 Dichloropropene-Total	0.46446	0.48145	0.48145	0.050	3.65871	30.00000	Averaged	
$ 67 Toluene-d8	2.18456	2.18336	2.18336	0.050	-0.05475	30.00000	Averaged	
69 Toluene +	2.65661	2.66975	2.66975	0.050	0.49435	20.00000	Averaged	
71 4-methyl-2-pentanone	0.42530	0.42906	0.42906	0.050	0.88260	40.00000	Averaged	
72 Tetrachloroethene	0.38033	0.41844	0.41844	0.050	10.01941	30.00000	Averaged	
73 trans-1,3-Dichloropropene	0.90798	0.94269	0.94269	0.050	3.82305	30.00000	Averaged	
75 1,1,2-Trichloroethane	0.59576	0.60650	0.60650	0.050	1.80151	30.00000	Averaged	
76 Dibromochloromethane	0.68938	0.70989	0.70989	0.050	2.97550	30.00000	Averaged	
77 1,3-Dichloropropane	1.19222	1.18654	1.18654	0.050	-0.47635	30.00000	Averaged	
79 1,2-Dibromoethane(EDB)	0.68474	0.67573	0.67573	0.050	-1.31560	30.00000	Averaged	
80 2-Hexanone	0.72327	0.77495	0.77495	0.050	7.14507	40.00000	Averaged	
82 1-Chlorohexane	0.81691	0.93384	0.93384	0.050	14.31346	30.00000	Averaged	
84 Chlorobenzene ++	1.74749	1.75939	1.75939	0.050	0.68079	30.00000	Averaged	
85 Ethylbenzene +	0.86148	0.88744	0.88744	0.050	3.01401	20.00000	Averaged	
86 1,1,1,2-Tetrachloroethane	0.54562	0.53620	0.53620	0.050	-1.72776	30.00000	Averaged	
87 p,m-Xylene	1.03486	1.09508	1.09508	0.050	5.81971	30.00000	Averaged	
89 o-Xylene	1.03372	1.08760	1.08760	0.050	5.21190	30.00000	Averaged	
90 Styrene	1.75576	1.88032	1.88032	0.050	7.09428	30.00000	Averaged	
91 Bromoform ++	0.40126	0.43717	0.43717	0.050	8.95025	30.00000	Averaged	
93 Isopropylbenzene	2.38909	2.58767	2.58767	0.050	8.31203	30.00000	Averaged	
$ 94 Bromofluorobenzene	0.54822	0.56413	0.56413	0.050	2.90095	30.00000	Averaged	
95 n-Propylbenzene	3.81588	3.90724	3.90724	0.050	2.39425	30.00000	Averaged	
96 Bromobenzene	1.80424	1.74090	1.74090	0.050	-3.51041	30.00000	Averaged	
97 1,1,2,2-Tetrachloroethane++	1.22278	1.17650	1.17650	0.050	-3.78489	30.00000	Averaged	
98 2-Chlorotoluene	2.81180	2.80668	2.80668	0.050	-0.18218	30.00000	Averaged	
99 1,3,5-Trimethylbenzene	2.55317	2.63204	2.63204	0.050	3.08914	30.00000	Averaged	
100 1,2,3-Trichloropropane	1.37951	1.31725	1.31725	0.050	-4.51328	30.00000	Averaged	
101 trans-1,4-Dichloro-2-Butene	46.04454	50.00000	0.28099	0.050	-7.91092	40.00000	Linear	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv5.i
Lab File ID: i2779.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv5.i/2090115p.b/8260Bw5.m

Injection Date: 15-JAN-2009 17:43
Init. Cal. Date(s): 14-JAN-2009 14-JAN-2009
Init. Cal. Times: 09:40 11:56
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
103 4-Chlorotoluene	2.54493	2.47387	2.47387	0.050	-2.79214	30.00000	Averaged
M 124 TOTAL XYLENE	1.03448	1.09259	1.09259	0.050	5.61726	30.00000	Averaged
104 tert-butylbenzene	1.30786	1.37936	1.37936	0.050	5.46700	30.00000	Averaged
106 1,2,4-Trimethylbenzene	2.60349	2.68962	2.68962	0.050	3.30826	30.00000	Averaged
107 sec-Butylbenzene	3.08059	3.33384	3.33384	0.050	8.22068	30.00000	Averaged
108 p-Isopropyltoluene	2.27411	2.52069	2.52069	0.050	10.84300	30.00000	Averaged
110 1,3-Dichlorobenzene	1.44753	1.49764	1.49764	0.050	3.46149	30.00000	Averaged
112 1,4-Dichlorobenzene	1.58024	1.54904	1.54904	0.050	-1.97467	30.00000	Averaged
115 n-Butylbenzene	52.94489	50.00000	2.13150	0.050	5.88977	30.00000	Linear
116 1,2-Dichlorobenzene	1.39340	1.44509	1.44509	0.050	3.70912	30.00000	Averaged
120 1,2-Dibromo-3-Chloropropane	46.67899	50.00000	0.16430	0.050	-6.64203	40.00000	Linear
122 Hexachlorobutadiene	56.94725	50.00000	0.24039	0.050	13.89449	30.00000	Linear
123 1,2,4-Trichlorobenzene	53.39864	50.00000	0.73367	0.050	6.79729	30.00000	Linear
125 Naphthalene	48.56998	50.00000	1.99678	0.050	-2.86004	30.00000	Linear
126 1,2,3-Trichlorobenzene	0.63843	0.68526	0.68526	0.050	7.33536	30.00000	Averaged

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2778.d
Lab Smp Id: 1000 Client Smp ID: V5BFB
Inj Date : 15-JAN-2009 17:06
Operator : JCK Inst ID: msv5.i
Smp Info : 1000*V5BFB
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/bfb1.m
Meth Date : 06-Jan-2009 15:18 rjo Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
VI	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
11.022	11.060	(0.000)	95	72349			100.00- 100.00	100.00
11.022	11.060	(0.000)	50	13879			15.00- 40.00	19.18
11.022	11.060	(0.000)	75	30616			30.00- 60.00	42.32
11.022	11.060	(0.000)	96	4777			5.00- 9.00	6.60
11.022	11.060	(0.000)	173	0			0.00- 2.00	0.00
11.022	11.060	(0.000)	174	54584			50.00- 120.00	75.45
11.022	11.060	(0.000)	175	3773			5.00- 9.00	6.91
11.022	11.060	(0.000)	176	52253			95.00- 101.00	95.73
11.022	11.060	(0.000)	177	3361			5.00- 9.00	6.43

Data File: /var/chem/msv5.i/2090115p.b/i2778.d

Date : 15-JAN-2009 17:06

Client ID: V5BFB

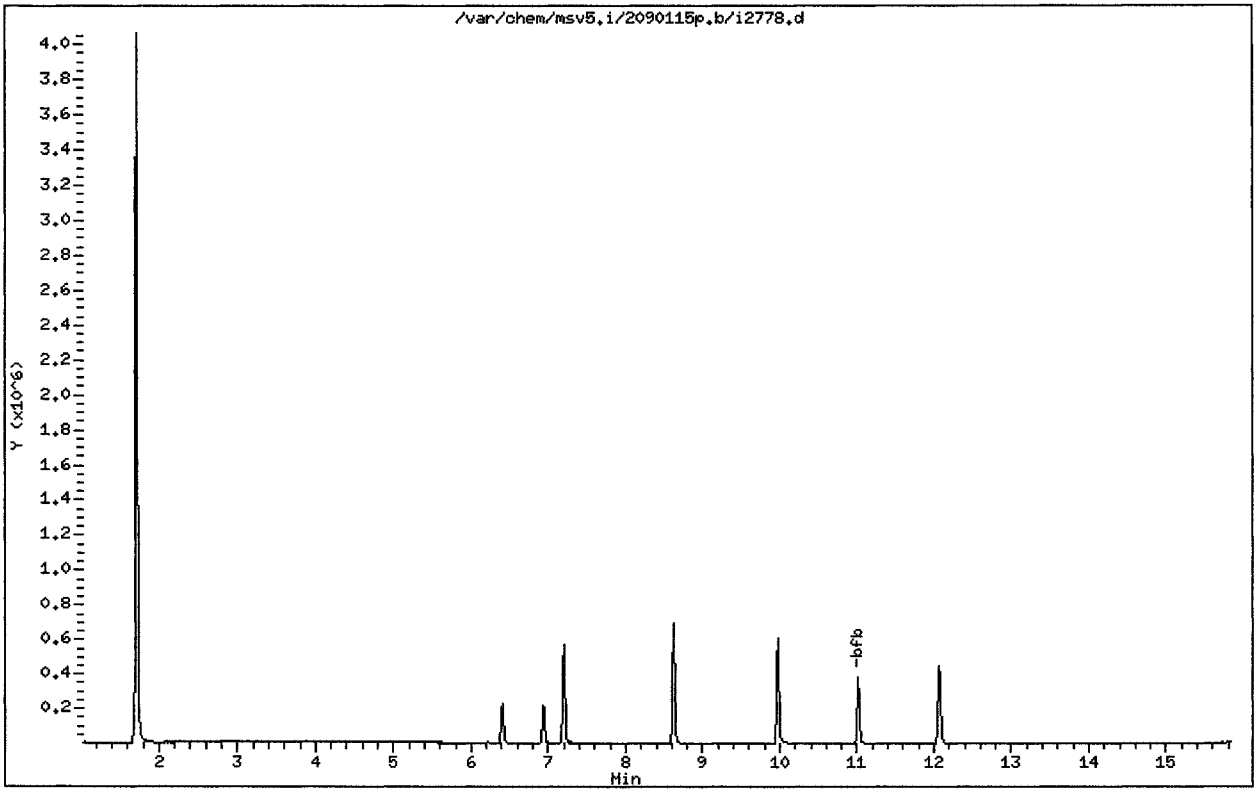
Instrument: msv5.i

Sample Info: 1000xV5BFB

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25



Data File: /var/chem/msv5.i/2090115p.b/i2778.d

Date : 15-JAN-2009 17:06

Client ID: V5BFB

Instrument: msv5.i

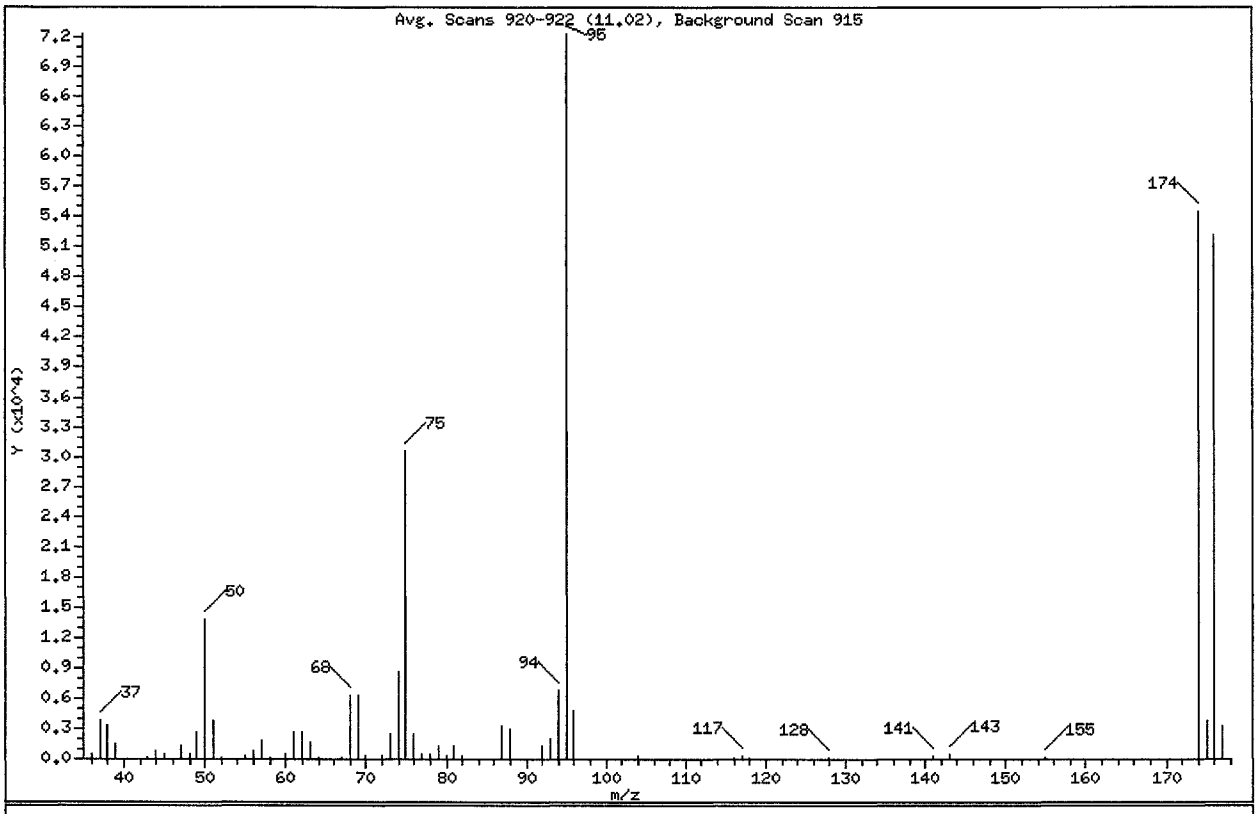
Sample Info: 1000*V5BFB

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.18
75	30.00 - 60.00% of mass 95	42.32
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	75.45
175	5.00 - 9.00% of mass 174	5.21 (6.91)
176	95.00 - 101.00% of mass 174	72.22 (95.73)
177	5.00 - 9.00% of mass 176	4.65 (6.43)

Data File: /var/chem/msv5.i/2090115p.b/i2778.d

Date : 15-JAN-2009 17:06

Client ID: V5BFB

Instrument: msv5.i

Sample Info: 1000xV5BFB

Operator: JCK

Column phase: RTX-VMS-30M

Column diameter: 0.25

Data File: i2778.d
Spectrum: Avg. Scans 920-922 (11.02), Background Scan 915
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	545	60.00	552	79.00	1255	118.00	191
37.00	3777	61.00	2731	80.00	393	128.00	135
38.00	3256	62.00	2594	81.00	1264	130.00	73
39.00	1427	63.00	1647	82.00	339	135.00	54
43.00	144	64.00	202	87.00	3292	141.00	315
44.00	773	65.00	61	88.00	3034	143.00	463
45.00	565	67.00	134	91.00	70	146.00	63
47.00	1308	68.00	6389	92.00	1351	155.00	111
48.00	433	69.00	6286	93.00	2059	157.00	54
49.00	2738	70.00	366	94.00	6767	174.00	54584
50.00	13879	72.00	262	95.00	72344	175.00	3773
51.00	3806	73.00	2413	96.00	4777	176.00	52248
52.00	160	74.00	8716	97.00	70	177.00	3361
55.00	266	75.00	30616	104.00	299		
56.00	861	76.00	2466	106.00	77		
57.00	1890	77.00	518	116.00	134		
58.00	106	78.00	468	117.00	312		

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2779.d
Lab Smp Id: 1400 Client Smp ID: V5STD050
Inj Date : 15-JAN-2009 17:43
Operator : JCK Inst ID: msv5.i
Smp Info : 1400*V5STD050
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.263)	180453	50.0000	50.1	
2 Chloromethane ++	50	2.098	2.098	(0.292)	251149	50.0000	43.0	
3 Vinyl Chloride +	62	2.196	2.196	(0.305)	210760	50.0000	48.3	
5 Bromomethane	94	2.566	2.566	(0.357)	91786	50.0000	36.4	
8 Chloroethane	64	2.718	2.718	(0.378)	105013	50.0000	45.0	
9 Trichlorofluoromethane	101	2.881	2.881	(0.400)	149709	50.0000	49.7	
11 1,1-Dichloroethene +	96	3.522	3.522	(0.489)	111545	50.0000	46.9	
12 Carbon Disulfide	76	3.554	3.554	(0.494)	402608	50.0000	47.4	
13 1,1,2Trichlotrifluoroethane	101	3.576	3.576	(0.497)	123019	50.0000	49.1	
14 Methyl Iodide	142	3.707	3.707	(0.515)	140226	50.0000	38.3	
15 Acrolein	56	4.000	4.000	(0.556)	51911	250.000	152	
17 Methylene Chloride	49	4.337	4.337	(0.603)	196746	50.0000	42.7	
18 Acetone	43	4.424	4.424	(0.615)	85056	50.0000	46.5	
19 trans-1,2-Dichloroethene	61	4.554	4.554	(0.633)	191251	50.0000	47.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.587	4.587	(0.637)	133953	50.0000	45.3	5890
	21 Hexane	57	4.652	4.652	(0.647)	187021	50.0000	51.2	9263(M2)
	22 MTBE	73	4.707	4.707	(0.654)	307830	50.0000	48.8	9101
	27 1,1-Dichloroethane ++	63	5.315	5.315	(0.739)	247919	50.0000	45.7	
	29 Acrylonitrile	53	5.391	5.391	(0.749)	269317	250.000	206	
	30 Vinyl Acetate	43	5.619	5.619	(0.781)	209357	50.0000	40.9	
M	61 Total 1,2-Dichloroethene	61				421513	100.000	95.0	
	31 cis-1,2-Dichloroethene	61	5.923	5.923	(0.823)	230262	50.0000	47.8	
	32 2,2-Dichloropropane	77	6.032	6.032	(0.838)	178993	50.0000	49.1	
	34 Cyclohexane	56	6.130	6.130	(0.852)	280990	50.0000	52.8	9445
	33 Bromochloromethane	128	6.130	6.130	(0.852)	87146	50.0000	50.0	
	35 Chloroform +	83	6.217	6.217	(0.864)	240794	50.0000	47.3	
	36 Carbon Tetrachloride	117	6.348	6.348	(0.882)	145749	50.0000	50.9	
$	39 Dibromofluoromethane	111	6.402	6.402	(0.890)	160906	50.0000	50.1	8927
	40 1,1,1-Trichloroethane	97	6.424	6.424	(0.893)	163994	50.0000	49.5	
	42 2-Butanone	43	6.544	6.544	(0.909)	143585	50.0000	48.3	
	43 1,1-Dichloropropene	75	6.544	6.544	(0.909)	218574	50.0000	50.2	
	45 Benzene	78	6.794	6.794	(0.944)	641074	50.0000	48.6	
$	48 1,2-Dichloroethane-d4	67	6.935	6.935	(0.964)	87989	50.0000	49.2	
	49 1,2-Dichloroethane	62	7.000	7.000	(0.973)	189359	50.0000	47.3	
*	52 FLUOROBENZENE	96	7.196	7.196	(1.000)	535838	50.0000		
	53 Methyl Cyclohexane	83	7.348	7.348	(1.021)	226922	50.0000	56.0	9746
	54 Trichloroethene	130	7.359	7.359	(1.023)	157740	50.0000	50.0	
	57 Dibromomethane	93	7.750	7.750	(1.077)	114021	50.0000	48.8	
	59 1,2-Dichloropropane +	63	7.848	7.848	(1.091)	203496	50.0000	48.4	
	60 Bromodichloromethane	83	7.902	7.902	(1.098)	199718	50.0000	48.0	
	64 1-Bromo-2-chloroethane	63	8.337	8.337	(1.159)	300716	50.0000	47.8	9688
	65 2-Chloroethyl vinyl ether	63	8.402	8.402	(1.168)	18745	50.0000	41.5	(M3)
	66 cis-1,3-Dichloropropene	75	8.467	8.467	(1.177)	287006	50.0000	52.0	
M	6 1-3 Dichloropropene-Total	100				515961	100.000	104	0
$	67 Toluene-d8	98	8.630	8.630	(0.865)	530282	50.0000	50.0	
	69 Toluene +	91	8.674	8.674	(0.869)	648412	50.0000	50.2	
	71 4-methyl-2-pentanone	43	8.989	8.989	(1.249)	229905	50.0000	50.4	
	72 Tetrachloroethene	164	9.011	9.011	(0.903)	101628	50.0000	55.0	
	73 trans-1,3-Dichloropropene	75	9.033	9.033	(0.905)	228955	50.0000	51.9	
	75 1,1,2-Trichloroethane	97	9.174	9.174	(0.919)	147302	50.0000	50.9	
	76 Dibromochloromethane	129	9.337	9.337	(0.936)	172414	50.0000	51.5	
	77 1,3-Dichloropropane	76	9.413	9.413	(0.943)	288179	50.0000	49.8	
	79 1,2-Dibromoethane(EDB)	107	9.555	9.555	(0.958)	164118	50.0000	49.3	
	80 2-Hexanone	43	9.707	9.707	(0.973)	188215	50.0000	53.6	
	82 1-Chlorohexane	91	9.946	9.946	(0.997)	226805	50.0000	57.2	9689
*	83 CHLOROBENZENE-d5	82	9.979	9.979	(1.000)	242874	50.0000		
	84 Chlorobenzene ++	112	9.989	9.989	(1.001)	427309	50.0000	50.3	
	85 Ethylbenzene +	106	10.000	10.000	(1.002)	215537	50.0000	51.5	
	86 1,1,1,2-Tetrachloroethane	133	10.044	10.044	(1.007)	130228	50.0000	49.1	
	87 p,m-Xylene	106	10.120	10.120	(1.014)	531934	100.000	106	
	89 o-Xylene	106	10.490	10.490	(1.051)	264149	50.0000	52.6	

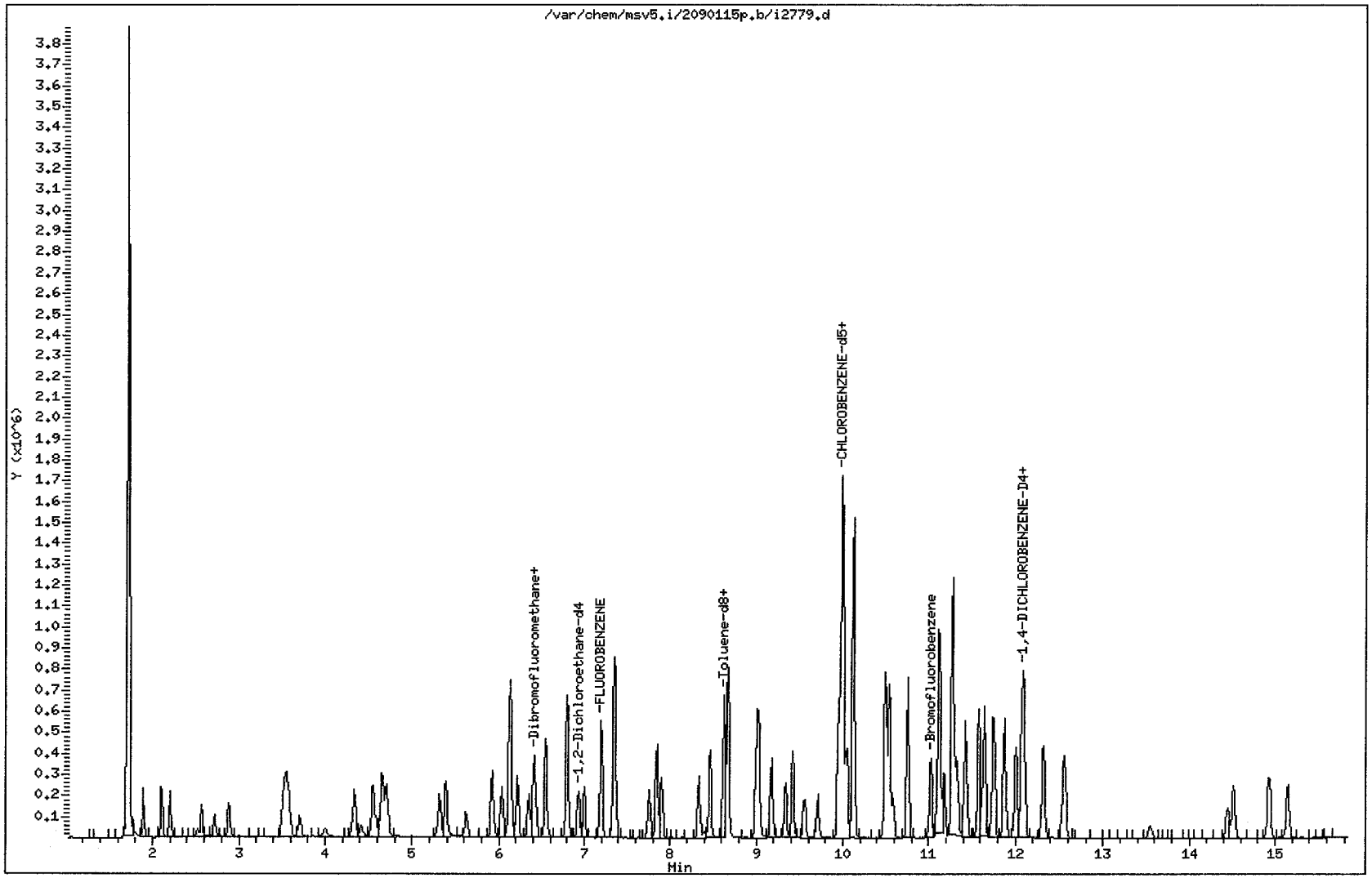
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	90 Styrene	104	10.533	10.533	(1.056)	456680	50.0000	53.5	
	91 Bromoform ++	173	10.588	10.588	(1.061)	106178	50.0000	54.5	
	93 Isopropylbenzene	105	10.751	10.751	(1.077)	628478	50.0000	54.2	
$	94 Bromofluorobenzene	174	11.023	11.023	(1.105)	137012	50.0000	51.5	
	95 n-Propylbenzene	91	11.110	11.110	(0.920)	723817	50.0000	51.2	
	96 Bromobenzene	77	11.121	11.121	(0.921)	322502	50.0000	48.2	
	97 1,1,2,2-Tetrachloroethane++	83	11.175	11.175	(0.925)	217947	50.0000	48.1	
	98 2-Chlorotoluene	91	11.274	11.274	(0.933)	519937	50.0000	49.9	
	99 1,3,5-Trimethylbenzene	105	11.274	11.274	(0.933)	487585	50.0000	51.5	
	100 1,2,3-Trichloropropane	75	11.317	11.317	(0.937)	244021	50.0000	47.7	
	101 trans-1,4-Dichloro-2-Butene	53	11.328	11.328	(0.938)	52054	50.0000	46.0	
	103 4-Chlorotoluene	91	11.426	11.426	(0.946)	458285	50.0000	48.6	
M	124 TOTAL XYLENE	106				796083	150.000	158	
	104 tert-butylbenzene	91	11.579	11.579	(0.959)	255526	50.0000	52.7	
	106 1,2,4-Trimethylbenzene	105	11.644	11.644	(0.964)	498253	50.0000	51.7	
	107 sec-Butylbenzene	105	11.753	11.753	(0.973)	617594	50.0000	54.1	
	108 p-Isopropyltoluene	119	11.873	11.873	(0.983)	466958	50.0000	55.4	
	110 1,3-Dichlorobenzene	146	12.003	12.003	(0.994)	277437	50.0000	51.7	
*	111 1,4-DICHLOROBENZENE-D4	152	12.080	12.080	(1.000)	185250	50.0000		
	112 1,4-Dichlorobenzene	146	12.091	12.091	(1.001)	286959	50.0000	49.0	
	115 n-Butylbenzene	91	12.319	12.319	(1.020)	394860	50.0000	52.9	
	116 1,2-Dichlorobenzene	146	12.558	12.558	(1.040)	267702	50.0000	51.9	
	120 1,2-Dibromo-3-Chloropropane	157	13.557	13.557	(1.122)	30437	50.0000	46.7	
	122 Hexachlorobutadiene	225	14.447	14.447	(1.196)	44532	50.0000	56.9	
	123 1,2,4-Trichlorobenzene	180	14.523	14.523	(1.202)	135913	50.0000	53.4	
	125 Naphthalene	128	14.936	14.936	(1.236)	369904	50.0000	48.6	
	126 1,2,3-Trichlorobenzene	180	15.153	15.153	(1.254)	126945	50.0000	53.7	

QC Flag Legend

M2- Compound response manually integrated because Target system integrated incorrectly.
M3- Compound response manually integrated because Target system integrated incorrect peak.

Data File: /var/chem/msv5.i/2090115p.b/i2779.d
Date : 15-JAN-2009 17:43
Client ID: V5STD050
Sample Info: 1400*V5STD050
Purge Volume: 5.0
Column phase: RTX-VMS-30M

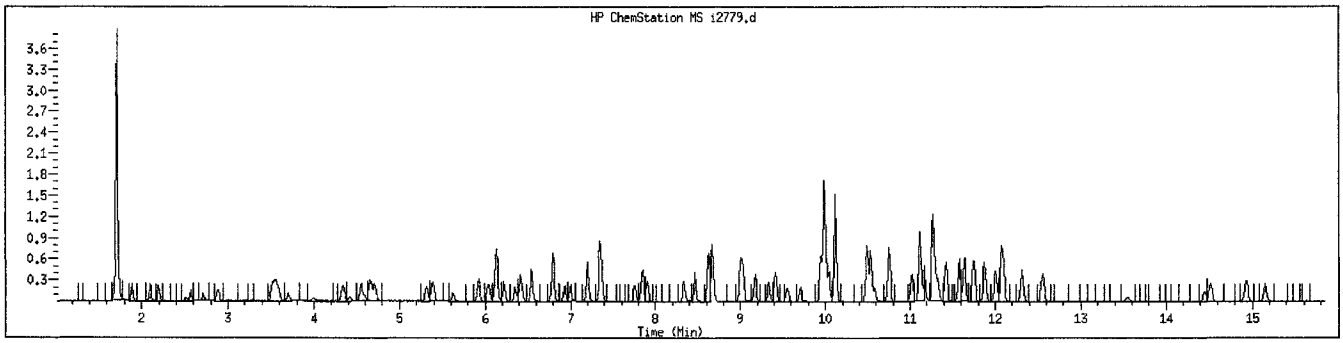
Instrument: msv5.i
Operator: JCK
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2779.d Page: 1
Report Date: 01/15/2009 20:04

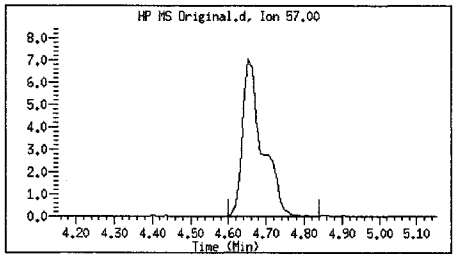
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 01/15/2009 17:43 Instrument : msv5.i
Operator : JCK
Sample Info : 1400*V5STD050
Misc Info : MSV~15220~*1*JCK
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



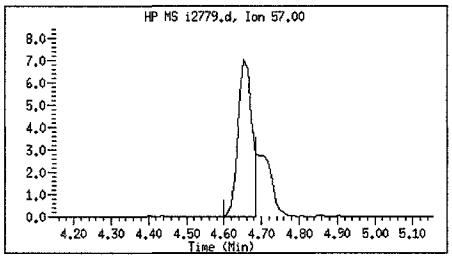
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2

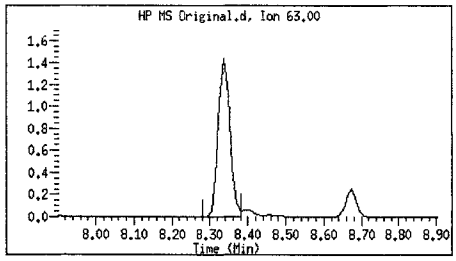


Electronic Signature Applied

User: jck
Date: 01/15/2009 17:43

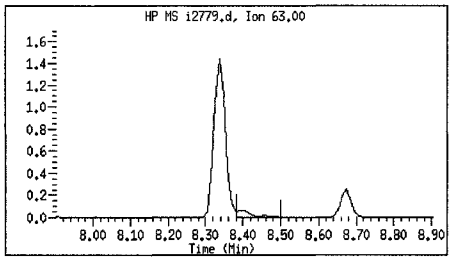


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M3



Electronic Signature Applied

User: jck
Date: 01/15/2009 17:43



M2 - Target system integrated incorrectly
M3 - Target system integrated incorrect peak

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB686234

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 686234

Level: (low/med) LOW Lab File ID: 2090115p/i2782

% Moisture: not dec. Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 1852

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-23-5	Carbon tetrachloride	5.00	U	0.156	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.090	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.162	5.00
75-09-2	Methylene chloride	10.0	U	0.096	10.0
127-18-4	Tetrachloroethene	5.00	U	0.153	5.00
71-55-6	1,1,1-Trichloroethane	5.00	U	0.096	5.00
96-18-4	1,2,3-Trichloropropane	5.00	U	0.091	5.00
75-01-4	Vinyl chloride	5.00	U	0.155	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.201	5.00
71-43-2	Benzene	5.00	U	0.065	5.00
79-01-6	Trichloroethene	5.00	U	0.118	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2782.d
Lab Smp Id: 686234 Client Smp ID: MB
Inj Date : 15-JAN-2009 18:52
Operator : JCK Inst ID: msv5.i
Smp Info : 686234*MB
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
$ 39 Dibromofluoromethane	111	6.409	6.402	(0.890)	149392	46.7275	46.7	6193
$ 48 1,2-Dichloroethane-d4	67	6.930	6.935	(0.962)	87224	49.0488	49.0	
* 52 FLUOROBENZENE	96	7.201	7.196	(1.000)	532891	50.0000		
$ 67 Toluene-d8	98	8.623	8.630	(0.864)	514676	49.6500	49.7	
* 83 CHLOROBENZENE-d5	82	9.979	9.979	(1.000)	237258	50.0000		
$ 94 Bromofluorobenzene	174	11.021	11.023	(1.104)	130222	50.0582	50.1	
* 111 1,4-DICHLOROBENZENE-D4	152	12.074	12.080	(1.000)	169690	50.0000		

Data File: /var/chem/msv5.i/2090115p.b/i2782.d

Date : 15-JAN-2009 18:52

Client ID: MB

Instrument: msv5.i

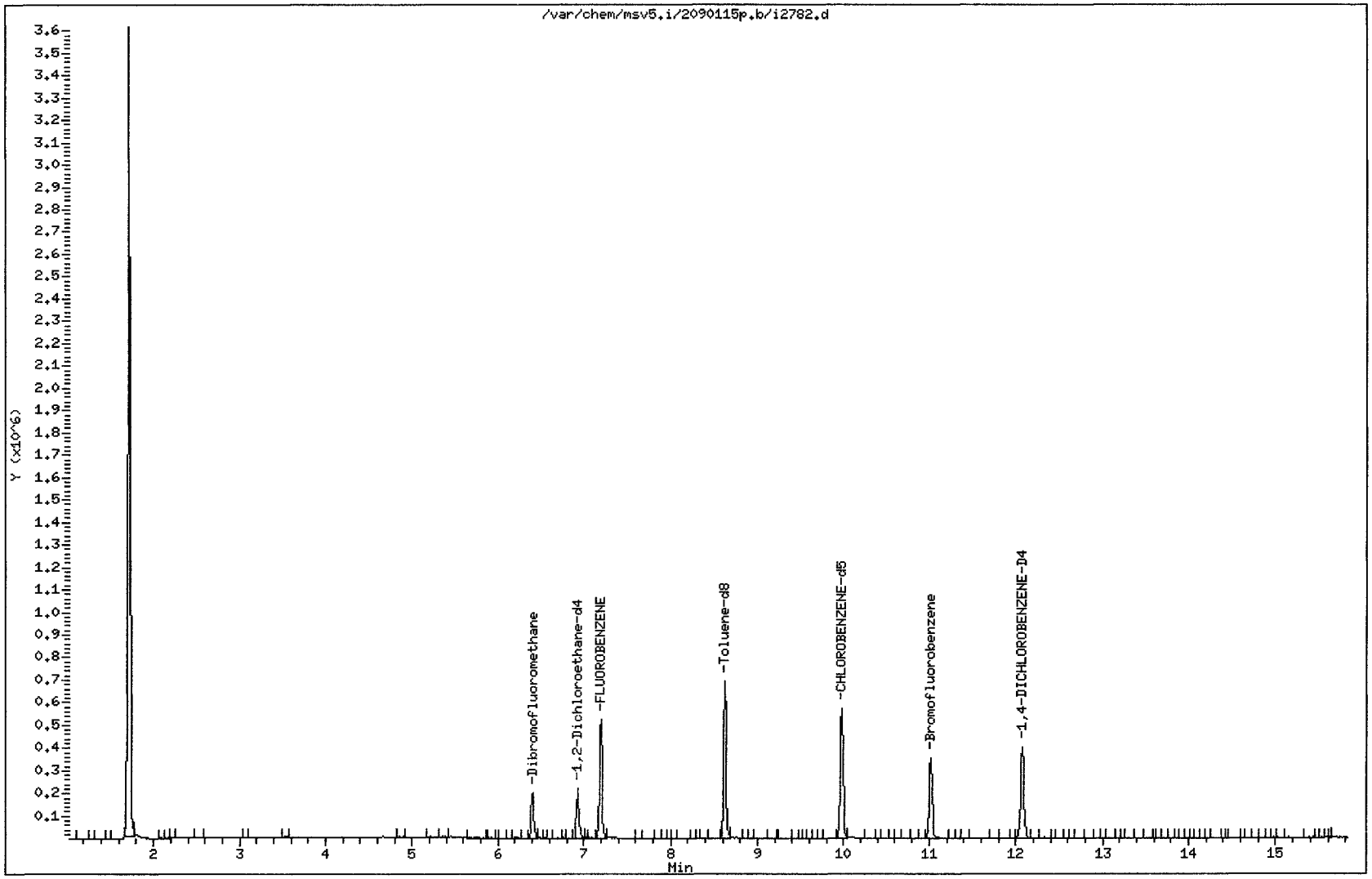
Sample Info: 686234*MB

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

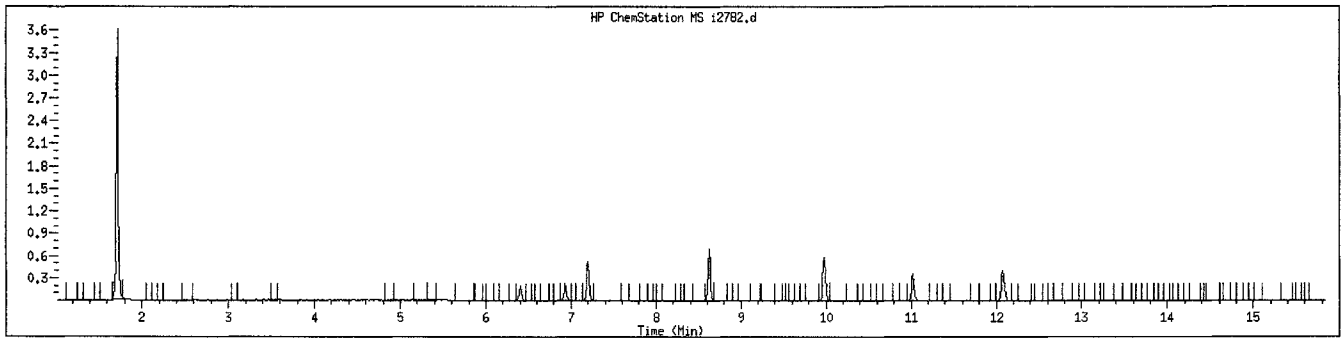
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2782.d Page: 1
Report Date: 01/15/2009 20:06

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 686234	SampleType	: BLANK
Injection Date	: 01/15/2009 18:52	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 686234*MB		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS686235

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 686235

Level: (low/med) LOW Lab File ID: 2090115p/i2779L

% Moisture: not dec. Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 1743

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-23-5	Carbon tetrachloride	50.9		0.156	5.00
107-06-2	1,2-Dichloroethane	47.3		0.090	5.00
156-59-2	cis-1,2-Dichloroethene	47.8		0.162	5.00
75-09-2	Methylene chloride	42.7		0.096	10.0
127-18-4	Tetrachloroethene	55.0		0.153	5.00
71-55-6	1,1,1-Trichloroethane	49.5		0.096	5.00
96-18-4	1,2,3-Trichloropropane	47.7		0.091	5.00
75-01-4	Vinyl chloride	48.3		0.155	5.00
75-35-4	1,1-Dichloroethene	46.9		0.201	5.00
71-43-2	Benzene	48.6		0.065	5.00
79-01-6	Trichloroethene	50.0		0.118	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2779L.d
Lab Smp Id: 686235 Client Smp ID: LCS
Inj Date : 15-JAN-2009 17:43
Operator : JCK Inst ID: msv5.i
Smp Info : 686235*LCS
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.263)	180453	50.1266	50.1	
2 Chloromethane ++	50	2.098	2.098	(0.292)	251149	42.9552	43.0	
3 Vinyl Chloride +	62	2.196	2.196	(0.305)	210760	48.3438	48.3	
5 Bromomethane	94	2.566	2.566	(0.357)	91786	36.3555	36.4	
8 Chloroethane	64	2.718	2.718	(0.378)	105013	44.9940	45.0	
9 Trichlorofluoromethane	101	2.881	2.881	(0.400)	149709	49.6843	49.7	
11 1,1-Dichloroethene +	96	3.522	3.522	(0.489)	111545	46.8719	46.9	
12 Carbon Disulfide	76	3.554	3.554	(0.494)	402608	47.3534	47.4	
13 1,1,2Trichlotrifluoroethane	101	3.576	3.576	(0.497)	123019	49.1178	49.1	
14 Methyl Iodide	142	3.707	3.707	(0.515)	140226	38.3102	38.3	
15 Acrolein	56	4.000	4.000	(0.556)	51911	152.378	152	
17 Methylene Chloride	49	4.337	4.337	(0.603)	196746	42.6923	42.7	
18 Acetone	43	4.424	4.424	(0.615)	85056	46.5184	46.5	
19 trans-1,2-Dichloroethene	61	4.554	4.554	(0.633)	191251	47.2412	47.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 Methyl Acetate	43	4.587	4.587	(0.637)	133953	45.3318	45.3	5890
	21 Hexane	57	4.652	4.652	(0.647)	187021	51.1863	51.2	9263(M2)
	22 MTBE	73	4.707	4.707	(0.654)	307830	48.8049	48.8	9101
	27 1,1-Dichloroethane ++	63	5.315	5.315	(0.739)	247919	45.6708	45.7	
	29 Acrylonitrile	53	5.391	5.391	(0.749)	269317	205.891	206	
	30 Vinyl Acetate	43	5.619	5.619	(0.781)	209357	40.9398	40.9	
M	61 Total 1,2-Dichloroethene	61				421513	94.9937	95.0	
	31 cis-1,2-Dichloroethene	61	5.923	5.923	(0.823)	230262	47.7525	47.8	
	32 2,2-Dichloropropane	77	6.032	6.032	(0.838)	178993	49.0971	49.1	
	34 Cyclohexane	56	6.130	6.130	(0.852)	280990	52.7724	52.8	9445
	33 Bromochloromethane	128	6.130	6.130	(0.852)	87146	50.0450	50.0	
	35 Chloroform +	83	6.217	6.217	(0.864)	240794	47.2578	47.3	
	36 Carbon Tetrachloride	117	6.348	6.348	(0.882)	145749	50.8919	50.9	
$	39 Dibromofluoromethane	111	6.402	6.402	(0.890)	160906	50.0521	50.1	8927
	40 1,1,1-Trichloroethane	97	6.424	6.424	(0.893)	163994	49.5354	49.5	
	42 2-Butanone	43	6.544	6.544	(0.909)	143585	48.3086	48.3	
	43 1,1-Dichloropropene	75	6.544	6.544	(0.909)	218574	50.2480	50.2	
	45 Benzene	78	6.794	6.794	(0.944)	641074	48.5536	48.6	
$	48 1,2-Dichloroethane-d4	67	6.935	6.935	(0.964)	87989	49.2069	49.2	
	49 1,2-Dichloroethane	62	7.000	7.000	(0.973)	189359	47.2808	47.3	
*	52 FLUOROBENZENE	96	7.196	7.196	(1.000)	535838	50.0000		
	53 Methyl Cyclohexane	83	7.348	7.348	(1.021)	226922	56.0418	56.0	9746
	54 Trichloroethene	130	7.359	7.359	(1.023)	157740	50.0414	50.0	
	57 Dibromomethane	93	7.750	7.750	(1.077)	114021	48.7901	48.8	
	59 1,2-Dichloropropane +	63	7.848	7.848	(1.091)	203496	48.4213	48.4	
	60 Bromodichloromethane	83	7.902	7.902	(1.098)	199718	47.9993	48.0	
	64 1-Bromo-2-chloroethane	63	8.337	8.337	(1.159)	300716	47.8418	47.8	9688
	65 2-Chloroethyl vinyl ether	63	8.402	8.402	(1.168)	18745	41.4990	41.5	(M3)
	66 cis-1,3-Dichloropropene	75	8.467	8.467	(1.177)	287006	51.9717	52.0	
M	6 1-3 Dichloropropene-Total	100				515961	103.659	104	0
$	67 Toluene-d8	98	8.630	8.630	(0.865)	530282	49.9726	50.0	
	69 Toluene +	91	8.674	8.674	(0.869)	648412	50.2472	50.2	
	71 4-methyl-2-pentanone	43	8.989	8.989	(1.249)	229905	50.4413	50.4	
	72 Tetrachloroethene	164	9.011	9.011	(0.903)	101628	55.0097	55.0	
	73 trans-1,3-Dichloropropene	75	9.033	9.033	(0.905)	228955	51.9115	51.9	
	75 1,1,2-Trichloroethane	97	9.174	9.174	(0.919)	147302	50.9008	50.9	
	76 Dibromochloromethane	129	9.337	9.337	(0.936)	172414	51.4878	51.5	
	77 1,3-Dichloropropane	76	9.413	9.413	(0.943)	288179	49.7618	49.8	
	79 1,2-Dibromoethane(EDB)	107	9.555	9.555	(0.958)	164118	49.3422	49.3	
	80 2-Hexanone	43	9.707	9.707	(0.973)	188215	53.5725	53.6	
	82 1-Chlorohexane	91	9.946	9.946	(0.997)	226805	57.1567	57.2	9689
*	83 CHLOROBENZENE-d5	82	9.979	9.979	(1.000)	242874	50.0000		
	84 Chlorobenzene ++	112	9.989	9.989	(1.001)	427309	50.3404	50.3	
	85 Ethylbenzene +	106	10.000	10.000	(1.002)	215537	51.5070	51.5	
	86 1,1,1,2-Tetrachloroethane	133	10.044	10.044	(1.007)	130228	49.1361	49.1	
	87 p,m-Xylene	106	10.120	10.120	(1.014)	531934	105.820	106	
	89 o-Xylene	106	10.490	10.490	(1.051)	264149	52.6060	52.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
90 Styrene	104	10.533	10.533	(1.056)	456680	53.5471	53.5	
91 Bromoform ++	173	10.588	10.588	(1.061)	106178	54.4751	54.5	
93 Isopropylbenzene	105	10.751	10.751	(1.077)	628478	54.1560	54.2	
$ 94 Bromofluorobenzene	174	11.023	11.023	(1.105)	137012	51.4505	51.5	
95 n-Propylbenzene	91	11.110	11.110	(0.920)	723817	51.1971	51.2	
96 Bromobenzene	77	11.121	11.121	(0.921)	322502	48.2448	48.2	
97 1,1,2,2-Tetrachloroethane++	83	11.175	11.175	(0.925)	217947	48.1076	48.1	
98 2-Chlorotoluene	91	11.274	11.274	(0.933)	519937	49.9089	49.9	
99 1,3,5-Trimethylbenzene	105	11.274	11.274	(0.933)	487585	51.5446	51.5	
100 1,2,3-Trichloropropane	75	11.317	11.317	(0.937)	244021	47.7434	47.7	
101 trans-1,4-Dichloro-2-Butene	53	11.328	11.328	(0.938)	52054	46.0445	46.0	
103 4-Chlorotoluene	91	11.426	11.426	(0.946)	458285	48.6039	48.6	
M 124 TOTAL XYLENE	106				796083	158.426	158	
104 tert-butylbenzene	91	11.579	11.579	(0.959)	255526	52.7335	52.7	
106 1,2,4-Trimethylbenzene	105	11.644	11.644	(0.964)	498253	51.6541	51.7	
107 sec-Butylbenzene	105	11.753	11.753	(0.973)	617594	54.1103	54.1	
108 p-Isopropyltoluene	119	11.873	11.873	(0.983)	466958	55.4215	55.4	
110 1,3-Dichlorobenzene	146	12.003	12.003	(0.994)	277437	51.7307	51.7	
* 111 1,4-DICHLOROBENZENE-D4	152	12.080	12.080	(1.000)	185250	50.0000		
112 1,4-Dichlorobenzene	146	12.091	12.091	(1.001)	286959	49.0127	49.0	
115 n-Butylbenzene	91	12.319	12.319	(1.020)	394860	52.9449	52.9	
116 1,2-Dichlorobenzene	146	12.558	12.558	(1.040)	267702	51.8546	51.9	
120 1,2-Dibromo-3-Chloropropane	157	13.557	13.557	(1.122)	30437	46.6790	46.7	
122 Hexachlorobutadiene	225	14.447	14.447	(1.196)	44532	56.9472	56.9	
123 1,2,4-Trichlorobenzene	180	14.523	14.523	(1.202)	135913	53.3986	53.4	
125 Naphthalene	128	14.936	14.936	(1.236)	369904	48.5700	48.6	
126 1,2,3-Trichlorobenzene	180	15.153	15.153	(1.254)	126945	53.6677	53.7	

QC Flag Legend

M2- Compound response manually integrated because Target system integrated incorrectly.
M3- Compound response manually integrated because Target system integrated incorrect peak.

Data File: /var/chem/msv5.i/2090115p.b/i2779L.d

Page 1

Date : 15-JAN-2009 17:43

Client ID: LCS

Instrument: msv5.i

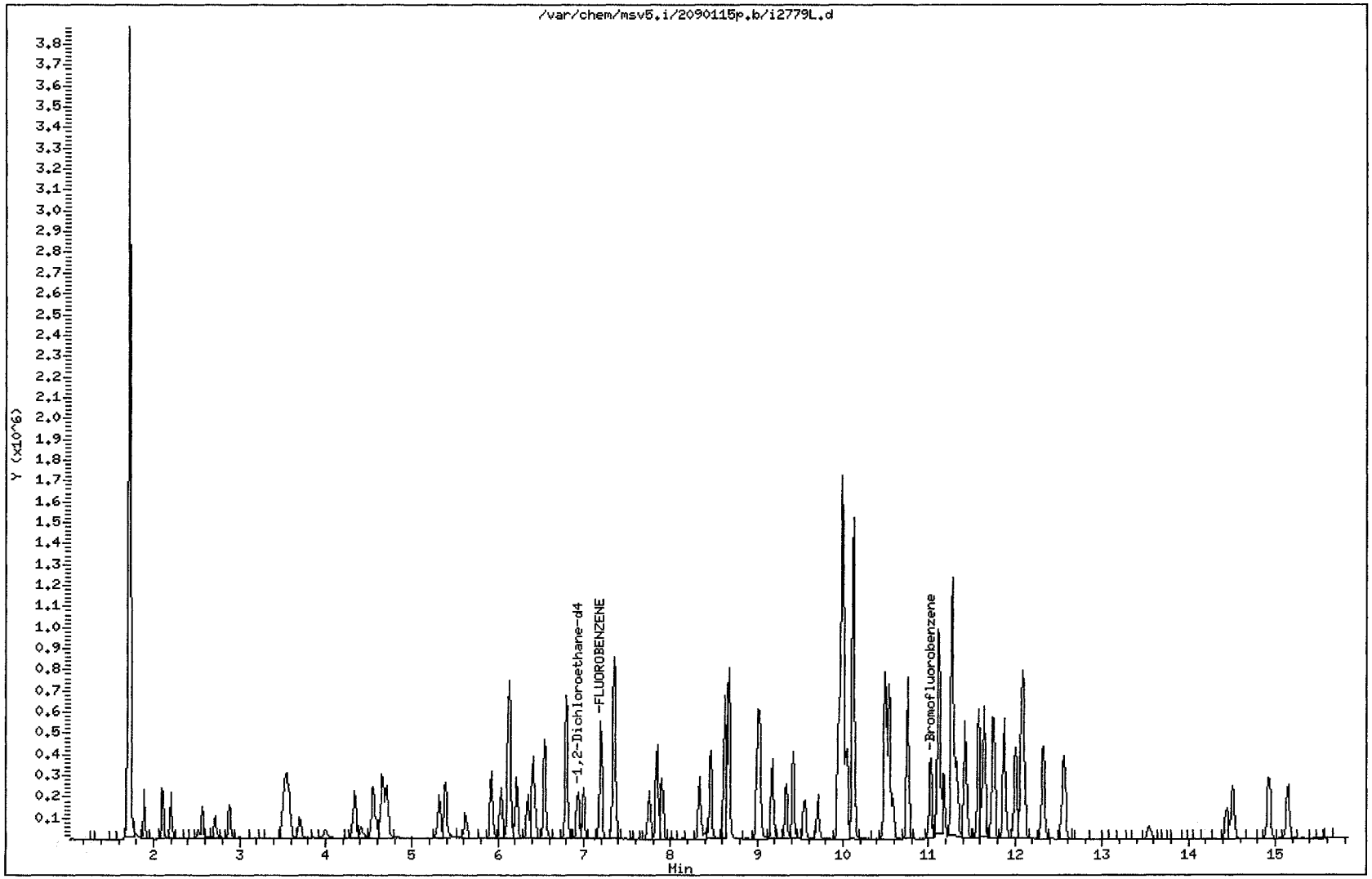
Sample Info: 686235*LCS

Purge Volume: 5.0

Operator: JCK

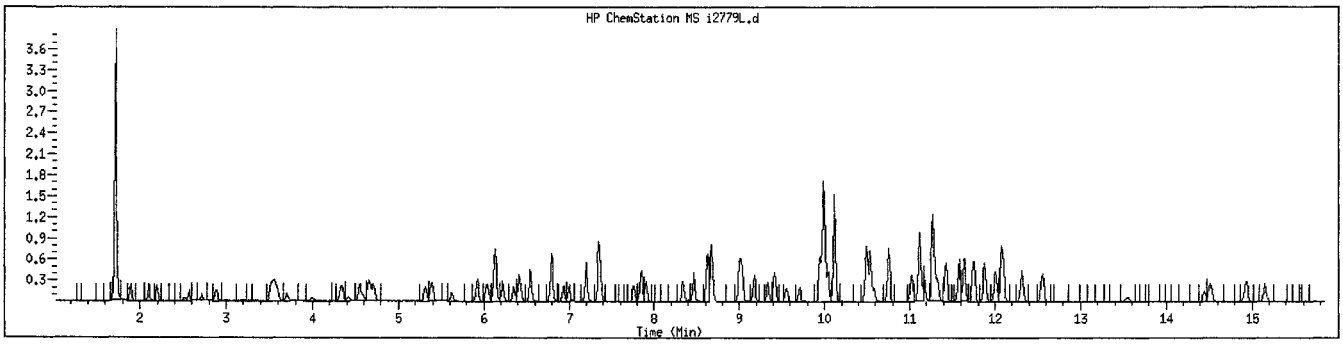
Column phase: RTX-VMS-30M

Column diameter: 0.25



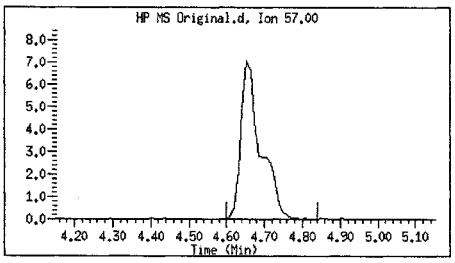
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 686235	SampleType	: LCS
Injection Date	: 01/15/2009 17:43	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 686235*LCS		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



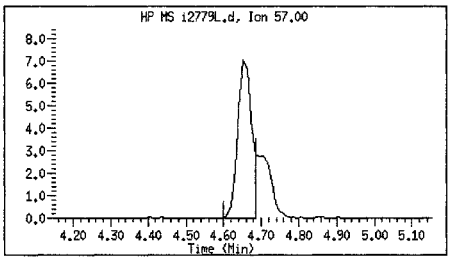
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2

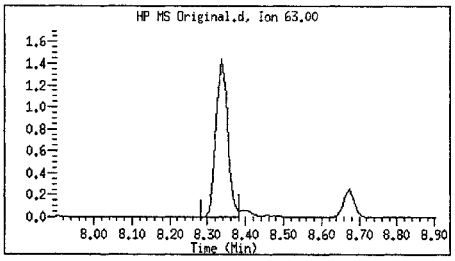


Electronic Signature Applied

User: jck
Date: 01/15/2009 17:43

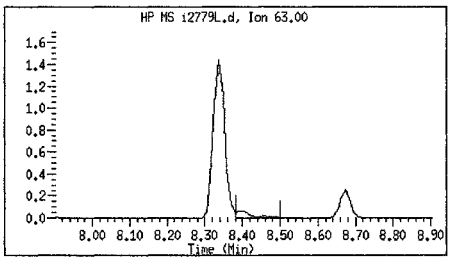


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M3



Electronic Signature Applied

User: jck
Date: 01/15/2009 17:43



M2 - Target system integrated incorrectly
M3 - Target system integrated incorrect peak

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD686236

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 686236

Level: (low/med) LOW Lab File ID: 2090115p/i2780

% Moisture: not dec. Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 1806

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-23-5	Carbon tetrachloride	49.5		0.156	5.00
107-06-2	1,2-Dichloroethane	48.9		0.090	5.00
156-59-2	cis-1,2-Dichloroethene	49.2		0.162	5.00
75-09-2	Methylene chloride	43.5		0.096	10.0
127-18-4	Tetrachloroethene	55.7		0.153	5.00
71-55-6	1,1,1-Trichloroethane	52.5		0.096	5.00
96-18-4	1,2,3-Trichloropropane	48.9		0.091	5.00
75-01-4	Vinyl chloride	47.7		0.155	5.00
75-35-4	1,1-Dichloroethene	46.1		0.201	5.00
71-43-2	Benzene	49.7		0.065	5.00
79-01-6	Trichloroethene	48.8		0.118	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2780.d
Lab Smp Id: 686236 Client Smp ID: LCSD
Inj Date : 15-JAN-2009 18:06
Operator : JCK Inst ID: msv5.i
Smp Info : 686236*LCSD
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 2 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.263)	169724	47.7081	47.7	
2 Chloromethane ++	50	2.098	2.098	(0.292)	251602	43.5455	43.5	
3 Vinyl Chloride +	62	2.196	2.196	(0.305)	205413	47.6788	47.7	
5 Bromomethane	94	2.565	2.566	(0.357)	89870	36.0208	36.0	
8 Chloroethane	64	2.718	2.718	(0.378)	103005	44.6596	44.7	
9 Trichlorofluoromethane	101	2.881	2.881	(0.400)	148571	49.8941	49.9	
11 1,1-Dichloroethene +	96	3.522	3.522	(0.489)	108398	46.0923	46.1	
12 Carbon Disulfide	76	3.554	3.554	(0.494)	391242	46.5669	46.6	
13 1,1,2Trichlotrifluoroethane	101	3.587	3.576	(0.498)	117295	47.3904	47.4	
14 Methyl Iodide	142	3.707	3.707	(0.515)	143250	39.5066	39.5	
15 Acrolein	56	3.989	4.000	(0.554)	54394	161.569	162	
17 Methylene Chloride	49	4.337	4.337	(0.603)	197941	43.4634	43.5	
18 Acetone	43	4.424	4.424	(0.615)	85914	47.6275	47.6	
19 trans-1,2-Dichloroethene	61	4.554	4.554	(0.633)	186496	46.6156	46.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 Methyl Acetate	43	4.587	4.587	(0.637)	136530	46.7545	46.8	5850
	21 Hexane	57	4.652	4.652	(0.647)	188553	52.2206	52.2	9288(M2)
	22 MTBE	73	4.707	4.707	(0.654)	303599	48.7077	48.7	9135
	27 1,1-Dichloroethane ++	63	5.315	5.315	(0.739)	249761	46.5584	46.6	
	29 Acrylonitrile	53	5.391	5.391	(0.749)	276897	214.208	214	
	30 Vinyl Acetate	43	5.619	5.619	(0.781)	173836	34.3987	34.4	
M	61 Total 1,2-Dichloroethene	61				420844	95.7946	95.8	
	31 cis-1,2-Dichloroethene	61	5.923	5.923	(0.823)	234348	49.1790	49.2	
	32 2,2-Dichloropropane	77	6.032	6.032	(0.838)	178199	49.4617	49.5	
	34 Cyclohexane	56	6.130	6.130	(0.852)	267060	50.7539	50.8	9567
	33 Bromochloromethane	128	6.130	6.130	(0.852)	85043	49.4192	49.4	
	35 Chloroform +	83	6.217	6.217	(0.864)	254172	50.5107	50.5	
	36 Carbon Tetrachloride	117	6.347	6.348	(0.882)	140084	49.4967	49.5	
$	39 Dibromofluoromethane	111	6.402	6.402	(0.890)	152678	48.0586	48.1	8909
	40 1,1,1-Trichloroethane	97	6.424	6.424	(0.893)	171616	52.4554	52.5	
	42 2-Butanone	43	6.543	6.544	(0.909)	144826	49.3067	49.3	
	43 1,1-Dichloropropene	75	6.543	6.544	(0.909)	213445	49.6536	49.7	
	45 Benzene	78	6.793	6.794	(0.944)	648983	49.7384	49.7	
$	48 1,2-Dichloroethane-d4	67	6.935	6.935	(0.964)	85239	48.2370	48.2	
	49 1,2-Dichloroethane	62	7.000	7.000	(0.973)	193724	48.9471	48.9	
*	52 FLUOROBENZENE	96	7.195	7.196	(1.000)	529528	50.0000		
	53 Methyl Cyclohexane	83	7.348	7.348	(1.021)	211770	52.9230	52.9	9645
	54 Trichloroethene	130	7.359	7.359	(1.023)	152104	48.8284	48.8	
	57 Dibromomethane	93	7.750	7.750	(1.077)	111457	48.2612	48.3	
	59 1,2-Dichloropropane +	63	7.848	7.848	(1.091)	205606	49.5063	49.5	
	60 Bromodichloromethane	83	7.902	7.902	(1.098)	200464	48.7527	48.8	
	64 1-Bromo-2-chloroethane	63	8.336	8.337	(1.159)	314765	50.6736	50.7	9476
	65 2-Chloroethyl vinyl ether	63	8.391	8.402	(1.166)	13997	33.2341	33.2	(M2)
	66 cis-1,3-Dichloropropene	75	8.467	8.467	(1.177)	286566	52.5104	52.5	
M	6 1-3 Dichloropropene-Total	100				513447	104.383	104	0
$	67 Toluene-d8	98	8.630	8.630	(0.865)	521065	49.8856	49.9	
	69 Toluene +	91	8.674	8.674	(0.869)	658979	51.8788	51.9	
	71 4-methyl-2-pentanone	43	8.989	8.989	(1.249)	237232	52.6691	52.7	
	72 Tetrachloroethene	164	9.011	9.011	(0.903)	101244	55.6741	55.7	
	73 trans-1,3-Dichloropropene	75	9.032	9.033	(0.905)	226881	52.2600	52.3	
	75 1,1,2-Trichloroethane	97	9.174	9.174	(0.919)	147705	51.8524	51.9	
	76 Dibromochloromethane	129	9.337	9.337	(0.936)	168340	51.0712	51.1	
	77 1,3-Dichloropropane	76	9.413	9.413	(0.943)	289561	50.7963	50.8	
	79 1,2-Dibromoethane(EDB)	107	9.554	9.555	(0.958)	168116	51.3487	51.3	
	80 2-Hexanone	43	9.707	9.707	(0.973)	191404	55.3473	55.3	
	82 1-Chlorohexane	91	9.946	9.946	(0.997)	212924	54.5126	54.5	9591
*	83 CHLOROBENZENE-d5	82	9.978	9.979	(1.000)	239069	50.0000		
	84 Chlorobenzene ++	112	9.989	9.989	(1.001)	414460	49.6038	49.6	
	85 Ethylbenzene +	106	10.000	10.000	(1.002)	214068	51.9701	52.0	
	86 1,1,1,2-Tetrachloroethane	133	10.044	10.044	(1.007)	130001	49.8312	49.8	
	87 p,m-Xylene	106	10.120	10.120	(1.014)	518564	104.802	105	
	89 o-Xylene	106	10.490	10.490	(1.051)	265690	53.7550	53.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	90 Styrene	104	10.533	10.533	(1.056)	469081	55.8766	55.9	
	91 Bromoform ++	173	10.588	10.588	(1.061)	106526	55.5235	55.5	
	93 Isopropylbenzene	105	10.751	10.751	(1.077)	609791	53.3821	53.4	
$	94 Bromofluorobenzene	174	11.023	11.023	(1.105)	132262	50.4573	50.5	
	95 n-Propylbenzene	91	11.110	11.110	(0.921)	692938	50.0505	50.1	
	96 Bromobenzene	77	11.121	11.121	(0.921)	317341	48.4776	48.5	
	97 1,1,2,2-Tetrachloroethane++	83	11.175	11.175	(0.926)	214896	48.4382	48.4	
	98 2-Chlorotoluene	91	11.273	11.274	(0.934)	514594	50.4416	50.4	
	99 1,3,5-Trimethylbenzene	105	11.273	11.274	(0.934)	468404	50.5650	50.6	
	100 1,2,3-Trichloropropane	75	11.317	11.317	(0.938)	244964	48.9424	48.9	
	101 trans-1,4-Dichloro-2-Butene	53	11.328	11.328	(0.939)	51687	46.6720	46.7	
	103 4-Chlorotoluene	91	11.426	11.426	(0.947)	455440	49.3246	49.3	
M	124 TOTAL XYLENE	106				784254	158.557	159	
	104 tert-butylbenzene	91	11.578	11.579	(0.959)	246539	51.9558	52.0	
	106 1,2,4-Trimethylbenzene	105	11.644	11.644	(0.965)	472592	50.0309	50.0	
	107 sec-Butylbenzene	105	11.742	11.753	(0.973)	565351	50.5816	50.6	
	108 p-Isopropyltoluene	119	11.872	11.873	(0.984)	435044	52.7267	52.7	
	110 1,3-Dichlorobenzene	146	12.003	12.003	(0.995)	272316	51.8507	51.9	
*	111 1,4-DICHLOROBENZENE-D4	152	12.068	12.080	(1.000)	181410	50.0000		
	112 1,4-Dichlorobenzene	146	12.090	12.091	(1.002)	280093	48.8526	48.9	
	115 n-Butylbenzene	91	12.319	12.319	(1.021)	366313	50.2807	50.3	
	116 1,2-Dichlorobenzene	146	12.558	12.558	(1.041)	264831	52.3843	52.4	
	120 1,2-Dibromo-3-Chloropropane	157	13.556	13.557	(1.123)	33234	51.8055	51.8	
	122 Hexachlorobutadiene	225	14.446	14.447	(1.197)	41351	54.0839	54.1	
	123 1,2,4-Trichlorobenzene	180	14.512	14.523	(1.202)	126689	50.9330	50.9	
	125 Naphthalene	128	14.925	14.936	(1.237)	382123	51.0749	51.1	
	126 1,2,3-Trichlorobenzene	180	15.142	15.153	(1.255)	118518	51.1657	51.2	

QC Flag Legend

M2- Compound response manually integrated because
Target system integrated incorrectly.

Data File: /var/chem/msv5.i/2090115p.b/i2780.d

Date : 15-JAN-2009 18:06

Client ID: LCSD

Instrument: msv5.i

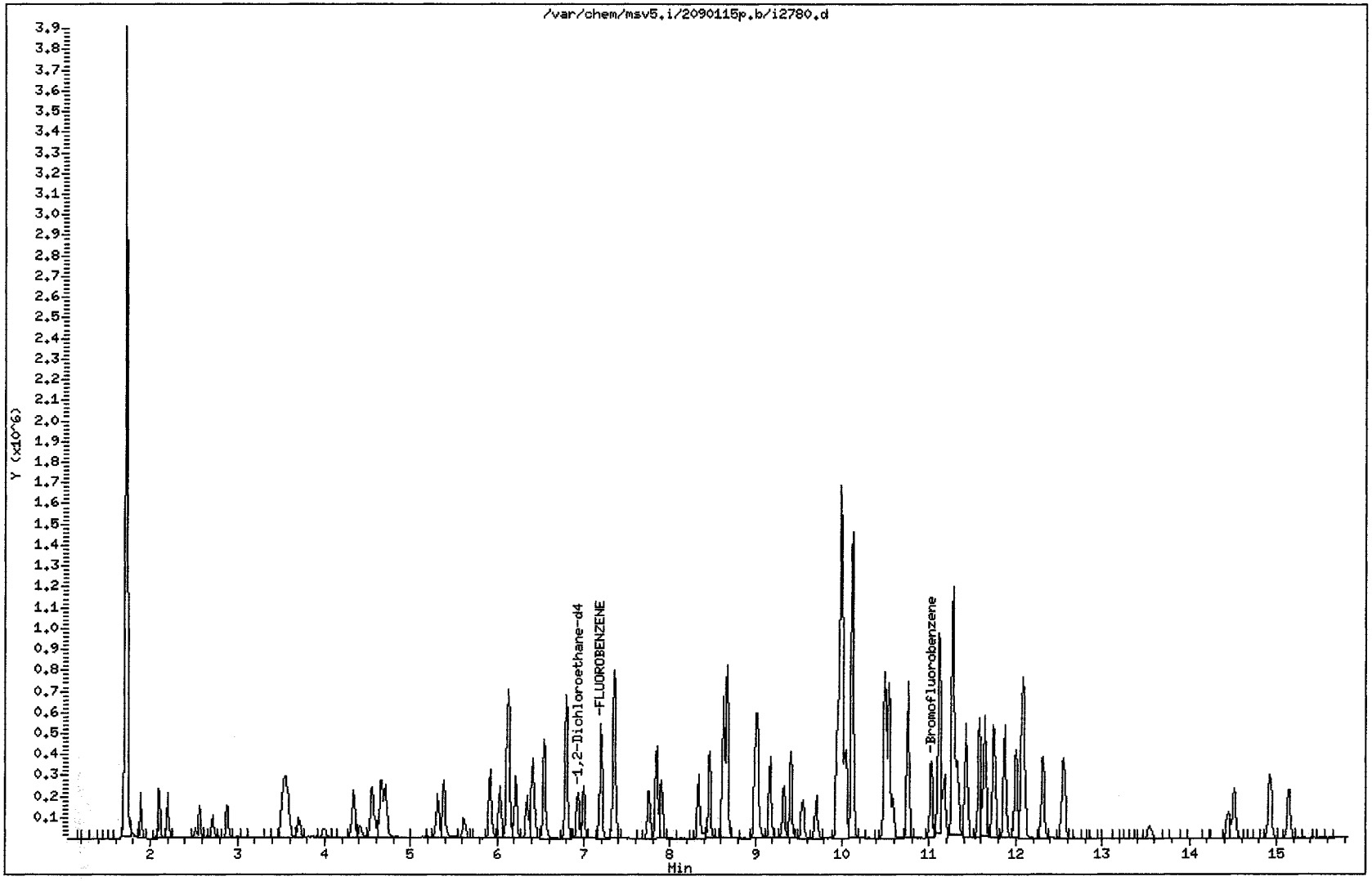
Sample Info: 686236MLCSD

Purge Volume: 5.0

Operator: JCK

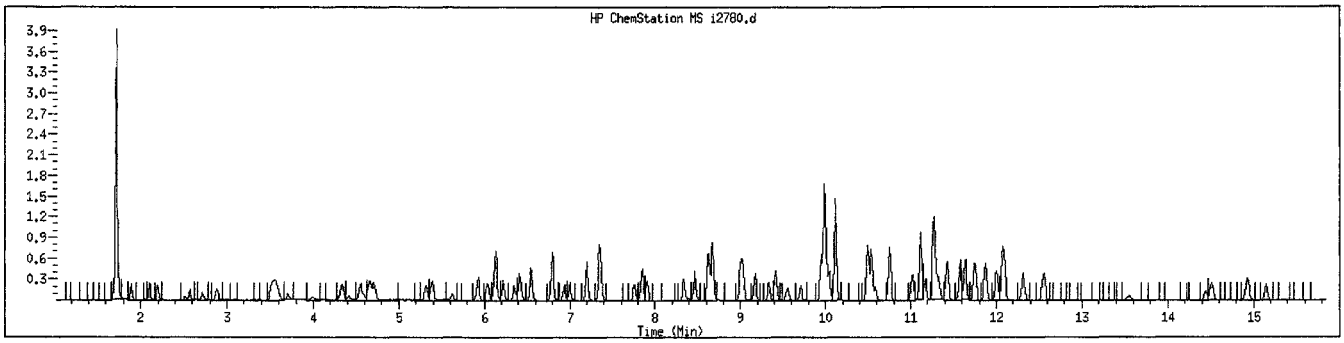
Column phase: RTX-VMS-30M

Column diameter: 0.25



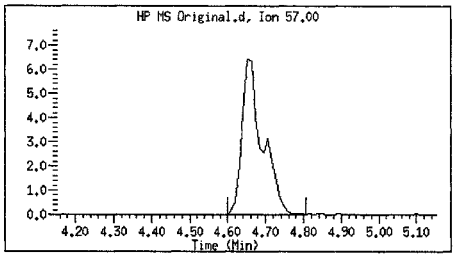
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 686236	SampleType	: LCSD
Injection Date	: 01/15/2009 18:06	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 686236*LCSD		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



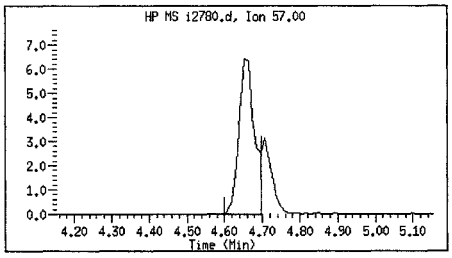
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2

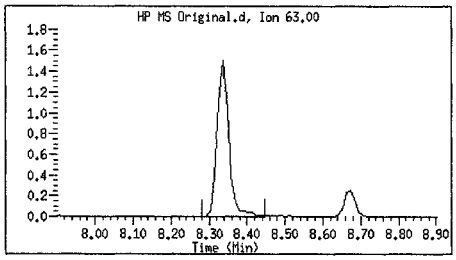


Electronic Signature Applied

User: jck
Date: 01/15/2009 18:37

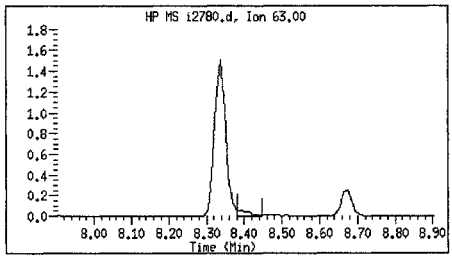


65 2-Chloroethyl vinyl ether CAS#: 110-75-8 Reason: M2



Electronic Signature Applied

User: jck
Date: 01/15/2009 18:37



M2 - Target system integrated incorrectly

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

NE4MW32C MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142403

Level: (low/med) LOW Lab File ID: 2090115p/i2785ms

% Moisture: not dec. Date Collected: 01/13/09 Time: 0915

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 2017

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	50.9		0.096	5.00
75-35-4	1,1-Dichloroethene	46.8		0.201	5.00
96-18-4	1,2,3-Trichloropropane	56.9		0.091	5.00
107-06-2	1,2-Dichloroethane	48.4		0.090	5.00
71-43-2	Benzene	51.6		0.065	5.00
56-23-5	Carbon tetrachloride	53.1		0.156	5.00
75-09-2	Methylene chloride	45.2		0.096	10.0
127-18-4	Tetrachloroethene	57.7		0.153	5.00
79-01-6	Trichloroethene	79.9		0.118	5.00
75-01-4	Vinyl chloride	51.8		0.155	5.00
156-59-2	cis-1,2-Dichloroethene	149		0.162	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2785ms.d
Lab Smp Id: 20901142403 Client Smp ID: MS
Inj Date : 15-JAN-2009 20:17
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142403*MS
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.263)	177710	51.5748	51.6	
2 Chloromethane ++	50	2.098	2.098	(0.292)	251242	44.8951	44.9	
3 Vinyl Chloride +	62	2.196	2.196	(0.305)	216318	51.8403	51.8	
5 Bromomethane	94	2.566	2.566	(0.357)	73927	30.5928	30.6	
8 Chloroethane	64	2.718	2.718	(0.378)	111622	49.9670	50.0	
9 Trichlorofluoromethane	101	2.881	2.881	(0.400)	145095	50.3090	50.3	
11 1,1-Dichloroethene +	96	3.522	3.522	(0.489)	106568	46.7855	46.8	
12 Carbon Disulfide	76	3.544	3.554	(0.492)	415221	51.0143	51.0	
13 1,1,2Trichlotrifluoroethane	101	3.576	3.576	(0.497)	121311	50.6045	50.6	
14 Methyl Iodide	142	3.707	3.707	(0.515)	133377	38.0884	38.1	
15 Acrolein	56	3.989	4.000	(0.554)	71090	218.018	218	
17 Methylene Chloride	49	4.326	4.337	(0.601)	199400	45.2055	45.2	
18 Acetone	43	4.413	4.424	(0.613)	46403	24.9614	25.0	(R)
19 trans-1,2-Dichloroethene	61	4.544	4.554	(0.631)	188272	48.5875	48.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 Methyl Acetate	43	4.587	4.587	(0.637)	145568	51.4681	51.5	5127
	21 Hexane	57	4.652	4.652	(0.647)	186250	53.2578	53.3	9267(M2)
	22 MTBE	73	4.707	4.707	(0.654)	309447	51.2579	51.3	9128
	27 1,1-Dichloroethane ++	63	5.315	5.315	(0.739)	331501	63.8022	63.8	(R)
	29 Acrylonitrile	53	5.381	5.391	(0.748)	289303	231.072	231	
	30 Vinyl Acetate	43	5.620	5.619	(0.781)	215993	44.1286	44.1	
M	61 Total 1,2-Dichloroethene	61				875471	197.482	197	
	31 cis-1,2-Dichloroethene	61	5.924	5.923	(0.823)	687199	148.894	149	(R)
	32 2,2-Dichloropropane	77	6.032	6.032	(0.838)	172316	49.3818	49.4	
	34 Cyclohexane	56	6.119	6.130	(0.850)	276789	54.3109	54.3	8870
	33 Bromochloromethane	128	6.130	6.130	(0.852)	83599	50.1575	50.2	
	35 Chloroform +	83	6.217	6.217	(0.864)	234583	48.1088	48.1	
	36 Carbon Tetrachloride	117	6.348	6.348	(0.882)	145674	53.1431	53.1	
$	39 Dibromofluoromethane	111	6.402	6.402	(0.890)	148092	48.1286	48.1	9384
	40 1,1,1-Trichloroethane	97	6.413	6.424	(0.891)	161398	50.9341	50.9	
	42 2-Butanone	43	6.544	6.544	(0.909)	124086	43.6174	43.6	
	43 1,1-Dichloropropene	75	6.544	6.544	(0.909)	210472	50.5518	50.6	
	45 Benzene	78	6.794	6.794	(0.944)	651674	51.5663	51.6	
$	48 1,2-Dichloroethane-d4	67	6.935	6.935	(0.964)	84467	49.3522	49.4	
	49 1,2-Dichloroethane	62	6.989	7.000	(0.971)	185418	48.3696	48.4	
*	52 FLUOROBENZENE	96	7.196	7.196	(1.000)	512875	50.0000		
	53 Methyl Cyclohexane	83	7.337	7.348	(1.020)	230955	59.5915	59.6	9746
	54 Trichloroethene	130	7.359	7.359	(1.023)	241098	79.9103	79.9	(R)
	57 Dibromomethane	93	7.750	7.750	(1.077)	109393	48.9055	48.9	
	59 1,2-Dichloropropane +	63	7.837	7.848	(1.089)	200729	49.9014	49.9	
	60 Bromodichloromethane	83	7.892	7.902	(1.097)	201711	50.6488	50.6	
	64 1-Bromo-2-chloroethane	63	8.337	8.337	(1.159)	311765	51.8203	51.8	9574
	66 cis-1,3-Dichloropropene	75	8.457	8.467	(1.175)	278308	52.6531	52.7	
M	6 1-3 Dichloropropene-Total	100				503787	105.745	106	0
$	67 Toluene-d8	98	8.620	8.630	(0.865)	508330	50.1527	50.2	
	69 Toluene +	91	8.663	8.674	(0.869)	640521	51.9657	52.0	
	71 4-methyl-2-pentanone	43	8.989	8.989	(1.249)	284645	65.2474	65.2	(R)
	72 Tetrachloroethene	164	9.011	9.011	(0.904)	101823	57.7025	57.7	
	73 trans-1,3-Dichloropropene	75	9.022	9.033	(0.905)	225479	53.5233	53.5	
	75 1,1,2-Trichloroethane	97	9.163	9.174	(0.919)	149230	53.9877	54.0	
	76 Dibromochloromethane	129	9.327	9.337	(0.936)	166678	52.1114	52.1	
	77 1,3-Dichloropropane	76	9.414	9.413	(0.944)	287341	51.9463	51.9	
	79 1,2-Dibromoethane(EDB)	107	9.544	9.555	(0.957)	177695	55.9320	55.9	
	80 2-Hexanone	43	9.696	9.707	(0.973)	196792	58.6433	58.6	
	82 1-Chlorohexane	91	9.935	9.946	(0.997)	206125	54.3837	54.4	9584
*	83 CHLOROBENZENE-d5	82	9.968	9.979	(1.000)	231984	50.0000		
	84 Chlorobenzene ++	112	9.990	9.989	(1.002)	406089	50.0863	50.1	
	85 Ethylbenzene +	106	9.990	10.000	(1.002)	211035	52.7985	52.8	
	86 1,1,1,2-Tetrachloroethane	133	10.033	10.044	(1.007)	129877	51.3041	51.3	
	87 p,m-Xylene	106	10.110	10.120	(1.014)	510801	106.386	106	
	89 o-Xylene	106	10.490	10.490	(1.052)	261382	54.4985	54.5	
	90 Styrene	104	10.534	10.533	(1.057)	444477	54.5628	54.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
91 Bromoform ++	173	10.577	10.588	(1.061)	104477	56.1187	56.1	
93 Isopropylbenzene	105	10.751	10.751	(1.079)	622798	56.1858	56.2	
$ 94 Bromofluorobenzene	174	11.012	11.023	(1.105)	133243	52.3839	52.4	
95 n-Propylbenzene	91	11.110	11.110	(0.921)	698291	52.2466	52.2	
96 Bromobenzene	77	11.121	11.121	(0.921)	313401	49.5934	49.6	
97 1,1,2,2-Tetrachloroethane++	83	11.165	11.175	(0.925)	234388	54.7272	54.7	
98 2-Chlorotoluene	91	11.263	11.274	(0.933)	510927	51.8790	51.9	
99 1,3,5-Trimethylbenzene	105	11.263	11.274	(0.933)	470586	52.6231	52.6	
100 1,2,3-Trichloropropane	75	11.317	11.317	(0.938)	274734	56.8595	56.9	
101 trans-1,4-Dichloro-2-Butene	53	11.328	11.328	(0.939)	56089	52.3245	52.3	
103 4-Chlorotoluene	91	11.415	11.426	(0.946)	456690	51.2345	51.2	
M 124 TOTAL XYLENE	106				772183	160.884	161	
104 tert-butylbenzene	91	11.568	11.579	(0.958)	249985	54.5721	54.6	
106 1,2,4-Trimethylbenzene	105	11.633	11.644	(0.964)	476642	52.2700	52.3	
107 sec-Butylbenzene	105	11.742	11.753	(0.973)	592400	54.9032	54.9	
108 p-Isopropyltoluene	119	11.873	11.873	(0.984)	447891	56.2313	56.2	
110 1,3-Dichlorobenzene	146	12.003	12.003	(0.995)	262193	51.7143	51.7	
* 111 1,4-DICHLOROBENZENE-D4	152	12.069	12.080	(1.000)	175127	50.0000		
112 1,4-Dichlorobenzene	146	12.091	12.091	(1.002)	271672	49.0838	49.1	
115 n-Butylbenzene	91	12.308	12.319	(1.020)	377429	53.5068	53.5	
116 1,2-Dichlorobenzene	146	12.547	12.558	(1.040)	255451	52.3417	52.3	
120 1,2-Dibromo-3-Chloropropane	157	13.546	13.557	(1.122)	35788	57.5452	57.5	
122 Hexachlorobutadiene	225	14.436	14.447	(1.196)	45270	61.1133	61.1	
123 1,2,4-Trichlorobenzene	180	14.513	14.523	(1.202)	122483	51.0054	51.0	
125 Naphthalene	128	14.925	14.936	(1.237)	390275	53.8654	53.9	
126 1,2,3-Trichlorobenzene	180	15.143	15.153	(1.255)	120487	53.8819	53.9	

QC Flag Legend

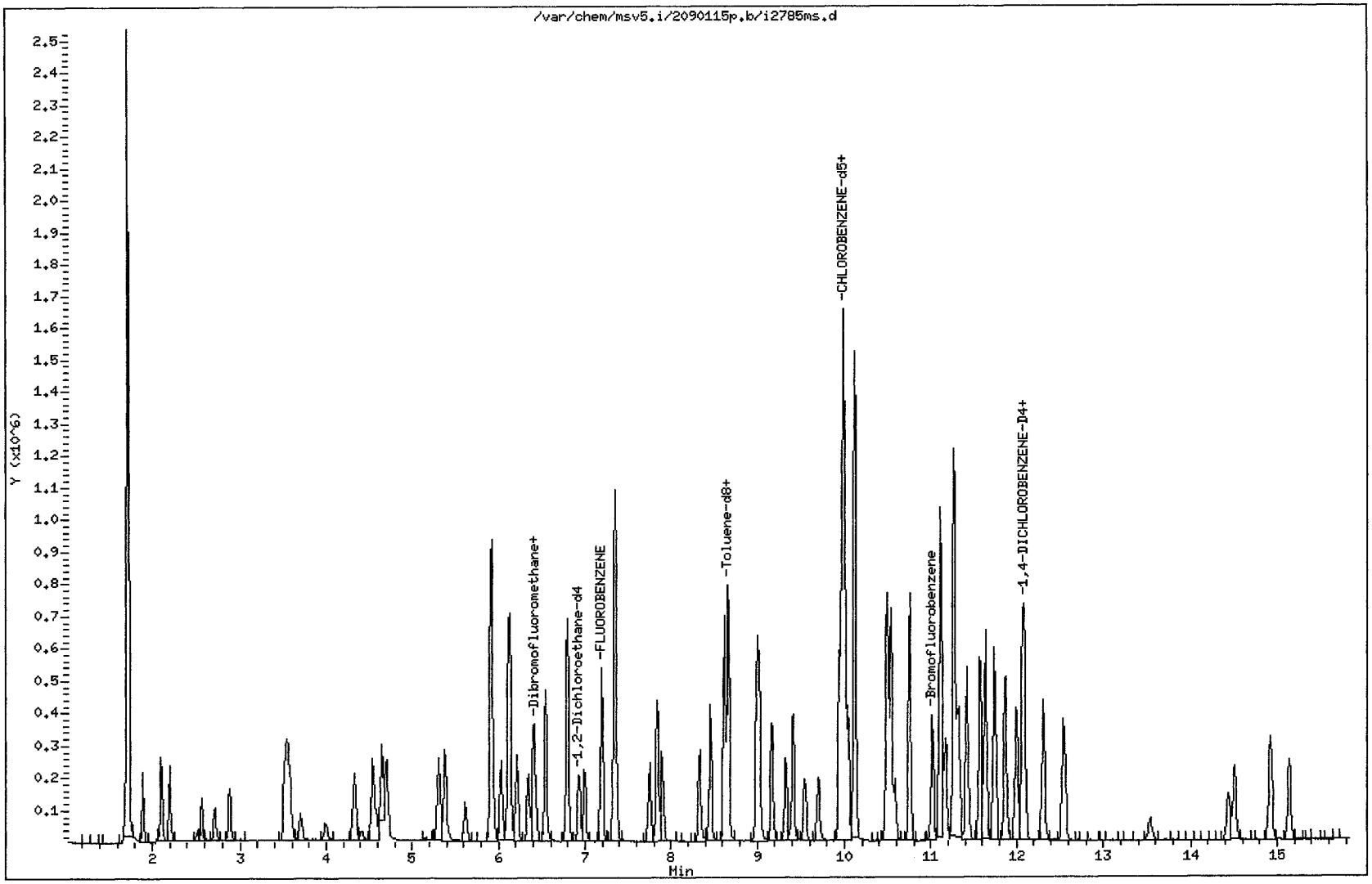
R - Spike/Surrogate failed recovery limits.
M2- Compound response manually integrated because
Target system integrated incorrectly.

Data File: /var/chem/msv5.i/2090115p.b/i2785ms.d
Date : 15-JAN-2009 20:17
Client ID: MS
Sample Info: 20901142403*MS
Purge Volume: 5.0
Column phase: RTX-VMS-30M

Page 1

Instrument: msv5.i

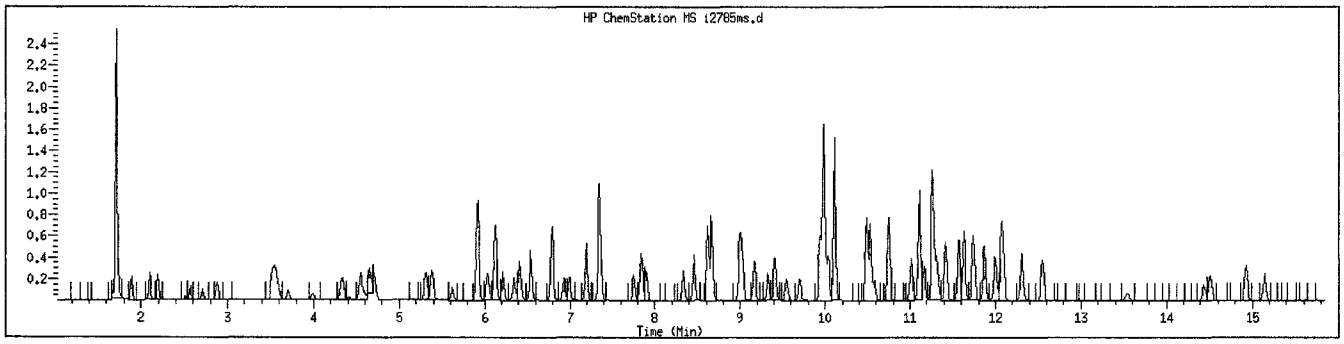
Operator: JCK
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2785ms.d Page: 1
Report Date: 01/15/2009 20:23

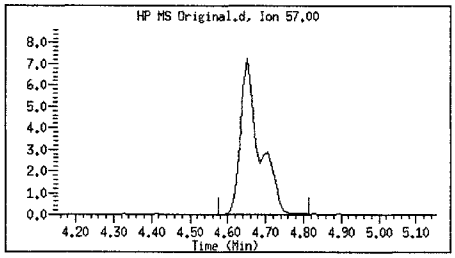
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 20901142403 SampleType : MS
Injection Date: 01/15/2009 20:17 Instrument : msv5.i
Operator : JCK
Sample Info : 20901142403*MS
Misc Info : MSV~15220~*1*JCK
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Dilution : 1.00
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



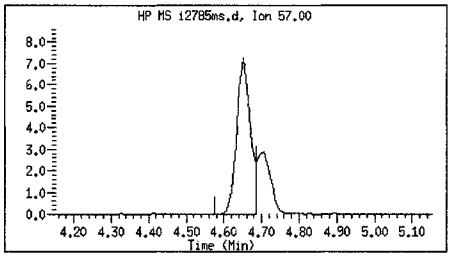
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2



Electronic Signature
Applied

User: jck
Date: 01/15/2009 20:23



M2 - Target system integrated incorrectly

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

NE4MW32C MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209011424

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20901142404

Level: (low/med) LOW Lab File ID: 2090115p/i2786msd

% Moisture: not dec. Date Collected: 01/13/09 Time: 0915

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 01/14/09

Instrument ID: MSV5 Date Analyzed: 01/15/09 Time: 2039

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 404503

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	52.1		0.096	5.00
75-35-4	1,1-Dichloroethene	47.7		0.201	5.00
96-18-4	1,2,3-Trichloropropane	56.4		0.091	5.00
107-06-2	1,2-Dichloroethane	49.3		0.090	5.00
71-43-2	Benzene	52.4		0.065	5.00
56-23-5	Carbon tetrachloride	53.9		0.156	5.00
75-09-2	Methylene chloride	44.5		0.096	10.0
127-18-4	Tetrachloroethene	56.8		0.153	5.00
79-01-6	Trichloroethene	81.7		0.118	5.00
75-01-4	Vinyl chloride	50.9		0.155	5.00
156-59-2	cis-1,2-Dichloroethene	151		0.162	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2090115p.b/i2786msd.d
Lab Smp Id: 20901142404 Client Smp ID: MSD
Inj Date : 15-JAN-2009 20:39
Operator : JCK Inst ID: msv5.i
Smp Info : 20901142404*MSD
Misc Info : MSV~15220~*1*JCK
Comment :
Method : /var/chem/msv5.i/2090115p.b/8260Bw5.m
Meth Date : 15-Jan-2009 20:04 jck Quant Type: ISTD
Cal Date : 14-JAN-2009 11:56 Cal File: i2731.d
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	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 (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.892	1.892	(0.263)	176565	50.6000	50.6	
2 Chloromethane ++	50	2.098	2.098	(0.292)	240406	42.4201	42.4	
3 Vinyl Chloride +	62	2.196	2.196	(0.305)	215207	50.9273	50.9	
5 Bromomethane	94	2.566	2.566	(0.357)	87588	35.7915	35.8	
8 Chloroethane	64	2.718	2.718	(0.378)	109106	48.2283	48.2	
9 Trichlorofluoromethane	101	2.881	2.881	(0.400)	150006	51.3595	51.4	
11 1,1-Dichloroethene +	96	3.522	3.522	(0.489)	109967	47.6723	47.7	
12 Carbon Disulfide	76	3.544	3.554	(0.492)	395440	47.9818	48.0	
13 1,1,2Trichlotrifluoroethane	101	3.576	3.576	(0.497)	119137	49.0744	49.1	
14 Methyl Iodide	142	3.707	3.707	(0.515)	144365	40.5131	40.5	
15 Acrolein	56	4.000	4.000	(0.556)	67009	202.925	203	
17 Methylene Chloride	49	4.337	4.337	(0.603)	198724	44.4873	44.5	
18 Acetone	43	4.413	4.424	(0.613)	48208	25.7006	25.7	
19 trans-1,2-Dichloroethene	61	4.544	4.554	(0.631)	197859	50.4213	50.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 Methyl Acetate	43	4.587	4.587	(0.637)	144222	50.3528	50.4	5115
	21 Hexane	57	4.652	4.652	(0.647)	174865	49.3752	49.4	9197(M2)
	22 MTBE	73	4.707	4.707	(0.654)	319033	52.1831	52.2	9026
	27 1,1-Dichloroethane ++	63	5.315	5.315	(0.739)	348695	66.2699	66.3	(R)
	29 Acrylonitrile	53	5.381	5.391	(0.748)	280914	221.558	222	
	30 Vinyl Acetate	43	5.620	5.619	(0.781)	211572	42.6833	42.7	
M	61 Total 1,2-Dichloroethene	61				903409	201.375	201	
	31 cis-1,2-Dichloroethene	61	5.924	5.923	(0.823)	705550	150.954	151	(R)
	32 2,2-Dichloropropane	77	6.032	6.032	(0.838)	179918	50.9138	50.9	
	34 Cyclohexane	56	6.119	6.130	(0.850)	275474	53.3750	53.4	8881
	33 Bromochloromethane	128	6.130	6.130	(0.852)	86128	51.0269	51.0	
	35 Chloroform +	83	6.217	6.217	(0.864)	241565	48.9276	48.9	
	36 Carbon Tetrachloride	117	6.348	6.348	(0.882)	149745	53.9432	53.9	
$	39 Dibromofluoromethane	111	6.402	6.402	(0.890)	148452	47.6406	47.6	9367
	40 1,1,1-Trichloroethane	97	6.424	6.424	(0.893)	167273	52.1261	52.1	
	42 2-Butanone	43	6.544	6.544	(0.909)	120135	41.6991	41.7	
	43 1,1-Dichloropropene	75	6.544	6.544	(0.909)	221472	52.5268	52.5	
	45 Benzene	78	6.794	6.794	(0.944)	670043	52.3550	52.4	
$	48 1,2-Dichloroethane-d4	67	6.924	6.935	(0.962)	84455	48.7264	48.7	
	49 1,2-Dichloroethane	62	6.989	7.000	(0.971)	191471	49.3223	49.3	
*	52 FLUOROBENZENE	96	7.196	7.196	(1.000)	519388	50.0000		
	53 Methyl Cyclohexane	83	7.337	7.348	(1.020)	210361	53.5972	53.6	9706
	54 Trichloroethene	130	7.348	7.359	(1.021)	249656	81.7092	81.7	(R)
	57 Dibromomethane	93	7.750	7.750	(1.077)	110296	48.6909	48.7	
	59 1,2-Dichloropropane +	63	7.837	7.848	(1.089)	204075	50.0970	50.1	
	60 Bromodichloromethane	83	7.892	7.902	(1.097)	200891	49.8103	49.8	
	64 1-Bromo-2-chloroethane	63	8.326	8.337	(1.157)	314819	51.6718	51.7	9489
	66 cis-1,3-Dichloropropene	75	8.457	8.467	(1.175)	279054	52.1322	52.1	
M	6 1-3 Dichloropropene-Total	100				512945	106.317	106	0
$	67 Toluene-d8	98	8.620	8.630	(0.865)	515071	49.8217	49.8	
	69 Toluene +	91	8.663	8.674	(0.869)	677109	53.8574	53.9	
	71 4-methyl-2-pentanone	43	8.989	8.989	(1.249)	276553	62.5976	62.6	
	72 Tetrachloroethene	164	9.000	9.011	(0.903)	102173	56.7660	56.8	
	73 trans-1,3-Dichloropropene	75	9.022	9.033	(0.905)	233891	54.4318	54.4	
	75 1,1,2-Trichloroethane	97	9.164	9.174	(0.919)	152619	54.1315	54.1	
	76 Dibromochloromethane	129	9.327	9.337	(0.936)	167636	51.3836	51.4	
	77 1,3-Dichloropropane	76	9.414	9.413	(0.944)	291716	51.7035	51.7	
	79 1,2-Dibromoethane(EDB)	107	9.544	9.555	(0.957)	176906	54.5922	54.6	
	80 2-Hexanone	43	9.696	9.707	(0.973)	198068	57.8666	57.9	
	82 1-Chlorohexane	91	9.935	9.946	(0.997)	200852	51.9537	52.0	9599
*	83 CHLOROBENZENE-d5	82	9.968	9.979	(1.000)	236622	50.0000		
	84 Chlorobenzene ++	112	9.990	9.989	(1.002)	409825	49.5563	49.6	
	85 Ethylbenzene +	106	9.990	10.000	(1.002)	214705	52.6638	52.7	
	86 1,1,1,2-Tetrachloroethane	133	10.034	10.044	(1.007)	129144	50.0146	50.0	
	87 p,m-Xylene	106	10.110	10.120	(1.014)	523792	106.953	107	
	89 o-Xylene	106	10.490	10.490	(1.052)	264406	54.0484	54.0	
	90 Styrene	104	10.534	10.533	(1.057)	456787	54.9748	55.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
91 Bromoform ++	173	10.577	10.588	(1.061)	102519	53.9876	54.0	
93 Isopropylbenzene	105	10.751	10.751	(1.079)	623950	55.1864	55.2	
$ 94 Bromofluorobenzene	174	11.012	11.023	(1.105)	129570	49.9414	49.9	
95 n-Propylbenzene	91	11.099	11.110	(0.920)	698426	51.1824	51.2	
96 Bromobenzene	77	11.121	11.121	(0.921)	314117	48.6847	48.7	
97 1,1,2,2-Tetrachloroethane++	83	11.165	11.175	(0.925)	238465	54.5344	54.5	
98 2-Chlorotoluene	91	11.263	11.274	(0.933)	502111	49.9356	49.9	
99 1,3,5-Trimethylbenzene	105	11.263	11.274	(0.933)	463815	50.7997	50.8	
100 1,2,3-Trichloropropane	75	11.307	11.317	(0.937)	278228	56.3988	56.4	
101 trans-1,4-Dichloro-2-Butene	53	11.329	11.328	(0.939)	53780	49.2074	49.2	
103 4-Chlorotoluene	91	11.416	11.426	(0.946)	445321	48.9319	48.9	
M 124 TOTAL XYLENE	106				788198	161.002	161	
104 tert-butylbenzene	91	11.568	11.579	(0.958)	240532	51.4290	51.4	
106 1,2,4-Trimethylbenzene	105	11.633	11.644	(0.964)	474671	50.9837	51.0	
107 sec-Butylbenzene	105	11.742	11.753	(0.973)	563387	51.1408	51.1	
108 p-Isopropyltoluene	119	11.862	11.873	(0.983)	433953	53.3613	53.4	
110 1,3-Dichlorobenzene	146	11.993	12.003	(0.994)	263886	50.9782	51.0	
* 111 1,4-DICHLOROBENZENE-D4	152	12.069	12.080	(1.000)	178803	50.0000		
112 1,4-Dichlorobenzene	146	12.080	12.091	(1.001)	277776	49.1549	49.2	
115 n-Butylbenzene	91	12.308	12.319	(1.020)	343808	47.9920	48.0	
116 1,2-Dichlorobenzene	146	12.548	12.558	(1.040)	253592	50.8926	50.9	
120 1,2-Dibromo-3-Chloropropane	157	13.535	13.557	(1.121)	35441	55.8789	55.9	
122 Hexachlorobutadiene	225	14.436	14.447	(1.196)	39691	52.7127	52.7	
123 1,2,4-Trichlorobenzene	180	14.502	14.523	(1.202)	125061	51.0082	51.0	
125 Naphthalene	128	14.925	14.936	(1.237)	386539	52.3410	52.3	
126 1,2,3-Trichlorobenzene	180	15.143	15.153	(1.255)	118223	51.7825	51.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M2- Compound response manually integrated because
Target system integrated incorrectly.

Data File: /var/chem/msv5.i/2090115p.b/i2786msd.d

Page 1

Date : 15-JAN-2009 20:39

Client ID: MSD

Instrument: msv5.i

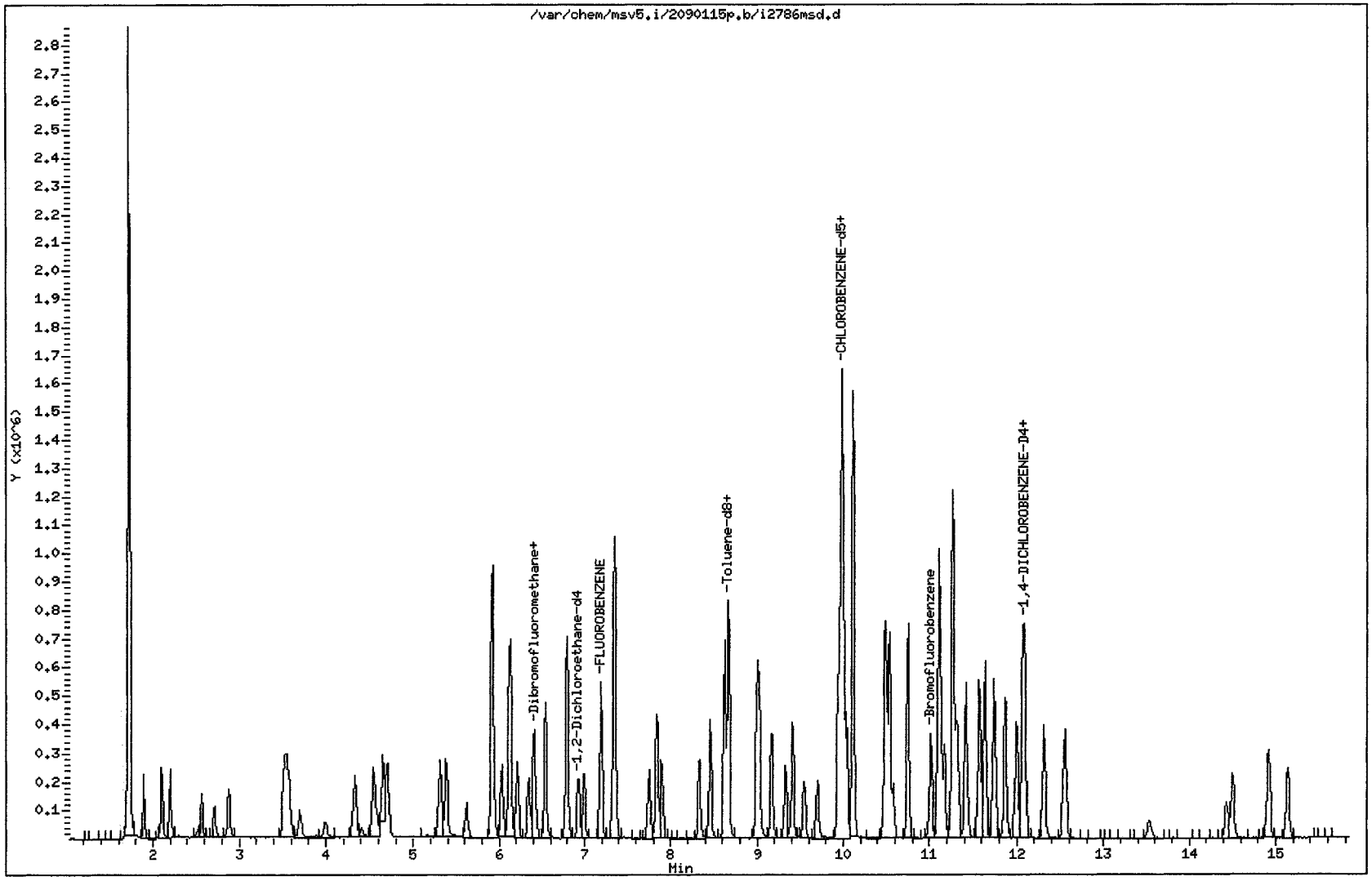
Sample Info: 20901142404*MSD

Purge Volume: 5.0

Operator: JCK

Column phase: RTX-VMS-30M

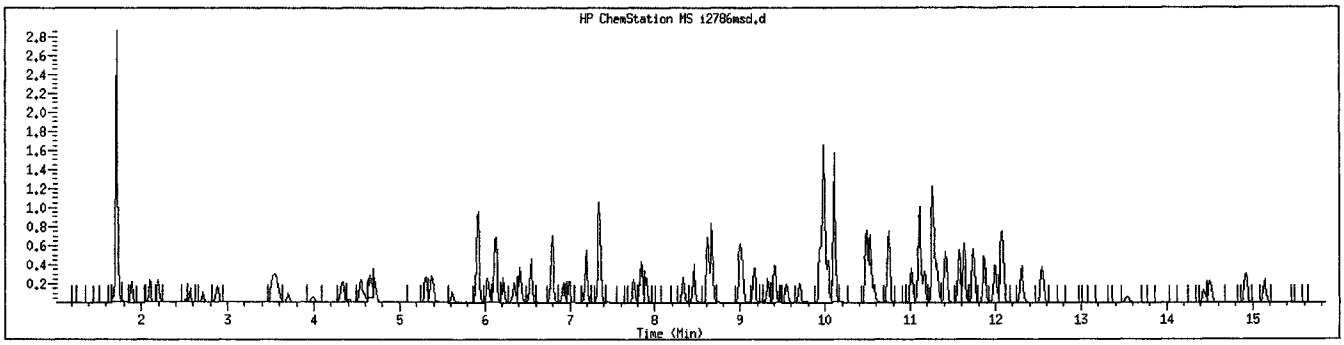
Column diameter: 0.25



Data file : /var/chem/msv5.i/2090115p.b/i2786msd.d Page: 1
Report Date: 01/15/2009 20:43

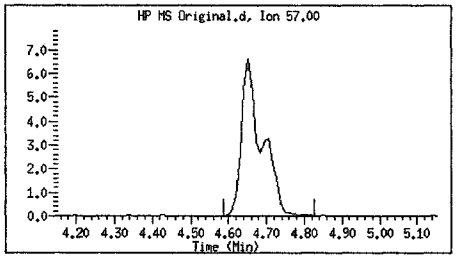
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20901142404	SampleType	: MSD
Injection Date	: 01/15/2009 20:39	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 20901142404*MSD		
Misc Info	: MSV~15220~*1*JCK		
Method	: /var/chem/msv5.i/2090115p.b/8260Bw5.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



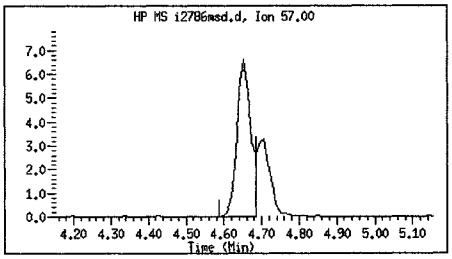
Original Final

21 Hexane CAS#: 110-54-3 Reason: M2



Electronic Signature
Applied

User: jck
Date: 01/15/2009 20:43



M2 - Target system integrated incorrectly

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 14-JAN-2009
Instrument: msv5.i
Analyst(s): WAS

Standard	Conc ppm		ICV
Int. Standard	50	6-42-9	
Surrogate	50	6-42-8	
8260	50	6-43-1	6-41-5
Ac/Ac/VA	250/50	6-42-10	6-41-3
CVE	50	6-42-3	6-39-1

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		i2718.d	0.00 ml	14-JAN-2009 06:50	1.000	WAS	2
BLANK		i2719.d	5.00 ml	14-JAN-2009 07:12	1.000	WAS	2
1400		i2720.d	5.00 ml	14-JAN-2009 07:34	1.000	WAS	3
1400		i2721.d	5.00 ml	14-JAN-2009 07:59	1.000	WAS	4
LCSD	RECALIBRATE	i2722.d	5.00 ml	14-JAN-2009 08:33	1.000	WAS	5
BLANK		i2723.d	5.00 ml	14-JAN-2009 08:55	1.000	JCK	6
1000		i2724bfb.d	0.00 ml	14-JAN-2009 09:18	1.000	JCK	2
1207	8260_W ICAL	i2725.d	5.00 ml	14-JAN-2009 09:40	1.000	JCK	8
1201		i2726.d	5.00 ml	14-JAN-2009 10:03	1.000	JCK	9
1208		i2727.d	5.00 ml	14-JAN-2009 10:25	1.000	JCK	10
1202		i2728.d	5.00 ml	14-JAN-2009 10:48	1.000	JCK	11
1203		i2729.d	5.00 ml	14-JAN-2009 11:11	1.000	JCK	12
1204		i2730.d	5.00 ml	14-JAN-2009 11:34	1.000	JCK	13
1205		i2731.d	5.00 ml	14-JAN-2009 11:56	1.000	JCK	14
BLANK		i2732.d	5.00 ml	14-JAN-2009 12:19	1.000	JCK	15
1600		i2733.d	5.00 ml	14-JAN-2009 12:59	1.000	JCK	16
685451		i2734.d	5.00 ml	14-JAN-2009 13:49	1.000	WAS	17
685452		i2735.d	5.00 ml	14-JAN-2009 14:12	1.000	JCK	18
685450		i2736.d	5.00 ml	14-JAN-2009 14:35	1.000	JCK	19
685450		i2737.d	5.00 ml	14-JAN-2009 14:58	1.000	JCK	20
20901133114		i2738.d	5.00 ml	14-JAN-2009 15:21	200.000	JCK	21
685841		i2739ms.d	5.00 ml	14-JAN-2009 15:43	200.000	JCK	22
685842		i2740msd.d	5.00 ml	14-JAN-2009 16:06	200.000	JCK	23
BLANK		i2741.d	5.00 ml	14-JAN-2009 16:29	1.000	JCK	24
20901090821		i2742.d	5.00 ml	14-JAN-2009 16:51	1.000	JCK	25
20901090866		i2743.d	5.00 ml	14-JAN-2009 17:14	1.000	JCK	26
20901133106		i2744.d	5.00 ml	14-JAN-2009 17:37	20.000	JCK	27
20901133107		i2745.d	5.00 ml	14-JAN-2009 18:00	1.000	JCK	28
20901090869		i2746.d	5.00 ml	14-JAN-2009 18:23	1.000	JCK	29
20901133108		i2747.d	5.00 ml	14-JAN-2009 18:45	1.000	JCK	30
20901133109		i2748.d	5.00 ml	14-JAN-2009 19:08	10.000	JCK	31
20901133110		i2749.d	5.00 ml	14-JAN-2009 19:31	25.000	JCK	32
20901133112		i2750.d	5.00 ml	14-JAN-2009 19:54	1.000	JCK	33
20901133113		i2751.d	5.00 ml	14-JAN-2009 20:16	1.000	JCK	34
BLANK		i2752.d	5.00 ml	14-JAN-2009 20:39	1.000	JCK	35
BLANK		i2753.d	5.00 ml	14-JAN-2009 21:02	1.000	JCK	36

TUNE = 21:18

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 15-JAN-2009
Instrument: msv5.i
Analyst(s): JCK

Standard	Conc ppm	
Int. Standard	50	6-42-9
Surrogate	50	6-42-8
8260	50	6-43-1
Ac/Ac/VA	250/50	6-42-10
CVE	50	6-42-3

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		i2778.d	0.00 ml	15-JAN-2009 17:06	1.000	JCK	2
1400		i2779.d	5.00 ml	15-JAN-2009 17:43	1.000	JCK	1
686235		i2779L.d	5.00 ml	15-JAN-2009 17:43	1.000	JCK	1
686236		i2780.d	5.00 ml	15-JAN-2009 18:06	1.000	JCK	2
MB		i2781.d	5.00 ml	15-JAN-2009 18:29	1.000	JCK	3
686234		i2782.d	5.00 ml	15-JAN-2009 18:52	1.000	JCK	4
20901142402		i2783.d	5.00 ml	15-JAN-2009 19:19	1.000	JCK	5
20901142401		i2784.d	5.00 ml	15-JAN-2009 19:42	1.000	JCK	6
20901142403		i2785ms.d	5.00 ml	15-JAN-2009 20:17	1.000	JCK	7
20901142404		i2786msd.d	5.00 ml	15-JAN-2009 20:39	1.000	JCK	8
BLANK		i2787.d	5.00 ml	15-JAN-2009 21:02	1.000	JCK	9
20901142405		i2788.d	5.00 ml	15-JAN-2009 21:25	1.000	JCK	10
20901142406		i2789.d	5.00 ml	15-JAN-2009 21:48	1.000	JCK	11
20901142407		i2790.d	5.00 ml	15-JAN-2009 22:11	1.000	JCK	12
20901142408		i2791.d	5.00 ml	15-JAN-2009 22:33	1.000	JCK	13
20901145801		i2792.d	5.00 ml	15-JAN-2009 22:56	1.000	JCK	14
20901145802		i2793.d	5.00 ml	15-JAN-2009 23:19	1.000	JCK	15
20901145803		i2794.d	5.00 ml	15-JAN-2009 23:42	1.000	JCK	16
20901152301		i2795.d	5.00 ml	16-JAN-2009 00:04	1.000	JCK	17
20901145701		i2796.d	5.00 ml	16-JAN-2009 00:27	20.000	JCK	18
20901145601		i2797.d	5.00 ml	16-JAN-2009 00:51	10000.000	JCK	19

TUNE = 05:06

PBW/4482/20901424/1-23-9

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

PASTOR, BEHLING & WHEELER, LLC

1256

COC No.

X Round Rock Office
2201 Double Creek Drive, Suite 4004
Round Rock, TX 78664
Tel: (512)671-3434
Fax: (512)671-3446

☐ Port Lavaca Office
131 N. Virginia, Suite B
Port Lavaca, TX 77979
Tel: (361)553-6442
Fax: (361)553-6449

☐ Texarkana Office
2407 Moores Lane
Texarkana, TX 75503
Tel: (903)794-0625
Fax: (903)794-0626

PROJECT NO.: 1352-H4 PROJECT NAME: GULFCO MARINE PAGE: 1 OF: 1

SAMPLER (Signature): John Brayton PROJECT MANAGER: ERIC PASTOR DATE: 1-13-09

METHOD OF SHIPMENT: FEDEX CARRIER/WAYBILL NO.: DESTINATION: GCAL

SAMPLES														ANALYSIS REQUEST								
		Sample Collection			Preservation						Containers			Constituents/Methods					Handling			Remarks
Lab No.	Field Sample Identification	DATE	TIME	Matrix*	HCl	HNO_3	H_2SO_4	COLD		FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	SEE ATTACHED					HOLD	RUSH	STANDARD	
	OCPT-5	1/13/09	1000	AQ	X						40ML	G	3	X							X	1
	NE4MW32C		0915	AQ	X						40ML	G	3	X							X	2
	NE4MW32C MS		0915	AQ	X						40ML	G	3	X							X	3
	NE4MW32C MSD		0915	AQ	X						40ML	G	3	X							X	4
	MW-1000		0915	AQ	X						40ML	G	3	X							X	5
	TRIP BLANK		—	AQ	X						40ML	G	3	X							X	6
	GW-011309-EB		1020	AQ	X						40ML	G	3	X							X	7
	GW-011309-FB		1030	AQ	X						40ML	G	3	X							X	8
						TOTAL NUMBER OF CONTAINERS								LABORATORY COMMENTS/CONDITION OF SAMPLES								Cooler Temp:

RELINQUISHED BY:			DATE	TIME	RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY			SIGNATURE	PRINTED NAME	COMPANY
John Brayton	JOHN BRAYTON	PBW	1-13-09	1800			
Fedex			1-14-9	~~0:5~~ 10:K		Michelle Rabern	GCAL
							LABORATORY

*KEY: Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

3-3

TABLE 3 - PROPOSED GROUNDWATER SAMPLE ANALYSES

Sample Location	Analytical Parameter
OCPT5 NE4MW32C	1,1,1-Trichloroethane 1,1-Dichloroethene 1,2,3-Trichloropropane 1,2-Dichloroethane Benzene Carbon tetrachloride cis-1,2-Dichloroethene Methylene chloride Tetrachloroethene Trichloroethene Vinyl chloride

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	209011424	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	Gulfco Marine Maintenance Site	**Status:**	WP
Project Seq:	83978	**Created:**	1/14/2009 11:01
Client:	4482 - Pastor, Behling, & Wheeler	**QA:**	
Profile:	78418 - GULFCO - Gulfco Marine Maintenance Site	**PO:**	1352

WORKORDER SAMPLES

			pH PRESERVATIVE			VOA HEADSPACE			
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20901142401-1	40	HCL			✓	✓			OK
20901142401-2	40	HCL			✓	✓			OK
20901142401-3	40	HCL			✓	✓			OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20901142402-1	40	HCL			✓	✓			OK
20901142402-2	40	HCL			✓	✓			OK
20901142402-3	40	HCL			✓	✓			OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20901142403-1	40	HCL			✓	✓			OK
20901142403-2	40	HCL			✓	✓			OK
20901142403-3	40	HCL			✓	✓			OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20901142404-1	40	HCL			✓	✓			OK
20901142404-2	40	HCL			✓	✓			OK
20901142404-3	40	HCL			✓	✓			OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20901142405-1	40	HCL			✓	✓			OK
20901142405-2	40	HCL			✓	✓			OK
20901142405-3	40	HCL			✓	✓			OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20901142406-1	40	HCL			✓	✓			OK
20901142406-2	40	HCL			✓	✓			OK
20901142406-3	40	HCL			✓	✓			OK

Container ID	Type	Preservative	pH PRESERVATIVE A	U	N\A	VOA HEADSPACE A	U	N\A	CONTAINER CONDITION
20901142407-1	40	HCL			✓	✓			OK
20901142407-2	40	HCL			✓	✓			OK
20901142407-3	40	HCL			✓	✓			OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20901142408-1	40	HCL			✓	✓			OK
20901142408-2	40	HCL			✓	✓			OK
20901142408-3	40	HCL			✓	✓			OK

A = ACCEPTABLE
U = UNACCEPTABLE
N\A = NOT APPLICABLE

COOLER (S) TEMPERATURE ✓ A U LIMIT = 4C + \ - 2C

MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

Custody Seal

used [ ] Yes [ ] No

in tact [ ] Yes [ ] No

LABEL(S) VERIFIED ✓ CUSTODIAN ✓