Matrix Spike Report

UNSPIKED SAMPLE
Data File : /chem/C.i/052804.b/c1135.d
Samp Info : GGMR01AP,0.20,D4E200184-004
Inj Date : 28-MAY-2004 07:58
Sample Amt : 0mL

SPIKE SAMPLE
Data File : /chem/C.i/052804.b/c1138.d
Samp Info : MS,0.20,D4E200184-004MS
Inj Date : 28-MAY-2004 08:58
Sample Amt : 0mL

SPIKE DUPLICATE SAMPLE
Data File : /chem/C.i/052804.b/c1139.d
Samp Info : MSD,0.20,D4E200184-004MSD
Inj Date : 28-MAY-2004 09:18
Sample Amt : 0mL

	Concentration				%Recovery					RPD	
	Sample	MS		MSD		Measured		Limits			
	Measured	Spiked	Measured	Spiked	Measured	MS	MSD	Min	Max	Mes	Max
1,1-Dichloroethene											
	0.0000	1000.0000	1182.9900	1000.0000	1130.5000	118	113	67	125	5	20
Trichloroethene											
	0.0000	1000.0000	1019.5800	1000.0000	992.8910	102	99	80	123	3	20
Benzene											
	22.8474	1000.0000	1046.7600	1000.0000	1026.5500	102	100	75	116	2	20
Toluene											
	273.8380	1000.0000	1339.8300	1000.0000	1346.1600	107	107	74	115	0	20
Chlorobenzene											
	0.0000	1000.0000	1008.3100	1000.0000	997.3430	101	100	77	117	1	20

100.0 Percent of recoveries are within control limits.
100.0 Percent of RPD values are within control limits.

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052804.b/c1140.d
Lab Smp Id: GGTFK1AA Client Smp ID: TB-2
Inj Date : 28-MAY-2004 09:41
Operator : yanezj Inst ID: C.i
Smp Info : GGTFK1AA,,D4E210325-007
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/C.i/052804.b/C-20ml-AQ.m
Meth Date : 28-May-2004 07:12 yanezj Quant Type: ISTD
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

05/29/04

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 56 Fluorobenzene	96	4.113	4.106	(1.000)	1670238	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	255593	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.720	(1.000)	286024	10.0000	
$ 48 Dibromofluoromethane	111	3.242	3.236	(0.788)	291833	8.23948	8.23948
$ 52 1,2-Dichloroethane-d4	65	3.683	3.677	(0.896)	297576	7.85441	7.85441
$ 69 Toluene-d8	98	6.083	6.082	(0.804)	1349800	9.25150	9.25150
$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	367638	8.35805	8.35804
1 dichlorodifluoromethane	85.00	Compound Not Detected.					
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
3 Chloromethane	50.00	Compound Not Detected.					
4 Vinyl Chloride	62.00	Compound Not Detected.					
5 Ethylene Oxide	43.00	Compound Not Detected.					
6 Bromomethane	94.00	Compound Not Detected.					
7 Chloroethane	64.00	Compound Not Detected.					
8 Dichlorofluoromethane	67.00	Compound Not Detected.					
9 Trichlorofluoromethane	101.00	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	10 Ethanol	45.00	Compound Not Detected.					
	11 Ethyl Ether	59.00	Compound Not Detected.					
M	12 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
	13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
	14 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
	15 Acrolein	56.00	Compound Not Detected.					
	16 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
	17 1,1-Dichloroethene	96.00	Compound Not Detected.					
M	18 Xylene (total)	106.00	Compound Not Detected.					
	19 Acetone	43.00	Compound Not Detected.					
	20 Iodomethane	142.00	Compound Not Detected.					
	21 Carbon Disulfide	76.00	Compound Not Detected.					
	22 2-Propanol	45.00	Compound Not Detected.					
	23 Allyl Chloride	41.00	Compound Not Detected.					
	24 Methyl acetate	43.00	Compound Not Detected.					
	25 Acetonitrile	41.00	Compound Not Detected.					
	26 Methylene Chloride	84	1.754	1.755	(0.426)	19926	0.52704	0.527036(a)
	27 tert-Butyl alcohol	59.00	Compound Not Detected.					
	28 Methyl t-butyl ether	73.00	Compound Not Detected.					
	29 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
	30 Acrylonitrile	53.00	Compound Not Detected.					
	31 Hexane	57.00	Compound Not Detected.					
	32 1,1-Dichloroethane	63.00	Compound Not Detected.					
	33 Isopropyl ether	87.00	Compound Not Detected.					
	34 Chloroprene	53.00	Compound Not Detected.					
	35 Vinyl acetate	43.00	Compound Not Detected.					
	36 ETBE	59.00	Compound Not Detected.					
	37 2,2-Dichloropropane	77.00	Compound Not Detected.					
	38 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
	39 2-Butanone	43.00	Compound Not Detected.					
	40 Ethyl Acetate	43.00	Compound Not Detected.					
	41 Propionitrile	54.00	Compound Not Detected.					
	42 Bromochloromethane	128.00	Compound Not Detected.					
	43 Tetrahydrofuran	42.00	Compound Not Detected.					
	44 Methacrylonitrile	41.00	Compound Not Detected.					
	45 Chloroform	83.00	Compound Not Detected.					
	46 Cyclohexane	56.00	Compound Not Detected.					
	47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
	49 Carbon Tetrachloride	117.00	Compound Not Detected.					
	50 1,1-Dichloropropene	75.00	Compound Not Detected.					
	51 Benzene	78.00	Compound Not Detected.					
	53 Isobutanol	41.00	Compound Not Detected.					
	54 1,2-Dichloroethane	62.00	Compound Not Detected.					
	55 TAME	73.00	Compound Not Detected.					
	57 Trichloroethene	130.00	Compound Not Detected.					
	58 Methyl cyclohexane	55.00	Compound Not Detected.					
	59 n-Butanol	56.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
60 1,2-Dichloropropane	63.00	Compound Not Detected.					
61 2-Pentanone	43.00	Compound Not Detected.					
62 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88.00	Compound Not Detected.					
64 Methyl Methacrylate	100.00	Compound Not Detected.					
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
70 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91	6.149	6.148	(0.813)	19697	0.10211	0.102109(a)
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
75 Tetrachloroethene	164.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrahydrothiophene	60.00	Compound Not Detected.					
78 2-Hexanone	43.00	Compound Not Detected.					
79 Dibromochloromethane	129.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
82 Chlorobenzene	112.00	Compound Not Detected.					
83 1-Chlorohexane	91.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 Cyclohexanone	55.00	Compound Not Detected.					
92 cis-1,4-dichloro-2-butene	53.00	Compound Not Detected.					
94 Bromobenzene	156.00	Compound Not Detected.					
95 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
97 n-Propylbenzene	120.00	Compound Not Detected.					
98 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 4-Chlorotoluene	126.00	Compound Not Detected.					
101 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
105 m-Dichlorobenzene	146.00	Compound Not Detected.					
106 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 o-Dichlorobenzene	146.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
111 n-Butylbenzene	91.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Naphthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

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VOLATILE REPORT SW-846

Data file : /chem/C.i/052804.b/c1140.d
Lab Smp Id: GGTFK1AA Client Smp ID: TB-2
Inj Date : 28-MAY-2004 09:41
Operator : yanezj Inst ID: C.i
Smp Info : GGTFK1AA,,D4E210325-007
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/C.i/052804.b/C-20ml-AQ.m
Meth Date : 28-May-2004 07:12 yanezj Quant Type: ISTD
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
* 107 1,4-Dichlorobenzene-d4	9.720	2193337	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Acetic acid, 2-ethylhexyl ester				CAS #: 103-09-3			
11.014	538411	2.45475729	2.45476	91	NBS75K.1	15793	107
Unknown				CAS #:			
11.696	251841	1.14820933	1.14821	0		0	107

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: C.i
Lab File ID: c1140.d
Lab Smp Id: GGTFK1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/C.i/052804.b/C-20ml-AQ.m
Misc Info:

Calibration Date: 05/28/4
Calibration Time: 0644
Client Smp ID: TB-2
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1480865	740432	2961730	1670238	12.79
81 Chlorobenzene-d5	202798	101399	405596	255593	26.03
107 1,4-Dichlorobenze	221202	110601	442404	286024	29.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.16
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	0.01

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

STL Denver

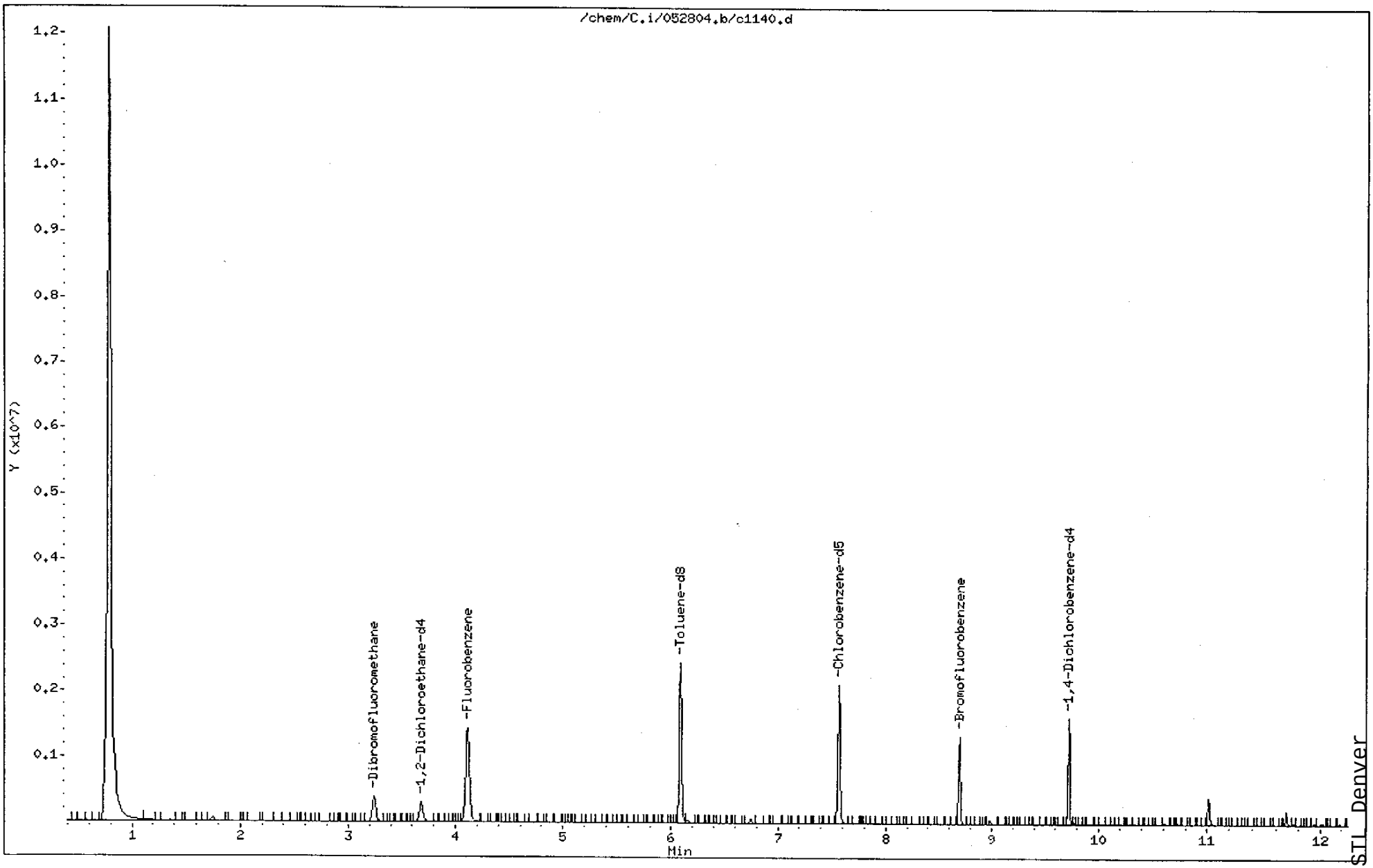
RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTFK1AA
Client Smp ID: TB-2
Level: LOW
Operator: yanezj
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs-h20.spk
Quant Type: ISTD
Sublist File: QK-01.sub
Method File: /chem/C.i/052804.b/C-20ml-AQ.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 48 Dibromofluorometha	8.75000	8.23948	94.17	76-116
$ 52 1,2-Dichloroethane	8.75000	7.85441	89.76	59-129
$ 69 Toluene-d8	8.75000	9.25150	105.73	76-116
$ 93 Bromofluorobenzene	8.75000	8.35804	95.52	74-114

Data File: /chem/C.i/052804.b/c1140.d
Date : 28-MAY-2004 09:41
Client ID: TB-2
Sample Info: CGTFK1AA,,D4E210325-007
Purge Volume: 20.0
Column phase: DB624

Instrument: C.i
Operator: yanezj
Column diameter: 0.53



Data File: /chem/C.i/052804.b/c1140.d

Date : 28-MAY-2004 09:41

Client ID: TB-2

Instrument: C.i

Sample Info: GGTFK1AA,,D4E210325-007

Purge Volume: 20.0

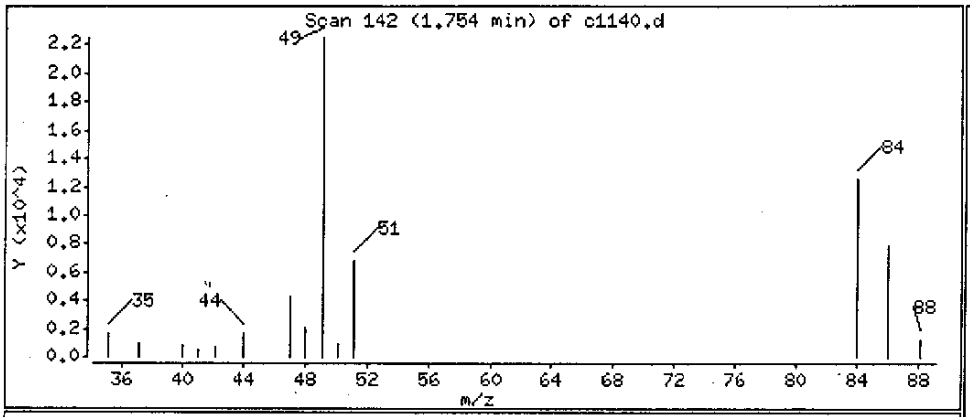
Operator: yanezj

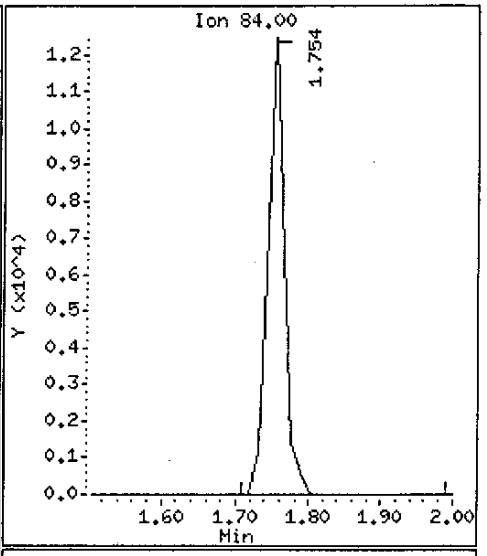
Column phase: DB624

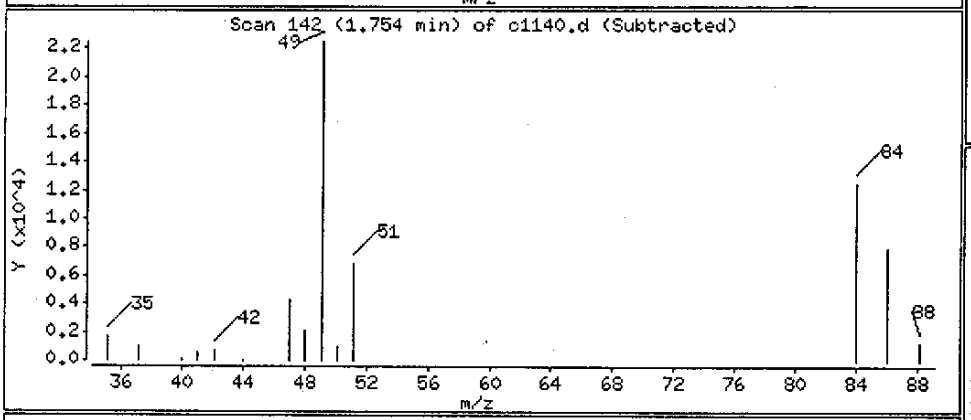
Column diameter: 0.53

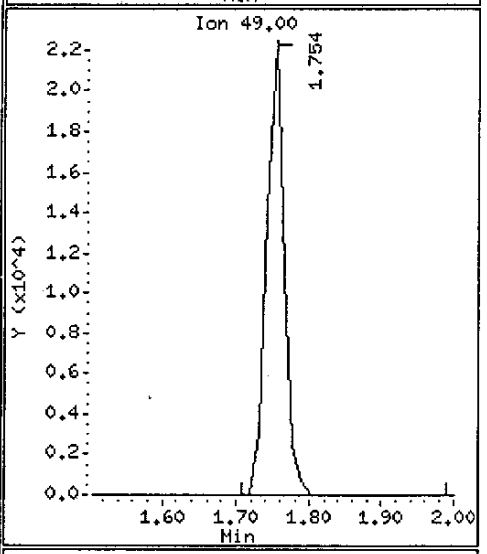
26 Methylene Chloride

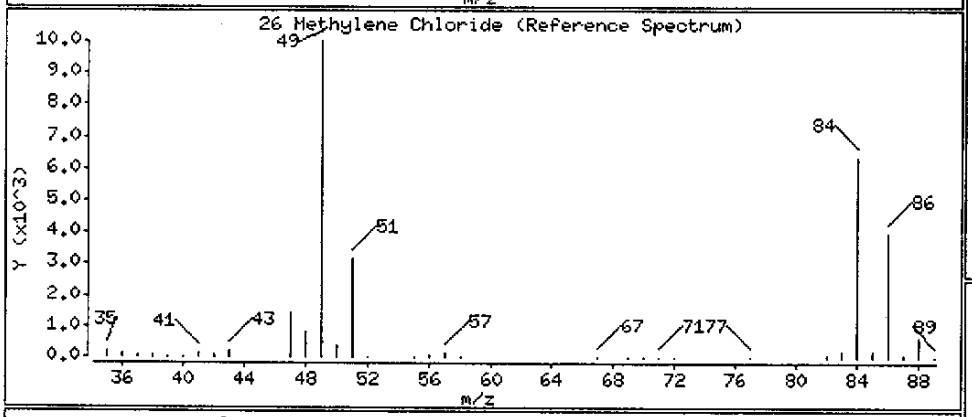
Concentration: 0.527036 ug/L

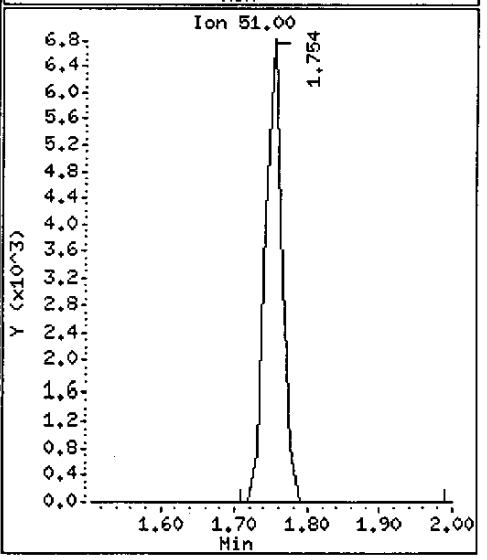


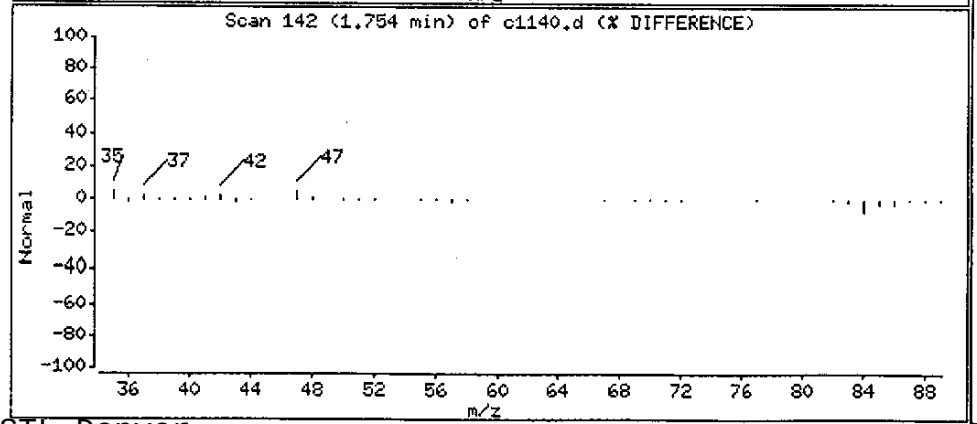












Data File: /chem/C.i/052804.b/c1140.d

Date : 28-MAY-2004 09:41

Client ID: TB-2

Instrument: C.i

Sample Info: GGTFK1AA,,D4E210325-007

Purge Volume: 20.0

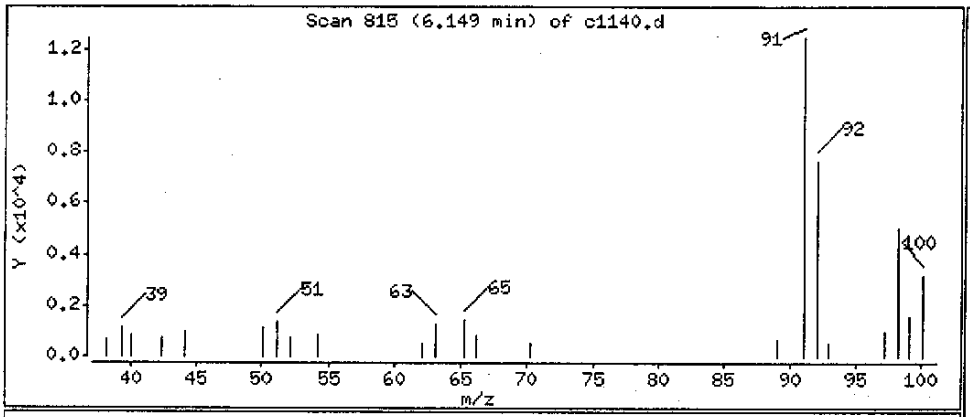
Operator: yanezj

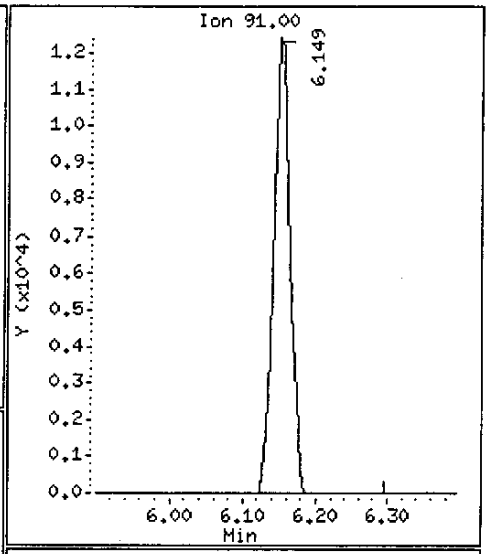
Column phase: DB624

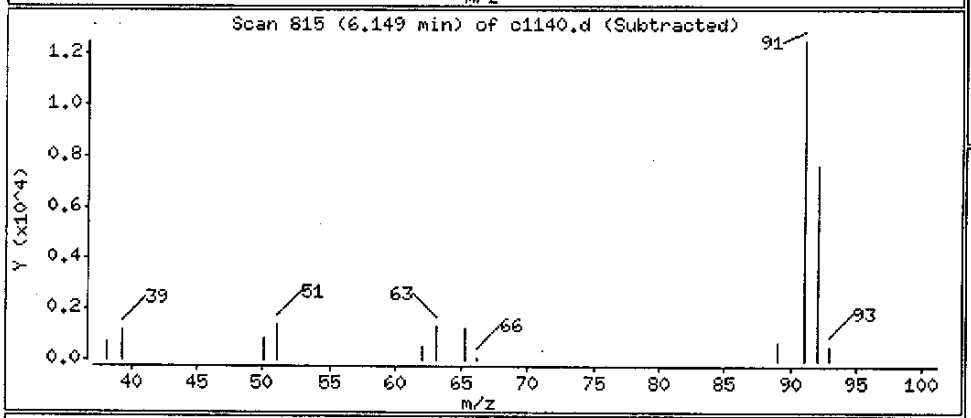
Column diameter: 0.53

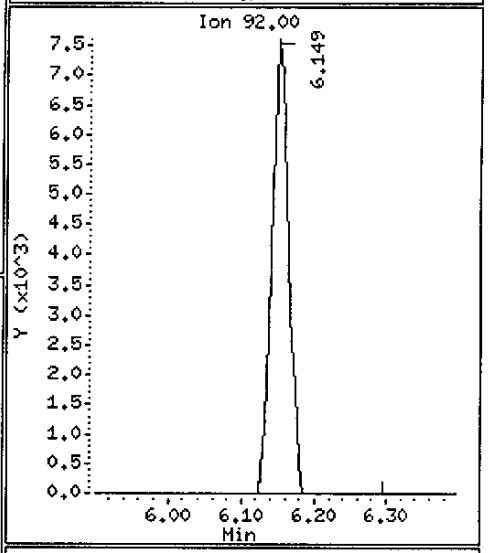
71 Toluene

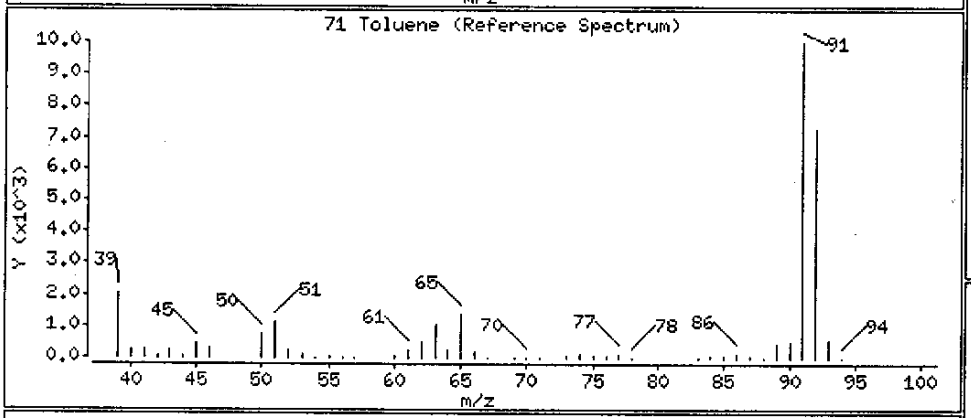
Concentration: 0.102109 ug/L

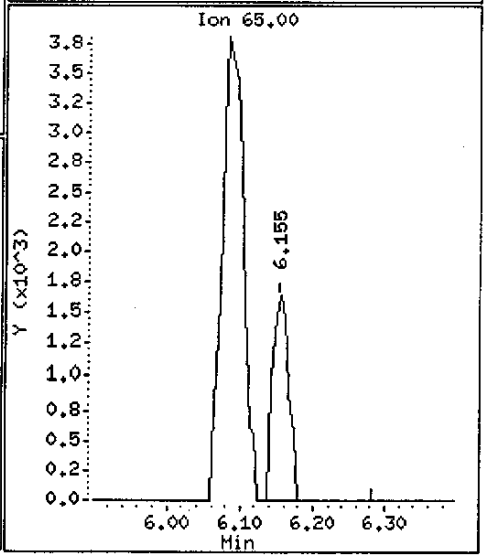


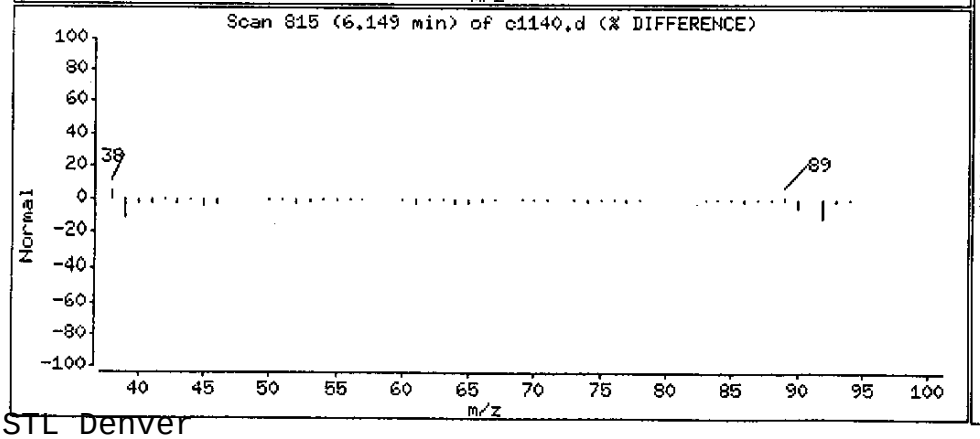












Data File: /chem/C.i/052804.b/c1140.d

Date : 28-MAY-2004 09:41

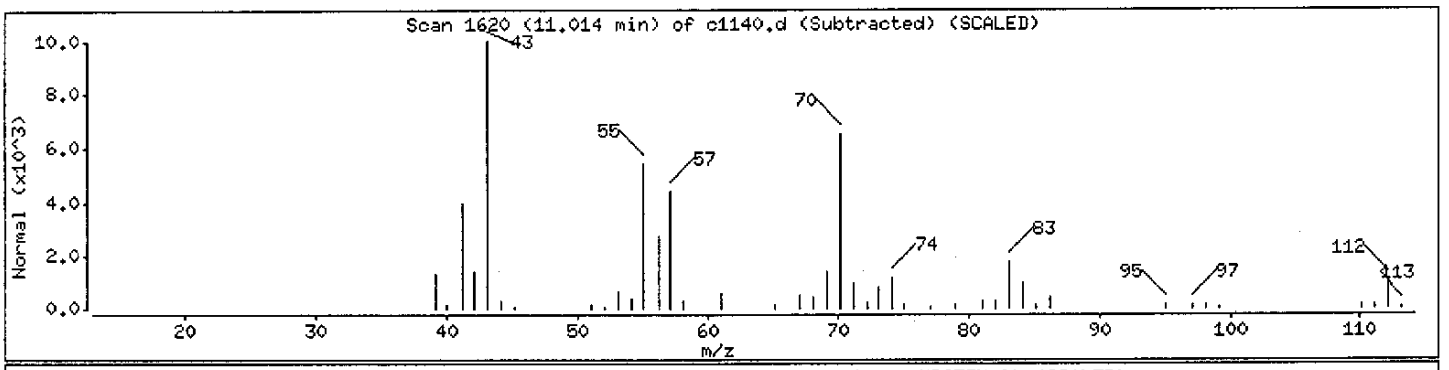
Client ID: TB-2 Instrument: C.i

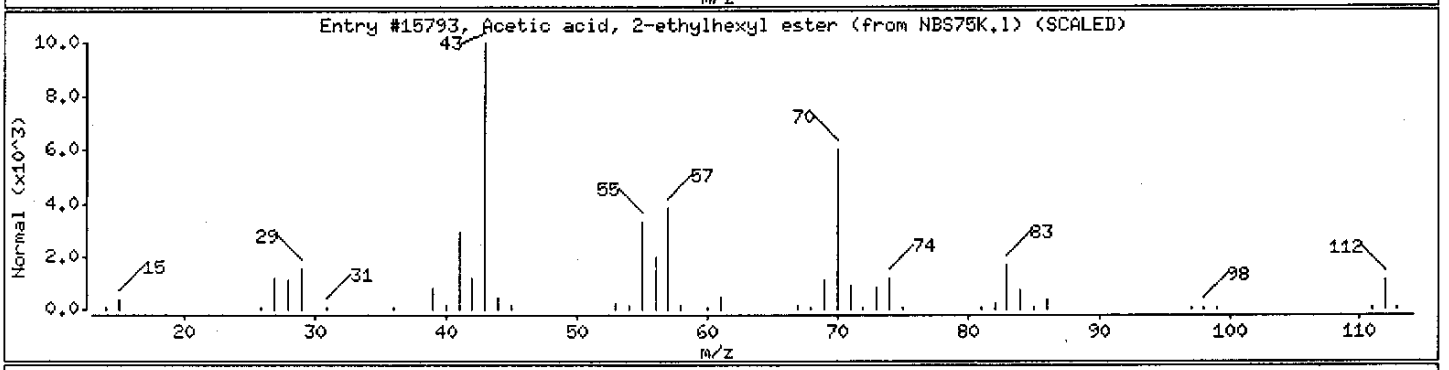
Sample Info: GGTFK1AA,,D4E210325-007

Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.l	15793	91	C10H2002	172





Data File: /chem/C.i/052804.b/c1140.d

Date : 28-MAY-2004 09:41

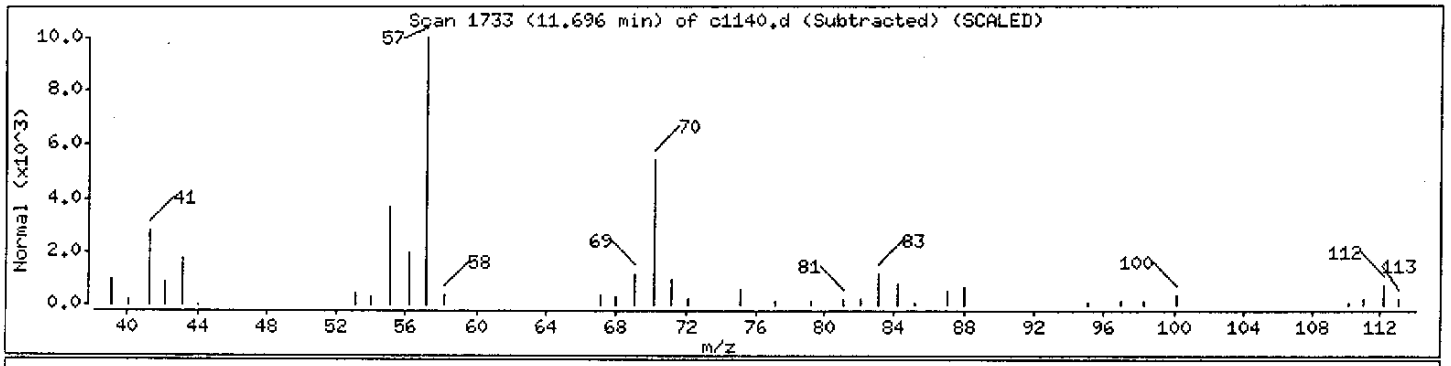
Client ID: TB-2 Instrument: C.i

Sample Info: GGTFK1AA,,D4E210325-007

Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052804.b/c1143.d
Lab Smp Id: GGTF61AA Client Smp ID: TRIP BLANK
Inj Date : 28-MAY-2004 10:41
Operator : yanezj Inst ID: C.i
Smp Info : GGTF61AA,,D4E210325-011
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/C.i/052804.b/C-20ml-AQ.m
Meth Date : 28-May-2004 07:12 yanezj Quant Type: ISTD
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

05/29/04

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 56 Fluorobenzene	96	4.107	4.106	(1.000)	1213396	10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.563	(1.000)	190667	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.720	(1.000)	235368	10.0000	
$ 48 Dibromofluoromethane	111	3.237	3.236	(0.788)	220619	8.57401	8.57401
$ 52 1,2-Dichloroethane-d4	65	3.678	3.677	(0.896)	226652	8.23476	8.23476
$ 69 Toluene-d8	98	6.083	6.082	(0.804)	968712	8.90042	8.90042
$ 93 Bromofluorobenzene	95	8.694	8.693	(1.149)	272014	8.28989	8.28989
1 dichlorodifluoromethane	85.00	Compound Not Detected.					
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
3 Chloromethane	50	0.930	0.921	(0.226)	4062	0.11718	0.117184(a)
4 Vinyl Chloride	62.00	Compound Not Detected.					
5 Ethylene Oxide	43.00	Compound Not Detected.					
6 Bromomethane	94.00	Compound Not Detected.					
7 Chloroethane	64.00	Compound Not Detected.					
8 Dichlorofluoromethane	67.00	Compound Not Detected.					
9 Trichlorofluoromethane	101.00	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	10 Ethanol	45.00	Compound Not Detected.					
	11 Ethyl Ether	59.00	Compound Not Detected.					
M	12 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
	13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
	14 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
	15 Acrolein	56.00	Compound Not Detected.					
	16 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
	17 1,1-Dichloroethene	96.00	Compound Not Detected.					
M	18 Xylene (total)	106.00	Compound Not Detected.					
	19 Acetone	43.00	Compound Not Detected.					
	20 Iodomethane	142.00	Compound Not Detected.					
	21 Carbon Disulfide	76.00	Compound Not Detected.					
	22 2-Propanol	45.00	Compound Not Detected.					
	23 Allyl Chloride	41.00	Compound Not Detected.					
	24 Methyl acetate	43.00	Compound Not Detected.					
	25 Acetonitrile	41.00	Compound Not Detected.					
	26 Methylene Chloride	84	1.752	1.755	(0.427)	18260	0.66481	0.664808(a)
	27 tert-Butyl alcohol	59.00	Compound Not Detected.					
	28 Methyl t-butyl ether	73.00	Compound Not Detected.					
	29 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
	30 Acrylonitrile	53.00	Compound Not Detected.					
	31 Hexane	57.00	Compound Not Detected.					
	32 1,1-Dichloroethane	63.00	Compound Not Detected.					
	33 Isopropyl ether	87.00	Compound Not Detected.					
	34 Chloroprene	53.00	Compound Not Detected.					
	35 Vinyl acetate	43.00	Compound Not Detected.					
	36 ETBE	59.00	Compound Not Detected.					
	37 2,2-Dichloropropane	77.00	Compound Not Detected.					
	38 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
	39 2-Butanone	43.00	Compound Not Detected.					
	40 Ethyl Acetate	43.00	Compound Not Detected.					
	41 Propionitrile	54.00	Compound Not Detected.					
	42 Bromochloromethane	128.00	Compound Not Detected.					
	43 Tetrahydrofuran	42.00	Compound Not Detected.					
	44 Methacrylonitrile	41.00	Compound Not Detected.					
	45 Chloroform	83.00	Compound Not Detected.					
	46 Cyclohexane	56.00	Compound Not Detected.					
	47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
	49 Carbon Tetrachloride	117.00	Compound Not Detected.					
	50 1,1-Dichloropropene	75.00	Compound Not Detected.					
	51 Benzene	78.00	Compound Not Detected.					
	53 Isobutanol	41.00	Compound Not Detected.					
	54 1,2-Dichloroethane	62.00	Compound Not Detected.					
	55 TAME	73.00	Compound Not Detected.					
	57 Trichloroethene	130.00	Compound Not Detected.					
	58 Methyl cyclohexane	55.00	Compound Not Detected.					
	59 n-Butanol	56.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
60 1,2-Dichloropropane	63.00	Compound Not Detected.					
61 2-Pentanone	43.00	Compound Not Detected.					
62 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88.00	Compound Not Detected.					
64 Methyl Methacrylate	100.00	Compound Not Detected.					
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
70 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91.00	Compound Not Detected.					
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
75 Tetrachloroethene	164.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrahydrothiophene	60.00	Compound Not Detected.					
78 2-Hexanone	43.00	Compound Not Detected.					
79 Dibromochloromethane	129.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
82 Chlorobenzene	112.00	Compound Not Detected.					
83 1-Chlorohexane	91.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 Cyclohexanone	55.00	Compound Not Detected.					
92 cis-1,4-dichloro-2-butene	53.00	Compound Not Detected.					
94 Bromobenzene	156.00	Compound Not Detected.					
95 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
97 n-Propylbenzene	120.00	Compound Not Detected.					
98 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 4-Chlorotoluene	126.00	Compound Not Detected.					
101 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
105 m-Dichlorobenzene	146.00	Compound Not Detected.					
106 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 o-Dichlorobenzene	146.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 n-Butylbenzene	91.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Naphthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052804.b/c1143.d
Lab Smp Id: GGTF61AA Client Smp ID: TRIP BLANK
Inj Date : 28-MAY-2004 10:41
Operator : yanezj Inst ID: C.i
Smp Info : GGTF61AA,,D4E210325-011
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/C.i/052804.b/C-20ml-AQ.m
Meth Date : 28-May-2004 07:12 yanezj Quant Type: ISTD
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
* 107 1,4-Dichlorobenzene-d4	9.721	1831749	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
8.984	226007	1.23383171	1.23383	90	NBS75K.1	41966	107
Cyclopentane, 1,2,3-trimethyl-, (1.alpha				CAS #: 2613-69-6			
11.014	730139	3.98602101	3.98602	81	NBS75K.1	64045	107
Unknown				CAS #:			
11.697	383719	2.09482304	2.09482	0		0	107

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Heneicosane				CAS #: 629-94-7			
11.794	219606	1.19888697	1.19889	91	NBS75K.1	42201	107

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: C.i
Lab File ID: c1143.d
Lab Smp Id: GGTF61AA
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/C.i/052804.b/C-20ml-AQ.m
Misc Info:

Calibration Date: 05/28/4
Calibration Time: 0644
Client Smp ID: TRIP BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1480865	740432	2961730	1213396	-18.06
81 Chlorobenzene-d5	202798	101399	405596	190667	-5.98
107 1,4-Dichlorobenze	221202	110601	442404	235368	6.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.03
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.02
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	0.01

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Sample Matrix: LIQUID
Lab Smp Id: GGTF61AA
Level: LOW
Data Type: MS DATA
SpikeList File: dcs-h20.spk
Sublist File: QK-01.sub
Method File: /chem/C.i/052804.b/C-20ml-AQ.m
Misc Info:

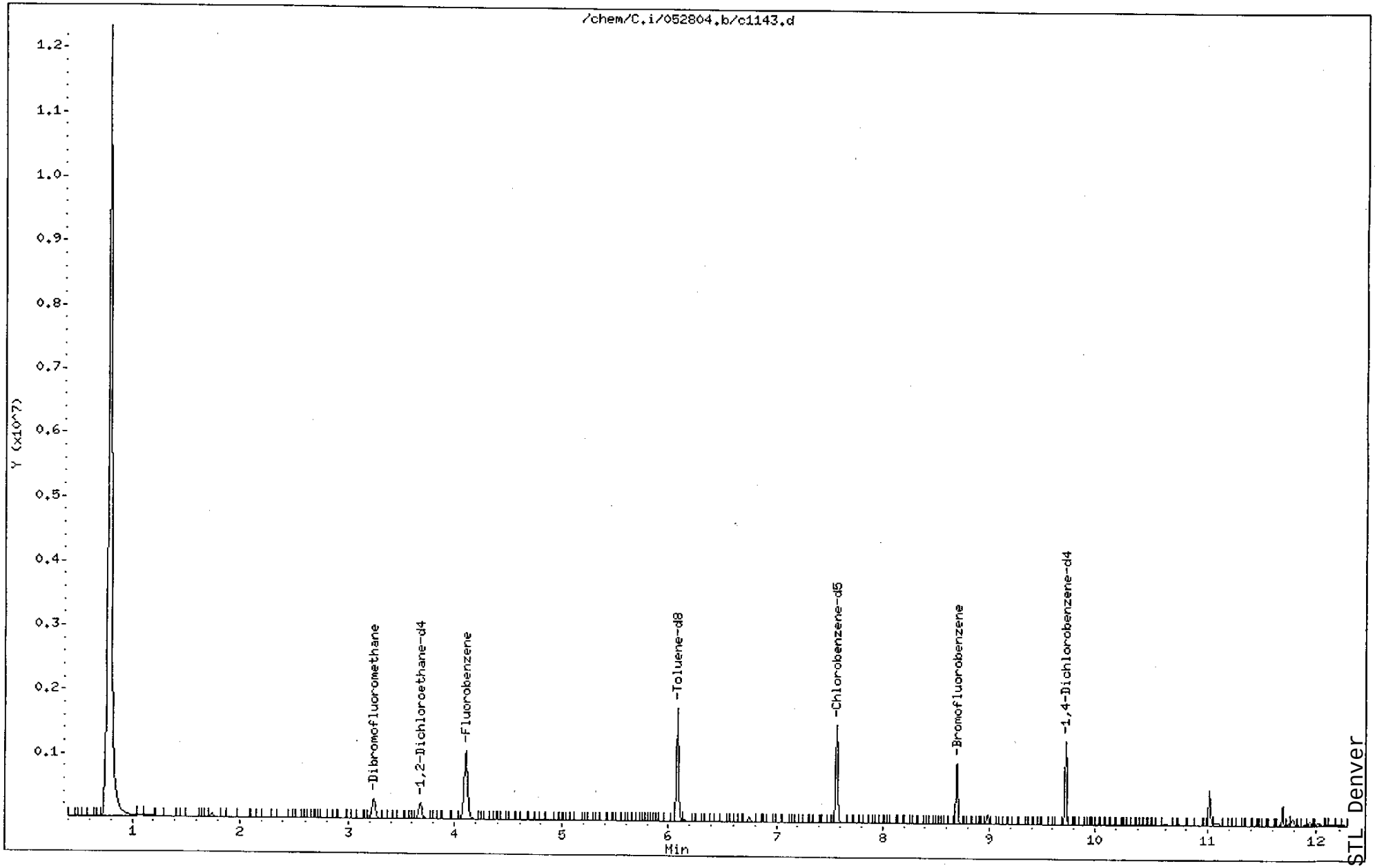
Client SDG: D4E210325
Fraction: VOA
Client Smp ID: TRIP BLANK
Operator: yanezj
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 48 Dibromofluorometha	8.75000	8.57401	97.99	76-116
$ 52 1,2-Dichloroethane	8.75000	8.23476	94.11	59-129
$ 69 Toluene-d8	8.75000	8.90042	101.72	76-116
$ 93 Bromofluorobenzene	8.75000	8.28989	94.74	74-114

Data File: /chem/C.i/052804.b/c1143.d
Date : 28-MAY-2004 10:41
Client ID: TRIP BLANK
Sample Info: GGTF61AA,,D4E210325-011
Purge Volume: 20.0
Column phase: DB624

Instrument: C.i

Operator: yanezj
Column diameter: 0.53



Data File: /chem/C.i/052804.b/c1143.d

Date : 28-MAY-2004 10:41

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGTF61AA,,D4E210325-011

Purge Volume: 20.0

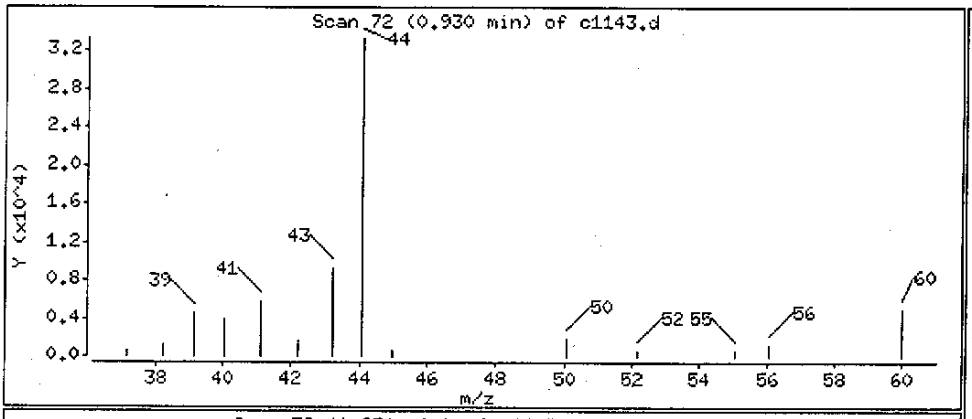
Operator: yanezj

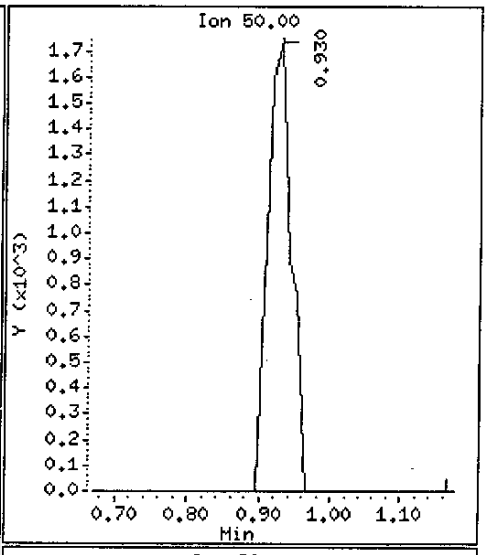
Column phase: DB624

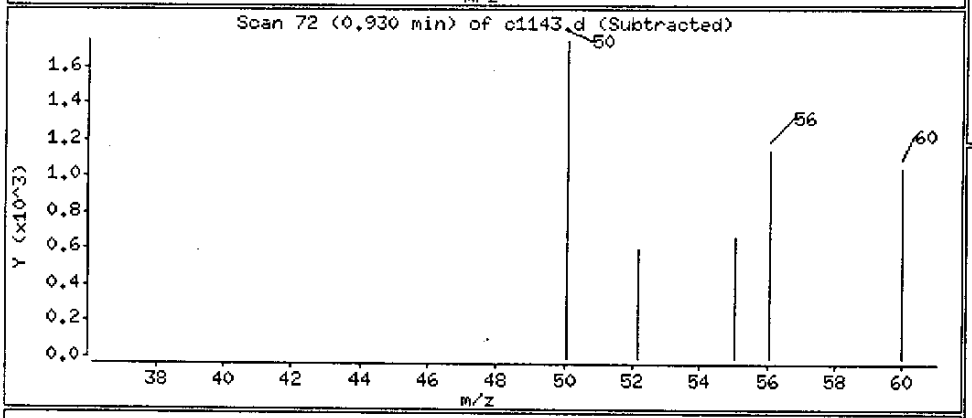
Column diameter: 0.53

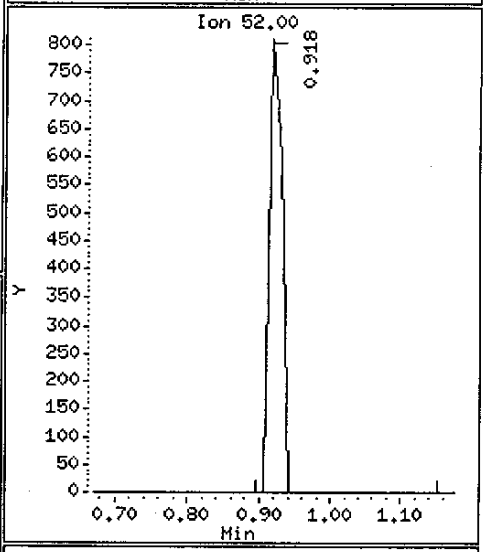
3 Chloromethane

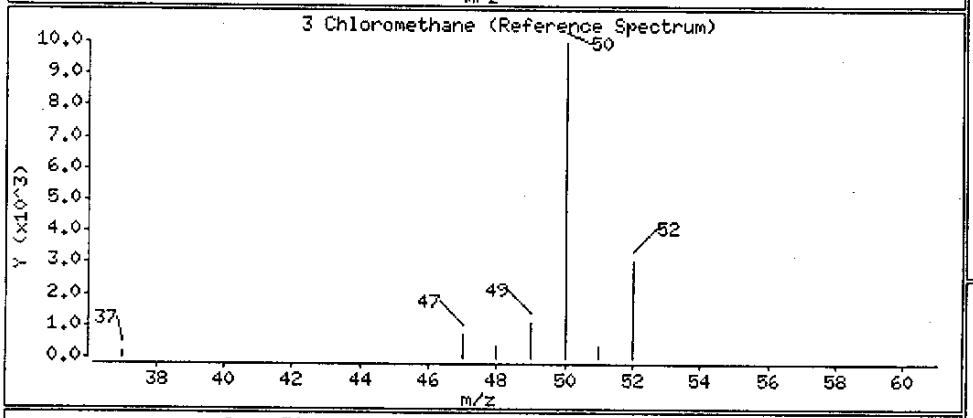
Concentration: 0.117184 ug/L

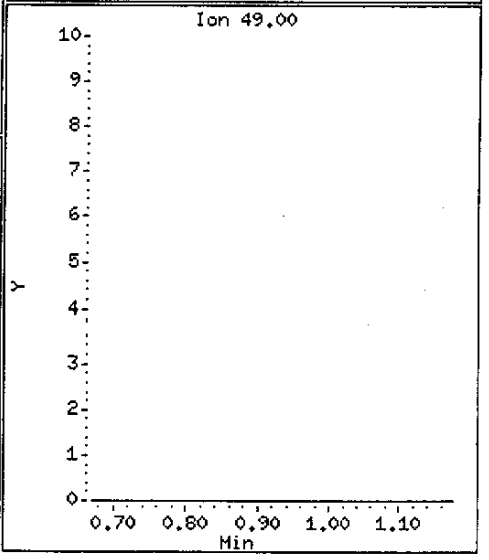


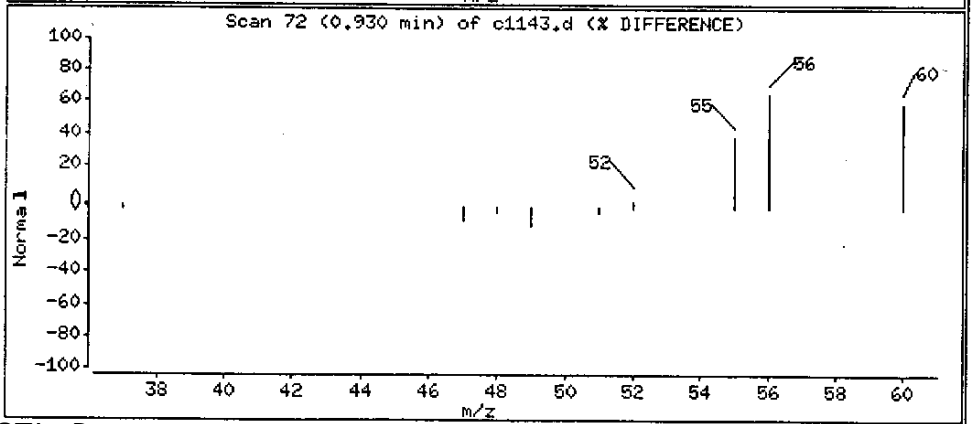












Data File: /chem/C.i/052804.b/c1143.d

Date : 28-MAY-2004 10:41

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGTF61AA,,D4E210325-011

Purge Volume: 20.0

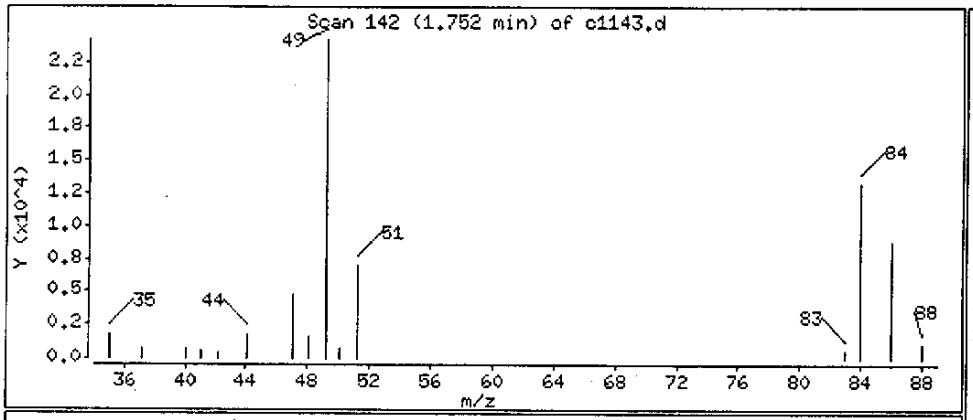
Operator: yanezj

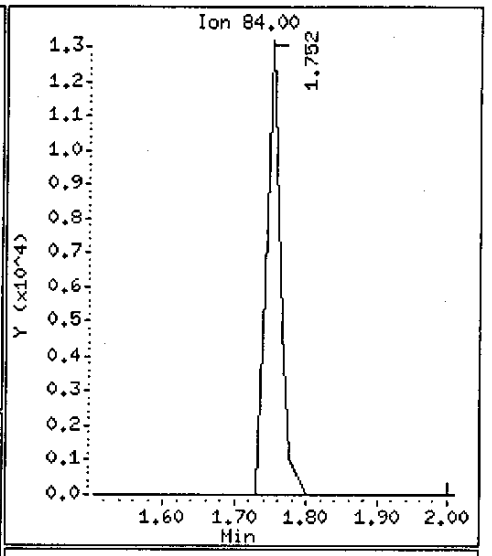
Column phase: DB624

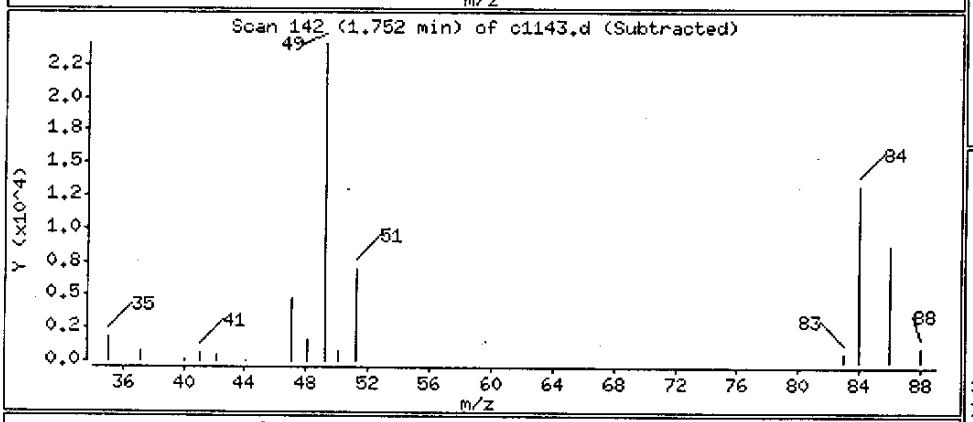
Column diameter: 0.53

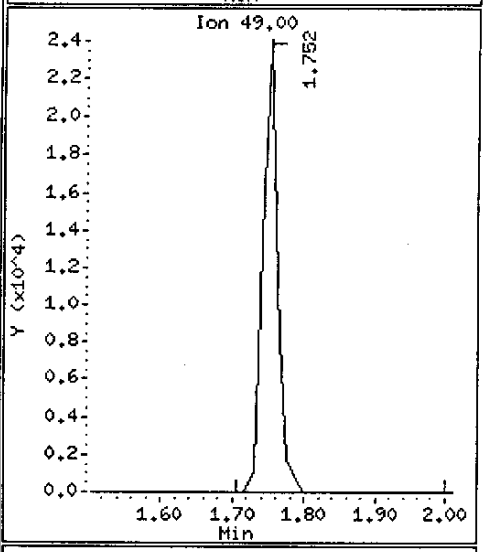
26 Methylene Chloride

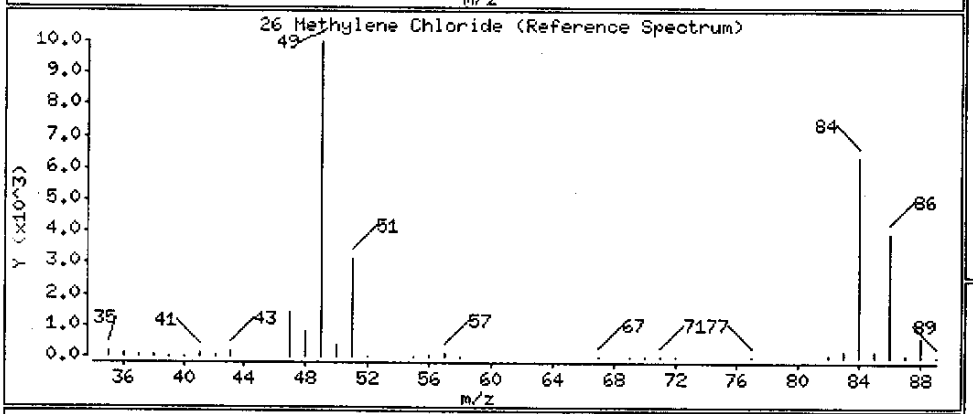
Concentration: 0.664808 ug/L

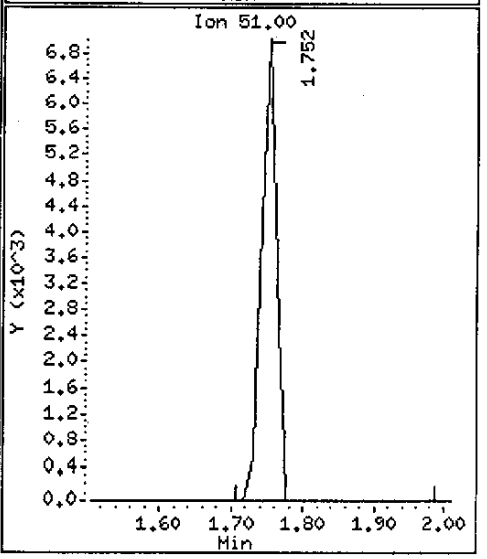


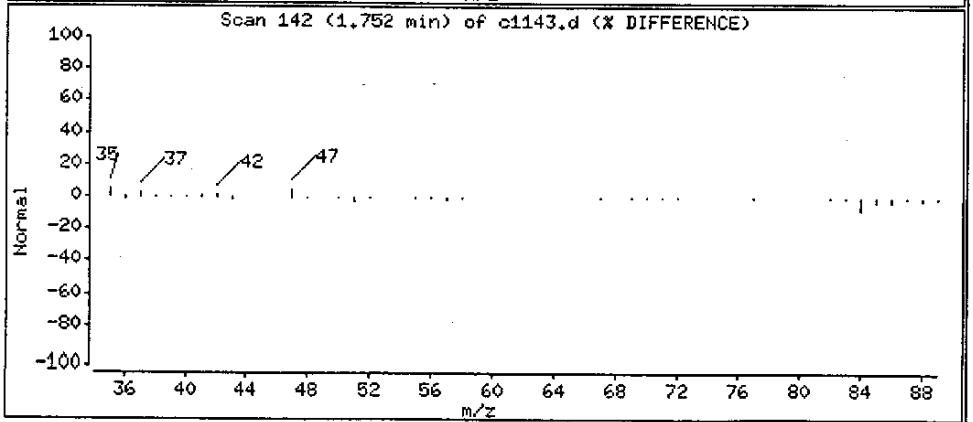












Data File: /chem/C.i/052804.b/c1143.d

Date : 28-MAY-2004 10:41

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGTF61AA,,D4E210325-011

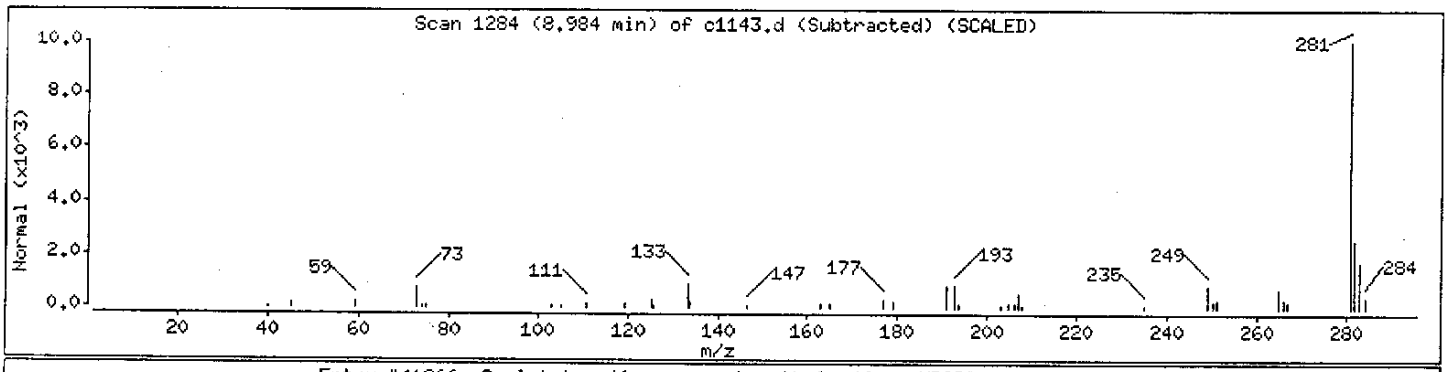
Purge Volume: 20.0

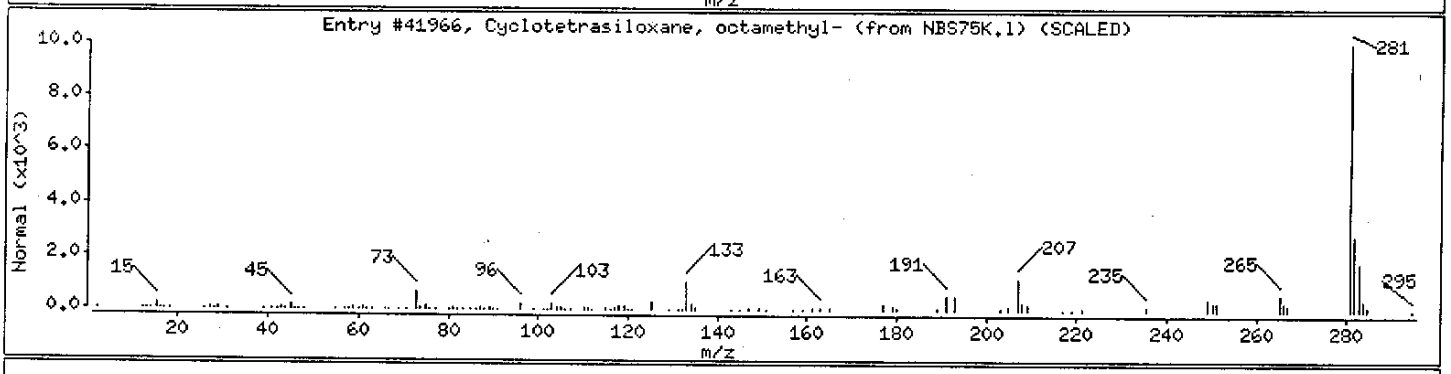
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.l	41966	90	C8H24O4Si4	296





Data File: /chem/C.i/052804.b/c1143.d

Date : 28-MAY-2004 10:41

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGTF61AA,,D4E210325-011

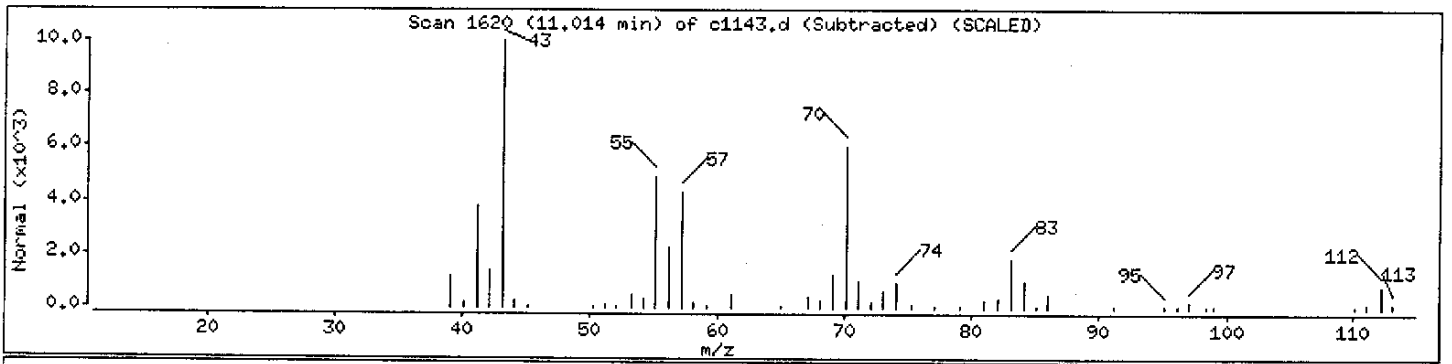
Purge Volume: 20.0

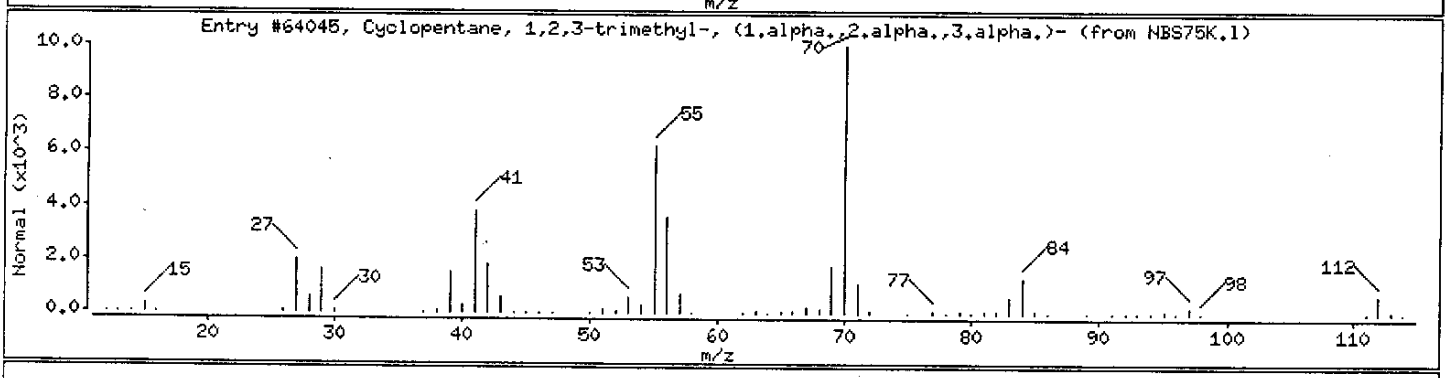
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, 1,2,3-trimethyl-, (1.alpha	2613-69-6	NBS75K.l	64045	81	C8H16	112





Data File: /chem/C.i/052804.b/c1143.d

Date : 28-MAY-2004 10:41

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GCTF61AA,,D4E210325-011

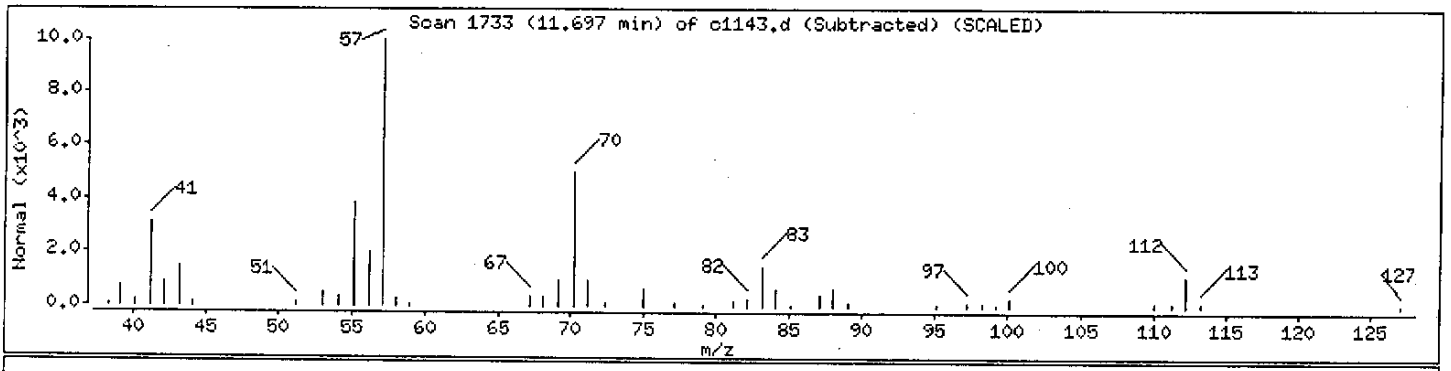
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/C.i/052804.b/c1143.d

Date : 28-MAY-2004 10:41

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGTF61AA,,D4E210325-011

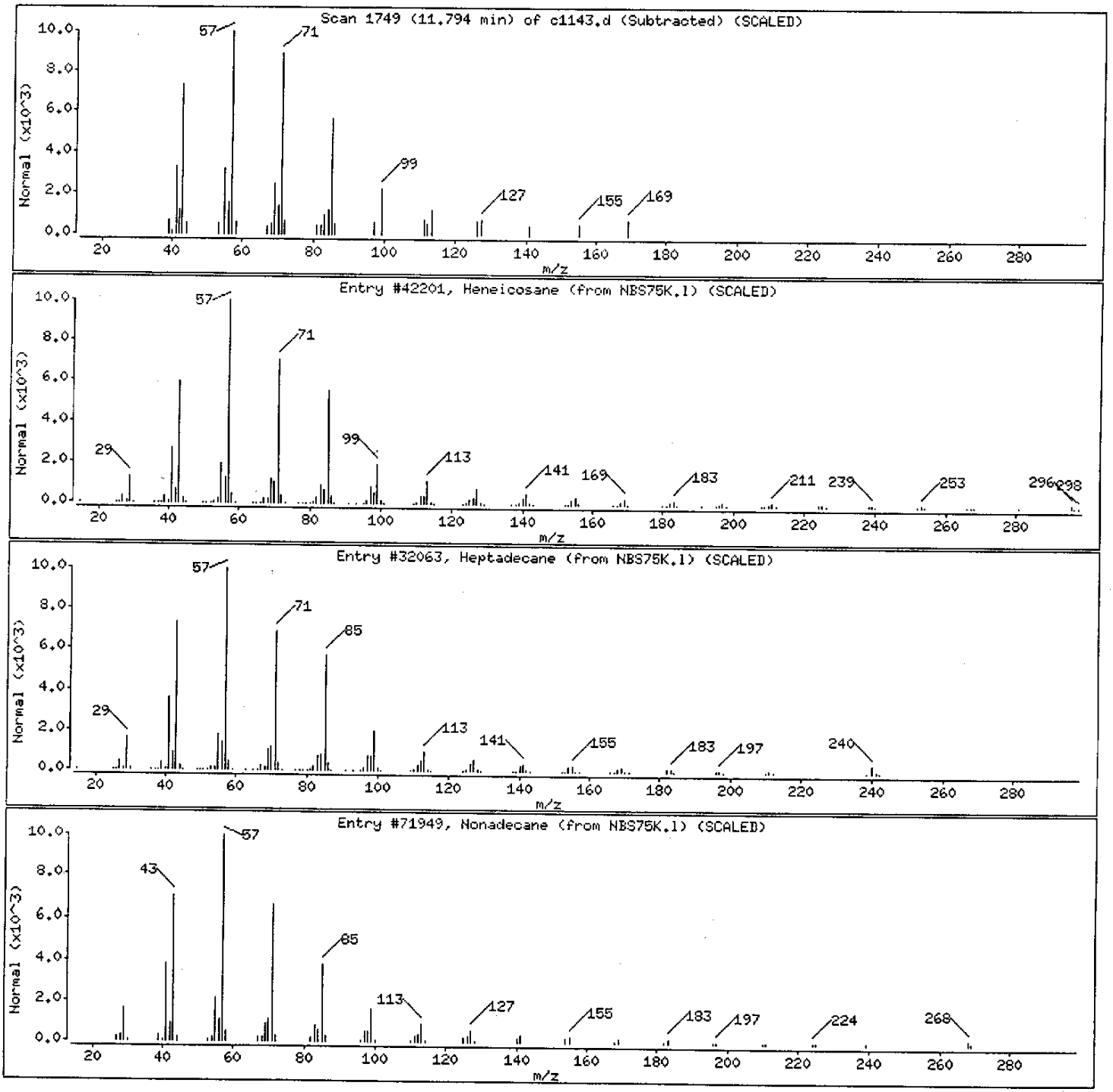
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane	629-94-7	NBS75K.l	42201	91	C21H44	296
Heptadecane	629-78-7	NBS75K.l	32063	91	C17H36	240
Nonadecane	629-92-5	NBS75K.l	71949	90	C19H40	268



Volatile GC/MS

Supporting Documentation

Sample Sequence, Chromatograms/Mass Spectra

SEVERN TRENT STL

Lot ID: D4E210325

Client: Cabrera

Method: 8260

Associated Samples: 8, 9

Batch #(s): 4154317

I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.

Signature/Date:

GC /MS VOLATILE ORGANIC EXTRACTION LOG SHEETS

SEVERN TRENT STL

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/02/04
Time: 13:48:17

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGr
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

****
* *
* QC BATCH: 4154317 *
* *
****

PREP DATE: 5/29/04 14:54
COMP DATE: 5/29/04 14:54

Reviewer/Date: _____ / 0/00/00

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - 25 mL purge (Waters)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/03/04	D4E210219-007 **GGRC2-1-A3**	R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/10/04	D4E210325-008 **GGTFX-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/10/04	D4E210325-009 **GGTF3-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	5/31/04	D4E210431-019 **GGVD5-1-AA**	R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/03/04	D4E220144-001 **GGVXV-1-CC**	R	25	QK	WATER	**0.50mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/03/04	D4E220144-002 **GGVX7-1-AA**	R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/03/04	D4E220181-001 **GGV81-1-AC**	R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/02/04
Time: 13:48:17

QC BATCH: 4154317

PREP DATE: 5/29/04 14:54
COMP DATE: 5/29/04 14:54

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS		EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/03/04	D4E220181-002 **GGV9G-1-AC**		R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/03/04	D4E220181-003 **GGV9K-1-AC**		R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/03/04	D4E220181-004 **GGV9L-1-AC**		R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/03/04	D4E220181-005 **GGV9N-1-AC**		R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/03/04	D4E220181-006 **GGV9R-1-AC**		R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/03/04	D4E220181-007 **GGV9V-1-AA**		R	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/07/04	D4E270388-011 **GG8K3-1-AA**		R	25	RI	WATER	**0.20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/07/04	D4E270388-012 **GG8K4-1-AA**		R	25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/07/04	D4E270388-012 **GG8K4-1-ACS**		R	25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																
0/00/00	6/07/04	D4E270388-012 **GG8K4-1-ADD**		R	25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:																

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/02/04
Time: 13:48:17

QC BATCH: 4154317

PREP DATE: 5/29/04 14:54
COMP DATE: 5/29/04 14:54

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/07/04	D4E270388-013 **GG8K5-1-AA**	R	25	RI	WATER	**0.08mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/07/04	D4E270388-014 **GG8K6-1-AC**	R	25	RI	WATER	**10mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	6/07/04	D4E270388-015 **GG8K8-1-AC**	R	25	RI	WATER	**2** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	D4F020000-317 **GHF4A-1-AA**B		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	D4F020000-317 **GHF4A-1-ACC**		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 22

GC/MS VOLATILE
INSTRUMENT
LOG SHEETS

SEVERN TRENT STL

STL, Denver

GC/MS Volatile Analysis

Instrument 4
5972 M

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

Comments

DEN-MS-0010 (8260B/624/524.
(Circle as appropriate)

Target Batch (Directory): H 052904.b

QuantIMS Batch: 4154317

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr / 12 hr	pH	Comments	Al
BFB	—		1µL Dir Inj.		07/29/04	JPM	H4663	—	—	—	—	—	073-04 (14:54)	
MAINOLO	—		20mL	5mL	↓	↓	64	—	—	—	—	N/A	067/082-04 cpds↑(SPCC)	1
SUPPOLO	—			↓			65	—	—				011/052-04	2
MAINOLO	—						66	—	—				067/082-04.	3
CONF	—						67	—	—				067/082-04	4
Cleanup	—			20mL			68	—	—	—	—			5
LCS	—			10µL			69	—	↑	—	—		109-04 spike↑ surr↑	6
VBLK	—			20mL			70	✓	↑	✓	✓		104-04 surr↑	7
LCS	—	GHF4A1AC		10µL			71	—	—	—	—		109-04	8
VBLK	—	↓ 1AA		20mL			72	—	—	—	—	↓	104-04	9
D4E270388	011	GG8 K3 1AA		200µL			73	✓	✓	✓	✓	7		10
↓	012	K4 ↓		20mL			74	✓	✓	✓	✓	7		11
	12MS	↓ 1AC		↓			75	✓	✓	✓	✓	7		12
	12MSD	↓ 1AD					76	✓	✓	✓	✓	7		13
	013	K5 1AA		80µL			77	✓	✓	✓	✓	7		14
	014	K6 1AC		10mL			78	✓	✓	✓	✓	7		15
	015	↓ K8 ↓		2mL			79	✓	✓	✓	✓	7		16
D4E210325	008	GGT FX 1AA		20mL			80	✓	✓	✓	✓	<2		17
↓	009	↓ F3 ↓		↓			81	✓	✓	✓	✓	<2		18
D4E210219	007	GGR C2 1A3	↓		↓	↓	82	✓	✓	✓	✓	<2		19

528

STL, Denver

GC/MS Volatile Analysis

Instrument 7
5972 MS

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

Comments

DEN-MS-0010 (8260B/624/524.
(Circle as appropriate)

Target Batch (Directory): H052904.b

QuantIMS Batch: 4154317

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	Al
D4E210431	018	GGV D41AA	20mL	200µL	05/29/04	JPM	H4683	✓	✓	X	✓	<2	RR 500µL	2
↓	019	D5 ↓	↓	20mL	↓	↓	84	✓	✓	✓	✓	<2		2
D4E220144	001	XV1CC		500µL			85	✓	✓	✓	✓	<2		2
↓	002	X71AA		20mL			86	✓	✓	✓	✓	<2		2
D4E220181	001	811AC					87	✓	✓	✓	✓	<2		2
↓	002	9G					88	✓	✓	✓	✓	<2		2
	003	9K					89	✓	✓	✓	✓	<2		2
	004	9L ↓					90	✓	✓	✓	✓	<2		2
	007	9V1AA					91	✓	✓	✓	✓	<2		2
	005	9N1AC					92	✓	✓	✓	✓	<2		2
	006	↓ 9R ↓	↓	↓	↓	↓	↓ 93	✓	✓	✓	✓	<2		3

JPM 05/31/04

STL Denver

Revised 6/3/03

public/QA/forms/VOA Logbookr3.xls

GC/MS VOLATILE
STANDARD DATA

SEVERN TRENT STL

GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: Inst. H "Main" I-CAL 5/13/04

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☑ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	✓			—	
2. ICAL date and instrument ID verified?	✓			—	
3. Sufficient number of calibration points used?	✓			—	
4. Reasons for removal of points documented?	✓			—	Some points below R.L. removed.
5. %RSD or correlation coefficient within method limits?	✓			—	
6. If RRF used for ICAL, were all compounds within 15% RSD?	✓			—	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			—	
8. Isomeric pairs checked for correct peak assignment?	✓			—	
9. Data checked for detector saturation?	✓			—	
10. Standards traceability properly documented?	✓			—	
11. Manual integrations documented and checked?	✓			—	
12. 2nd source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	✓			—	

1st Level Reviewer: MH Date: 5/14/04

2nd Level Reviewer: DA Date: 5-14-04

STL, Denver

GC/MS Volatile Analysis

Instrument H
5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

MS-VOA
ISSS # 104.04
Main # 67/82.04
Supp # 011/052.04

Comments

DEN-MS-0010 (8260B/624/524.2)
(Circle as appropriate)

Target Batch (Directory): 051304.b

QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
BFB			1µl in	Inj.	5/13/04	MH	h4139.d					NA	OK 07:49	—
Main 001			20mL	20mL			40	✓	NA	✓	✓		OK	
002							41	✓		✓	✓			
005							42	✓		✓	✓			
010							43	✓		✓	✓			
030							44	✓		✓	✓			
060							45	✓	↓	✓	✓			
Supp 001							46	✓	✓	✓	✓			
002							47	✓	✓	✓	✓			
005							48	✓	✓	✓	✓			
010							49	✓	✓	✓	✓			
030							50	✓	✓	✓	✓			
060							51	✓	✓	✓	✓			
~~VSTD010 = ICV~~	mds 5/13/04	cleanup					52	✓	✓	✓	✓		—	
~~cle (MH) 5/13/04~~	VSTD010 = ICV						53	✓	✓	✓	✓		#68/61/91-04	
LCS	—						54	✓	✓	✓	✓			
VBLK	—			★			55	✓	✓	✓	✓	↓		
D4E060268	-027	GFNGM1AA		50mL			56	✓	✓	✓	✓	↓		
	-27MS						57	✓	✓	✓	✓	↓		
	-27SD			↓	↓	↓	58	✓	✓	✓	✓	↓	↓	

Revised 6/3/03

public/QA/forms/VOA Logbookr3.xls

Report Date: 14-May-2004 15:40

Calibration History

Method : /chem/H.i/051304.b/H-20ml-h2o.m
Start Cal Date: 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
13-MAY-2004 09:56	2-supp	/chem/H.i/051304.b/h4146.d
13-MAY-2004 07:58	1-main	/chem/H.i/051304.b/h4140.d
Cal Level: 2 , Cal Amount: 2.00000		
13-MAY-2004 10:15	2-supp	/chem/H.i/051304.b/h4147.d
13-MAY-2004 08:17	1-main	/chem/H.i/051304.b/h4141.d
Cal Level: 3 , Cal Amount: 5.00000		
13-MAY-2004 10:35	2-supp	/chem/H.i/051304.b/h4148.d
13-MAY-2004 08:37	1-main	/chem/H.i/051304.b/h4142.d
Cal Level: 4 , Cal Amount: 10.0000		
13-MAY-2004 10:55	2-supp	/chem/H.i/051304.b/h4149.d
13-MAY-2004 08:57	1-main	/chem/H.i/051304.b/h4143.d
Cal Level: 5 , Cal Amount: 30.0000		
13-MAY-2004 11:14	2-supp	/chem/H.i/051304.b/h4150.d
13-MAY-2004 09:16	1-main	/chem/H.i/051304.b/h4144.d
Cal Level: 6 , Cal Amount: 60.0000		
13-MAY-2004 11:34	2-supp	/chem/H.i/051304.b/h4151.d
13-MAY-2004 09:36	1-main	/chem/H.i/051304.b/h4145.d

Continuing Calibration

13-MAY-2004 10:55	2-supp	/chem/H.i/051304.b/h4149.d
13-MAY-2004 08:57	1-main	/chem/H.i/051304.b/h4143.d

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 09:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 10:54 hoffmanm
Curve Type : Average

Calibration File Names:
Level 1: /chem/H.i/051304.b/h4140.d
Level 2: /chem/H.i/051304.b/h4141.d
Level 3: /chem/H.i/051304.b/h4142.d
Level 4: /chem/H.i/051304.b/h4143.d
Level 5: /chem/H.i/051304.b/h4144.d
Level 6: /chem/H.i/051304.b/h4145.d

	Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
M	1 1,2-Dichloroethene (total)	0.30097	0.28024	0.29111	0.29125	0.29936	0.31066	0.29560	3.530
M	2 Xylene (total)	6.87105	6.49348	6.58131	6.42101	6.56937	6.28372	6.53666	3.014
	3 dichlorodifluoromethane	0.46719	0.48525	0.47604	0.47360	0.46972	0.45551	0.47122	2.103
	4 Chloromethane	0.24579	0.25880	0.25286	0.25246	0.25611	0.24628	0.25205	2.064
	5 Vinyl Chloride	0.22562	0.23382	0.24120	0.24146	0.24618	0.24034	0.23811	3.059
	7 Bromomethane	0.20817	0.21462	0.22396	0.21920	0.22825	0.22994	0.22069	3.786
	8 Chloroethane	0.17523	0.17501	0.17218	0.16986	0.16977	0.16844	0.17175	1.676
	10 Trichlorofluoromethane	0.69584	0.69773	0.68828	0.70037	0.70748	0.70603	0.69929	1.010
	11 Ethanol	+++++	0.00057	0.00052	0.00048	0.00049	0.00051	0.00051	7.179
	13 Acrolein	+++++	0.00927	0.00882	0.00914	0.00932	0.00987	0.00929	4.114
	14 1,1-Dichloroethene	0.30379	0.28465	0.29068	0.28121	0.28776	0.29685	0.29083	2.853
	15 Acetone	+++++	0.01641	0.01642	0.01570	0.01559	0.01614	0.01605	2.419
	17 Iodomethane	0.37249	0.38859	0.44891	0.45286	0.48738	0.51020	0.44340	12.165
	19 Acetonitrile	+++++	0.00436	0.00416	0.00396	0.00416	0.00417	0.00416	3.461
	21 Methylene Chloride	+++++	0.23797	0.23086	0.21755	0.22086	0.22704	0.22686	3.568
	22 tert-Butyl alcohol	0.00686	0.00577	0.00606	0.00588	0.00616	0.00639	0.00619	6.392
	23 Acrylonitrile	0.01556	0.01405	0.01500	0.01478	0.01553	0.01648	0.01523	5.403
	24 trans-1,2-Dichloroethene	0.30994	0.28650	0.28846	0.29325	0.30142	0.31156	0.29852	3.615
	27 1,1-Dichloroethane	0.57377	0.53781	0.56042	0.55328	0.57913	0.61362	0.56967	4.582
	28 Chloroprene	0.48082	0.46545	0.46903	0.46937	0.49843	0.52666	0.48496	4.893
	30 Isopropyl ether	0.18726	0.17909	0.19222	0.19082	0.20247	0.20898	0.19347	5.545
	32 cis-1,2-Dichloroethene	0.29200	0.27398	0.29377	0.28926	0.29729	0.30976	0.29268	3.972
	31 2,2-Dichloropropane	0.46681	0.43882	0.45274	0.42748	0.42537	0.42136	0.43876	4.066
	33 2-Butanone	0.02578	0.02636	0.02878	0.02902	0.03019	0.03207	0.02870	8.208
	34 Propionitrile	0.00538	0.00508	0.00577	0.00559	0.00598	0.00619	0.00566	7.149

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 09:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 10:54 hoffmanm
Curve Type : Average

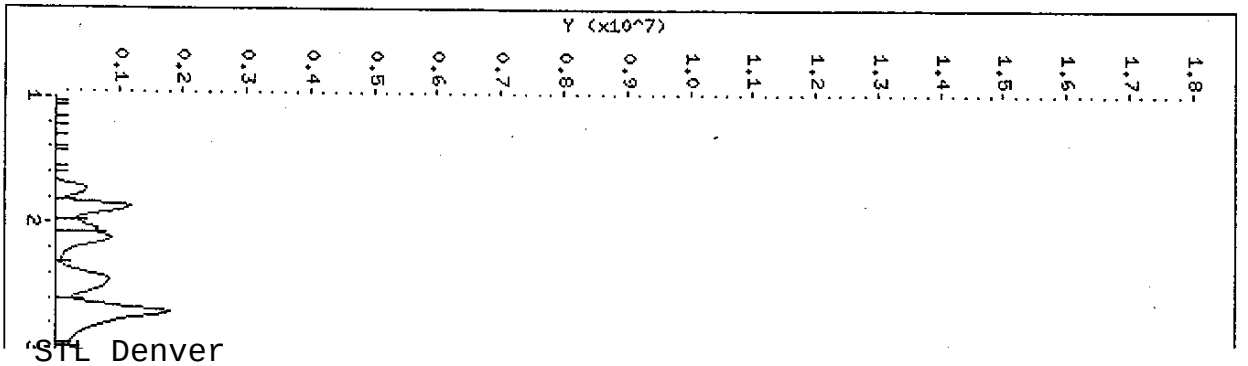
Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
36 Methacrylonitrile	0.04115	0.04065	0.04235	0.04314	0.04514	0.04750	0.04332	5.987
37 Bromochloromethane	0.10789	0.10273	0.11368	0.11153	0.11514	0.12052	0.11192	5.483
38 Chloroform	0.55335	0.51651	0.54734	0.53175	0.54600	0.56627	0.54354	3.190
41 1,1,1-Trichloroethane	0.61038	0.57677	0.60352	0.58787	0.59338	0.60383	0.59596	2.079
42 1,1-Dichloropropene	0.48147	0.44948	0.47304	0.46327	0.47161	0.48976	0.47144	2.982
43 Carbon Tetrachloride	0.55568	0.53987	0.56266	0.55022	0.56269	0.58195	0.55885	2.540
45 Isobutanol	+++++	0.00149	0.00181	0.00192	0.00207	0.00215	0.00189	13.802
46 Benzene	0.80293	0.77679	0.81776	0.79479	0.80943	0.83321	0.80582	2.405
47 1,2-Dichloroethane	0.21184	0.20434	0.21206	0.20482	0.20832	0.21570	0.20951	2.139
49 n-Butanol	+++++	0.00119	0.00130	0.00131	0.00152	0.00162	0.00139	12.723
50 Trichloroethene	0.33563	0.32942	0.34822	0.33878	0.34989	0.35349	0.34257	2.739
52 1,2-Dichloropropane	0.27211	0.25782	0.27757	0.26496	0.26997	0.27608	0.26975	2.734
53 Dibromomethane	0.14319	0.13414	0.14523	0.13905	0.14135	0.14446	0.14124	2.924
55 1,4-Dioxane	+++++	0.00059	0.00070	0.00068	0.00071	0.00072	0.00068	7.740
56 Bromodichloromethane	0.40347	0.39379	0.41732	0.40570	0.41144	0.42289	0.40910	2.542
59 cis-1,3-Dichloropropene	1.61695	1.57503	1.66326	1.61040	1.69367	1.69690	1.64270	3.012
60 4-Methyl-2-pentanone	0.39918	0.38096	0.43342	0.41253	0.43268	0.42537	0.41402	5.030
62 Toluene	4.86583	4.64246	4.74681	4.60576	4.76855	4.71963	4.72484	1.969
63 trans-1,3-Dichloropropene	1.08211	1.06021	1.11926	1.05352	1.14670	1.13485	1.09944	3.599
65 1,1,2-Trichloroethane	0.72746	0.69293	0.70365	0.67146	0.69750	0.67687	0.69498	2.893
67 1,3-Dichloropropane	1.10021	1.04796	1.10711	1.08039	1.12443	1.10784	1.09466	2.461
66 Tetrachloroethene	1.44642	1.42671	1.50380	1.48771	1.54881	1.53672	1.49170	3.246
68 2-Hexanone	0.24649	0.24145	0.25973	0.26102	0.27600	0.27570	0.26006	5.520
69 Dibromochloromethane	1.19082	1.14258	1.24376	1.18908	1.25997	1.26789	1.21568	4.054
70 1,2-Dibromoethane	0.88037	0.87512	0.91522	0.89304	0.93217	0.91695	0.90215	2.517
71 1-Chlorohexane	2.43178	2.34173	2.39389	2.31779	2.40524	2.25783	2.35804	2.740
73 Chlorobenzene	3.22996	3.10275	3.21076	3.10764	3.21629	3.16544	3.17214	1.772
74 1,1,1,2-Tetrachloroethane	1.26409	1.25035	1.32323	1.29883	1.37445	1.37970	1.31511	4.140
75 Ethylbenzene	1.65271	1.63011	1.67258	1.63659	1.66822	1.61124	1.64524	1.436
76 m and p-Xylene	2.38766	2.23598	2.28788	2.23387	2.29582	2.19415	2.27256	2.985
77 o-Xylene	2.09573	2.02151	2.00555	1.95328	1.97774	1.89541	1.99154	3.394
78 Styrene	2.85963	2.91344	3.06282	3.03318	3.09980	2.95646	2.98756	3.110
79 Bromoform	0.56747	0.56782	0.62391	0.61364	0.64490	0.63866	0.60940	5.604

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 09:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 10:54 hoffmanm
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
80 isopropyl benzene	6.97782	6.71597	6.70380	6.61971	6.63183	6.27181	6.65349	3.420
81 Cyclohexanone	0.01688	0.01611	0.01611	0.01554	0.01570	0.01616	0.01608	2.907
83 1,1,2,2-Tetrachloroethane	0.82776	0.79477	0.81021	0.77972	0.77986	0.77098	0.79389	2.723
84 Bromobenzene	0.85464	0.81419	0.88537	0.84501	0.85736	0.88565	0.85704	3.134
85 1,2,3-Trichloropropane	0.16009	0.14661	0.15686	0.14604	0.14977	0.15307	0.15207	3.717
87 n-Propylbenzene	1.11579	1.06032	1.12767	1.07357	1.08048	1.07131	1.08819	2.485
88 2-Chlorotoluene	0.84437	0.80600	0.86033	0.83101	0.83343	0.85259	0.83795	2.293
89 1,3,5-Trimethylbenzene	3.53913	3.40153	3.63378	3.49950	3.55473	3.57346	3.53369	2.218
90 4-Chlorotoluene	0.98351	0.85521	0.93829	0.91623	0.92193	0.90980	0.92083	4.526
91 tert-Butylbenzene	3.78383	3.60677	3.76844	3.67957	3.70858	3.79152	3.72312	1.939
92 1,2,4-Trimethylbenzene	3.28208	3.11601	3.29087	3.22914	3.20692	3.20129	3.22105	1.978
93 sec-Butylbenzene	0.91933	0.84093	0.88746	0.86723	0.86096	0.85886	0.87246	3.143
94 m-Dichlorobenzene	1.40727	1.30137	1.37506	1.34161	1.50120	1.41860	1.39085	4.971
95 4-Isopropyltoluene	4.26945	4.01815	4.25639	4.18691	4.12867	4.13333	4.16548	2.242
97 p-dichlorobenzene	1.82121	1.80673	1.87509	1.80226	1.64803	1.82165	1.79583	4.284
98 n-Butylbenzene	4.14257	4.01629	4.13352	4.04334	3.88308	3.89432	4.01885	2.793
99 o-Dichlorobenzene	1.15766	1.22617	1.23957	1.19870	1.20380	1.24396	1.21164	2.656
100 1,2-Dibromo-3-chloropropane	0.07372	0.08161	0.08928	0.08727	0.08988	0.09712	0.08648	9.246
101 1,2,4-Trichlorobenzene	0.87330	0.89453	0.90489	0.89986	0.83667	0.85992	0.87819	3.026
102 Hexachlorobutadiene	0.83765	0.85448	0.85516	0.87357	0.79713	0.75897	0.82949	5.203
127 Naphthalene	0.78183	0.78817	0.83299	0.78580	0.75861	0.84412	0.79859	4.118
104 1,2,3-Trichlorobenzene	0.66666	0.69223	0.67008	0.65695	0.60961	0.63028	0.65430	4.545



Data File: /chem/H.i/051304.b/h4139.d

Date : 13-MAY-2004 07:49

Client ID: BFB

Instrument: H.i

Sample Info: BFB #073-04

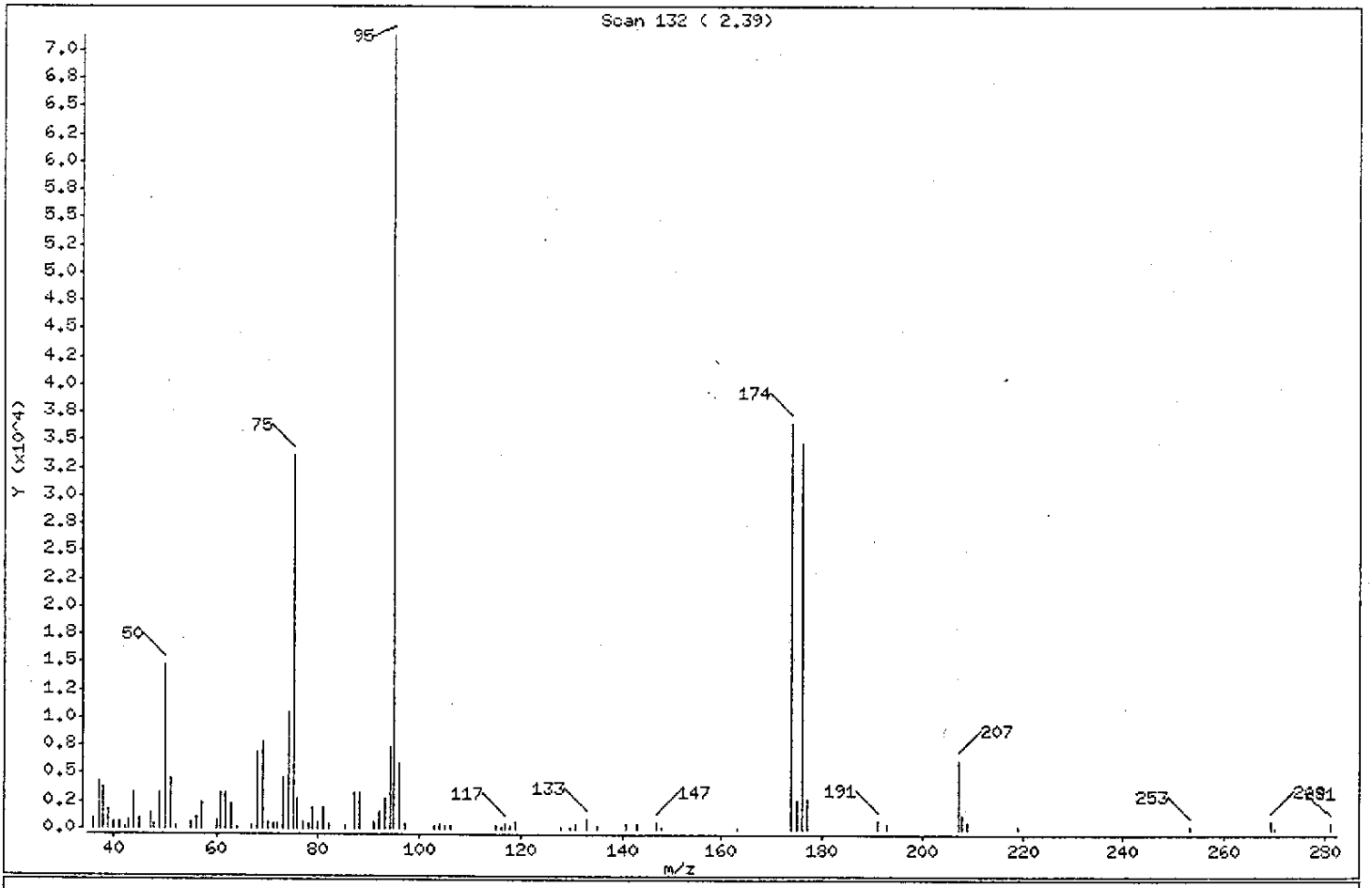
Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53

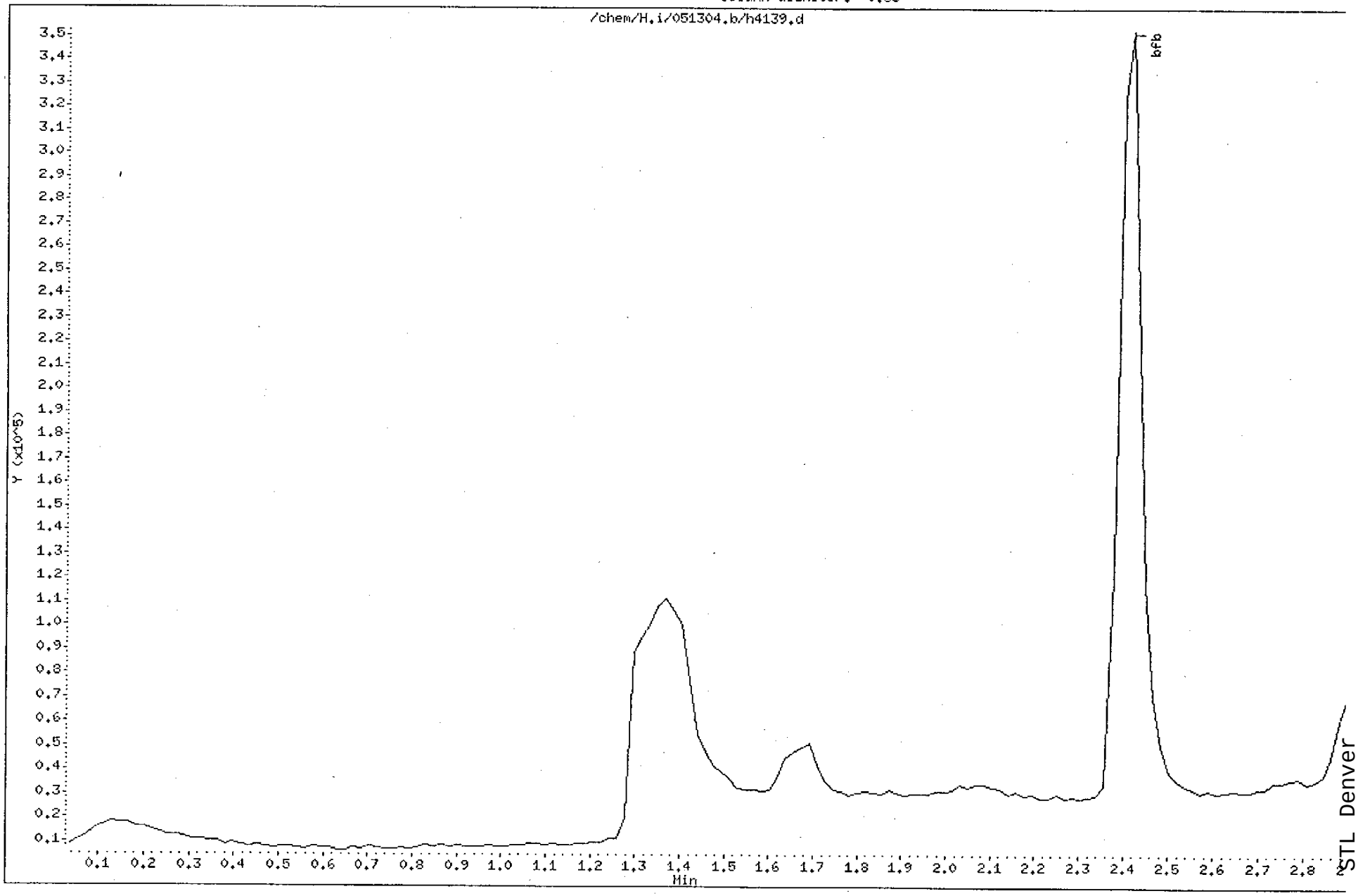
1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.58
75	30.00 - 60.00% of mass 95	47.04
96	5.00 - 9.00% of mass 95	8.19
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	51.30
175	5.00 - 9.00% of mass 174	3.63 (7.07)
176	95.00 - 101.00% of mass 174	48.74 (95.01)
177	5.00 - 9.00% of mass 176	3.90 (8.00)

Data File: /chem/H.i/051304.b/h4139.d
Date : 13-MAY-2004 07:49
Client ID: BFB
Sample Info: BFB #073-04
Volume Injected (uL): 1.0
Column phase: DB624

Instrument: H.i
Operator: mhoffman
Column diameter: 0.53



Data File: /chem/H.i/051304.b/h4139.d

Date : 13-MAY-2004 07:49

Client ID: BFB

Instrument: H.i

Sample Info: BFB #073-04

Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53

Data File: h4139.d
Spectrum: Scan 132 (2.39)
Location of Maximum: 95.05
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	997	62.00	3215	88.00	3244	135.00	285
37.00	4205	63.00	2338	91.00	607	140.90	450
38.00	3850	64.00	244	92.00	1644	142.90	416
39.10	1739	67.05	344	92.95	2739	147.05	699
40.00	663	68.05	6937	94.05	7410	147.85	242
41.05	656	69.05	7897	95.05	71304	163.00	210
42.05	219	70.05	652	96.05	5838	173.95	36576
43.05	851	71.15	474	97.05	462	174.95	2586
44.05	3209	71.95	501	102.95	369	175.95	34752
45.05	1054	73.05	4551	103.85	416	176.95	2779
47.05	1426	74.05	10513	104.95	344	191.00	810
47.95	551	75.05	33544	105.85	324	193.00	412
49.05	3245	76.05	2712	115.10	268	207.05	6227
50.05	14673	76.95	636	115.90	228	208.05	1355
51.05	4549	77.95	517	116.90	485	209.05	715
52.05	294	78.85	1902	117.90	272	219.00	312
55.10	685	80.00	586	119.00	685	253.05	396
56.10	1102	80.90	2006	127.95	227	269.10	801
57.10	2498	81.90	525	129.85	204	270.10	241
60.00	862	85.10	270	130.95	427	281.15	718
61.00	3342	87.00	3245	133.00	909		

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4140.d
Lab Smp Id: MAIN001 Client Smp ID: MAIN001
Inj Date : 13-MAY-2004 07:58
Operator : hoffmanm Inst ID: H.i
Smp Info : MAIN001,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 10:54 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 07:58 Cal File: h4140.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.383	6.379	(1.000)	1567187	10.0000	
* 72	Chlorobenzene-d5	119	10.047	10.043	(1.000)	309267	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.903	12.917	(1.000)	427266	10.0000	
M 1	1,2-Dichloroethene (total)	96				94336	2.00000	2.03239
M 2	Xylene (total)	106				212499	1.00000	3.10174
3	dichlorodifluoromethane	85	1.874	1.870	(0.294)	73217	1.00000	0.993181
4	Chloromethane	50	2.036	2.032	(0.319)	38520	1.00000	0.986620
5	Vinyl Chloride	62	2.125	2.140	(0.333)	35359	1.00000	0.966082
7	Bromomethane	94	2.431	2.427	(0.381)	32624	1.00000	0.974192
8	Chloroethane	64	2.521	2.517	(0.395)	27462	1.00000	1.01557
10	Trichlorofluoromethane	101	2.700	2.697	(0.423)	109051	1.00000	0.996754
11	Ethanol	45.00	Compound Not Detected.					
13	Acrolein	56.00	Compound Not Detected.					
14	1,1-Dichloroethene	96	3.149	3.164	(0.493)	47609	1.00000	1.03858
15	Acetone	43.00	Compound Not Detected.					
17	Iodomethane	142	3.311	3.325	(0.519)	58376	1.00000	0.902624
19	Acetonitrile	41.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
21 Methylene Chloride	84.00	Compound Not Detected.					
22 tert-Butyl alcohol	59	3.706	3.720	(0.581)	21513	20.0000	21.5498
23 Acrylonitrile	53	3.850	3.864	(0.603)	24379	10.0000	10.2566
24 trans-1,2-Dichloroethene	96	3.904	3.900	(0.612)	48574	1.00000	1.02768
27 1,1-Dichloroethane	63	4.353	4.367	(0.682)	89920	1.00000	1.01818
28 Chloroprene	53	4.461	4.457	(0.699)	75354	1.00000	1.01206
30 Isopropyl ether	87	4.425	4.421	(0.693)	146734	5.00000	4.95290
32 cis-1,2-Dichloroethene	96	5.017	5.014	(0.786)	45762	1.00000	1.00472
31 2,2-Dichloropropane	77	5.017	5.032	(0.786)	73158	1.00000	1.04398
33 2-Butanone	43	5.035	5.032	(0.789)	16159	4.00000	3.76312
34 Propionitrile	54	5.089	5.104	(0.797)	8425	10.0000	9.80847
36 Methacrylonitrile	41	5.269	5.283	(0.826)	64482	10.0000	9.76368
37 Bromochloromethane	128	5.305	5.301	(0.831)	16909	1.00000	0.983441
38 Chloroform	83	5.377	5.391	(0.842)	86721	1.00000	1.01991
41 1,1,1-Trichloroethane	97	5.610	5.625	(0.879)	95658	1.00000	1.01878
42 1,1-Dichloropropene	75	5.808	5.822	(0.910)	75455	1.00000	1.01926
43 Carbon Tetrachloride	117	5.826	5.822	(0.913)	87086	1.00000	1.00494
45 Isobutanol	41.00	Compound Not Detected.					
46 Benzene	78	6.059	6.056	(0.949)	125834	1.00000	1.00510
47 1,2-Dichloroethane	62	6.059	6.074	(0.949)	33199	1.00000	1.01685
49 n-Butanol	56.00	Compound Not Detected.					
50 Trichloroethene	130	6.814	6.828	(1.068)	52600	1.00000	0.995328
52 1,2-Dichloropropane	63	7.083	7.080	(1.110)	42644	1.00000	1.01330
53 Dibromomethane	93	7.227	7.223	(1.132)	22440	1.00000	1.01464
55 1,4-Dioxane	88.00	Compound Not Detected.					
56 Bromodichloromethane	83	7.406	7.421	(1.160)	63232	1.00000	0.997245
59 cis-1,3-Dichloropropene	75	7.945	7.960	(0.791)	50007	1.00000	1.00203
60 4-Methyl-2-pentanone	43	8.143	8.139	(0.810)	49381	4.00000	3.93422
62 Toluene	91	8.358	8.373	(0.832)	150484	1.00000	1.02746
63 trans-1,3-Dichloropropene	75	8.628	8.624	(0.859)	33466	1.00000	1.01338
65 1,1,2-Trichloroethane	97	8.843	8.858	(0.880)	22498	1.00000	1.04003
67 1,3-Dichloropropane	76	9.059	9.055	(0.902)	34026	1.00000	1.00909
66 Tetrachloroethene	164	9.041	9.037	(0.900)	44733	1.00000	0.985927
68 2-Hexanone	43	9.167	9.163	(0.912)	30492	4.00000	3.88542
69 Dibromochloromethane	129	9.328	9.343	(0.928)	36828	1.00000	1.00073
70 1,2-Dibromoethane	107	9.472	9.486	(0.943)	27227	1.00000	0.992858
71 1-Chlorohexane	91	10.047	10.061	(1.000)	75207	1.00000	1.02400
73 Chlorobenzene	112	10.083	10.079	(1.004)	99892	1.00000	1.01930
74 1,1,1,2-Tetrachloroethane	131	10.173	10.187	(1.012)	39094	1.00000	0.986445
75 Ethylbenzene	106	10.209	10.223	(1.016)	51113	1.00000	1.00490
76 m and p-Xylene	106	10.352	10.367	(1.030)	147685	2.00000	2.06656
77 o-Xylene	106	10.873	10.870	(1.082)	64814	1.00000	1.03518
78 Styrene	104	10.891	10.888	(1.084)	88439	1.00000	0.970549
79 Bromoform	173	11.125	11.139	(1.107)	17550	1.00000	0.960907
80 isopropyl benzene	105	11.358	11.355	(1.131)	215801	1.00000	1.02634
81 Cyclohexanone	55	11.466	11.462	(1.141)	20885	40.0000	41.6610
83 1,1,2,2-Tetrachloroethane	83	11.717	11.714	(1.166)	25600	1.00000	1.02989

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
84	Bromobenzene	156	11.735	11.732	(0.909)	36516	1.00000	1.00566
85	1,2,3-Trichloropropane	110	11.771	11.786	(0.912)	6840	1.00000	1.04588
87	n-Propylbenzene	120	11.861	11.876	(0.919)	47674	1.00000	1.01928
88	2-Chlorotoluene	126	11.969	11.983	(0.928)	36077	1.00000	1.00798
89	1,3,5-Trimethylbenzene	105	12.077	12.091	(0.936)	151215	1.00000	1.00563
90	4-Chlorotoluene	126	12.095	12.109	(0.937)	42022	1.00000	1.03542
91	tert-Butylbenzene	119	12.454	12.468	(0.965)	161670	1.00000	1.01397
92	1,2,4-Trimethylbenzene	105	12.508	12.522	(0.969)	140232	1.00000	1.00813
93	sec-Butylbenzene	134	12.705	12.720	(0.985)	39280	1.00000	1.02916
94	m-Dichlorobenzene	146	12.831	12.845	(0.994)	60128	1.00000	1.02389
95	4-Isopropyltoluene	119	12.867	12.881	(0.997)	182419	1.00000	1.00976
97	p-dichlorobenzene	146	12.921	12.935	(1.001)	77814	1.00000	1.00523
98	n-Butylbenzene	91	13.298	13.295	(1.031)	176998	1.00000	1.01212
99	o-Dichlorobenzene	146	13.316	13.330	(1.032)	49463	1.00000	0.982584
100	1,2-Dibromo-3-chloropropane	157	14.107	14.103	(1.093)	3150	1.00000	0.915838
101	1,2,4-Trichlorobenzene	180	14.879	14.875	(1.153)	37313	1.00000	0.985020
102	Hexachlorobutadiene	225	15.023	15.037	(1.164)	35790	1.00000	0.979010
127	Naphthalene	128	15.112	15.109	(1.171)	33405	1.00000	0.997467(a)
104	1,2,3-Trichlorobenzene	180	15.346	15.360	(1.189)	28484	1.00000	1.00733

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4140.d
Lab Smp Id: MAIN001
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 0857
Client Smp ID: MAIN001
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1613156	806578	3226312	1567187	-2.85
72 Chlorobenzene-d5	325674	162837	651348	309267	-5.04
96 1,4-Dichlorobenze	462254	231127	924508	427266	-7.57

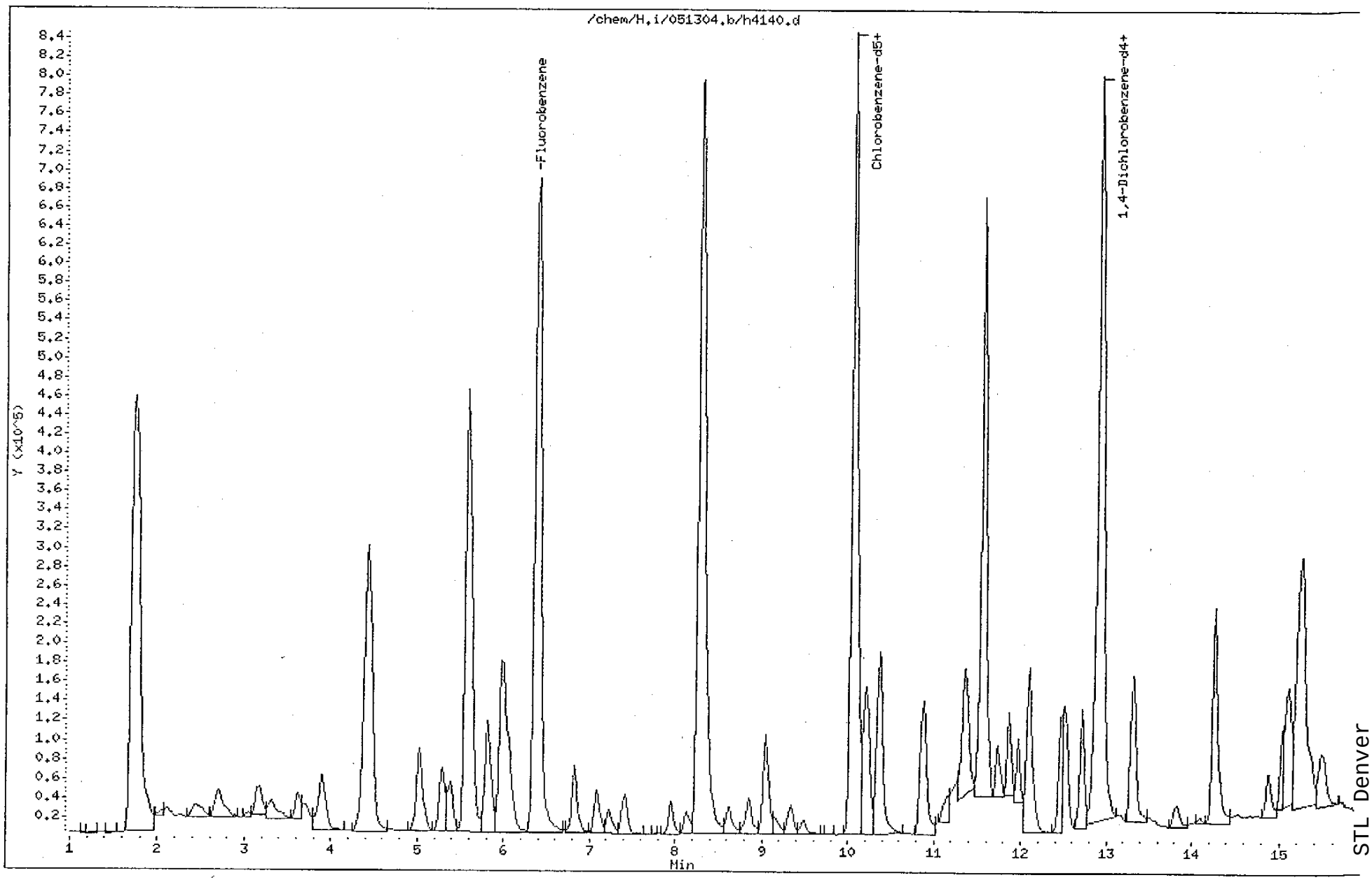
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.38	5.88	6.88	6.38	0.05
72 Chlorobenzene-d5	10.06	9.56	10.56	10.05	-0.15
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.90	-0.11

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

Data File: /chem/H.i/051304.b/h4140.d
Date : 13-MAY-2004 07:58
Client ID: MAIN001
Sample Info: MAIN001,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmanm
Column diameter: 0.53



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VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4141.d
Lab Smp Id: MAIN002 Client Smp ID: MAIN002
Inj Date : 13-MAY-2004 08:17
Operator : hoffmanm Inst ID: H.i
Smp Info : MAIN002,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 10:54 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 07:58 Cal File: h4140.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	48 Fluorobenzene	96	6.379	6.379	(1.000)	1576594	10.0000	
*	72 Chlorobenzene-d5	119	10.043	10.043	(1.000)	312368	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.917	12.917	(1.000)	452439	10.0000	
M	1 1,2-Dichloroethene (total)	96				176731	4.00000	3.79172
M	2 Xylene (total)	106				405671	2.00000	5.96572
	3 dichlorodifluoromethane	85	1.870	1.870	(0.293)	153009	2.00000	2.05956
	4 Chloromethane	50	2.032	2.032	(0.319)	81604	2.00000	2.05356
	5 Vinyl Chloride	62	2.140	2.140	(0.335)	73729	2.00000	1.96404
	7 Bromomethane	94	2.427	2.427	(0.380)	67675	2.00000	1.94503
	8 Chloroethane	64	2.517	2.517	(0.395)	55185	2.00000	2.03803
	10 Trichlorofluoromethane	101	2.697	2.697	(0.423)	220008	2.00000	1.99555
	11 Ethanol	45	2.822	2.822	(0.442)	9049	100.000	111.631
	13 Acrolein	56	3.056	3.056	(0.479)	29239	20.0000	19.9725
	14 1,1-Dichloroethene	96	3.164	3.164	(0.496)	89756	2.00000	1.95754
	15 Acetone	43	3.182	3.182	(0.499)	20694	8.00000	8.17574
	17 Iodomethane	142	3.325	3.325	(0.521)	122530	2.00000	1.75276

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 Acetonitrile	41	3.451	3.451	(0.541)	13762	20.0000	20.9747
21 Methylene Chloride	84	3.613	3.613	(0.566)	75035	2.00000	2.09794
22 tert-Butyl alcohol	59	3.720	3.720	(0.583)	36400	40.0000	37.3206
23 Acrylonitrile	53	3.864	3.864	(0.606)	44318	20.0000	18.4534
24 trans-1,2-Dichloroethene	96	3.900	3.900	(0.611)	90340	2.00000	1.91947
27 1,1-Dichloroethane	63	4.367	4.367	(0.685)	169583	2.00000	1.88816
28 Chloroprene	53	4.457	4.457	(0.699)	146766	2.00000	1.91955
30 Isopropyl ether	87	4.421	4.421	(0.693)	282350	10.0000	9.25660
32 cis-1,2-Dichloroethene	96	5.014	5.014	(0.786)	86391	2.00000	1.87224
31 2,2-Dichloropropane	77	5.032	5.032	(0.789)	138368	2.00000	2.00026
33 2-Butanone	43	5.032	5.032	(0.789)	33246	8.00000	7.34706
34 Propionitrile	54	5.104	5.104	(0.800)	16004	20.0000	17.9269
36 Methacrylonitrile	41	5.283	5.283	(0.828)	128179	20.0000	18.7672
37 Bromochloromethane	128	5.301	5.301	(0.831)	32394	2.00000	1.83589
38 Chloroform	83	5.391	5.391	(0.845)	162865	2.00000	1.90055
41 1,1,1-Trichloroethane	97	5.625	5.625	(0.882)	181867	2.00000	1.93561
42 1,1-Dichloropropene	75	5.822	5.822	(0.913)	141728	2.00000	1.90683
43 Carbon Tetrachloride	117	5.822	5.822	(0.913)	170230	2.00000	1.93208
45 Isobutanol	41	5.948	5.948	(0.932)	9369	40.0000	31.4983
46 Benzene	78	6.056	6.056	(0.949)	244937	2.00000	1.92796
47 1,2-Dichloroethane	62	6.074	6.074	(0.952)	64433	2.00000	1.95064
49 n-Butanol	56	6.738	6.738	(1.056)	7480	40.0000	34.2336(M)
50 Trichloroethene	130	6.828	6.828	(1.070)	103871	2.00000	1.92319
52 1,2-Dichloropropane	63	7.080	7.080	(1.110)	81297	2.00000	1.91157
53 Dibromomethane	93	7.223	7.223	(1.132)	42298	2.00000	1.89956
55 1,4-Dioxane	88	7.277	7.277	(1.141)	9272	100.000	86.6392
56 Bromodichloromethane	83	7.421	7.421	(1.163)	124168	2.00000	1.92512
59 cis-1,3-Dichloropropene	75	7.960	7.960	(0.793)	98398	2.00000	1.91761
60 4-Methyl-2-pentanone	43	8.139	8.139	(0.810)	95201	8.00000	7.36125
62 Toluene	91	8.373	8.373	(0.834)	290031	2.00000	1.96513
63 trans-1,3-Dichloropropene	75	8.624	8.624	(0.859)	66235	2.00000	1.92863
65 1,1,2-Trichloroethane	97	8.858	8.858	(0.882)	43290	2.00000	1.99411
67 1,3-Dichloropropane	76	9.055	9.055	(0.902)	65470	2.00000	1.91468
66 Tetrachloroethene	164	9.037	9.037	(0.900)	89132	2.00000	1.91287
68 2-Hexanone	43	9.163	9.163	(0.912)	60336	8.00000	7.42727
69 Dibromochloromethane	129	9.343	9.343	(0.930)	71381	2.00000	1.87973
70 1,2-Dibromoethane	107	9.486	9.486	(0.945)	54672	2.00000	1.94009
71 1-Chlorohexane	91	10.061	10.061	(1.002)	146296	2.00000	1.98616
73 Chlorobenzene	112	10.079	10.079	(1.004)	193840	2.00000	1.95625
74 1,1,1,2-Tetrachloroethane	131	10.187	10.187	(1.014)	78114	2.00000	1.90152
75 Ethylbenzene	106	10.223	10.223	(1.018)	101839	2.00000	1.98161
76 m and p-Xylene	106	10.367	10.367	(1.032)	279380	4.00000	3.93562
77 o-Xylene	106	10.870	10.870	(1.082)	126291	2.00000	2.03010
78 Styrene	104	10.888	10.888	(1.084)	182013	2.00000	1.95038
79 Bromoform	173	11.139	11.139	(1.109)	35474	2.00000	1.86354
80 isopropyl benzene	105	11.355	11.355	(1.131)	419571	2.00000	2.01878
81 Cyclohexanone	55	11.462	11.462	(1.141)	40260	80.0000	80.1378

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83	1,1,2,2-Tetrachloroethane	83	11.714	11.714	(1.166)	49652	2.00000	2.00222
84	Bromobenzene	156	11.732	11.732	(0.908)	73674	2.00000	1.90000
85	1,2,3-Trichloropropane	110	11.786	11.786	(0.912)	13266	2.00000	1.92809
87	n-Propylbenzene	120	11.876	11.876	(0.919)	95946	2.00000	1.94878
88	2-Chlorotoluene	126	11.983	11.983	(0.928)	72933	2.00000	1.92373
89	1,3,5-Trimethylbenzene	105	12.091	12.091	(0.936)	307797	2.00000	1.92520
90	4-Chlorotoluene	126	12.109	12.109	(0.937)	77386	2.00000	1.85748
91	tert-Butylbenzene	119	12.468	12.468	(0.965)	326369	2.00000	1.93750
92	1,2,4-Trimethylbenzene	105	12.522	12.522	(0.969)	281961	2.00000	1.93478
93	sec-Butylbenzene	134	12.720	12.720	(0.985)	76094	2.00000	1.92772
94	m-Dichlorobenzene	146	12.845	12.845	(0.994)	117758	2.00000	1.87132
95	4-Isopropyltoluene	119	12.881	12.881	(0.997)	363594	2.00000	1.92926
97	p-dichlorobenzene	146	12.935	12.935	(1.001)	163487	2.00000	2.01214
98	n-Butylbenzene	91	13.295	13.295	(1.029)	363425	2.00000	1.99872
99	o-Dichlorobenzene	146	13.330	13.330	(1.032)	110953	2.00000	2.02397
100	1,2-Dibromo-3-chloropropane	157	14.103	14.103	(1.092)	7385	2.00000	1.88738
101	1,2,4-Trichlorobenzene	180	14.875	14.875	(1.152)	80944	2.00000	2.03720
102	Hexachlorobutadiene	225	15.037	15.037	(1.164)	77320	2.00000	2.06025
127	Naphthalene	128	15.109	15.109	(1.170)	71320	2.00000	1.97392(a)
104	1,2,3-Trichlorobenzene	180	15.360	15.360	(1.189)	62638	2.00000	2.11593

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4141.d
Lab Smp Id: MAIN002
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 0857
Client Smp ID: MAIN002
Level: LOW
Sample Type: WATER

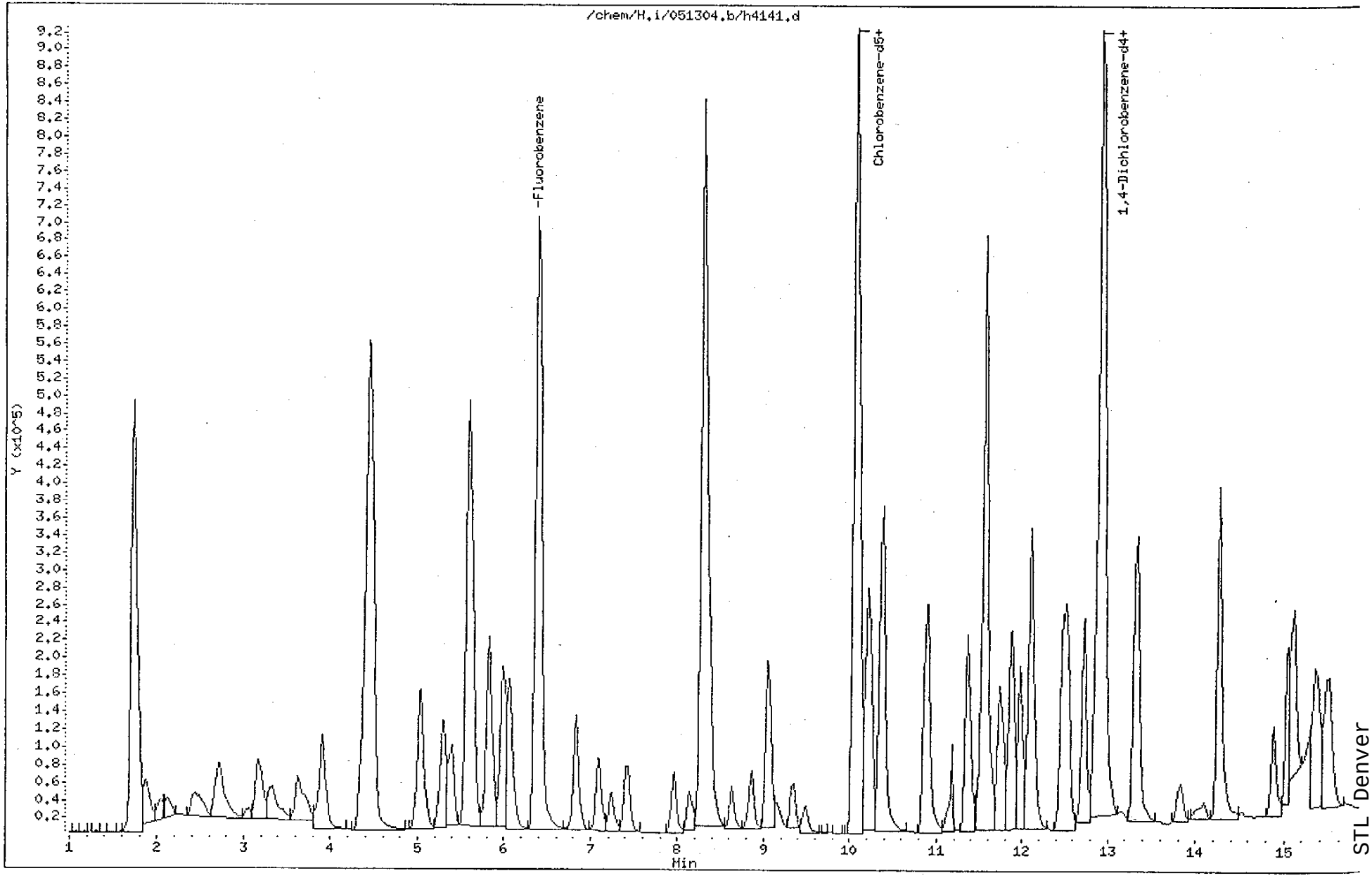
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1613156	806578	3226312	1576594	-2.27
72 Chlorobenzene-d5	325674	162837	651348	312368	-4.09
96 1,4-Dichlorobenze	462254	231127	924508	452439	-2.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.38	5.88	6.88	6.38	-0.01
72 Chlorobenzene-d5	10.06	9.56	10.56	10.04	-0.18
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

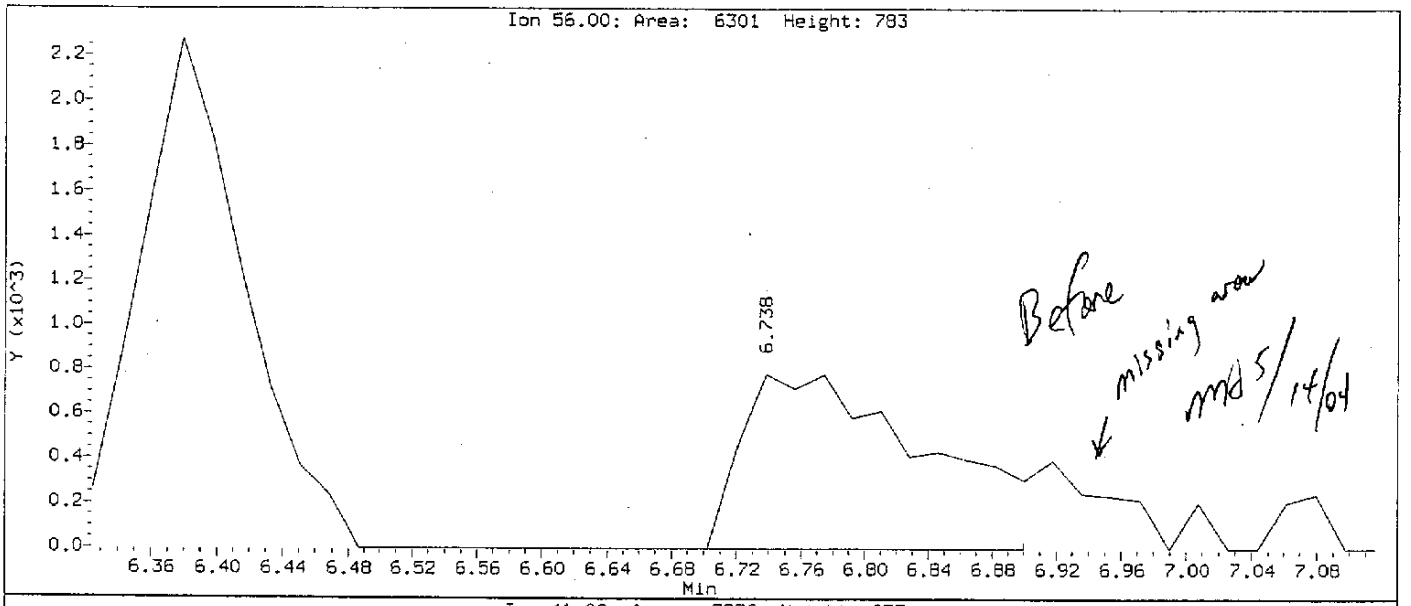
Data File: /chem/H.i/051304.b/h4141.d
Date : 13-MAY-2004 08:17
Client ID: MAIN002
Sample Info: MAIN002,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i
Operator: hoffmann
Column diameter: 0.53

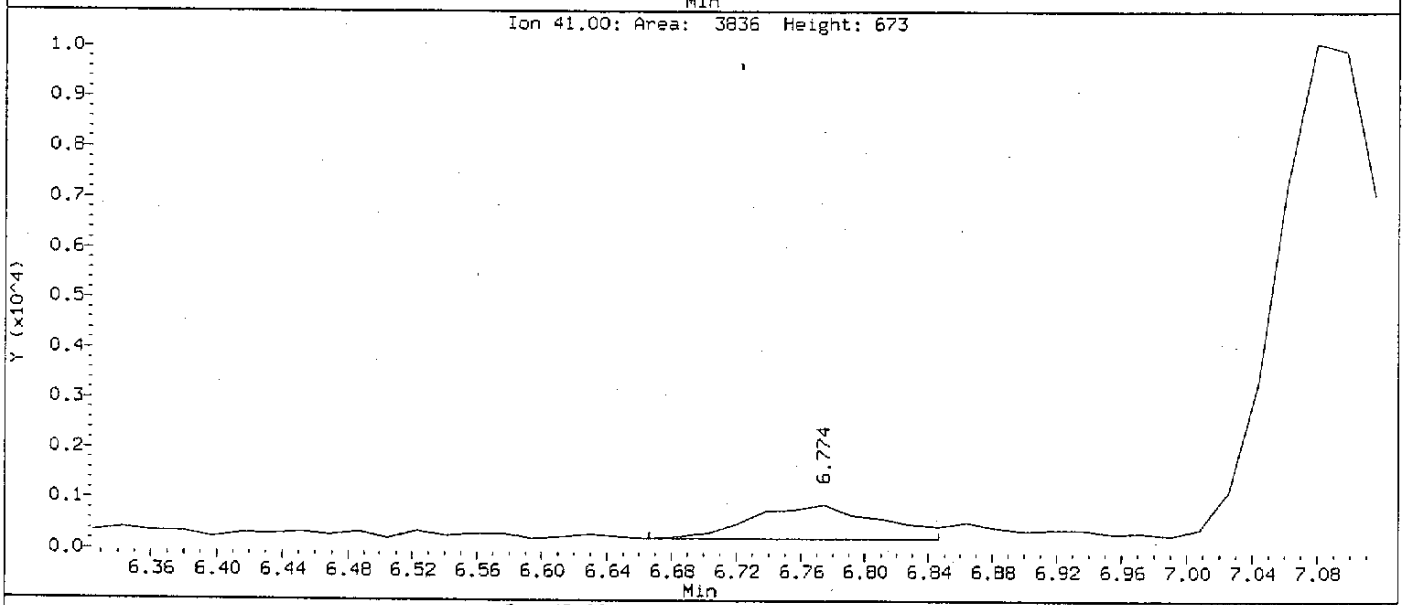


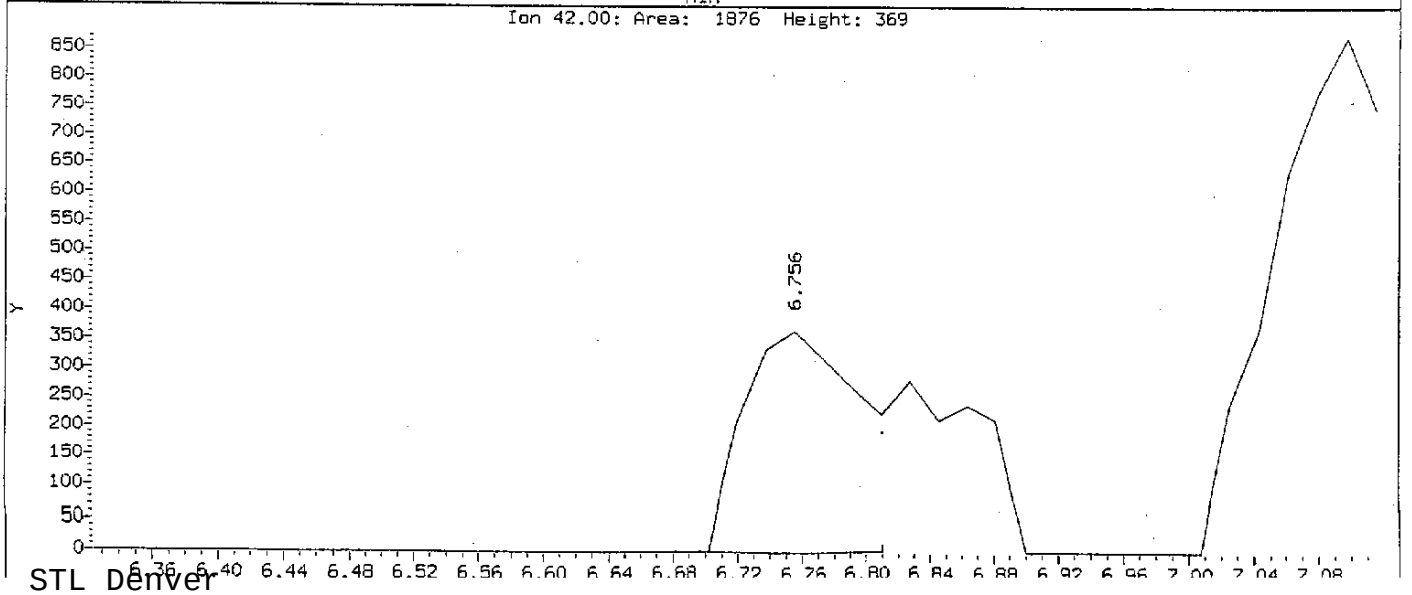
Data File: /chem/H.i/051304.b/h4141.d
Injection Date: 13-MAY-2004 08:17
Instrument: H.i
Client Sample ID: MAIN002

Compound: n-Butanol
CAS Number: 71-36-3



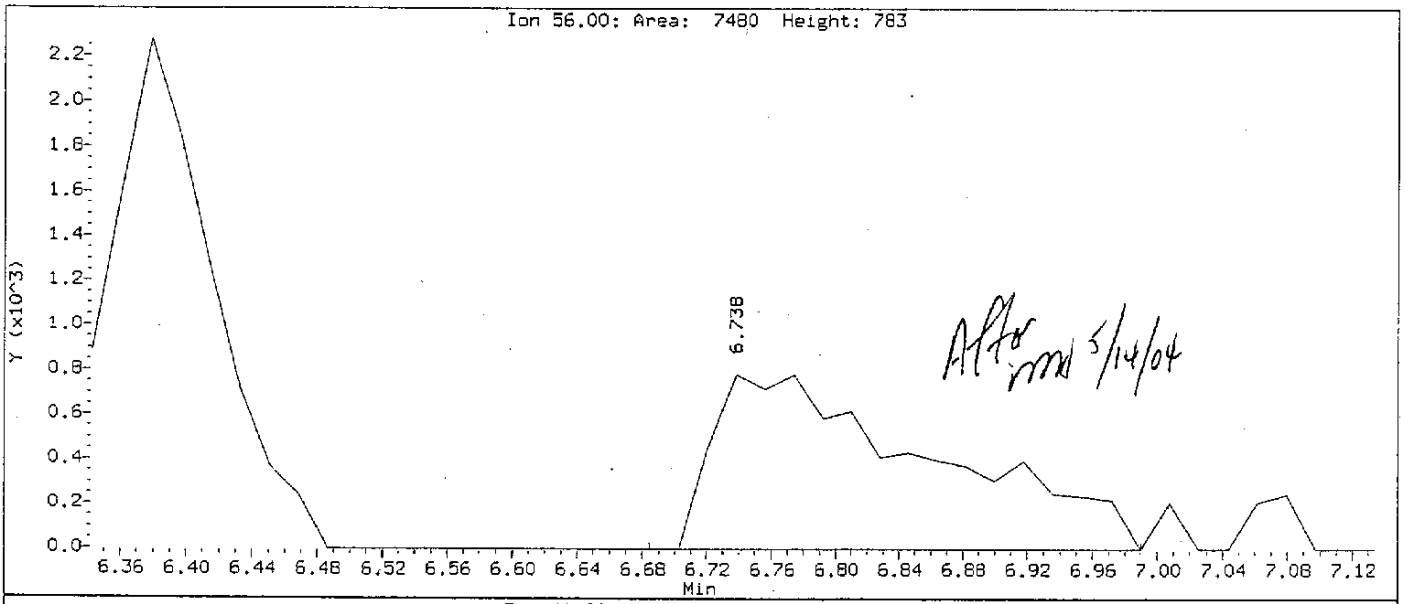
Before missing wow
md 5/14/04



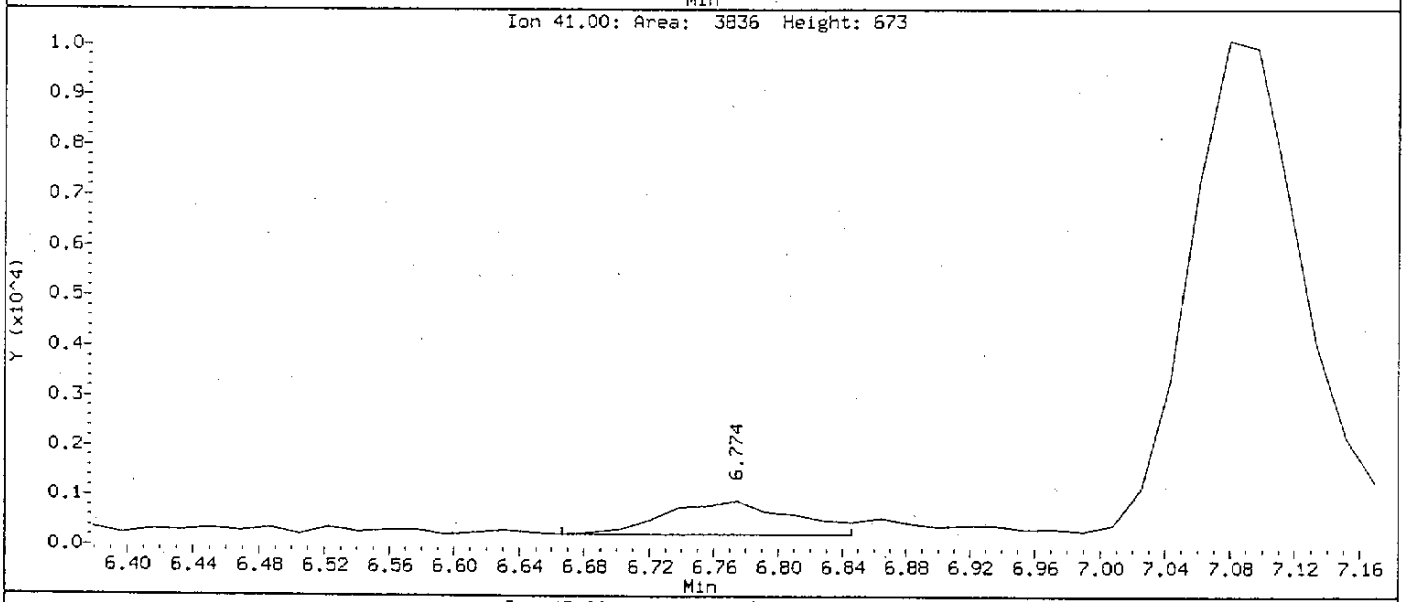


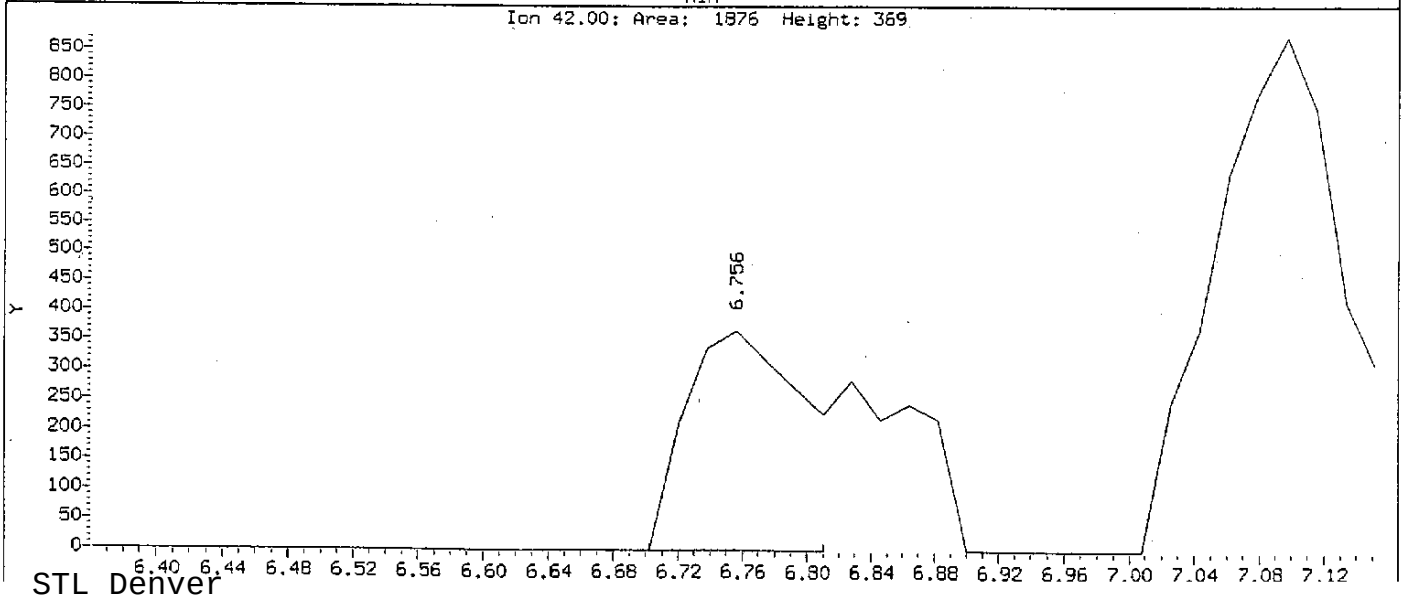
Data File: /chem/H.i/051304.b/h4141.d
Injection Date: 13-MAY-2004 08:17
Instrument: H.i
Client Sample ID: MAIN002

Compound: n-Butanol
CAS Number: 71-36-3



After rm 5/14/04





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VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4142.d
Lab Smp Id: MAIN005 Client Smp ID: MAIN005
Inj Date : 13-MAY-2004 08:37
Operator : hoffmanm Inst ID: H.i
Smp Info : MAIN005,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 10:54 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 07:58 Cal File: h4140.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.379	6.379	(1.000)	1581178	10.0000	
* 72	Chlorobenzene-d5	119	10.061	10.043	(1.000)	320656	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.918	12.917	(1.000)	440128	10.0000	
M 1	1,2-Dichloroethene (total)	96				460304	10.0000	10.0102
M 2	Xylene (total)	106				1055168	5.00000	14.9733
3	dichlorodifluoromethane	85	1.871	1.870	(0.293)	376351	5.00000	5.00545
4	Chloromethane	50	2.050	2.032	(0.321)	199908	5.00000	5.00759
5	Vinyl Chloride	62	2.140	2.140	(0.335)	190688	5.00000	5.12039
7	Bromomethane	94	2.427	2.427	(0.381)	177060	5.00000	5.17256
8	Chloroethane	64	2.517	2.517	(0.395)	136124	5.00000	4.97428
10	Trichlorofluoromethane	101	2.697	2.697	(0.423)	544143	5.00000	4.94767
11	Ethanol	45	2.823	2.822	(0.442)	20588	250.000	247.757
13	Acrolein	56	3.056	3.056	(0.479)	69743	50.0000	48.5906
14	1,1-Dichloroethene	96	3.164	3.164	(0.496)	229812	5.00000	5.01035
15	Acetone	43	3.182	3.182	(0.499)	51940	20.0000	20.3040
17	Iodomethane	142	3.326	3.325	(0.521)	354906	5.00000	5.39932

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 Acetonitrile	41	3.451	3.451	(0.541)	32926	50.0000	50.0310
21 Methylene Chloride	84	3.631	3.613	(0.569)	182515	5.00000	5.04520
22 tert-Butyl alcohol	59	3.721	3.720	(0.583)	95880	100.000	98.6964
23 Acrylonitrile	53	3.864	3.864	(0.606)	118612	50.0000	50.5226
24 trans-1,2-Dichloroethene	96	3.918	3.900	(0.614)	228054	5.00000	4.89681
27 1,1-Dichloroethane	63	4.367	4.367	(0.685)	443061	5.00000	5.03684
28 Chloroprene	53	4.475	4.457	(0.702)	370807	5.00000	4.97728
30 Isopropyl ether	87	4.421	4.421	(0.693)	759829	25.0000	25.6502
32 cis-1,2-Dichloroethene	96	5.032	5.014	(0.789)	232250	5.00000	5.11343
31 2,2-Dichloropropane	77	5.032	5.032	(0.789)	357930	5.00000	5.07029
33 2-Butanone	43	5.032	5.032	(0.789)	91026	20.0000	20.9449
34 Propionitrile	54	5.104	5.104	(0.800)	45626	50.0000	52.9260
36 Methacrylonitrile	41	5.283	5.283	(0.828)	334798	50.0000	50.6311
37 Bromochloromethane	128	5.301	5.301	(0.831)	89874	5.00000	5.21664
38 Chloroform	83	5.391	5.391	(0.845)	432720	5.00000	5.09401
41 1,1,1-Trichloroethane	97	5.625	5.625	(0.882)	477138	5.00000	5.07471
42 1,1-Dichloropropene	75	5.822	5.822	(0.913)	373978	5.00000	5.06666
43 Carbon Tetrachloride	117	5.822	5.822	(0.913)	444836	5.00000	5.09559
45 Isobutanol	41	5.948	5.948	(0.932)	28566	100.000	103.964
46 Benzene	78	6.056	6.056	(0.949)	646511	5.00000	5.12337
47 1,2-Dichloroethane	62	6.074	6.074	(0.952)	167651	5.00000	5.09109
49 n-Butanol	56	6.738	6.738	(1.056)	20568	100.000	108.159
50 Trichloroethene	130	6.828	6.828	(1.070)	275301	5.00000	5.15101
52 1,2-Dichloropropane	63	7.098	7.080	(1.113)	219446	5.00000	5.17636
53 Dibromomethane	93	7.241	7.223	(1.135)	114820	5.00000	5.17198
55 1,4-Dioxane	88	7.259	7.277	(1.138)	27640	250.000	266.543
56 Bromodichloromethane	83	7.421	7.421	(1.163)	329929	5.00000	5.15120
59 cis-1,3-Dichloropropene	75	7.960	7.960	(0.791)	266667	5.00000	5.14492
60 4-Methyl-2-pentanone	43	8.139	8.139	(0.809)	277955	20.0000	21.3232
62 Toluene	91	8.373	8.373	(0.832)	761046	5.00000	5.03350
63 trans-1,3-Dichloropropene	75	8.624	8.624	(0.857)	179449	5.00000	5.18766
65 1,1,2-Trichloroethane	97	8.858	8.858	(0.880)	112815	5.00000	5.03416
67 1,3-Dichloropropane	76	9.056	9.055	(0.900)	177500	5.00000	5.10696
66 Tetrachloroethene	164	9.038	9.037	(0.898)	241102	5.00000	5.12837
68 2-Hexanone	43	9.163	9.163	(0.911)	166570	20.0000	20.5997
69 Dibromochloromethane	129	9.343	9.343	(0.929)	199410	5.00000	5.21906
70 1,2-Dibromoethane	107	9.487	9.486	(0.943)	146736	5.00000	5.13629
71 1-Chlorohexane	91	10.061	10.061	(1.000)	383807	5.00000	5.04763
73 Chlorobenzene	112	10.097	10.079	(1.004)	514775	5.00000	5.07586
74 1,1,1,2-Tetrachloroethane	131	10.187	10.187	(1.012)	212151	5.00000	5.15227
75 Ethylbenzene	106	10.223	10.223	(1.016)	268162	5.00000	5.07458
76 m and p-Xylene	106	10.367	10.367	(1.030)	733622	10.0000	10.0067
77 o-Xylene	106	10.870	10.870	(1.080)	321546	5.00000	4.96665
78 Styrene	104	10.888	10.888	(1.082)	491056	5.00000	5.16101
79 Bromoform	173	11.139	11.139	(1.107)	100030	5.00000	5.25873
80 isopropyl benzene	105	11.355	11.355	(1.129)	1074807	5.00000	4.96260
81 Cyclohexanone	55	11.481	11.462	(1.141)	103328	200.000	199.400

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 1,1,2,2-Tetrachloroethane	83	11.732	11.714	(1.166)	129900	5.00000	5.04419
84 Bromobenzene	156	11.732	11.732	(0.908)	194839	5.00000	5.20928
85 1,2,3-Trichloropropane	110	11.786	11.786	(0.912)	34520	5.00000	5.14646
87 n-Propylbenzene	120	11.876	11.876	(0.919)	248159	5.00000	5.15228
88 2-Chlorotoluene	126	11.983	11.983	(0.928)	189327	5.00000	5.14904
89 1,3,5-Trimethylbenzene	105	12.091	12.091	(0.936)	799664	5.00000	5.16384
90 4-Chlorotoluene	126	12.109	12.109	(0.937)	206484	5.00000	5.08113
91 tert-Butylbenzene	119	12.468	12.468	(0.965)	829298	5.00000	5.07924
92 1,2,4-Trimethylbenzene	105	12.522	12.522	(0.969)	724201	5.00000	5.09497
93 sec-Butylbenzene	134	12.720	12.720	(0.985)	195297	5.00000	5.04961
94 m-Dichlorobenzene	146	12.846	12.845	(0.994)	302602	5.00000	5.06906
95 4-Isopropyltoluene	119	12.882	12.881	(0.997)	936679	5.00000	5.08806
97 p-dichlorobenzene	146	12.935	12.935	(1.001)	412640	5.00000	5.13352
98 n-Butylbenzene	91	13.295	13.295	(1.029)	909638	5.00000	5.06071
99 o-Dichlorobenzene	146	13.331	13.330	(1.032)	272785	5.00000	5.14121
100 1,2-Dibromo-3-chloropropane	157	14.103	14.103	(1.092)	19647	5.00000	5.38000
101 1,2,4-Trichlorobenzene	180	14.875	14.875	(1.152)	199134	5.00000	5.06576
102 Hexachlorobutadiene	225	15.037	15.037	(1.164)	188189	5.00000	4.99966
127 Naphthalene	128	15.109	15.109	(1.170)	183311	5.00000	5.22448
104 1,2,3-Trichlorobenzene	180	15.360	15.360	(1.189)	147460	5.00000	4.98957

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4142.d
Lab Smp Id: MAIN005
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 0857
Client Smp ID: MAIN005
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1613156	806578	3226312	1581178	-1.98
72 Chlorobenzene-d5	325674	162837	651348	320656	-1.54
96 1,4-Dichlorobenze	462254	231127	924508	440128	-4.79

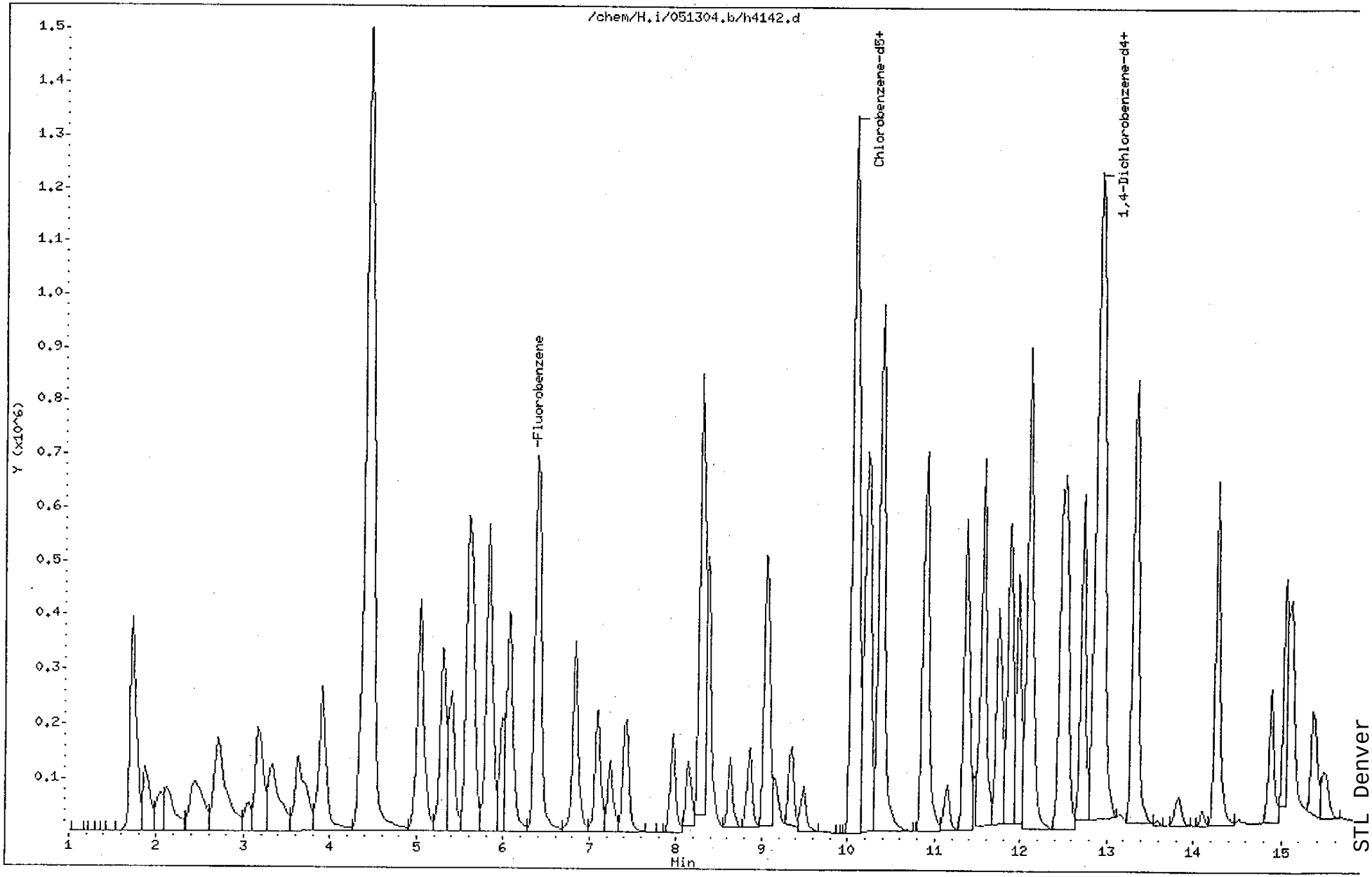
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.38	5.88	6.88	6.38	0.00
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

Data File: /chem/H.i/051304.b/h4142.d
Date : 13-MAY-2004 08:37
Client ID: MAIN005
Sample Info: MAIN005,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmann
Column diameter: 0.53



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VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4143.d
Lab Smp Id: MAIN010 Client Smp ID: MAIN010
Inj Date : 13-MAY-2004 08:57
Operator : hoffmanm Inst ID: H.i
Smp Info : MAIN010,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 10:54 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 08:57 Cal File: h4143.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.379	6.379	(1.000)	1613156	10.0000	
* 72	Chlorobenzene-d5	119	10.062	10.043	(1.000)	325674	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.918	12.917	(1.000)	462254	10.0000	
M 1	1,2-Dichloroethene (total)	96				939677	20.0000	20.0000
M 2	Xylene (total)	106				2091156	10.0000	30.0000
3	dichlorodifluoromethane	85	1.871	1.870	(0.293)	763995	10.0000	10.0000
4	Chloromethane	50	2.050	2.032	(0.321)	407253	10.0000	10.0000
5	Vinyl Chloride	62	2.122	2.140	(0.333)	389518	10.0000	10.0000
7	Bromomethane	94	2.428	2.427	(0.381)	353602	10.0000	10.0000
8	Chloroethane	64	2.517	2.517	(0.395)	274007	10.0000	10.0000
10	Trichlorofluoromethane	101	2.697	2.697	(0.423)	1129809	10.0000	10.0000
11	Ethanol	45	2.823	2.822	(0.442)	38864	500.000	500.000
13	Acrolein	56	3.056	3.056	(0.479)	147412	100.000	100.000
14	1,1-Dichloroethene	96	3.164	3.164	(0.496)	453642	10.0000	10.0000
15	Acetone	43	3.182	3.182	(0.499)	101332	40.0000	40.0000
17	Iodomethane	142	3.326	3.325	(0.521)	730530	10.0000	10.0000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 Acetonitrile	41	3.451	3.451	(0.541)	63837	100.000	100.000
21 Methylene Chloride	84	3.613	3.613	(0.566)	350941	10.0000	10.0000
22 tert-Butyl alcohol	59	3.721	3.720	(0.583)	189590	200.000	200.000
23 Acrylonitrile	53	3.865	3.864	(0.606)	238382	100.000	100.000
24 trans-1,2-Dichloroethene	96	3.900	3.900	(0.611)	473058	10.0000	10.0000
27 1,1-Dichloroethane	63	4.367	4.367	(0.685)	892526	10.0000	10.0000
28 Chloroprene	53	4.457	4.457	(0.699)	757161	10.0000	10.0000
30 Isopropyl ether	87	4.421	4.421	(0.693)	1539106	50.0000	50.0000
32 cis-1,2-Dichloroethene	96	5.032	5.014	(0.789)	466619	10.0000	10.0000
31 2,2-Dichloropropane	77	5.032	5.032	(0.789)	689592	10.0000	10.0000
33 2-Butanone	43	5.032	5.032	(0.789)	187270	40.0000	40.0000
34 Propionitrile	54	5.104	5.104	(0.800)	90108	100.000	100.000
36 Methacrylonitrile	41	5.284	5.283	(0.828)	695864	100.000	100.000
37 Bromochloromethane	128	5.302	5.301	(0.831)	179911	10.0000	10.0000
38 Chloroform	83	5.391	5.391	(0.845)	857792	10.0000	10.0000
41 1,1,1-Trichloroethane	97	5.625	5.625	(0.882)	948332	10.0000	10.0000
42 1,1-Dichloropropene	75	5.822	5.822	(0.913)	747331	10.0000	10.0000
43 Carbon Tetrachloride	117	5.822	5.822	(0.913)	887590	10.0000	10.0000
45 Isobutanol	41	5.930	5.948	(0.930)	61976	200.000	200.000
46 Benzene	78	6.056	6.056	(0.949)	1282115	10.0000	10.0000
47 1,2-Dichloroethane	62	6.074	6.074	(0.952)	330403	10.0000	10.0000
49 n-Butanol	56	6.739	6.738	(1.056)	42203	200.000	200.000
50 Trichloroethene	130	6.828	6.828	(1.070)	546511	10.0000	10.0000
52 1,2-Dichloropropane	63	7.098	7.080	(1.113)	427421	10.0000	10.0000
53 Dibromomethane	93	7.224	7.223	(1.132)	224314	10.0000	10.0000
55 1,4-Dioxane	88	7.259	7.277	(1.138)	54860	500.000	500.000
56 Bromodichloromethane	83	7.421	7.421	(1.163)	654463	10.0000	10.0000
59 cis-1,3-Dichloropropene	75	7.960	7.960	(0.791)	524464	10.0000	10.0000
60 4-Methyl-2-pentanone	43	8.140	8.139	(0.809)	537395	40.0000	40.0000
62 Toluene	91	8.373	8.373	(0.832)	1499976	10.0000	10.0000
63 trans-1,3-Dichloropropene	75	8.625	8.624	(0.857)	343104	10.0000	10.0000
65 1,1,2-Trichloroethane	97	8.858	8.858	(0.880)	218677	10.0000	10.0000
67 1,3-Dichloropropane	76	9.056	9.055	(0.900)	351856	10.0000	10.0000
66 Tetrachloroethene	164	9.038	9.037	(0.898)	484509	10.0000	10.0000
68 2-Hexanone	43	9.164	9.163	(0.911)	340034	40.0000	40.0000
69 Dibromochloromethane	129	9.343	9.343	(0.929)	387251	10.0000	10.0000
70 1,2-Dibromoethane	107	9.487	9.486	(0.943)	290839	10.0000	10.0000
71 1-Chlorohexane	91	10.062	10.061	(1.000)	754844	10.0000	10.0000
73 Chlorobenzene	112	10.098	10.079	(1.004)	1012078	10.0000	10.0000
74 1,1,1,2-Tetrachloroethane	131	10.187	10.187	(1.012)	422994	10.0000	10.0000
75 Ethylbenzene	106	10.223	10.223	(1.016)	532995	10.0000	10.0000
76 m and p-Xylene	106	10.367	10.367	(1.030)	1455024	20.0000	20.0000
77 o-Xylene	106	10.870	10.870	(1.080)	636132	10.0000	10.0000
78 Styrene	104	10.888	10.888	(1.082)	987828	10.0000	10.0000
79 Bromoform	173	11.139	11.139	(1.107)	199848	10.0000	10.0000
80 isopropyl benzene	105	11.355	11.355	(1.129)	2155866	10.0000	10.0000
81 Cyclohexanone	55	11.463	11.462	(1.139)	202393	400.000	400.000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 1,1,2,2-Tetrachloroethane	83	11.732	11.714	(1.166)	253935	10.0000	10.0000
84 Bromobenzene	156	11.732	11.732	(0.908)	390611	10.0000	10.0000
85 1,2,3-Trichloropropane	110	11.786	11.786	(0.912)	67508	10.0000	10.0000
87 n-Propylbenzene	120	11.876	11.876	(0.919)	496263	10.0000	10.0000
88 2-Chlorotoluene	126	11.984	11.983	(0.928)	384136	10.0000	10.0000
89 1,3,5-Trimethylbenzene	105	12.091	12.091	(0.936)	1617660	10.0000	10.0000
90 4-Chlorotoluene	126	12.109	12.109	(0.937)	423530	10.0000	10.0000
91 tert-Butylbenzene	119	12.469	12.468	(0.965)	1700897	10.0000	10.0000
92 1,2,4-Trimethylbenzene	105	12.523	12.522	(0.969)	1492683	10.0000	10.0000
93 sec-Butylbenzene	134	12.720	12.720	(0.985)	400880	10.0000	10.0000
94 m-Dichlorobenzene	146	12.846	12.845	(0.994)	620165	10.0000	10.0000
95 4-Isopropyltoluene	119	12.882	12.881	(0.997)	1935417	10.0000	10.0000
97 p-dichlorobenzene	146	12.936	12.935	(1.001)	833102	10.0000	10.0000
98 n-Butylbenzene	91	13.295	13.295	(1.029)	1869051	10.0000	10.0000
99 o-Dichlorobenzene	146	13.331	13.330	(1.032)	554105	10.0000	10.0000
100 1,2-Dibromo-3-chloropropane	157	14.103	14.103	(1.092)	40343	10.0000	10.0000
101 1,2,4-Trichlorobenzene	180	14.876	14.875	(1.152)	415963	10.0000	10.0000
102 Hexachlorobutadiene	225	15.037	15.037	(1.164)	403811	10.0000	10.0000
127 Naphthalene	128	15.109	15.109	(1.170)	363240	10.0000	10.0000
104 1,2,3-Trichlorobenzene	180	15.343	15.360	(1.188)	303679	10.0000	10.0000

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4143.d
Lab Smp Id: MAIN010
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 0857
Client Smp ID: MAIN010
Level: LOW
Sample Type: WATER

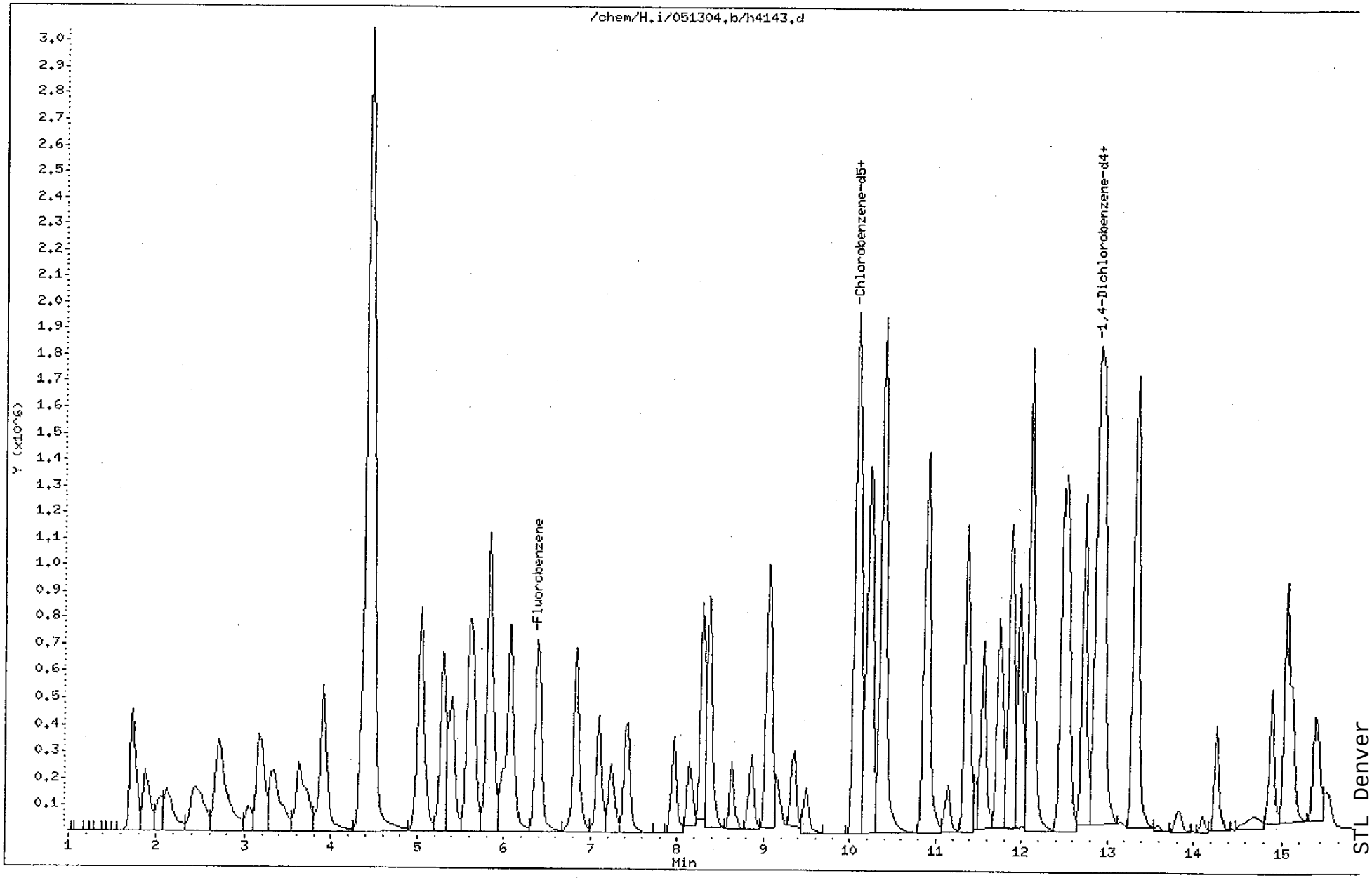
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1613156	806578	3226312	1613156	0.00
72 Chlorobenzene-d5	325674	162837	651348	325674	0.00
96 1,4-Dichlorobenze	462254	231127	924508	462254	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.38	5.88	6.88	6.38	0.00
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

Data File: /chem/H.i/051304.b/h4143.d
Date : 13-MAY-2004 08:57
Client ID: MAIN010
Sample Info: MAIN010,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i
Operator: hoffmanm
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4144.d
Lab Smp Id: MAIN030 Client Smp ID: MAIN030
Inj Date : 13-MAY-2004 09:16
Operator : hoffmanm Inst ID: H.i
Smp Info : MAIN030,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 10:54 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 09:16 Cal File: h4144.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.396	6.379	(1.000)	1568340	10.0000	
* 72	Chlorobenzene-d5	119	10.061	10.043	(1.000)	307040	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.917	12.917	(1.000)	429944	10.0000	
M 1	1,2-Dichloroethene (total)	96				2816960	60.0000	61.3912
M 2	Xylene (total)	106				6051182	30.0000	89.7060
3	dichlorodifluoromethane	85	1.888	1.870	(0.295)	2210064	30.0000	29.7068
4	Chloromethane	50	2.049	2.032	(0.320)	1205000	30.0000	30.3444
5	Vinyl Chloride	62	2.139	2.140	(0.334)	1158287	30.0000	31.0760
7	Bromomethane	94	2.427	2.427	(0.379)	1073912	30.0000	31.2897
8	Chloroethane	64	2.516	2.517	(0.393)	798757	30.0000	29.5401
10	Trichlorofluoromethane	101	2.714	2.697	(0.424)	3328719	30.0000	30.4102
11	Ethanol	45	2.822	2.822	(0.441)	114577	1500.00	1416.05
13	Acrolein	56	3.055	3.056	(0.478)	438611	300.000	306.024
14	1,1-Dichloroethene	96	3.181	3.164	(0.497)	1353923	30.0000	29.8075
15	Acetone	43	3.199	3.182	(0.500)	293493	120.000	116.722
17	Iodomethane	142	3.325	3.325	(0.520)	2293114	30.0000	33.9994

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 Acetonitrile	41	3.468	3.451	(0.542)	195550	300.000	299.677
21 Methylene Chloride	84	3.630	3.613	(0.568)	1039169	30.0000	29.2136
22 tert-Butyl alcohol	59	3.720	3.720	(0.582)	579367	600.000	601.013
23 Acrylonitrile	53	3.864	3.864	(0.604)	730708	300.000	310.933
24 trans-1,2-Dichloroethene	96	3.917	3.900	(0.612)	1418210	30.0000	30.5584
27 1,1-Dichloroethane	63	4.367	4.367	(0.683)	2724836	30.0000	30.9762
28 Chloroprene	53	4.474	4.457	(0.700)	2345130	30.0000	31.3729
30 Isopropyl ether	87	4.438	4.421	(0.694)	4763055	150.000	159.531
32 cis-1,2-Dichloroethene	96	5.031	5.014	(0.787)	1398750	30.0000	30.8328
31 2,2-Dichloropropane	77	5.031	5.032	(0.787)	2001374	30.0000	28.8554
33 2-Butanone	43	5.031	5.032	(0.787)	568221	120.000	129.271
34 Propionitrile	54	5.103	5.104	(0.798)	281390	300.000	322.824
36 Methacrylonitrile	41	5.283	5.283	(0.826)	2124072	300.000	318.781
37 Bromochloromethane	128	5.319	5.301	(0.832)	541754	30.0000	31.3471
38 Chloroform	83	5.390	5.391	(0.843)	2568937	30.0000	30.3901
41 1,1,1-Trichloroethane	97	5.624	5.625	(0.879)	2791842	30.0000	29.9490
42 1,1-Dichloropropene	75	5.821	5.822	(0.910)	2218951	30.0000	30.2463
43 Carbon Tetrachloride	117	5.839	5.822	(0.913)	2647460	30.0000	30.4582
45 Isobutanol	41	5.929	5.948	(0.927)	194840	600.000	682.246
46 Benzene	78	6.073	6.056	(0.949)	3808380	30.0000	30.3407
47 1,2-Dichloroethane	62	6.073	6.074	(0.949)	980144	30.0000	30.0063
49 n-Butanol	56	6.738	6.738	(1.053)	142687	600.000	710.173
50 Trichloroethene	130	6.827	6.828	(1.067)	1646230	30.0000	30.8372
52 1,2-Dichloropropane	63	7.097	7.080	(1.110)	1270231	30.0000	30.1661
53 Dibromomethane	93	7.241	7.223	(1.132)	665033	30.0000	30.1607
55 1,4-Dioxane	88	7.258	7.277	(1.135)	167009	1500.00	1590.91
56 Bromodichloromethane	83	7.420	7.421	(1.160)	1935841	30.0000	30.3763
59 cis-1,3-Dichloropropene	75	7.959	7.960	(0.791)	1560074	30.0000	31.1363
60 4-Methyl-2-pentanone	43	8.139	8.139	(0.809)	1594205	120.000	126.099
62 Toluene	91	8.372	8.373	(0.832)	4392408	30.0000	30.2709
63 trans-1,3-Dichloropropene	75	8.624	8.624	(0.857)	1056252	30.0000	31.4925
65 1,1,2-Trichloroethane	97	8.857	8.858	(0.880)	642482	30.0000	29.9527
67 1,3-Dichloropropane	76	9.055	9.055	(0.900)	1035738	30.0000	30.8904
66 Tetrachloroethene	164	9.055	9.037	(0.900)	1426642	30.0000	31.3378
68 2-Hexanone	43	9.163	9.163	(0.911)	1016913	120.000	128.902
69 Dibromochloromethane	129	9.342	9.343	(0.929)	1160585	30.0000	31.3623
70 1,2-Dibromoethane	107	9.486	9.486	(0.943)	858640	30.0000	31.1005
71 1-Chlorohexane	91	10.061	10.061	(1.000)	2215515	30.0000	30.3426
73 Chlorobenzene	112	10.097	10.079	(1.004)	2962591	30.0000	30.4047
74 1,1,1,2-Tetrachloroethane	131	10.186	10.187	(1.012)	1266029	30.0000	31.6647
75 Ethylbenzene	106	10.222	10.223	(1.016)	1536629	30.0000	30.2937
76 m and p-Xylene	106	10.366	10.367	(1.030)	4229445	60.0000	60.1986
77 o-Xylene	106	10.869	10.870	(1.080)	1821737	30.0000	29.5073
78 Styrene	104	10.887	10.888	(1.082)	2855289	30.0000	31.0625
79 Bromoform	173	11.138	11.139	(1.107)	594031	30.0000	32.0554
80 isopropyl benzene	105	11.354	11.355	(1.129)	6108711	30.0000	29.5632
81 Cyclohexanone	55	11.462	11.462	(1.139)	578427	1200.00	1172.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83	1,1,2,2-Tetrachloroethane	83	11.731	11.714	(1.166)	718347	30.0000	29.3010
84	Bromobenzene	156	11.749	11.732	(0.910)	1105845	30.0000	30.2129
85	1,2,3-Trichloropropane	110	11.785	11.786	(0.912)	193181	30.0000	29.5848
87	n-Propylbenzene	120	11.875	11.876	(0.919)	1393636	30.0000	29.6953
88	2-Chlorotoluene	126	11.983	11.983	(0.928)	1074988	30.0000	29.9427
89	1,3,5-Trimethylbenzene	105	12.090	12.091	(0.936)	4584999	30.0000	30.2467
90	4-Chlorotoluene	126	12.108	12.109	(0.937)	1189129	30.0000	29.9640
91	tert-Butylbenzene	119	12.468	12.468	(0.965)	4783446	30.0000	29.9931
92	1,2,4-Trimethylbenzene	105	12.522	12.522	(0.969)	4136391	30.0000	29.8318
93	sec-Butylbenzene	134	12.719	12.720	(0.985)	1110495	30.0000	29.5125
94	m-Dichlorobenzene	146	12.845	12.845	(0.994)	1936300	30.0000	32.5099
95	4-Isopropyltoluene	119	12.881	12.881	(0.997)	5325291	30.0000	29.6890
97	p-dichlorobenzene	146	12.935	12.935	(1.001)	2125678	30.0000	27.6103
98	n-Butylbenzene	91	13.294	13.295	(1.029)	5008516	30.0000	28.8079
99	o-Dichlorobenzene	146	13.330	13.330	(1.032)	1552699	30.0000	29.9656
100	1,2-Dibromo-3-chloropropane	157	14.102	14.103	(1.092)	115936	30.0000	31.9665
101	1,2,4-Trichlorobenzene	180	14.875	14.875	(1.152)	1079158	30.0000	28.4629
102	Hexachlorobutadiene	225	15.036	15.037	(1.164)	1028161	30.0000	28.3475
127	Naphthalene	128	15.108	15.109	(1.170)	978485	30.0000	28.8270
104	1,2,3-Trichlorobenzene	180	15.342	15.360	(1.188)	786290	30.0000	27.7470

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4144.d
Lab Smp Id: MAIN030
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 0857
Client Smp ID: MAIN030
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1613156	806578	3226312	1568340	-2.78
72 Chlorobenzene-d5	325674	162837	651348	307040	-5.72
96 1,4-Dichlorobenze	462254	231127	924508	429944	-6.99

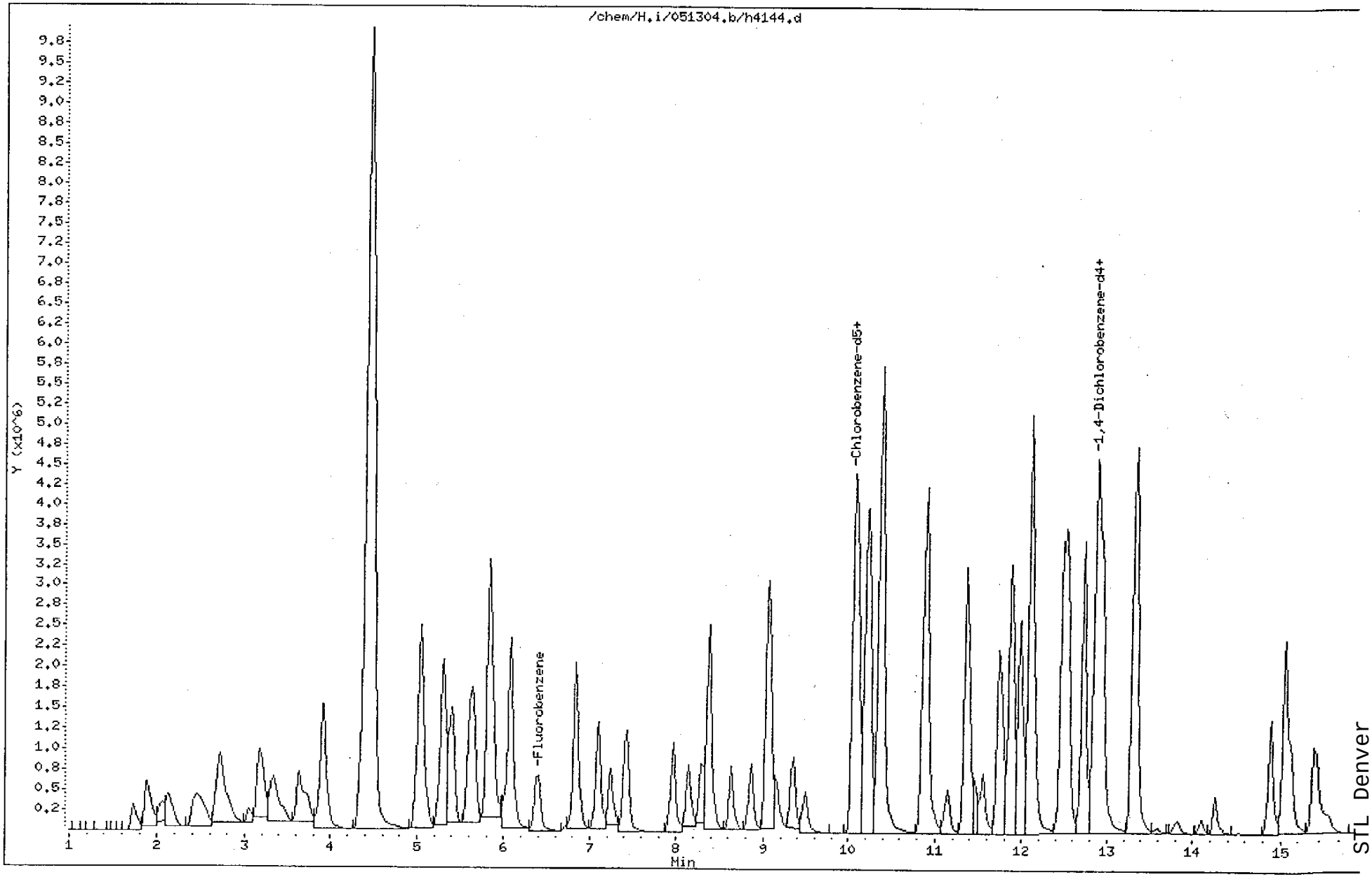
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.38	5.88	6.88	6.40	0.27
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	-0.01
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	-0.01

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

Data File: /chem/H.i/051304.b/h4144.d
Date : 13-MAY-2004 09:16
Client ID: MAIN030
Sample Info: MAIN030,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmann
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4145.d
Lab Smp Id: MAIN060 Client Smp ID: MAIN060
Inj Date : 13-MAY-2004 09:36
Operator : hoffmanm Inst ID: H.i
Smp Info : MAIN060,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 10:54 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 09:36 Cal File: h4145.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.382	6.379	(1.000)	1547959	10.0000	
* 72	Chlorobenzene-d5	119	10.065	10.043	(1.000)	308257	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.921	12.917	(1.000)	405667	10.0000	
M 1	1,2-Dichloroethene (total)	96				5770586	120.000	126.121
M 2	Xylene (total)	106				11622005	60.0000	172.964
3	dichlorodifluoromethane	85	1.874	1.870	(0.294)	4230659	60.0000	57.9997
4	Chloromethane	50	2.054	2.032	(0.322)	2287356	60.0000	58.6260
5	Vinyl Chloride	62	2.125	2.140	(0.333)	2232260	60.0000	60.5643(A)
7	Bromomethane	94	2.431	2.427	(0.381)	2135615	60.0000	62.5146(A)
8	Chloroethane	64	2.521	2.517	(0.395)	1564401	60.0000	58.8434
10	Trichlorofluoromethane	101	2.700	2.697	(0.423)	6557388	60.0000	60.5781(A)
11	Ethanol	45	2.826	2.822	(0.443)	235499	3000.00	2958.93
13	Acrolein	56	3.041	3.056	(0.477)	916992	600.000	637.965(A)
14	1,1-Dichloroethene	96	3.167	3.164	(0.496)	2757095	60.0000	61.2436(A)
15	Acetone	43	3.185	3.182	(0.499)	599701	240.000	241.312(A)
17	Iodomethane	142	3.329	3.325	(0.522)	4738601	60.0000	69.0384(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 Acetonitrile	41	3.455	3.451	(0.541)	386892	600.000	600.570(A)
21 Methylene Chloride	84	3.616	3.613	(0.567)	2108711	60.0000	60.0492(A)
22 tert-Butyl alcohol	59	3.724	3.720	(0.583)	1186117	1200.00	1238.61(A)
23 Acrylonitrile	53	3.868	3.864	(0.606)	1530277	600.000	648.971(A)
24 trans-1,2-Dichloroethene	96	3.904	3.900	(0.612)	2893648	60.0000	62.6193(A)
27 1,1-Dichloroethane	63	4.371	4.367	(0.685)	5699128	60.0000	64.6285(A)
28 Chloroprene	53	4.460	4.457	(0.699)	4891486	60.0000	65.1592(A)
30 Isopropyl ether	87	4.425	4.421	(0.693)	9704581	300.000	324.042(A)
32 cis-1,2-Dichloroethene	96	5.035	5.014	(0.789)	2876938	60.0000	63.5016(A)
31 2,2-Dichloropropane	77	5.035	5.032	(0.789)	3913488	60.0000	57.6202
33 2-Butanone	43	5.035	5.032	(0.789)	1191607	240.000	268.205(A)
34 Propionitrile	54	5.107	5.104	(0.800)	574509	600.000	655.441(A)
36 Methacrylonitrile	41	5.287	5.283	(0.828)	4411709	600.000	657.885(A)
37 Bromochloromethane	128	5.305	5.301	(0.831)	1119400	60.0000	64.6143(A)
38 Chloroform	83	5.395	5.391	(0.845)	5259395	60.0000	62.5097(A)
41 1,1,1-Trichloroethane	97	5.628	5.625	(0.882)	5608270	60.0000	60.7929(A)
42 1,1-Dichloropropene	75	5.826	5.822	(0.913)	4548754	60.0000	62.3317(A)
43 Carbon Tetrachloride	117	5.826	5.822	(0.913)	5404997	60.0000	62.4805(A)
45 Isobutanol	41	5.933	5.948	(0.930)	399254	1200.00	1367.11(A)
46 Benzene	78	6.059	6.056	(0.949)	7738646	60.0000	62.0396(A)
47 1,2-Dichloroethane	62	6.077	6.074	(0.952)	2003389	60.0000	61.7725(A)
49 n-Butanol	56	6.724	6.738	(1.053)	300687	1200.00	1440.34(A)
50 Trichloroethene	130	6.832	6.828	(1.070)	3283124	60.0000	61.9121(A)
52 1,2-Dichloropropane	63	7.083	7.080	(1.110)	2564142	60.0000	61.4069(A)
53 Dibromomethane	93	7.227	7.223	(1.132)	1341700	60.0000	61.3688(A)
55 1,4-Dioxane	88	7.263	7.277	(1.138)	332769	3000.00	3166.97(A)
56 Bromodichloromethane	83	7.406	7.421	(1.160)	3927679	60.0000	62.0218(A)
59 cis-1,3-Dichloropropene	75	7.963	7.960	(0.791)	3138481	60.0000	61.9795(A)
60 4-Methyl-2-pentanone	43	8.143	8.139	(0.809)	3146937	240.000	246.576(A)
62 Toluene	91	8.376	8.373	(0.832)	8729153	60.0000	59.9338
63 trans-1,3-Dichloropropene	75	8.628	8.624	(0.857)	2098945	60.0000	61.9322(A)
65 1,1,2-Trichloroethane	97	8.843	8.858	(0.879)	1251905	60.0000	58.4368
67 1,3-Dichloropropane	76	9.059	9.055	(0.900)	2048996	60.0000	60.7225(A)
66 Tetrachloroethene	164	9.041	9.037	(0.898)	2842235	60.0000	61.8110(A)
68 2-Hexanone	43	9.149	9.163	(0.909)	2039665	240.000	254.428(A)
69 Dibromochloromethane	129	9.346	9.343	(0.929)	2345014	60.0000	62.5767(A)
70 1,2-Dibromoethane	107	9.490	9.486	(0.943)	1695937	60.0000	60.9846(A)
71 1-Chlorohexane	91	10.065	10.061	(1.000)	4175960	60.0000	57.4502
73 Chlorobenzene	112	10.083	10.079	(1.002)	5854617	60.0000	59.8733
74 1,1,1,2-Tetrachloroethane	131	10.191	10.187	(1.012)	2551818	60.0000	62.9471(A)
75 Ethylbenzene	106	10.226	10.223	(1.016)	2980056	60.0000	58.7599
76 m and p-Xylene	106	10.370	10.367	(1.030)	8116361	120.000	115.860
77 o-Xylene	106	10.873	10.870	(1.080)	3505644	60.0000	57.1040
78 Styrene	104	10.891	10.888	(1.082)	5468094	60.0000	59.3755
79 Bromoform	173	11.143	11.139	(1.107)	1181234	60.0000	62.8810(A)
80 isopropyl benzene	105	11.358	11.355	(1.128)	11599974	60.0000	56.5581
81 Cyclohexanone	55	11.466	11.462	(1.139)	1195374	2400.00	2411.13(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83	1,1,2,2-Tetrachloroethane	83	11.717	11.714	(1.164)	1425964	60.0000	58.2690
84	Bromobenzene	156	11.735	11.732	(0.908)	2155662	60.0000	62.0028(A)
85	1,2,3-Trichloropropane	110	11.771	11.786	(0.911)	372566	60.0000	60.3924(A)
87	n-Propylbenzene	120	11.879	11.876	(0.919)	2607568	60.0000	59.0692
88	2-Chlorotoluene	126	11.987	11.983	(0.928)	2075208	60.0000	61.0480(A)
89	1,3,5-Trimethylbenzene	105	12.095	12.091	(0.936)	8697811	60.0000	60.6753(A)
90	4-Chlorotoluene	126	12.113	12.109	(0.937)	2214463	60.0000	59.2817
91	tert-Butylbenzene	119	12.472	12.468	(0.965)	9228574	60.0000	61.1024(A)
92	1,2,4-Trimethylbenzene	105	12.526	12.522	(0.969)	7791939	60.0000	59.6318
93	sec-Butylbenzene	134	12.723	12.720	(0.985)	2090468	60.0000	59.0646
94	m-Dichlorobenzene	146	12.849	12.845	(0.994)	3452872	60.0000	61.1969(A)
95	4-Isopropyltoluene	119	12.885	12.881	(0.997)	10060523	60.0000	59.5368
97	p-dichlorobenzene	146	12.939	12.935	(1.001)	4433906	60.0000	60.8628(A)
98	n-Butylbenzene	91	13.298	13.295	(1.029)	9478783	60.0000	58.1408
99	o-Dichlorobenzene	146	13.316	13.330	(1.031)	3027800	60.0000	61.6003(A)
100	1,2-Dibromo-3-chloropropane	157	14.088	14.103	(1.090)	236394	60.0000	67.3809(A)
101	1,2,4-Trichlorobenzene	180	14.879	14.875	(1.152)	2093052	60.0000	58.7516
102	Hexachlorobutadiene	225	15.040	15.037	(1.164)	1847336	60.0000	54.8989
127	Naphthalene	128	15.112	15.109	(1.170)	2054578	60.0000	63.4206(A)
104	1,2,3-Trichlorobenzene	180	15.346	15.360	(1.188)	1534099	60.0000	57.7972

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4145.d
Lab Smp Id: MAIN060
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 0857
Client Smp ID: MAIN060
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1613156	806578	3226312	1547959	-4.04
72 Chlorobenzene-d5	325674	162837	651348	308257	-5.35
96 1,4-Dichlorobenze	462254	231127	924508	405667	-12.24

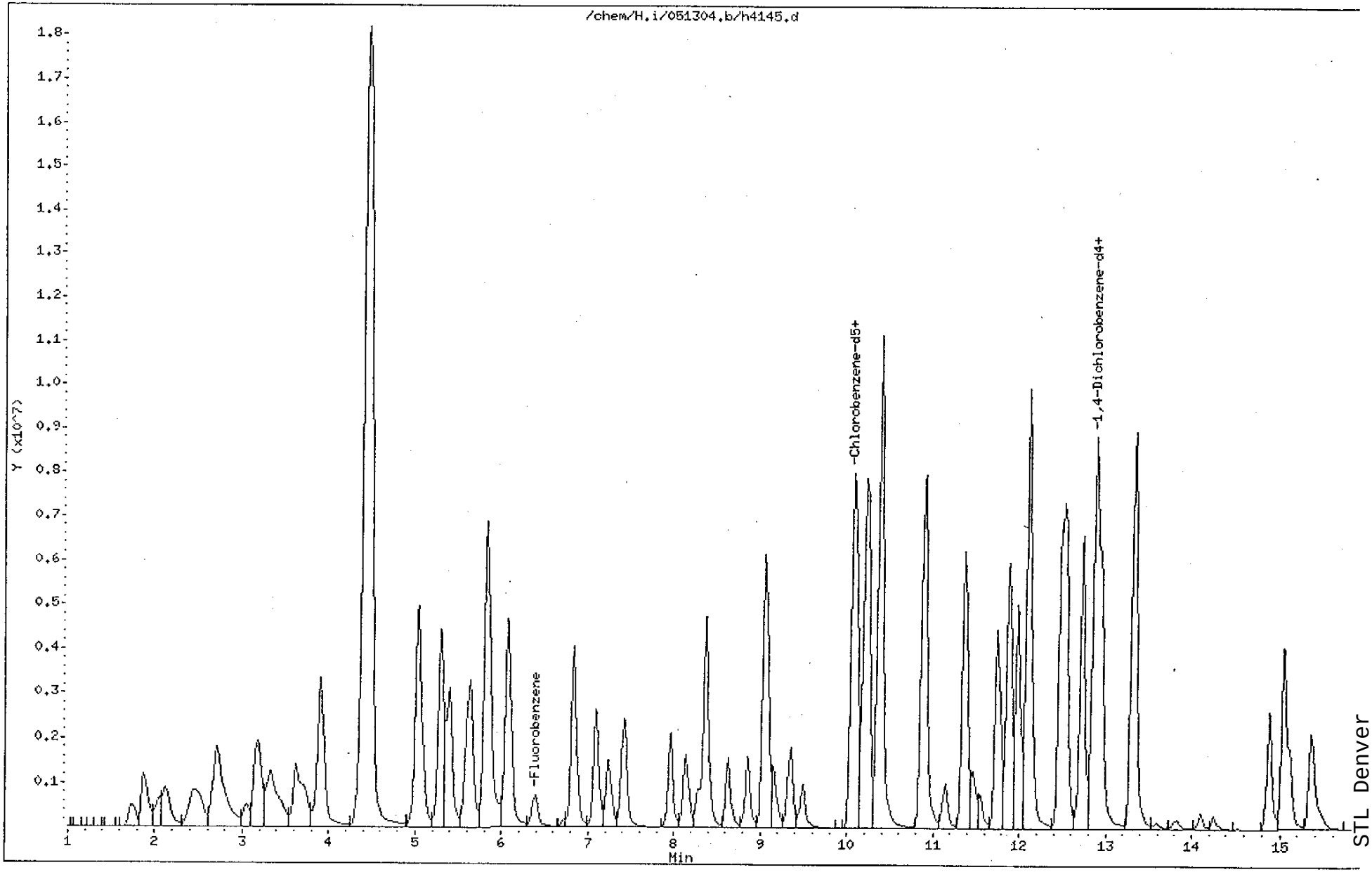
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.38	5.88	6.88	6.38	0.05
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.03
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.02

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

Data File: /chem/H.i/051304.b/h4145.d
Date : 13-MAY-2004 09:36
Client ID: MAIN060
Sample Info: MAIN060,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmanm
Column diameter: 0.53



CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: H.i
Lab File ID: h4153.d
Analysis Type: WATER

Injection Date: 13-MAY-2004 12:14
Lab Sample ID: VSTD010
Method File: /chem/H.i/051304.b/H-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
85	1,2-Dichloroethene (total)	20.0000	19.9330	0.3	50.0
83	Xylene (total)	30.0000	29.4885	1.7	50.0
64	dichlorodifluoromethane	10.0000	9.2100	7.9	50.0
1	Chloromethane	10.0000	10.3465	3.5	50.0
4	Vinyl Chloride	10.0000	10.5268	5.3	20.0
2	Bromomethane	10.0000	10.5534	5.5	50.0
5	Chloroethane	10.0000	10.0707	0.7	50.0
11	Trichlorofluoromethane	10.0000	9.5332	4.7	50.0
12	1,1-Dichloroethene	10.0000	9.1084	8.9	20.0
7	Acetone	20.0000	21.1355	5.7	50.0
6	Methylene Chloride	10.0000	9.5889	4.1	50.0
0	trans-1,2-Dichloroethene	10.0000	10.1545	1.5	50.0
15	1,1-Dichloroethane	10.0000	9.1680	8.3	50.0
93	2,2-Dichloropropane	10.0000	9.0712	9.3	50.0
0	cis-1,2-Dichloroethene	10.0000	9.7785	2.2	50.0
20	2-Butanone	20.0000	20.2548	1.3	50.0
13	Bromochloromethane	10.0000	10.3701	3.7	50.0
17	Chloroform	10.0000	9.7604	2.4	20.0
22	1,1,1-Trichloroethane	10.0000	9.5101	4.9	50.0
94	1,1-Dichloropropene	10.0000	9.3802	6.2	50.0
23	Carbon Tetrachloride	10.0000	9.3758	6.2	50.0
30	Benzene	10.0000	9.8009	2.0	50.0
16	1,2-Dichloroethane	10.0000	9.9572	0.4	50.0
29	Trichloroethene	10.0000	10.2921	2.9	50.0
26	1,2-Dichloropropane	10.0000	9.9595	0.4	20.0
34	Dibromomethane	10.0000	10.1066	1.1	50.0
25	Bromodichloromethane	10.0000	10.0297	0.3	50.0
28	cis-1,3-Dichloropropene	10.0000	10.2685	2.7	50.0
38	4-Methyl-2-pentanone	20.0000	21.4637	7.3	50.0
45	Toluene	10.0000	9.8434	1.6	20.0
31	trans-1,3-Dichloropropene	10.0000	10.5495	5.5	50.0
32	1,1,2-Trichloroethane	10.0000	10.1712	1.7	50.0
42	Tetrachloroethene	10.0000	9.7576	2.4	50.0
109	1,3-Dichloropropane	10.0000	10.5813	5.8	50.0
43	2-Hexanone	20.0000	20.7488	3.7	50.0
36	Dibromochloromethane	10.0000	10.3746	3.7	50.0
58	1,2-Dibromoethane	10.0000	10.6976	7.0	50.0
92	1-Chlorohexane	10.0000	9.0703	9.3	50.0
46	Chlorobenzene	10.0000	10.0078	0.1	50.0

ICV
OK
mds 5/14/04

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: H.i
Lab File ID: h4153.d
Analysis Type: WATER

Injection Date: 13-MAY-2004 12:14
Lab Sample ID: VSTD010
Method File: /chem/H.i/051304.b/H-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
74	1,1,1,2-Tetrachloroethane	10.0000	10.5623	5.6	50.0
47	Ethylbenzene	10.0000	10.0239	0.2	20.0
0	m and p-Xylene	20.0000	19.5790	2.1	50.0
0	o-Xylene	10.0000	9.9095	0.9	50.0
49	Styrene	10.0000	10.2270	2.3	50.0
37	Bromoform	10.0000	10.9354	9.4	50.0
79	isopropyl benzene	10.0000	9.2881	7.1	50.0
40	1,1,2,2-Tetrachloroethane	10.0000	9.9947	0.1	50.0
95	Bromobenzene	10.0000	9.9131	0.9	50.0
50	1,2,3-Trichloropropane	10.0000	10.0029	0.0	50.0
96	n-Propylbenzene	10.0000	9.4969	5.0	50.0
97	2-Chlorotoluene	10.0000	9.9657	0.3	50.0
98	1,3,5-Trimethylbenzene	10.0000	9.6109	3.9	50.0
99	4-Chlorotoluene	10.0000	9.6778	3.2	50.0
100	tert-Butylbenzene	10.0000	9.5312	4.7	50.0
101	1,2,4-Trimethylbenzene	10.0000	9.6985	3.0	50.0
102	sec-Butylbenzene	10.0000	9.7349	2.7	50.0
61	m-Dichlorobenzene	10.0000	9.5496	4.5	50.0
103	4-Isopropyltoluene	10.0000	9.1047	9.0	50.0
62	p-dichlorobenzene	10.0000	9.6149	3.9	50.0
104	n-Butylbenzene	10.0000	9.2306	7.7	50.0
63	o-Dichlorobenzene	10.0000	9.8165	1.8	50.0
75	1,2-Dibromo-3-chloropropane	10.0000	10.3191	3.2	50.0
105	1,2,4-Trichlorobenzene	10.0000	9.9137	0.9	50.0
106	Hexachlorobutadiene	10.0000	9.6963	3.0	50.0
107	Naphthalene	10.0000	10.2079	2.1	50.0
108	1,2,3-Trichlorobenzene	10.0000	9.7417	2.6	50.0

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4153.d
Lab Smp Id: VSTD010 Client Smp ID: ICV
Inj Date : 13-MAY-2004 12:14
Operator : hoffmanm Inst ID: H.i
Smp Info : VSTD010,,ICV
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 09:36 Cal File: h4145.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: secsource.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	48 Fluorobenzene	96	6.382	6.382	(1.000)	1628137	10.0000	
*	72 Chlorobenzene-d5	119	10.047	10.046	(1.000)	319028	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.903	12.902	(1.000)	461440	10.0000	
M	1 1,2-Dichloroethene (total)	96				959506	19.9330	19.9330
M	2 Xylene (total)	106				2049103	29.4885	29.4885
	3 dichlorodifluoromethane	85	1.874	1.870	(0.294)	706597	9.20996	9.20996
	4 Chloromethane	50	2.053	2.032	(0.322)	424590	10.3465	10.3465
	5 Vinyl Chloride	62	2.143	2.140	(0.336)	408092	10.5268	10.5268
	7 Bromomethane	94	2.431	2.427	(0.381)	379197	10.5534	10.5534
	8 Chloroethane	64	2.520	2.517	(0.395)	281607	10.0707	10.0707
	10 Trichlorofluoromethane	101	2.700	2.697	(0.423)	1085387	9.53318	9.53318
	14 1,1-Dichloroethene	96	3.167	3.164	(0.496)	431285	9.10839	9.10839
	15 Acetone	43	3.203	3.182	(0.502)	55246	21.1355	21.1355
	21 Methylene Chloride	84	3.634	3.613	(0.569)	354168	9.58888	9.58888
	24 trans-1,2-Dichloroethene	96	3.922	3.900	(0.614)	493545	10.1545	10.1545
	27 1,1-Dichloroethane	63	4.371	4.367	(0.685)	850340	9.16805	9.16805

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
33 2-Butanone	43	5.035	5.032	(0.789)	94651	20.2548	20.2548
32 cis-1,2-Dichloroethene	96	5.035	5.014	(0.789)	465961	9.77850	9.77850
31 2,2-Dichloropropane	77	5.035	5.032	(0.789)	648014	9.07117	9.07117
37 Bromochloromethane	128	5.305	5.301	(0.831)	188961	10.3701	10.3701
38 Chloroform	83	5.394	5.391	(0.845)	863749	9.76040	9.76040
41 1,1,1-Trichloroethane	97	5.628	5.625	(0.882)	922768	9.51009	9.51009
42 1,1-Dichloropropene	75	5.826	5.822	(0.913)	719994	9.38024	9.38024
43 Carbon Tetrachloride	117	5.826	5.822	(0.913)	853083	9.37581	9.37581
47 1,2-Dichloroethane	62	6.077	6.074	(0.952)	339655	9.95718	9.95718
46 Benzene	78	6.059	6.056	(0.949)	1285857	9.80088	9.80088
50 Trichloroethene	130	6.831	6.828	(1.070)	574045	10.2921	10.2921
52 1,2-Dichloropropane	63	7.083	7.080	(1.110)	437413	9.95946	9.95946
53 Dibromomethane	93	7.227	7.223	(1.132)	232404	10.1066	10.1066
56 Bromodichloromethane	83	7.424	7.421	(1.163)	668052	10.0297	10.0297
59 cis-1,3-Dichloropropene	75	7.963	7.960	(0.793)	538139	10.2685	10.2685
60 4-Methyl-2-pentanone	43	8.143	8.139	(0.810)	283503	21.4637	21.4637
62 Toluene	91	8.376	8.373	(0.834)	1483758	9.84345	9.84345
63 trans-1,3-Dichloropropene	75	8.628	8.624	(0.859)	370027	10.5495	10.5495
65 1,1,2-Trichloroethane	97	8.843	8.858	(0.880)	225513	10.1712	10.1712
67 1,3-Dichloropropane	76	9.059	9.055	(0.902)	369526	10.5813	10.5813
66 Tetrachloroethene	164	9.041	9.037	(0.900)	464357	9.75758	9.75758
68 2-Hexanone	43	9.167	9.163	(0.912)	172148	20.7488	20.7488
69 Dibromochloromethane	129	9.346	9.343	(0.930)	402364	10.3746	10.3746
70 1,2-Dibromoethane	107	9.490	9.486	(0.945)	307886	10.6976	10.6976
73 Chlorobenzene	112	10.083	10.079	(1.004)	1012787	10.0078	10.0078
74 1,1,1,2-Tetrachloroethane	131	10.190	10.187	(1.014)	443148	10.5623	10.5623
75 Ethylbenzene	106	10.226	10.223	(1.018)	526133	10.0239	10.0239
76 m and p-Xylene	106	10.370	10.367	(1.032)	1419497	19.5790	19.5790
77 o-Xylene	106	10.873	10.870	(1.082)	629606	9.90950	9.90950
78 Styrene	104	10.891	10.888	(1.084)	974746	10.2270	10.2270
71 1-Chlorohexane	91	10.047	10.061	(1.000)	682341	9.07028	9.07028
79 Bromoform	173	11.143	11.139	(1.109)	212602	10.9354	10.9354
80 isopropyl benzene	105	11.358	11.355	(1.131)	1971546	9.28814	9.28814
83 1,1,2,2-Tetrachloroethane	83	11.717	11.714	(1.166)	253137	9.99468	9.99468
84 Bromobenzene	156	11.735	11.732	(0.909)	392034	9.91309	9.91309
85 1,2,3-Trichloropropane	110	11.771	11.786	(0.912)	70193	10.0029	10.0029
87 n-Propylbenzene	120	11.879	11.876	(0.921)	476870	9.49686	9.49686
88 2-Chlorotoluene	126	11.969	11.983	(0.928)	385341	9.96575	9.96575
89 1,3,5-Trimethylbenzene	105	12.077	12.091	(0.936)	1567143	9.61092	9.61092
90 4-Chlorotoluene	126	12.112	12.109	(0.939)	411217	9.67782	9.67782
91 tert-Butylbenzene	119	12.472	12.468	(0.967)	1637453	9.53118	9.53118
92 1,2,4-Trimethylbenzene	105	12.526	12.522	(0.971)	1441510	9.69851	9.69851
93 sec-Butylbenzene	134	12.723	12.720	(0.986)	391917	9.73492	9.73492
94 m-Dichlorobenzene	146	12.831	12.845	(0.994)	612887	9.54957	9.54957
95 4-Isopropyltoluene	119	12.867	12.881	(0.997)	1750031	9.10469	9.10469
97 p-dichlorobenzene	146	12.939	12.935	(1.003)	796752	9.61486	9.61486
98 n-Butylbenzene	91	13.298	13.295	(1.031)	1711778	9.23061	9.23060

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
99	o-Dichlorobenzene	146	13.316	13.330	(1.032)	548841	9.81650	9.81650
100	1,2-Dibromo-3-chloropropane	157	14.106	14.103	(1.093)	41180	10.3191	10.3191
101	1,2,4-Trichlorobenzene	180	14.879	14.875	(1.153)	401736	9.91369	9.91368
102	Hexachlorobutadiene	225	15.040	15.037	(1.166)	371135	9.69626	9.69626
127	Naphthalene	128	15.112	15.109	(1.171)	376160	10.2079	10.2079
104	1,2,3-Trichlorobenzene	180	15.346	15.360	(1.189)	294123	9.74175	9.74175

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4153.d
Lab Smp Id: VSTD010
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: ICV
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1628137	5.68
72 Chlorobenzene-d5	325282	162641	650564	319028	-1.92
96 1,4-Dichlorobenze	424257	212128	848514	461440	8.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.38	-0.24
72 Chlorobenzene-d5	10.06	9.56	10.56	10.05	-0.15
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.90	-0.12

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

Data File: /chem/H.i/051304.b/h4153.d

Date : 13-MAY-2004 12:14

Client ID: ICV

Sample Info: VSTD010,,ICV

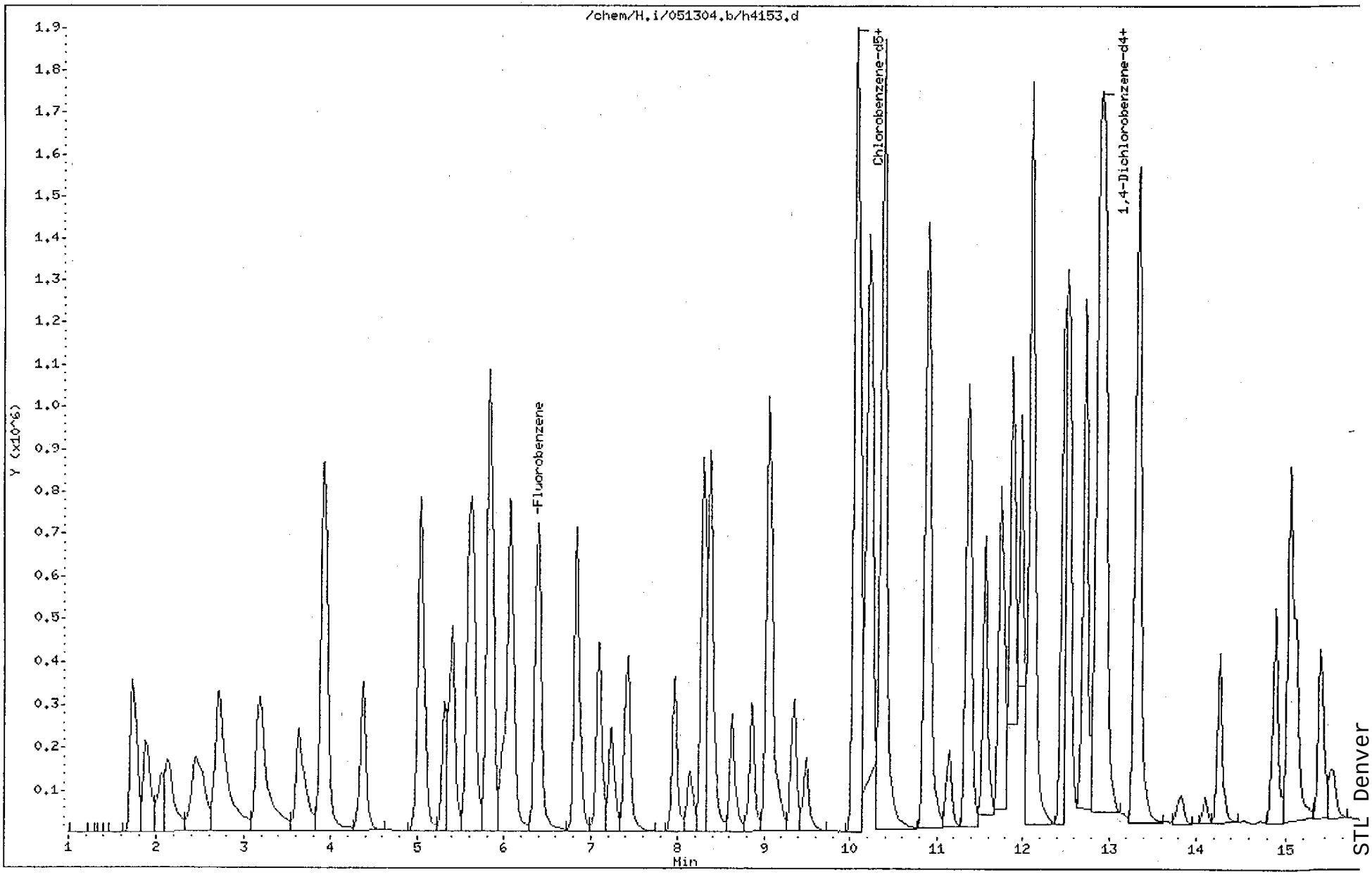
Purge Volume: 20.0

Column phase: DB624

Instrument: H.i

Operator: hoffmann

Column diameter: 0.53



GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: Inst. H "Supp" I-CAL 5/13/04

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Sufficient number of calibration points used?	✓			✓	
4. Reasons for removal of points documented?	✓			✓	
5. %RSD or correlation coefficient within method limits?	✓			✓	Some points below R.L. removed.
6. If RRF used for ICAL, were all compounds within 15% RSD?			✓	N/A	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Standards traceability properly documented?	✓			✓	
11. Manual integrations documented and checked?			✓	N/A	
12. 2nd source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?			✓	N/A	

1st Level Reviewer: MH Date: 5/14/04

2nd Level Reviewer: DA Date: 5-14-04

STL, Denver

GC/MS Volatile Analysis

Instrument H
5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

MS-VOA
ISSS # 104.04
Main # 67/82.04
Supp # 011/052.04

DEN-MS-0010 (8260B/624/524.2)
(Circle as appropriate)

Comments

Target Batch (Directory): 051304.b

QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
BFB	~		1µl Inj	Inj.	5/13/04	MH	h4139.d					NA	OK 07:49	—
Main 001	~		20mL	20mL			40	/	NA	/	/		OK	
002	~						41	/		/	/			
005	~						42	/		/	/			
010	~						43	/		/	/			
030	~						44	/		/	/			
060	~						45	/		/	/			
Supp 001	~						46	/	/	-	/			
002	~						47	/	/	-	/			
005	~						48	/	/	-	/			
010	~						49	/	/	-	/			
030	~						50	/	/	-	/			
060	~						57	/	/	-	/			
~~VSTD010-ICV~~	end 5/13/04	cleanup					52	~	~	~	~		—	
~~cle~~ (MH) 5/13/04	VSTD010 - ICV						53	/	/	-	/		#68/61/91.04	
LCS	—						54	/	/	-	/			
VBLK	—			x			55	/	/	-	/			
D4E060268	-027	GFNGM1AA		50mL			56	/	/	-		42		
	-27MS						57	/	/	/	/	42		
	-27SD						58	/	/	-	/	42		

Report Date: 14-May-2004 15:40

Calibration History

Method : /chem/H.i/051304.b/H-20ml-h2o.m
Start Cal Date: 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
13-MAY-2004 09:56	2-supp	/chem/H.i/051304.b/h4146.d
13-MAY-2004 07:58	1-main	/chem/H.i/051304.b/h4140.d
Cal Level: 2 , Cal Amount: 2.00000		
13-MAY-2004 10:15	2-supp	/chem/H.i/051304.b/h4147.d
13-MAY-2004 08:17	1-main	/chem/H.i/051304.b/h4141.d
Cal Level: 3 , Cal Amount: 5.00000		
13-MAY-2004 10:35	2-supp	/chem/H.i/051304.b/h4148.d
13-MAY-2004 08:37	1-main	/chem/H.i/051304.b/h4142.d
Cal Level: 4 , Cal Amount: 10.0000		
13-MAY-2004 10:55	2-supp	/chem/H.i/051304.b/h4149.d
13-MAY-2004 08:57	1-main	/chem/H.i/051304.b/h4143.d
Cal Level: 5 , Cal Amount: 30.0000		
13-MAY-2004 11:14	2-supp	/chem/H.i/051304.b/h4150.d
13-MAY-2004 09:16	1-main	/chem/H.i/051304.b/h4144.d
Cal Level: 6 , Cal Amount: 60.0000		
13-MAY-2004 11:34	2-supp	/chem/H.i/051304.b/h4151.d
13-MAY-2004 09:36	1-main	/chem/H.i/051304.b/h4145.d

Continuing Calibration

13-MAY-2004 10:55	2-supp	/chem/H.i/051304.b/h4149.d
13-MAY-2004 08:57	1-main	/chem/H.i/051304.b/h4143.d

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34
Quant Method : ISTD
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 13:48 hoffmanm

Calibration File Names:
Level 1: /chem/H.i/051304.b/h4146.d
Level 2: /chem/H.i/051304.b/h4147.d
Level 3: /chem/H.i/051304.b/h4148.d
Level 4: /chem/H.i/051304.b/h4149.d
Level 5: /chem/H.i/051304.b/h4150.d
Level 6: /chem/H.i/051304.b/h4151.d

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	30 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
117 Dichlorotetrafluoroethane	0.46128	0.50417	0.52762	0.54880	0.53604	0.53911	AVRG		0.51950		6.21191
6 Ethylene Oxide	+++++	0.00256	0.00287	0.00304	0.00304	0.00276	AVRG		0.00285		7.04420
9 Dichlorofluoromethane	0.55165	0.58175	0.61601	0.63278	0.63631	0.66302	AVRG		0.61359		6.59350
12 Ethyl Ether	0.10176	0.10676	0.10940	0.11300	0.11262	0.11586	AVRG		0.10990		4.61860
16 Trichlorotrifluoroethane	0.29766	0.32636	0.33364	0.35018	0.33353	0.33786	AVRG		0.32987		5.34458
18 Carbon Disulfide	0.86559	0.88400	0.90507	0.92990	0.91442	0.94033	AVRG		0.90655		3.09532
20 Allyl Chloride	0.43036	0.42331	0.43381	0.45344	0.45152	0.46899	AVRG		0.44357		3.88760
119 Methyl Acetate	0.05850	0.06026	0.06118	0.06245	0.06353	0.06653	AVRG		0.06207		4.50219
25 Methyl t-butyl ether	0.30764	0.32117	0.32916	0.33518	0.34360	0.35836	AVRG		0.33252		5.30669

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34
Quant Method : ISTD
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 13:48 hoffmanm

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	30 Level 5	60 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
26 Hexane	2.06684	2.03611	2.13993	2.21710	2.19572	2.34821	AVRG		2.16732		5.22303
29 Vinyl acetate	0.19380	0.13759	0.15376	0.15980	0.16220	0.16971	AVRG		0.16281		11.44265
35 Ethyl Acetate	+++++	0.07145	0.07059	0.07335	0.07531	0.07705	AVRG		0.07355		3.63367
39 Tetrahydrofuran	0.02166	0.01833	0.01595	0.01672	0.01646	0.01708	AVRG		0.01770		11.84851
120 ETBE	0.56600	0.58942	0.61309	0.64281	0.67064	0.71921	AVRG		0.63353		8.85292
114 Cyclohexane	0.47629	0.46558	0.48455	0.49691	0.47687	0.48335	AVRG		0.48059		2.17717
115 2-Pentanone	0.05339	0.06116	0.06546	0.06740	0.06897	0.07066	AVRG		0.06451		9.85141
121 TAME	0.39174	0.40755	0.42615	0.45468	0.46815	0.49168	AVRG		0.43999		8.65619
54 Methyl Methacrylate	0.03041	0.02984	0.02878	0.02914	0.02973	0.02960	AVRG		0.02959		1.92143
122 Methyl Cyclohexane	0.47495	0.44381	0.44025	0.47041	0.45631	0.45823	AVRG		0.45733		3.02630
57 2-nitropropane	+++++	4034	15483	28355	87001	182341	WLINR	0.07368	0.09930		0.99502
113 2-Chloroethyl vinyl ether	3957	8307	21846	51484	179576	392291	LINR	0.18235	0.21913		0.99629
64 Ethyl methacrylate	0.59158	0.69518	0.71766	0.76167	0.77842	0.82444	AVRG		0.72816		11.11827
116 cis-1,4-Dichloro-2-butene	0.08035	0.06752	0.06459	0.07481	0.08355	0.08846	AVRG		0.07655		12.15505
86 t-1,4-Dichloro-2-butene	0.07231	0.07146	0.07267	0.08202	0.08438	0.09226	AVRG		0.07918		10.64911
118 1,2,3-Trimethylbenzene	0.79789	0.76201	0.80307	0.80859	0.78432	0.79869	AVRG		0.79243		2.13729
123 1,2-dichloro-1,1,2-triflourom	0.38662	0.39875	0.40325	0.41565	0.40394	0.40920	AVRG		0.40290		2.44588

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34
Quant Method : ISTD
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 13:48 hoffmanm

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	30 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
124 2,2-dichloro-1,1,1-trifluorom	0.63066	0.62288	0.64145	0.66238	0.64561	0.65602	AVRG		0.64317		2.31809
125 2-Propanol	0.00390	0.00336	0.00358	0.00367	0.00359	0.00376	AVRG		0.00364		5.02318
126 Tetrahydrothiophene	+++++	0.15501	0.17205	0.18716	0.19467	0.20722	AVRG		0.18322		11.06061
$ 40 Dibromofluoromethane	+++++	0.44367	0.45283	0.45406	0.45797	0.46227	AVRG		0.45416		1.52571
$ 44 1,2-Dichloroethane-d4	+++++	0.17661	0.18287	0.18340	0.17684	0.17337	AVRG		0.17862		2.43376
$ 61 Toluene-d8	+++++	4.16445	4.14096	4.12652	4.16285	4.23399	AVRG		4.16575		0.99124
$ 82 Bromofluorobenzene	+++++	2.26467	2.18568	2.16934	2.17573	2.16614	AVRG		2.19231		1.87625

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 13:41 hoffmanm
Curve Type : Average

Calibration File Names:
Level 1: /chem/H.i/051304.b/h4146.d
Level 2: /chem/H.i/051304.b/h4147.d
Level 3: /chem/H.i/051304.b/h4148.d
Level 4: /chem/H.i/051304.b/h4149.d
Level 5: /chem/H.i/051304.b/h4150.d
Level 6: /chem/H.i/051304.b/h4151.d

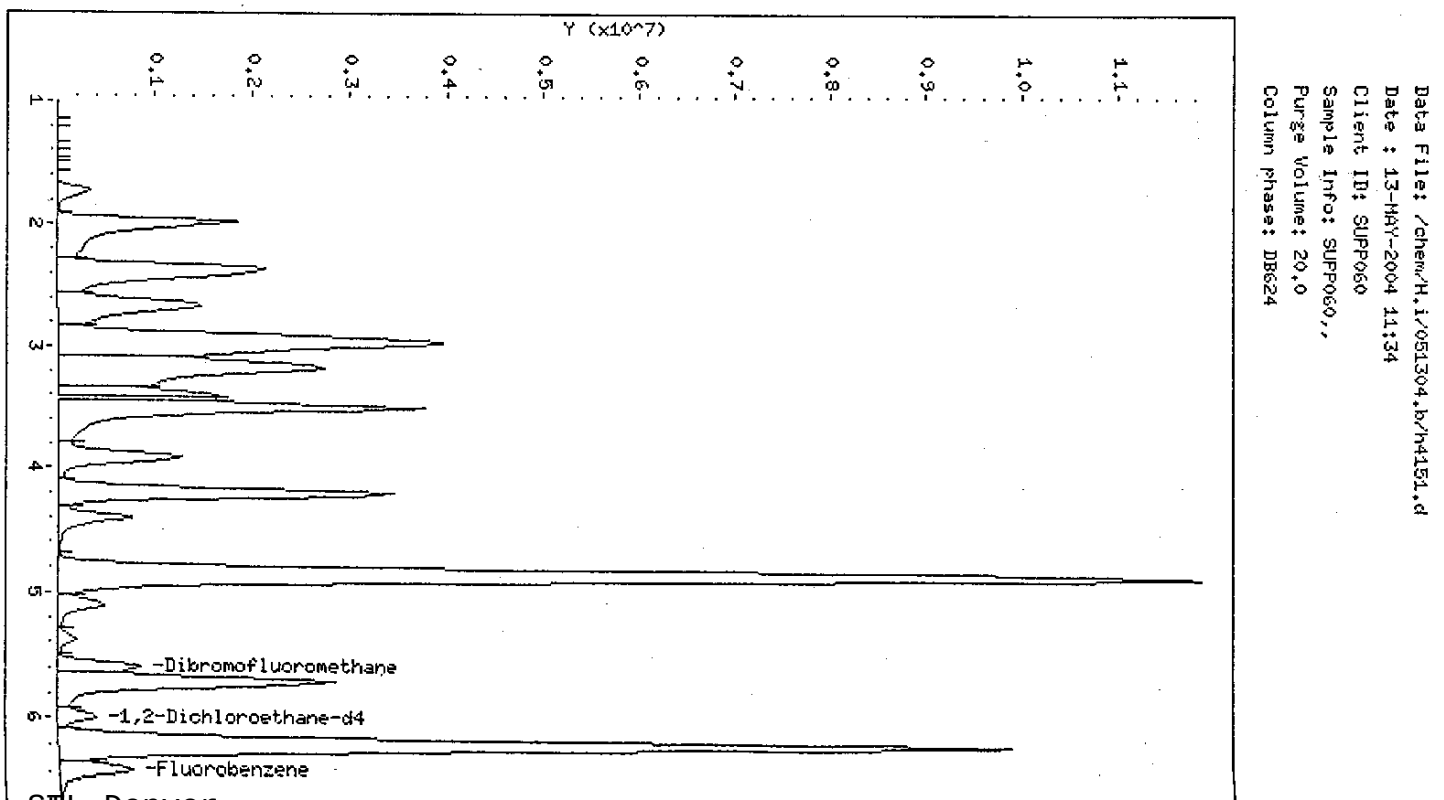
	1.000	2.000	5.000	10.000	30.000	60.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
117 Dichlorotetrafluoroethane	0.46128	0.50417	0.52762	0.54880	0.53604	0.53911	0.51950	6.212
6 Ethylene Oxide	+++++	0.00256	0.00287	0.00304	0.00304	0.00276	0.00285	7.044
9 Dichlorofluoromethane	0.55165	0.58175	0.61601	0.63278	0.63631	0.66302	0.61359	6.594
12 Ethyl Ether	0.10176	0.10676	0.10940	0.11300	0.11262	0.11586	0.10990	4.619
16 Trichlorotrifluoroethane	0.29766	0.32636	0.33364	0.35018	0.33353	0.33786	0.32987	5.345
18 Carbon Disulfide	0.86559	0.88400	0.90507	0.92990	0.91442	0.94033	0.90655	3.095
20 Allyl Chloride	0.43036	0.42331	0.43381	0.45344	0.45152	0.46899	0.44357	3.888
119 Methyl Acetate	0.05850	0.06026	0.06118	0.06245	0.06353	0.06653	0.06207	4.502
25 Methyl t-butyl ether	0.30764	0.32117	0.32916	0.33518	0.34360	0.35836	0.33252	5.307
26 Hexane	2.06684	2.03611	2.13993	2.21710	2.19572	2.34821	2.16732	5.223
29 Vinyl acetate	0.19380	0.13759	0.15376	0.15980	0.16220	0.16971	0.16281	11.443
35 Ethyl Acetate	+++++	0.07145	0.07059	0.07335	0.07531	0.07705	0.07355	3.634
39 Tetrahydrofuran	0.02166	0.01833	0.01595	0.01672	0.01646	0.01708	0.01770	11.849
120 ETBE	0.56600	0.58942	0.61309	0.64281	0.67064	0.71921	0.63353	8.853
114 Cyclohexane	0.47629	0.46558	0.48455	0.49691	0.47687	0.48335	0.48059	2.177
115 2-Pentanone	0.05339	0.06116	0.06546	0.06740	0.06897	0.07066	0.06451	9.851
121 TAME	0.39174	0.40755	0.42615	0.45468	0.46815	0.49168	0.43999	8.656
54 Methyl Methacrylate	0.03041	0.02984	0.02878	0.02914	0.02973	0.02960	0.02959	1.921
122 Methyl Cyclohexane	0.47495	0.44381	0.44025	0.47041	0.45631	0.45823	0.45733	3.026
57 2-nitropropane	+++++	0.06065	0.09289	0.08717	0.09172	0.10060	0.08661	17.657 ✓
113 2-Chloroethyl vinyl ether	0.11585	0.12490	0.13107	0.15827	0.18931	0.21643	0.15597	25.593 ✓
64 Ethyl methacrylate	0.59158	0.69518	0.71766	0.76167	0.77842	0.82444	0.72816	11.118
116 cis-1,4-Dichloro-2-butene	0.08035	0.06752	0.06459	0.07481	0.08355	0.08846	0.07655	12.155
86 t-1,4-Dichloro-2-butene	0.07231	0.07146	0.07267	0.08202	0.08438	0.09226	0.07918	10.649
118 1,2,3-Trimethylbenzene	0.79789	0.76201	0.80307	0.80859	0.78432	0.79869	0.79243	2.137

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/H.i/051304.b/H-20ml-h2o.m
Cal Date : 13-May-2004 13:41 hoffmanm
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
123 1,2-dichloro-1,1,2-triflourom	0.38662	0.39875	0.40325	0.41565	0.40394	0.40920	0.40290	2.446
124 2,2-dichloro-1,1,1-trifluorom	0.63066	0.62288	0.64145	0.66238	0.64561	0.65602	0.64317	2.318
125 2-Propanol	0.00390	0.00336	0.00358	0.00367	0.00359	0.00376	0.00364	5.023
126 Tetrahydrothiophene	+++++	0.15501	0.17205	0.18716	0.19467	0.20722	0.18322	11.061
$ 40 Dibromofluoromethane	+++++	0.44367	0.45283	0.45406	0.45797	0.46227	0.45416	1.526
$ 44 1,2-Dichloroethane-d4	+++++	0.17661	0.18287	0.18340	0.17684	0.17337	0.17862	2.434
$ 61 Toluene-d8	+++++	4.16445	4.14096	4.12652	4.16285	4.23399	4.16575	0.991
$ 82 Bromofluorobenzene	+++++	2.26467	2.18568	2.16934	2.17573	2.16614	2.19231	1.876



Data File: /chem/H.i/051304.b/h4139.d

Date : 13-MAY-2004 07:49

Client ID: BFB

Instrument: H.i

Sample Info: BFB #073-04

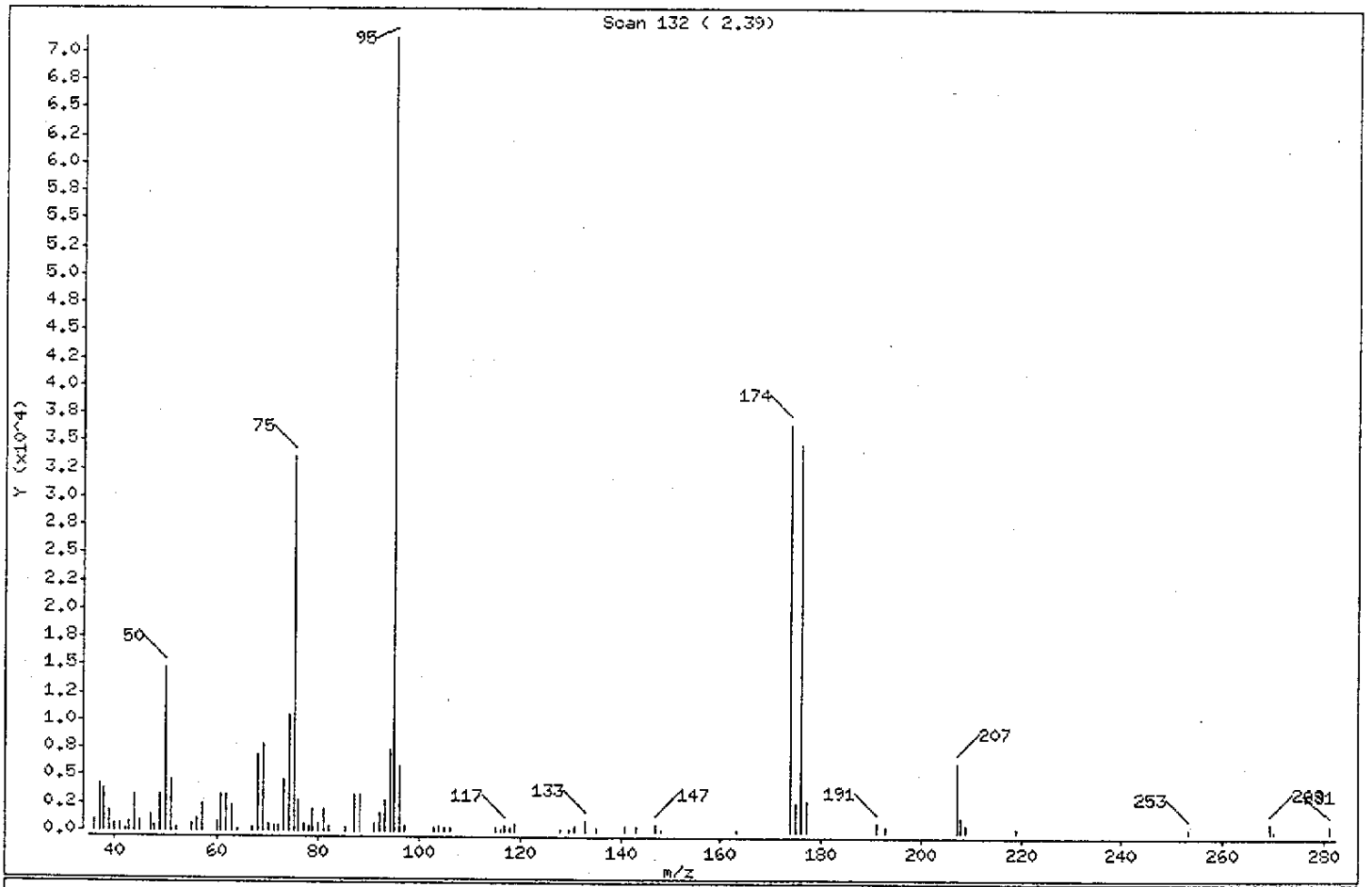
Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53

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	20.58
75	30.00 - 60.00% of mass 95	47.04
96	5.00 - 9.00% of mass 95	8.19
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	51.30
175	5.00 - 9.00% of mass 174	3.63 (7.07)
176	95.00 - 101.00% of mass 174	48.74 (95.01)
177	5.00 - 9.00% of mass 176	3.90 (8.00)

Data File: /chem/H.i/051304.b/h4139.d

Date : 13-MAY-2004 07:49

Client ID: BFB

Instrument: H.i

Sample Info: BFB #073-04

Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53

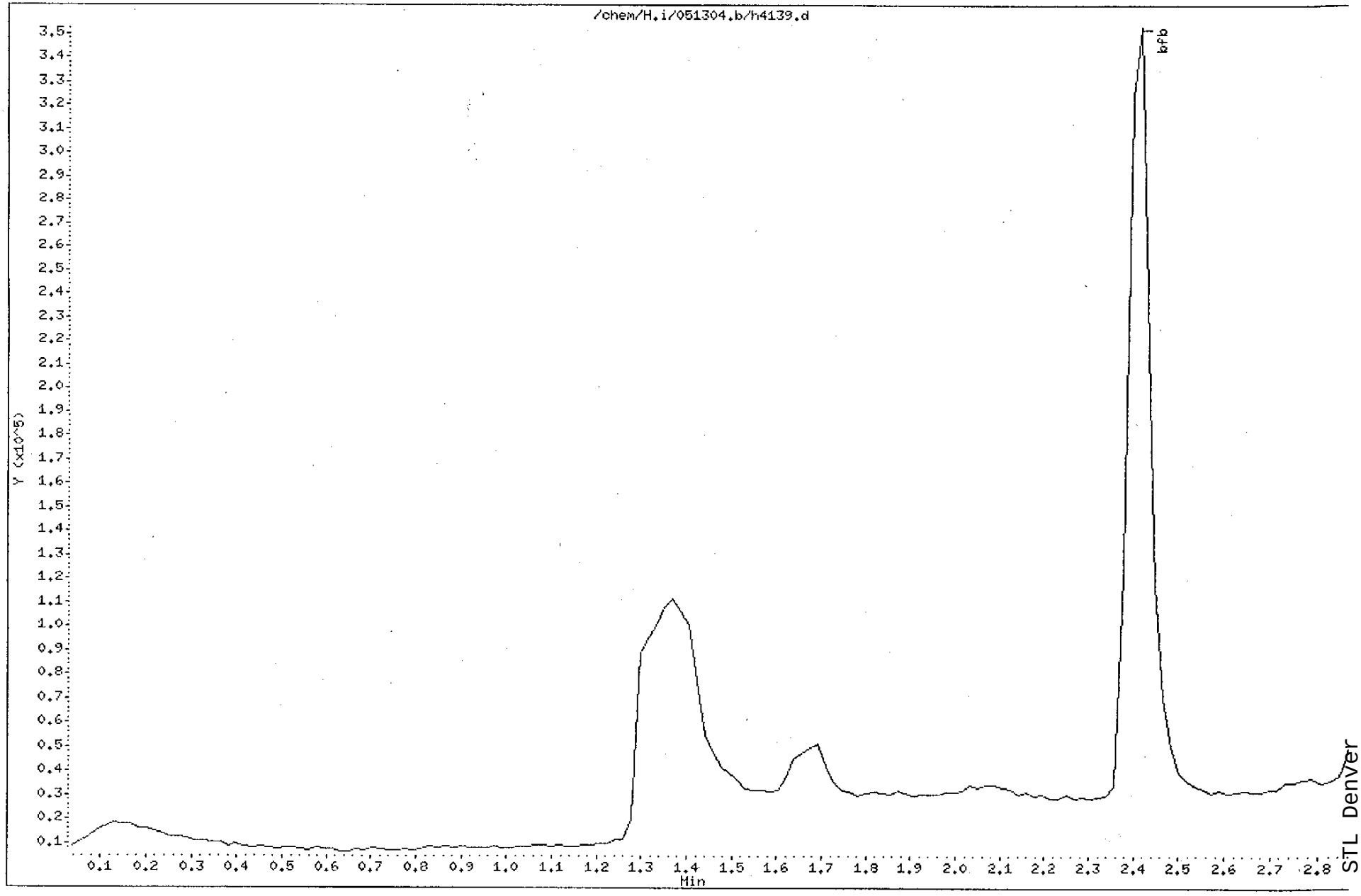
Data File: h4139.d
Spectrum: Scan 132 (2.39)
Location of Maximum: 95.05
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	997	62.00	3215	88.00	3244	135.00	285
37.00	4205	63.00	2338	91.00	607	140.90	450
38.00	3850	64.00	244	92.00	1644	142.90	416
39.10	1739	67.05	344	92.95	2739	147.05	699
40.00	663	68.05	6937	94.05	7410	147.85	242
41.05	656	69.05	7897	95.05	71304	163.00	210
42.05	219	70.05	652	96.05	5838	173.95	36576
43.05	851	71.15	474	97.05	462	174.95	2586
44.05	3209	71.95	501	102.95	369	175.95	34752
45.05	1054	73.05	4551	103.85	416	176.95	2779
47.05	1426	74.05	10513	104.95	344	191.00	810
47.95	551	75.05	33544	105.85	324	193.00	412
49.05	3245	76.05	2712	115.10	268	207.05	6227
50.05	14673	76.95	636	115.90	228	208.05	1355
51.05	4549	77.95	517	116.90	485	209.05	715
52.05	294	78.85	1902	117.90	272	219.00	312
55.10	685	80.00	586	119.00	685	253.05	396
56.10	1102	80.90	2006	127.95	227	269.10	801
57.10	2498	81.90	525	129.85	204	270.10	241
60.00	862	85.10	270	130.95	427	281.15	718
61.00	3342	87.00	3245	133.00	909		

Data File: /chem/H.i/051304.b/h4139.d
Date : 13-MAY-2004 07:49
Client ID: BFB
Sample Info: BFB #073-04
Volume Injected (uL): 1.0
Column phase: DB624

Instrument: H.i

Operator: mhoffman
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4146.d
Lab Smp Id: SUPP001 Client Smp ID: SUPP001
Inj Date : 13-MAY-2004 09:56
Operator : hoffmanm Inst ID: H.i
Smp Info : SUPP001,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 10:55 Cal File: h4149.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48 Fluorobenzene	96	6.399	6.382	(1.000)	1581793	10.0000	
* 72 Chlorobenzene-d5	119	10.063	10.046	(1.000)	341551	10.0000	
* 96 1,4-Dichlorobenzene-d4	152	12.919	12.902	(1.000)	447802	10.0000	
$ 40 Dibromofluoromethane	111.00	Compound Not Detected.					
$ 44 1,2-Dichloroethane-d4	65.00	Compound Not Detected.					
$ 61 Toluene-d8	98.00	Compound Not Detected.					
$ 82 Bromofluorobenzene	95	11.554	11.555	(1.148)	9476	1.00000	0.127891
117 Dichlorotetrafluoroethane	85	1.980	1.963	(0.309)	72965	1.00000	0.913353(a)
6 Ethylene Oxide	43.00	Compound Not Detected.					
9 Dichlorofluoromethane	67	2.663	2.664	(0.416)	87260	1.00000	0.931509(a)
12 Ethyl Ether	59	2.932	2.933	(0.458)	16096	1.00000	0.947668(a)
16 Trichlorotrifluoroethane	151	3.166	3.167	(0.495)	47083	1.00000	0.918919(a)
18 Carbon Disulfide	76	3.417	3.418	(0.534)	136918	1.00000	0.964179(a)
20 Allyl Chloride	41	3.507	3.490	(0.548)	68074	1.00000	0.973888(a)
119 Methyl Acetate	43	3.525	3.508	(0.551)	46264	5.00000	4.83643
25 Methyl t-butyl ether	73	3.920	3.903	(0.613)	48662	1.00000	0.957160(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26 Hexane	57	4.208	4.190	(0.418)	70593	1.00000	0.964924(a)
29 Vinyl acetate	43	4.405	4.406	(0.688)	61311	2.00000	2.19229
35 Ethyl Acetate	43.00	Compound Not Detected.					
39 Tetrahydrofuran	42	5.393	5.376	(0.843)	6851	2.00000	2.25719(a)
120 ETBE	59	4.854	4.855	(0.759)	447651	5.00000	4.68231
114 Cyclohexane	56	5.699	5.699	(0.891)	75339	1.00000	0.978808(a)
115 2-Pentanone	43	7.046	7.029	(1.101)	33779	4.00000	3.53583
121 TAME	73	6.201	6.184	(0.969)	309824	5.00000	4.62820
54 Methyl Methacrylate	100	7.225	7.226	(1.129)	9622	2.00000	2.04285
122 Methyl Cyclohexane	55	7.064	7.064	(1.104)	75127	1.00000	1.00480
57 2-nitropropane	41.00	Compound Not Detected.					
113 2-Chloroethyl vinyl ether	63	7.782	7.765	(0.773)	3957	1.00000	0.845251(a)
64 Ethyl methacrylate	69	8.752	8.735	(0.870)	40411	2.00000	1.74862
116 cis-1,4-Dichloro-2-butene	53	11.447	11.429	(0.886)	3598	1.00000	1.03569
86 t-1,4-Dichloro-2-butene	53	11.806	11.789	(0.914)	3238	1.00000	0.937096(a)
118 1,2,3-Trimethylbenzene	105	12.991	12.992	(2.030)	126209	1.00000	0.993338(a)
123 1,2-dichloro-1,1,2-triflourom	117	2.932	2.933	(0.458)	61156	1.00000	0.963824(a)
124 2,2-dichloro-1,1,1-trifluorom	83	2.986	2.987	(0.467)	99758	1.00000	0.975469(a)
125 2-Propanol	45	3.310	3.310	(0.517)	12334	20.0000	20.5943
126 Tetrahydrothiophene	60	9.345	9.328	(0.929)	4957	1.00000	0.775454(a)

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4146.d
Lab Smp Id: SUPP001
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: SUPP001
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1581793	2.68
72 Chlorobenzene-d5	325282	162641	650564	341551	5.00
96 1,4-Dichlorobenze	424257	212128	848514	447802	5.55

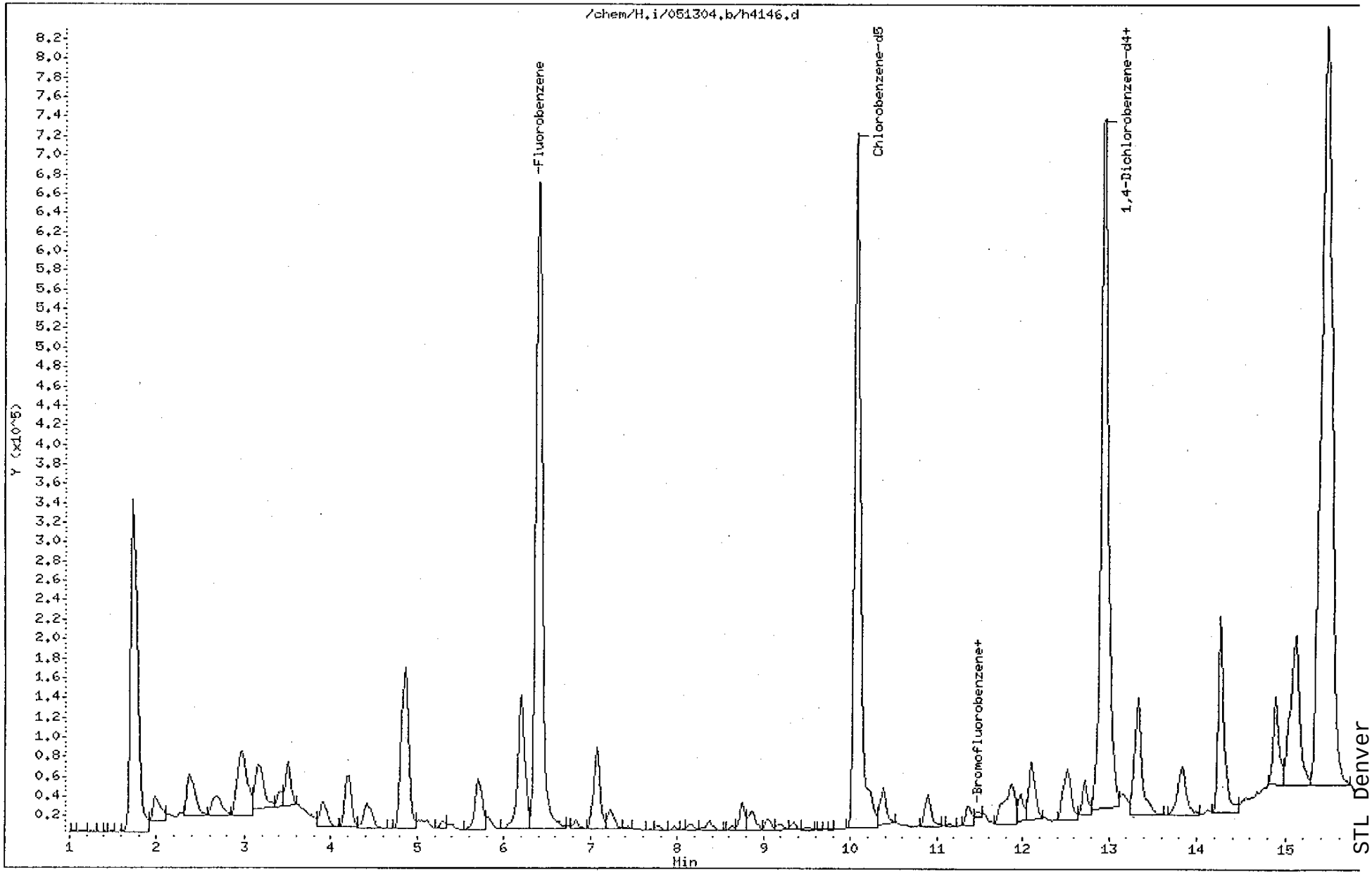
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	0.02
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.01
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.01

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

Data File: /chem/H.i/051304.b/h4146.d
Date : 13-MAY-2004 09:56
Client ID: SUPP001
Sample Info: SUPP001,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmann
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4147.d
Lab Smp Id: SUPP002 Client Smp ID: SUPP002
Inj Date : 13-MAY-2004 10:15
Operator : hoffmanm Inst ID: H.i
Smp Info : SUPP002,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 10:55 Cal File: h4149.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	48 Fluorobenzene	96	6.383	6.382	(1.000)	1565543	10.0000	
*	72 Chlorobenzene-d5	119	10.065	10.046	(1.000)	332549	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.921	12.902	(1.000)	429640	10.0000	
$	40 Dibromofluoromethane	111	5.592	5.592	(0.876)	138917	2.00000	1.97684
$	44 1,2-Dichloroethane-d4	65	5.987	5.987	(0.938)	55299	2.00000	1.96232
$	61 Toluene-d8	98	8.287	8.286	(0.823)	276977	2.00000	2.00915
$	82 Bromofluorobenzene	95	11.556	11.555	(1.148)	150623	2.00000	2.04300
	117 Dichlorotetrafluoroethane	85	1.982	1.963	(0.310)	157859	2.00000	1.99769(a)
	6 Ethylene Oxide	43	2.377	2.358	(0.372)	100322	250.000	228.762
	9 Dichlorofluoromethane	67	2.664	2.664	(0.417)	182152	2.00000	1.97631
	12 Ethyl Ether	59	2.934	2.933	(0.460)	33429	2.00000	1.99238(a)
	16 Trichlorotrifluoroethane	151	3.185	3.167	(0.499)	102187	2.00000	2.01003
	18 Carbon Disulfide	76	3.419	3.418	(0.536)	276788	2.00000	1.97948
	20 Allyl Chloride	41	3.508	3.490	(0.550)	132542	2.00000	1.94312(a)
	119 Methyl Acetate	43	3.508	3.508	(0.550)	94337	10.0000	9.97620
	25 Methyl t-butyl ether	73	3.922	3.903	(0.614)	100560	2.00000	1.99900(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26	Hexane	57	4.209	4.190	(0.418)	135421	2.00000	1.93300
29	Vinyl acetate	43	4.407	4.406	(0.690)	86161	4.00000	3.36133
35	Ethyl Acetate	43	5.107	5.089	(0.800)	44742	4.00000	3.94732(a)
39	Tetrahydrofuran	42	5.395	5.376	(0.845)	11477	4.00000	3.87856(a)
120	ETBE	59	4.856	4.855	(0.761)	922770	10.0000	9.83336
114	Cyclohexane	56	5.700	5.699	(0.893)	145776	2.00000	1.94155(a)
115	2-Pentanone	43	7.047	7.029	(1.104)	76597	8.00000	8.06708
121	TAME	73	6.203	6.184	(0.972)	638039	10.0000	9.75030
54	Methyl Methacrylate	100	7.227	7.226	(1.132)	18688	4.00000	4.00589
122	Methyl Cyclohexane	55	7.065	7.064	(1.107)	138961	2.00000	1.91687
57	2-nitropropane	41	7.694	7.675	(0.764)	4034	2.00000	1.64122(a)
113	2-Chloroethyl vinyl ether	63	7.784	7.765	(0.773)	8307	2.00000	1.87805(a)
64	Ethyl methacrylate	69	8.754	8.735	(0.870)	92472	4.00000	4.07245
116	cis-1,4-Dichloro-2-butene	53	11.448	11.429	(0.886)	5802	2.00000	1.81933
86	t-1,4-Dichloro-2-butene	53	11.807	11.789	(0.914)	6140	2.00000	1.89889
118	1,2,3-Trimethylbenzene	105	12.993	12.992	(2.036)	238592	2.00000	1.93038(a)
123	1,2-dichloro-1,1,2-triflourom	117	2.934	2.933	(0.460)	124852	2.00000	1.99205(a)
124	2,2-dichloro-1,1,1-trifluorom	83	2.988	2.987	(0.468)	195028	2.00000	1.95063(a)
125	2-Propanol	45	3.311	3.310	(0.519)	21037	40.0000	36.8762
126	Tetrahydrothiophene	60	9.346	9.328	(0.929)	10310	2.00000	1.81212(a)

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4147.d
Lab Smp Id: SUPP002
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: SUPP002
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1565543	1.62
72 Chlorobenzene-d5	325282	162641	650564	332549	2.23
96 1,4-Dichlorobenze	424257	212128	848514	429640	1.27

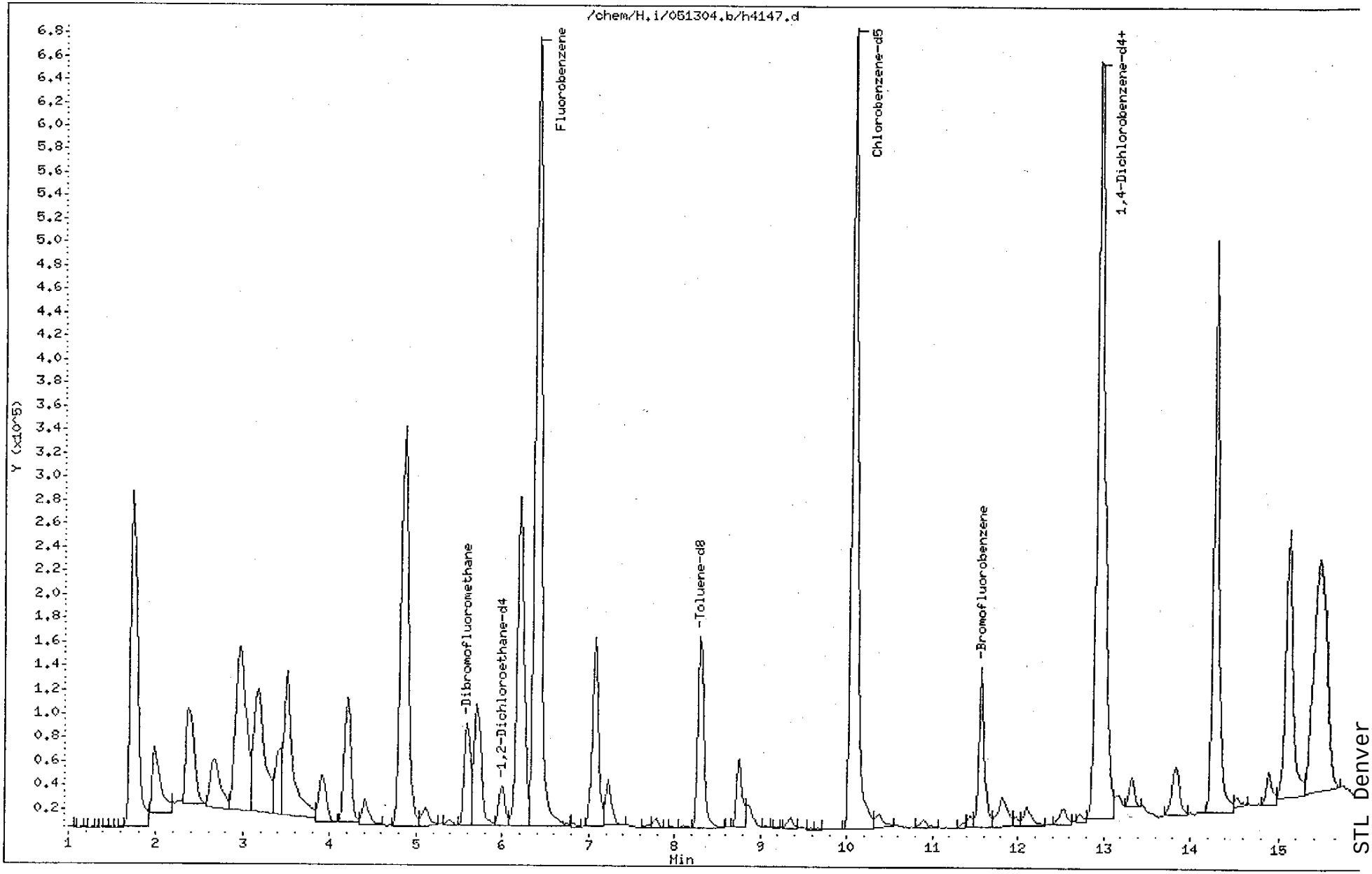
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.38	-0.24
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.03
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.02

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

Data File: /chem/H.i/051304.b/h4147.d
Date : 13-MAY-2004 10:15
Client ID: SUPP002
Sample Info: SUPP002,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmann
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4148.d
Lab Smp Id: SUPP005 Client Smp ID: SUPP005
Inj Date : 13-MAY-2004 10:35
Operator : hoffmanm Inst ID: H.i
Smp Info : SUPP005,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 10:55 Cal File: h4149.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	48 Fluorobenzene	96	6.397	6.382	(1.000)	1568502	10.0000	
*	72 Chlorobenzene-d5	119	10.061	10.046	(1.000)	333351	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.917	12.902	(1.000)	441362	10.0000	
$	40 Dibromofluoromethane	111	5.588	5.592	(0.874)	355135	5.00000	5.02937
$	44 1,2-Dichloroethane-d4	65	6.001	5.987	(0.938)	143415	5.00000	5.05276
$	61 Toluene-d8	98	8.301	8.286	(0.825)	690197	5.00000	4.99636
$	82 Bromofluorobenzene	95	11.552	11.555	(1.148)	364299	5.00000	4.95267
	117 Dichlorotetrafluoroethane	85	1.978	1.963	(0.309)	413783	5.00000	5.16798
	6 Ethylene Oxide	43	2.373	2.358	(0.371)	280894	625.000	634.466
	9 Dichlorofluoromethane	67	2.678	2.664	(0.419)	483109	5.00000	5.17181
	12 Ethyl Ether	59	2.930	2.933	(0.458)	85799	5.00000	5.07760
	16 Trichlorotrifluoroethane	151	3.181	3.167	(0.497)	261661	5.00000	5.10220
	18 Carbon Disulfide	76	3.415	3.418	(0.534)	709804	5.00000	5.04983
	20 Allyl Chloride	41	3.505	3.490	(0.548)	340217	5.00000	4.98371
	119 Methyl Acetate	43	3.523	3.508	(0.551)	239887	25.0000	25.2395
	25 Methyl t-butyl ether	73	3.918	3.903	(0.612)	258141	5.00000	5.09082

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
26 Hexane	57	4.205	4.190	(0.418)	356674	5.00000	5.05895
29 Vinyl acetate	43	4.403	4.406	(0.688)	241180	10.0000	9.53636
35 Ethyl Acetate	43	5.103	5.089	(0.798)	110717	10.0000	9.83158
39 Tetrahydrofuran	42	5.391	5.376	(0.843)	25021	10.0000	8.78227
120 ETBE	59	4.852	4.855	(0.758)	2404067	25.0000	25.4253
114 Cyclohexane	56	5.714	5.699	(0.893)	380006	5.00000	5.03863
115 2-Pentanone	43	7.043	7.029	(1.101)	205353	20.0000	21.1668
121 TAME	73	6.199	6.184	(0.969)	1671059	25.0000	25.3645
54 Methyl Methacrylate	100	7.223	7.226	(1.129)	45149	10.0000	9.74260
122 Methyl Cyclohexane	55	7.061	7.064	(1.104)	345270	5.00000	4.81304
57 2-nitropropane	41	7.690	7.675	(0.764)	15483	5.00000	5.78854
113 2-Chloroethyl vinyl ether	63	7.780	7.765	(0.773)	21846	5.00000	4.94510(a)
64 Ethyl methacrylate	69	8.750	8.735	(0.870)	239234	10.0000	10.3780
116 cis-1,4-Dichloro-2-butene	53	11.444	11.429	(0.886)	14254	5.00000	4.49686
86 t-1,4-Dichloro-2-butene	53	11.803	11.789	(0.914)	16037	5.00000	4.86985
118 1,2,3-Trimethylbenzene	105	12.989	12.992	(2.031)	629808	5.00000	5.06420
123 1,2-dichloro-1,1,2-triflourom	117	2.948	2.933	(0.461)	316253	5.00000	5.02725
124 2,2-dichloro-1,1,1-trifluorom	83	2.984	2.987	(0.466)	503059	5.00000	5.01648
125 2-Propanol	45	3.325	3.310	(0.520)	56131	100.000	98.6497
126 Tetrahydrothiophene	60	9.342	9.328	(0.929)	28677	5.00000	5.01880

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4148.d
Lab Smp Id: SUPP005
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: SUPP005
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1568502	1.81
72 Chlorobenzene-d5	325282	162641	650564	333351	2.48
96 1,4-Dichlorobenze	424257	212128	848514	441362	4.03

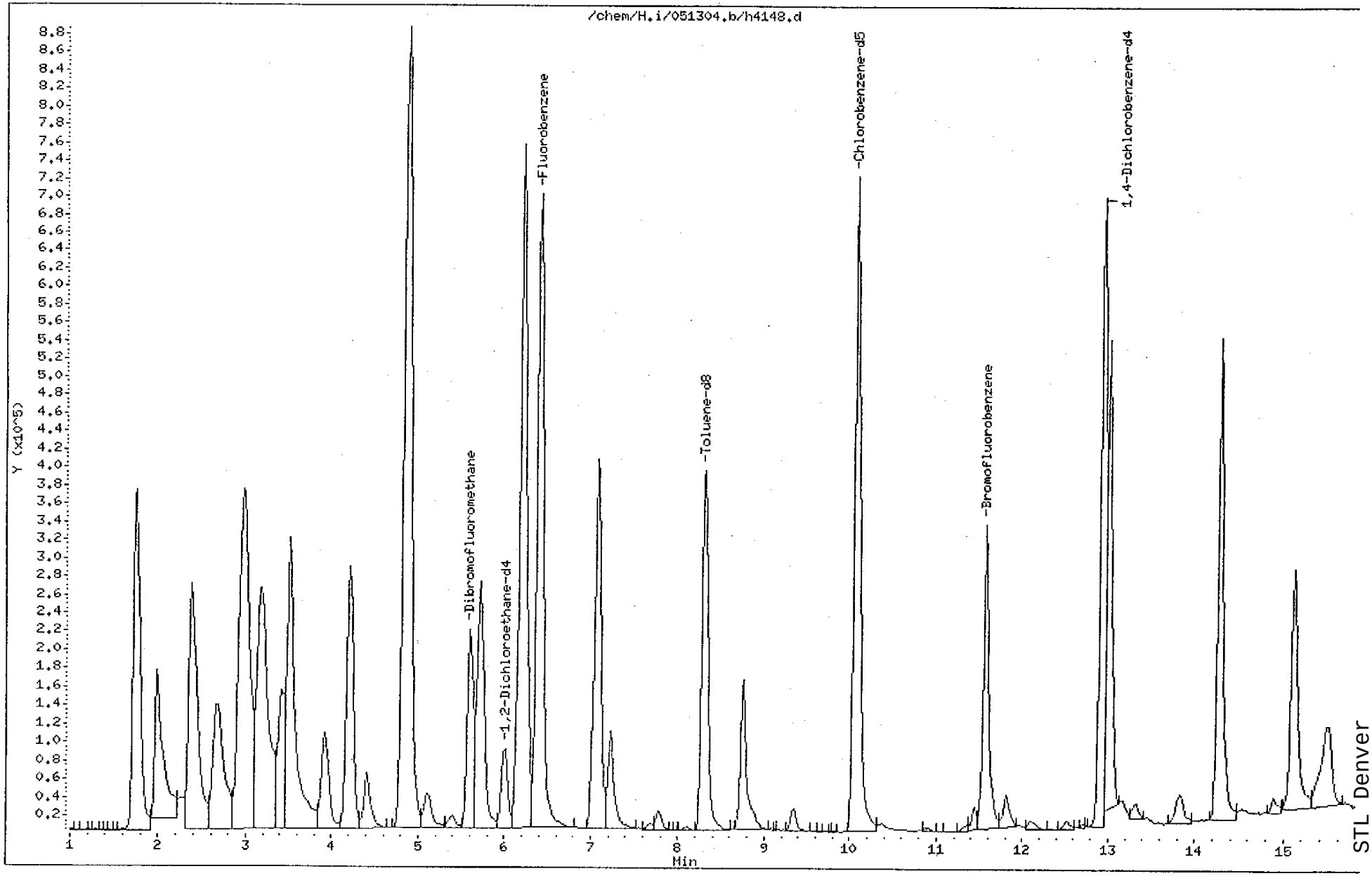
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	-0.02
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	-0.01
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	-0.01

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

Data File: /chem/H.i/051304.b/h4148.d
Date : 13-MAY-2004 10:35
Client ID: SUPP005
Sample Info: SUPP005,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmanm
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4149.d
Lab Smp Id: SUPP010 Client Smp ID: SUPP010
Inj Date : 13-MAY-2004 10:55
Operator : hoffmanm Inst ID: H.i
Smp Info : SUPP010,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 10:55 Cal File: h4149.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	48 Fluorobenzene	96	6.398	6.382	(1.000)	1540572	10.0000	
*	72 Chlorobenzene-d5	119	10.062	10.046	(1.000)	325282	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.918	12.902	(1.000)	424257	10.0000	
$	40 Dibromofluoromethane	111	5.589	5.592	(0.874)	699518	10.0000	10.0861
$	44 1,2-Dichloroethane-d4	65	5.984	5.987	(0.935)	282535	10.0000	10.1347
$	61 Toluene-d8	98	8.284	8.286	(0.823)	1342282	10.0000	9.95787
$	82 Bromofluorobenzene	95	11.553	11.555	(1.148)	705648	10.0000	9.83131
	117 Dichlorotetrafluoroethane	85	1.979	1.963	(0.309)	845467	10.0000	10.7510
	6 Ethylene Oxide	43	2.374	2.358	(0.371)	585261	1250.00	1345.92
	9 Dichlorofluoromethane	67	2.661	2.664	(0.416)	974836	10.0000	10.6251
	12 Ethyl Ether	59	2.931	2.933	(0.458)	174079	10.0000	10.4888
	16 Trichlorotrifluoroethane	151	3.182	3.167	(0.497)	539483	10.0000	10.7102
	18 Carbon Disulfide	76	3.416	3.418	(0.534)	1432584	10.0000	10.3768
	20 Allyl Chloride	41	3.506	3.490	(0.548)	698553	10.0000	10.4183
	119 Methyl Acetate	43	3.506	3.508	(0.548)	481061	50.0000	51.5320
	25 Methyl t-butyl ether	73	3.919	3.903	(0.613)	516363	10.0000	10.3678

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26	Hexane	57	4.206	4.190	(0.418)	721183	10.0000	10.4828
29	Vinyl acetate	43	4.404	4.406	(0.688)	492382	20.0000	19.8220
35	Ethyl Acetate	43	5.104	5.089	(0.798)	226017	20.0000	20.4340
39	Tetrahydrofuran	42	5.392	5.376	(0.843)	51519	20.0000	18.4108
120	ETBE	59	4.853	4.855	(0.759)	4951479	50.0000	53.3159
114	Cyclohexane	56	5.715	5.699	(0.893)	765530	10.0000	10.3344
115	2-Pentanone	43	7.044	7.029	(1.101)	415364	40.0000	43.5900
121	TAME	73	6.200	6.184	(0.969)	3502312	50.0000	54.1243
54	Methyl Methacrylate	100	7.224	7.226	(1.129)	89781	20.0000	19.7249
122	Methyl Cyclohexane	55	7.062	7.064	(1.104)	724703	10.0000	10.2854
57	2-nitropropane	41	7.691	7.675	(0.764)	28355	10.0000	10.8639
113	2-Chloroethyl vinyl ether	63	7.781	7.765	(0.773)	51484	10.0000	11.9431
64	Ethyl methacrylate	69	8.751	8.735	(0.870)	495513	20.0000	22.0287
116	cis-1,4-Dichloro-2-butene	53	11.427	11.429	(0.885)	31739	10.0000	10.4167
86	t-1,4-Dichloro-2-butene	53	11.804	11.789	(0.914)	34795	10.0000	10.9923
118	1,2,3-Trimethylbenzene	105	12.990	12.992	(2.030)	1245687	10.0000	10.1980
123	1,2-dichloro-1,1,2-triflourom	117	2.931	2.933	(0.458)	640335	10.0000	10.3635
124	2,2-dichloro-1,1,1-trifluorom	83	2.985	2.987	(0.467)	1020449	10.0000	10.3604
125	2-Propanol	45	3.308	3.310	(0.517)	113193	200.000	202.542
126	Tetrahydrothiophene	60	9.343	9.328	(0.929)	60879	10.0000	10.9188

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4149.d
Lab Smp Id: SUPP010
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: SUPP010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1540572	0.00
72 Chlorobenzene-d5	325282	162641	650564	325282	0.00
96 1,4-Dichlorobenze	424257	212128	848514	424257	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	0.00
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

Data File: /chem/H.i/051304.b/h4149.d

Date : 13-MAY-2004 10:55

Client ID: SUPP010

Sample Info: SUPP010,,

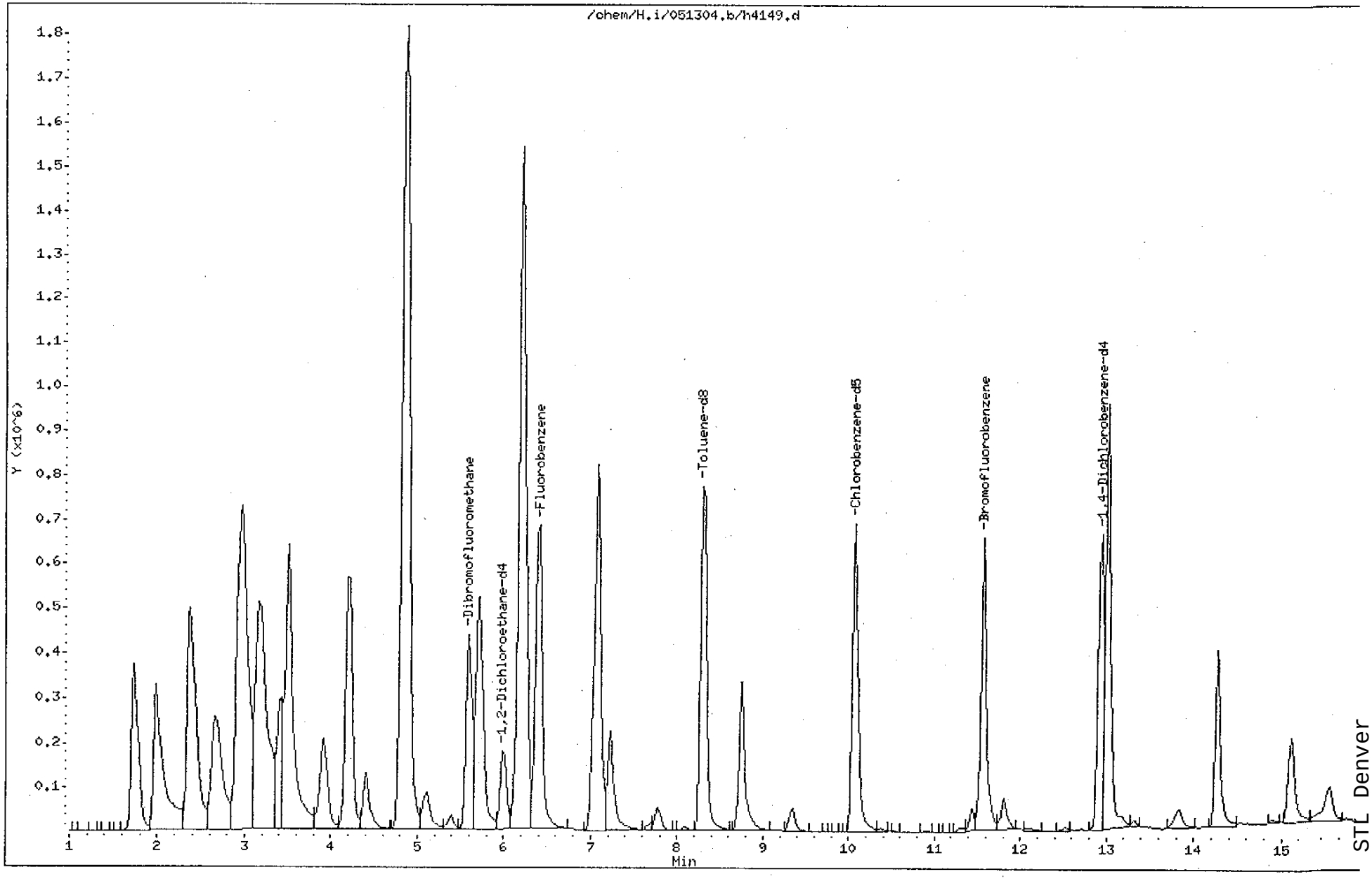
Purge Volume: 20.0

Column phase: DB624

Instrument: H.i

Operator: hoffmanm

Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4150.d
Lab Smp Id: SUPP030 Client Smp ID: SUPP030
Inj Date : 13-MAY-2004 11:14
Operator : hoffmanm Inst ID: H.i
Smp Info : SUPP030,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 11:14 Cal File: h4150.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.397	6.382	(1.000)	1503779	10.0000	
* 72	Chlorobenzene-d5	119	10.061	10.046	(1.000)	316190	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.918	12.902	(1.000)	408757	10.0000	
$ 40	Dibromofluoromethane	111	5.589	5.592	(0.874)	1033021	15.0000	15.1935
$ 44	1,2-Dichloroethane-d4	65	5.984	5.987	(0.935)	398890	15.0000	14.7424
$ 61	Toluene-d8	98	8.283	8.286	(0.823)	1974375	15.0000	15.0512
$ 82	Bromofluorobenzene	95	11.552	11.555	(1.148)	1031917	15.0000	14.8422
117	Dichlorotetrafluoroethane	85	1.978	1.963	(0.309)	2418251	30.0000	31.1904
6	Ethylene Oxide	43	2.373	2.358	(0.371)	1714632	3750.00	3963.08
9	Dichlorofluoromethane	67	2.661	2.664	(0.416)	2870616	30.0000	31.6205
12	Ethyl Ether	59	2.930	2.933	(0.458)	508053	30.0000	31.0788
16	Trichlorotrifluoroethane	151	3.182	3.167	(0.497)	1504677	30.0000	30.4804
18	Carbon Disulfide	76	3.415	3.418	(0.534)	4125244	30.0000	30.4875
20	Allyl Chloride	41	3.505	3.490	(0.548)	2036978	30.0000	30.8919
119	Methyl Acetate	43	3.505	3.508	(0.548)	1433024	150.000	155.755
25	Methyl t-butyl ether	73	3.918	3.903	(0.613)	1550110	30.0000	31.4897

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
26 Hexane	57	4.188	4.190	(0.416)	2082795	30.0000	30.9091
29 Vinyl acetate	43	4.403	4.406	(0.688)	1463445	60.0000	60.2843
35 Ethyl Acetate	43	5.104	5.089	(0.798)	679533	60.0000	62.1777
39 Tetrahydrofuran	42	5.373	5.376	(0.840)	148478	60.0000	55.4001
120 ETBE	59	4.852	4.855	(0.759)	15127528	150.000	163.202
114 Cyclohexane	56	5.697	5.699	(0.890)	2151337	30.0000	29.8021
115 2-Pentanone	43	7.026	7.029	(1.098)	1244573	120.000	130.797
121 TAME	73	6.200	6.184	(0.969)	10559924	150.000	163.440
54 Methyl Methacrylate	100	7.223	7.226	(1.129)	268244	60.0000	60.2997
122 Methyl Cyclohexane	55	7.062	7.064	(1.104)	2058549	30.0000	29.9448
57 2-nitropropane	41	7.672	7.675	(0.763)	87001	30.0000	33.1078
113 2-Chloroethyl vinyl ether	63	7.780	7.765	(0.773)	179576	30.0000	39.4725
64 Ethyl methacrylate	69	8.732	8.735	(0.868)	1476781	60.0000	65.8842
116 cis-1,4-Dichloro-2-butene	53	11.427	11.429	(0.885)	102457	30.0000	33.7971
86 t-1,4-Dichloro-2-butene	53	11.804	11.789	(0.914)	103475	30.0000	33.0622
118 1,2,3-Trimethylbenzene	105	12.989	12.992	(2.030)	3538351	30.0000	29.7402
123 1,2-dichloro-1,1,2-triflourom	117	2.930	2.933	(0.458)	1822298	30.0000	30.1714
124 2,2-dichloro-1,1,1-trifluorom	83	2.984	2.987	(0.466)	2912576	30.0000	30.2348
125 2-Propanol	45	3.308	3.310	(0.517)	324173	600.000	595.393
126 Tetrahydrothiophene	60	9.325	9.328	(0.927)	184661	30.0000	32.9536

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4150.d
Lab Smp Id: SUPP030
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: SUPP030
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1503779	-2.39
72 Chlorobenzene-d5	325282	162641	650564	316190	-2.80
96 1,4-Dichlorobenze	424257	212128	848514	408757	-3.65

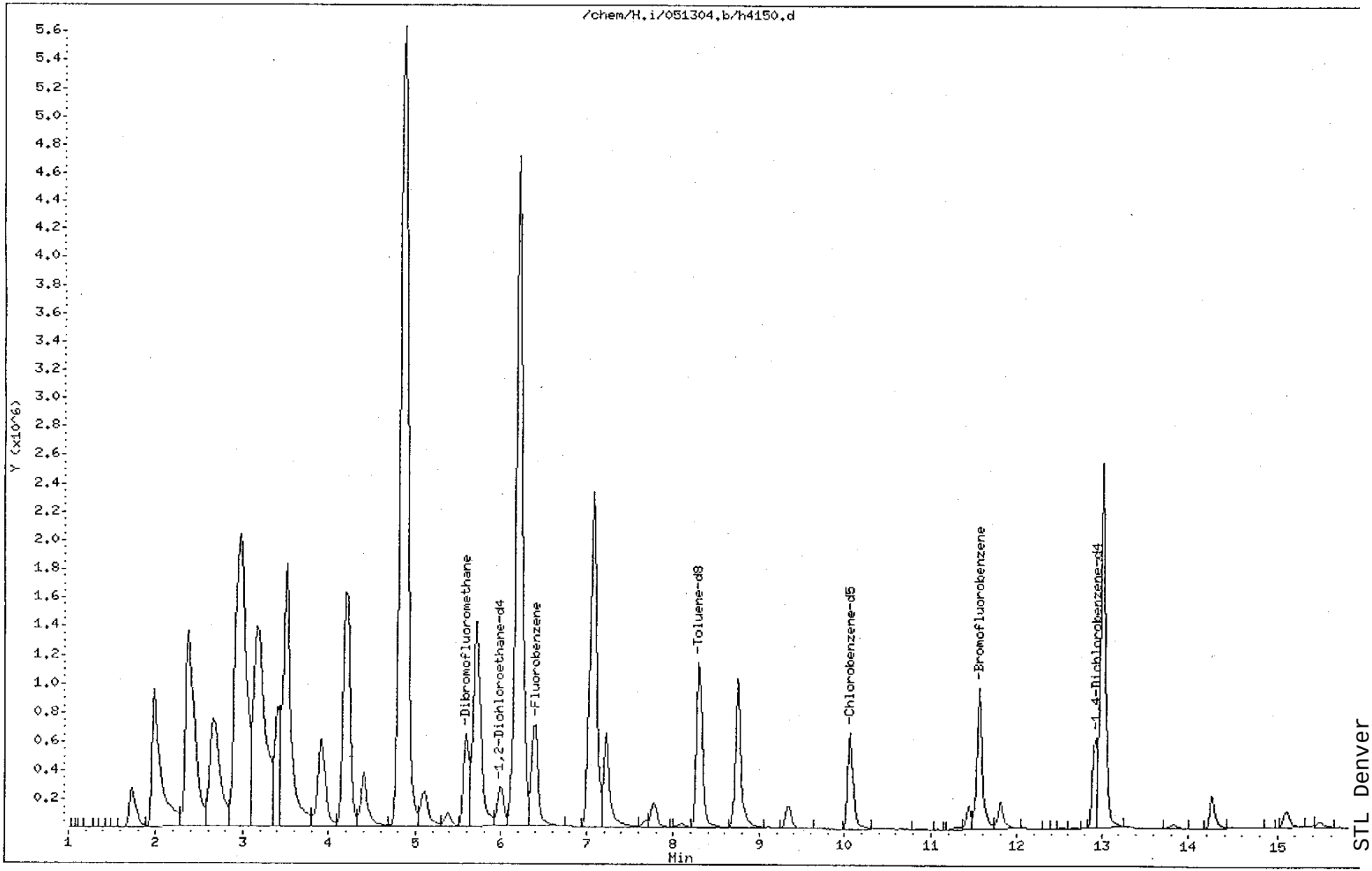
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	-0.01
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

Data File: /chem/H.i/051304.b/h4150.d
Date : 13-MAY-2004 11:14
Client ID: SUPP030
Sample Info: SUPP030,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: hoffmanm
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/051304.b/h4151.d
Lab Smp Id: SUPP060 Client Smp ID: SUPP060
Inj Date : 13-MAY-2004 11:34
Operator : hoffmanm Inst ID: H.i
Smp Info : SUPP060,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/051304.b/H-20ml-h2o.m
Meth Date : 13-May-2004 13:48 hoffmanm Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48	Fluorobenzene	96	6.382	6.382	(1.000)	1489279	10.0000	
* 72	Chlorobenzene-d5	119	10.046	10.046	(1.000)	302093	10.0000	
* 96	1,4-Dichlorobenzene-d4	152	12.902	12.902	(1.000)	397972	10.0000	
$ 40	Dibromofluoromethane	111	5.592	5.592	(0.876)	1376896	20.0000	20.3571
$ 44	1,2-Dichloroethane-d4	65	5.987	5.987	(0.938)	516403	20.0000	19.4128
$ 61	Toluene-d8	98	8.286	8.286	(0.825)	2558117	20.0000	20.3276
$ 82	Bromofluorobenzene	95	11.555	11.555	(1.150)	1308751	20.0000	19.7612
117	Dichlorotetrafluoroethane	85	1.963	1.963	(0.308)	4817308	60.0000	62.2646(A)
6	Ethylene Oxide	43	2.358	2.358	(0.370)	3088061	7500.00	7263.78
9	Dichlorofluoromethane	67	2.664	2.664	(0.417)	5924572	60.0000	64.8341(A)
12	Ethyl Ether	59	2.933	2.933	(0.460)	1035256	60.0000	63.2524(A)
16	Trichlorotrifluoroethane	151	3.167	3.167	(0.496)	3018978	60.0000	61.4522(A)
18	Carbon Disulfide	76	3.418	3.418	(0.536)	8402483	60.0000	62.2356(A)
20	Allyl Chloride	41	3.490	3.490	(0.547)	4190708	60.0000	63.4377(A)
119	Methyl Acetate	43	3.508	3.508	(0.550)	2972579	300.000	321.548(A)
25	Methyl t-butyl ether	73	3.903	3.903	(0.612)	3202174	60.0000	64.6630(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26 Hexane	57	4.190	4.190	(0.417)	4256270	60.0000	65.0079(A)
29 Vinyl acetate	43	4.406	4.406	(0.690)	3032859	120.000	125.082(A)
35 Ethyl Acetate	43	5.089	5.089	(0.797)	1376931	120.000	125.705(A)
39 Tetrahydrofuran	42	5.376	5.376	(0.842)	305242	120.000	115.805
120 ETBE	59	4.855	4.855	(0.761)	32133275	300.000	340.574(A)
114 Cyclohexane	56	5.699	5.699	(0.893)	4319017	60.0000	60.3439(A)
115 2-Pentanone	43	7.029	7.029	(1.101)	2525520	240.000	262.888(A)
121 TAME	73	6.184	6.184	(0.969)	21967621	300.000	335.245(A)
54 Methyl Methacrylate	100	7.226	7.226	(1.132)	529051	120.000	120.071(A)
122 Methyl Cyclohexane	55	7.064	7.064	(1.107)	4094629	60.0000	60.1189(A)
57 2-nitropropane	41	7.675	7.675	(0.764)	182341	60.0000	69.6936(A)
113 2-Chloroethyl vinyl ether	63	7.765	7.765	(0.773)	392291	60.0000	83.2565(A)
64 Ethyl methacrylate	69	8.735	8.735	(0.869)	2988699	120.000	135.867(A)
116 cis-1,4-Dichloro-2-butene	53	11.429	11.429	(0.886)	211228	60.0000	69.3377(A)
86 t-1,4-Dichloro-2-butene	53	11.789	11.789	(0.914)	220307	60.0000	69.9112(A)
118 1,2,3-Trimethylbenzene	105	12.992	12.992	(2.036)	7136797	60.0000	60.4739(A)
123 1,2-dichloro-1,1,2-triflourom	117	2.933	2.933	(0.460)	3656513	60.0000	60.9383(A)
124 2,2-dichloro-1,1,1-trifluorom	83	2.987	2.987	(0.468)	5861986	60.0000	61.1990(A)
125 2-Propanol	45	3.310	3.310	(0.519)	672280	1200.00	1238.72(A)
126 Tetrahydrothiophene	60	9.328	9.328	(0.928)	375593	60.0000	67.8573(A)

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4151.d
Lab Smp Id: SUPP060
Analysis Type: VOA
Quant Type: ISTD
Operator: hoffmanm
Method File: /chem/H.i/051304.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/13/4
Calibration Time: 1055
Client Smp ID: SUPP060
Level: LOW
Sample Type: WATER

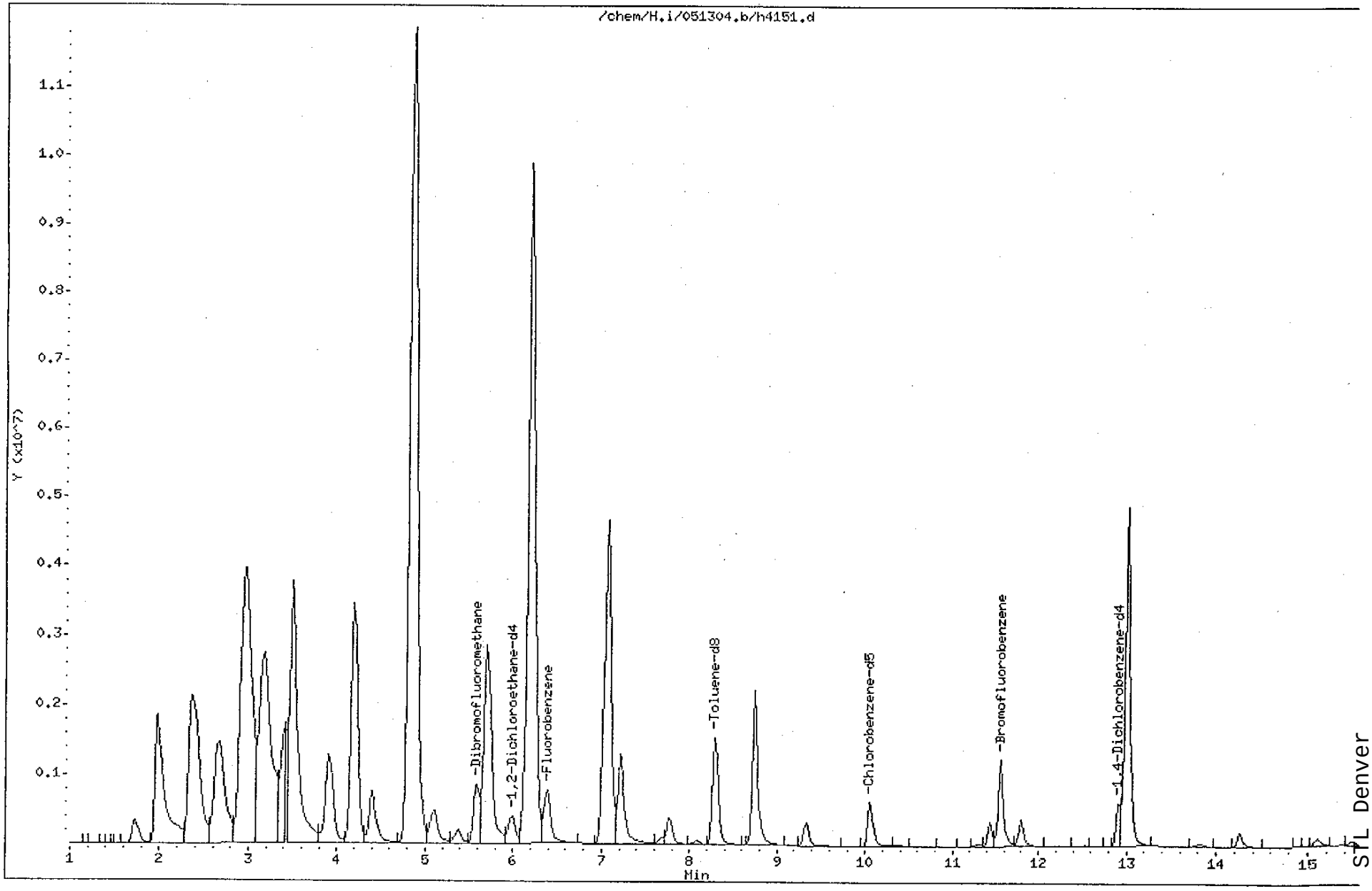
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1540572	770286	3081144	1489279	-3.33
72 Chlorobenzene-d5	325282	162641	650564	302093	-7.13
96 1,4-Dichlorobenze	424257	212128	848514	397972	-6.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.38	-0.25
72 Chlorobenzene-d5	10.06	9.56	10.56	10.05	-0.16
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.90	-0.12

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

Data File: /chem/H.i/051304.b/h4151.d
Date : 13-MAY-2004 11:34
Client ID: SUPP060
Sample Info: SUPP060,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i
Operator: hoffmanm
Column diameter: 0.53



GC/MS Continuing Calibration Review Checklist

STL Denver

Instrument ID and Date: # 05/29/04

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			✓	
4. Does %D meet criteria for non-CCC compounds?	✓			✓	
5. Isomeric pairs checked for correct peak assignment?	✓			✓	
6. Standards traceability properly documented?	✓			✓	
7. Manual integrations documented and checked?			✓	NA	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			✓	

1st Level Reviewer: JPY Date: 05/29/04

2nd Level Reviewer: DA Date: 6-1-04

Report Date: 29-May-2004 16:50

Calibration History

Method : /chem/H.i/052904.b/H-20ml-h2o.m
Start Cal Date: 13-MAY-2004 07:58
End Cal Date : 13-MAY-2004 11:34

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
13-MAY-2004 09:56	2-supp	/chem/H.i/051304.b/h4146.d
13-MAY-2004 07:58	1-main	/chem/H.i/051304.b/h4140.d
Cal Level: 2 , Cal Amount: 2.00000		
13-MAY-2004 10:15	2-supp	/chem/H.i/051304.b/h4147.d
13-MAY-2004 08:17	1-main	/chem/H.i/051304.b/h4141.d
Cal Level: 3 , Cal Amount: 5.00000		
13-MAY-2004 10:35	2-supp	/chem/H.i/051304.b/h4148.d
13-MAY-2004 08:37	1-main	/chem/H.i/051304.b/h4142.d
Cal Level: 4 , Cal Amount: 10.0000		
13-MAY-2004 10:55	2-supp	/chem/H.i/051304.b/h4149.d
13-MAY-2004 08:57	1-main	/chem/H.i/051304.b/h4143.d
Cal Level: 5 , Cal Amount: 30.0000		
13-MAY-2004 11:14	2-supp	/chem/H.i/051304.b/h4150.d
13-MAY-2004 09:16	1-main	/chem/H.i/051304.b/h4144.d
Cal Level: 6 , Cal Amount: 60.0000		
13-MAY-2004 11:34	2-supp	/chem/H.i/051304.b/h4151.d
13-MAY-2004 09:36	1-main	/chem/H.i/051304.b/h4145.d

Continuing Calibration

29-MAY-2004 15:28	2-supp	/chem/H.i/052904.b/h4665.d
29-MAY-2004 15:47	1-main	/chem/H.i/052904.b/h4666.d

Data File: /chem/H.i/052904.b/h4663.d

Date : 29-MAY-2004 14:54

Client ID: BFB

Instrument: H.i

Sample Info: BFB #073-04

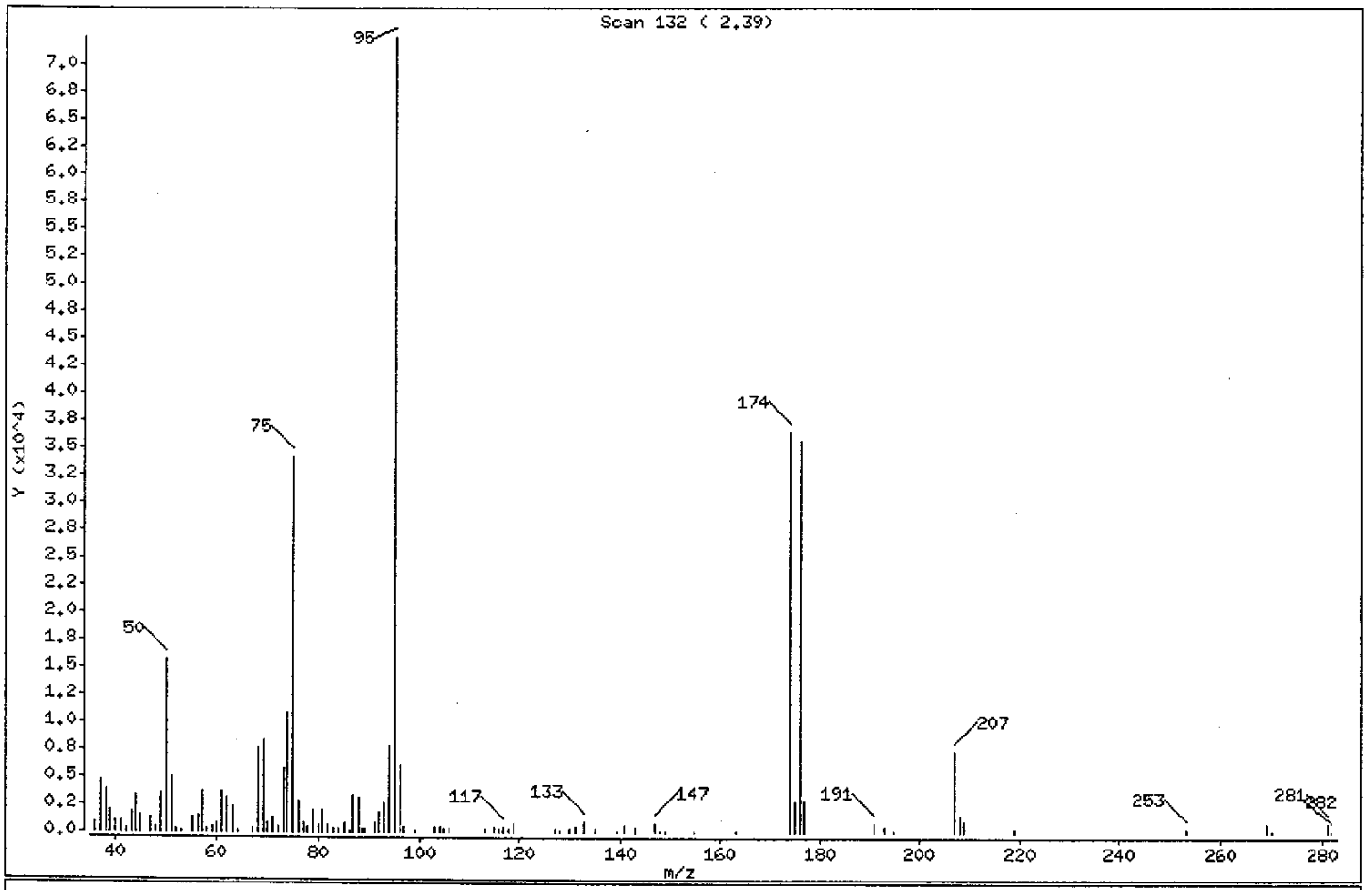
Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53

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	21.61
75	30.00 - 60.00% of mass 95	47.01
96	5.00 - 9.00% of mass 95	8.42
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	50.24
175	5.00 - 9.00% of mass 174	3.80 (7.56)
176	95.00 - 101.00% of mass 174	49.19 (97.91)
177	5.00 - 9.00% of mass 176	3.98 (8.10)

Data File: /chem/H.i/052904.b/h4663.d

Date : 29-MAY-2004 14:54

Client ID: BFB

Instrument: H.i

Sample Info: BFB #073-04

Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53

Data File: h4663.d
Spectrum: Scan 132 (2.39)
Location of Maximum: 95.05
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	916	63.00	2312	89.00	335	139.40	211
37.10	4691	64.00	242	91.00	877	140.90	670
38.10	3882	67.15	357	91.90	1901	142.90	429
39.00	1942	68.05	7651	93.05	2591	147.05	827
40.00	1051	69.05	8308	94.05	7910	147.95	232
41.05	1066	70.05	910	95.05	72456	148.95	230
42.05	416	71.15	1310	96.05	6100	154.95	211
43.15	1776	72.05	559	97.05	523	163.00	236
44.05	3359	73.05	5866	99.15	242	173.95	36400
45.05	1488	74.05	10870	103.05	531	174.95	2751
47.05	1338	75.05	34064	103.95	435	175.95	35640
47.95	531	76.05	2905	104.95	284	176.95	2886
49.05	3434	76.95	780	105.95	282	191.00	876
50.05	15660	77.95	434	113.00	275	193.00	450
51.05	4964	78.85	2048	115.00	421	195.00	209
52.05	383	79.90	619	115.90	270	207.05	7264
53.05	203	80.90	1918	116.90	551	208.05	1420
55.10	1257	81.90	671	117.90	378	209.05	966
56.10	1498	83.00	385	118.90	830	219.00	316
57.10	3723	84.10	301	127.05	301	253.05	323
58.00	281	85.10	800	127.85	247	269.10	779
59.10	475	86.10	207	129.95	307	270.10	209
60.00	888	87.00	3252	130.95	559	281.15	850
61.00	3721	88.00	3082	133.00	1043	282.05	229
62.00	3141	88.80	335	135.10	313		

Data File: /chem/H.i/052904.b/h4663.d

Date : 29-MAY-2004 14:54

Client ID: BFB

Instrument: H.i

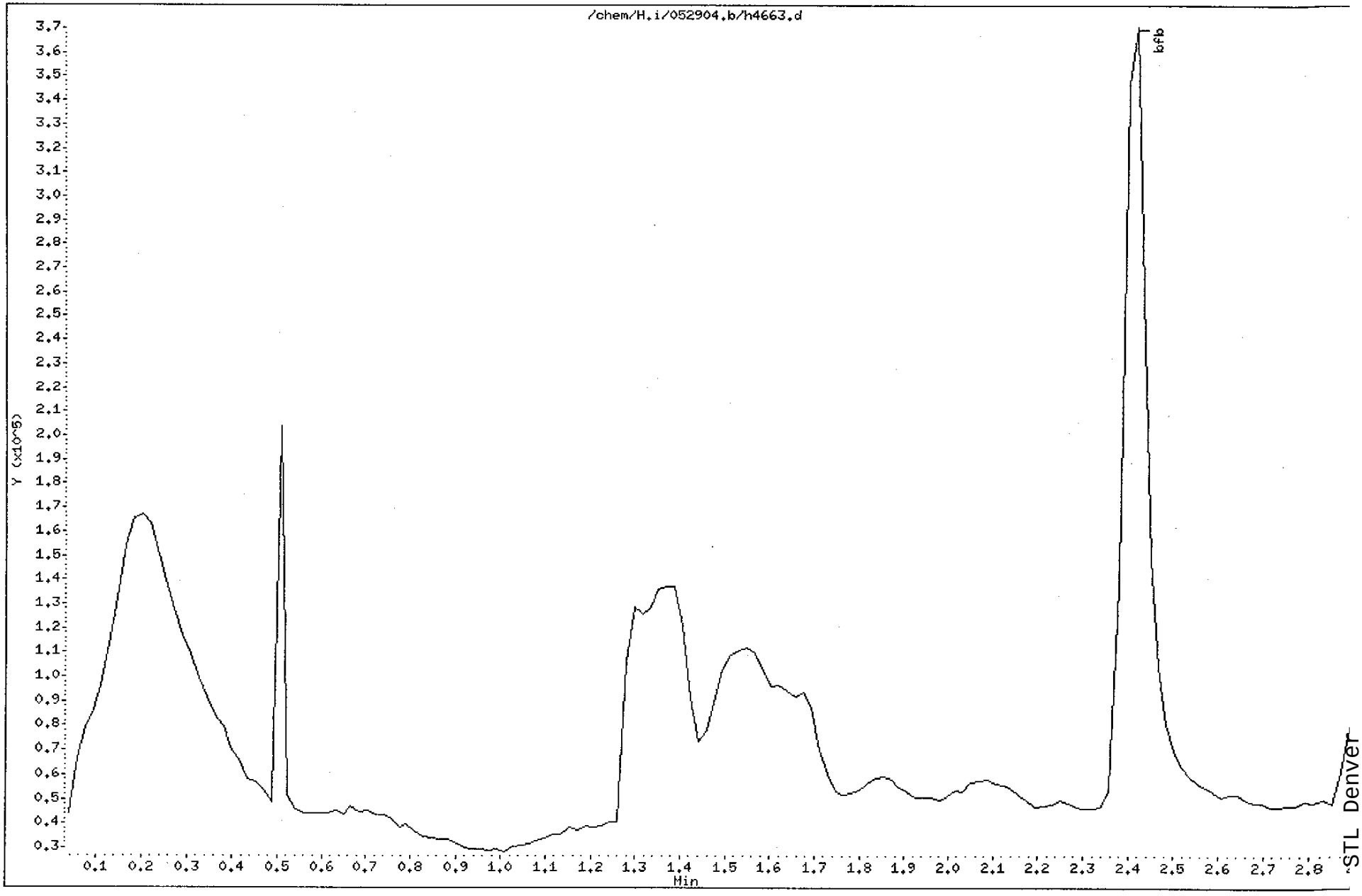
Sample Info: BFB #073-04

Volume Injected (uL): 1.0

Operator: mhoffman

Column phase: DB624

Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4666.d
Lab Smp Id: MAIN010 Client Smp ID: MAIN010
Inj Date : 29-MAY-2004 15:47
Operator : yanezj Inst ID: H.i
Smp Info : MAIN010,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:48 H Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	48 Fluorobenzene	96	6.400	6.400	(1.000)	1815283	10.0000	
*	72 Chlorobenzene-d5	119	10.064	10.064	(1.000)	378195	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.921	12.921	(1.000)	548441	10.0000	
M	1 1,2-Dichloroethene (total)	96				1069081	20.0000	19.9246
M	2 Xylene (total)	106				2431323	10.0000	29.4894
	3 dichlorodifluoromethane	85	1.891	1.891	(0.296)	849691	10.0000	9.93330
	4 Chloromethane	50	2.071	2.071	(0.324)	461570	10.0000	10.0881
	5 Vinyl Chloride	62	2.143	2.143	(0.335)	436223	10.0000	10.0924
	7 Bromomethane	94	2.448	2.448	(0.383)	398052	10.0000	9.93604
	8 Chloroethane	64	2.520	2.520	(0.394)	313526	10.0000	10.0563
	10 Trichlorofluoromethane	101	2.718	2.718	(0.425)	1271229	10.0000	10.0144
	11 Ethanol	45	2.826	2.826	(0.441)	37783	500.000	404.815
	13 Acrolein	56	3.059	3.059	(0.478)	160483	100.000	95.2084
	14 1,1-Dichloroethene	96	3.185	3.185	(0.498)	511963	10.0000	9.69756
	15 Acetone	43	3.203	3.203	(0.500)	117115	40.0000	40.1856
	17 Iodomethane	142	3.346	3.346	(0.523)	794696	10.0000	9.87317

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 Acetonitrile	41	3.472	3.472	(0.543)	68114	100.000	90.1624
21 Methylene Chloride	84	3.634	3.634	(0.568)	408158	10.0000	9.91137
22 tert-Butyl alcohol	59	3.742	3.742	(0.585)	216855	200.000	193.104
23 Acrylonitrile	53	3.867	3.867	(0.604)	277378	100.000	100.310
24 trans-1,2-Dichloroethene	96	3.921	3.921	(0.613)	536373	10.0000	9.89794
27 1,1-Dichloroethane	63	4.370	4.370	(0.683)	1014702	10.0000	9.81227
28 Chloroprene	53	4.478	4.478	(0.700)	843366	10.0000	9.58001
30 Isopropyl ether	87	4.442	4.442	(0.694)	1744843	50.0000	49.6816
32 cis-1,2-Dichloroethene	96	5.035	5.035	(0.787)	532708	10.0000	10.0267
31 2,2-Dichloropropane	77	5.053	5.053	(0.789)	795037	10.0000	9.98189
33 2-Butanone	43	5.053	5.053	(0.789)	218901	40.0000	42.0143
34 Propionitrile	54	5.107	5.107	(0.798)	103485	100.000	100.677
36 Methacrylonitrile	41	5.286	5.286	(0.826)	784180	100.000	99.7181
37 Bromochloromethane	128	5.322	5.322	(0.832)	205825	10.0000	10.1311
38 Chloroform	83	5.412	5.412	(0.846)	976176	10.0000	9.89361
41 1,1,1-Trichloroethane	97	5.646	5.646	(0.882)	1077158	10.0000	9.95676
42 1,1-Dichloropropene	75	5.825	5.825	(0.910)	836317	10.0000	9.77243
43 Carbon Tetrachloride	117	5.843	5.843	(0.913)	990766	10.0000	9.76642
45 Isobutanol	41	5.951	5.951	(0.930)	61714	200.000	180.199
46 Benzene	78	6.077	6.077	(0.949)	1437897	10.0000	9.82985
47 1,2-Dichloroethane	62	6.095	6.095	(0.952)	382754	10.0000	10.0638
49 n-Butanol	56	6.759	6.759	(1.056)	50291	200.000	199.885
50 Trichloroethene	130	6.849	6.849	(1.070)	616253	10.0000	9.90975
52 1,2-Dichloropropane	63	7.101	7.101	(1.109)	498883	10.0000	10.1880
53 Dibromomethane	93	7.244	7.244	(1.132)	256786	10.0000	10.0156
55 1,4-Dioxane	88	7.262	7.262	(1.135)	62204	500.000	504.818
56 Bromodichloromethane	83	7.424	7.424	(1.160)	755382	10.0000	10.1716
59 cis-1,3-Dichloropropene	75	7.963	7.963	(0.791)	609797	10.0000	9.81546
60 4-Methyl-2-pentanone	43	8.160	8.160	(0.811)	624824	40.0000	39.9042
62 Toluene	91	8.376	8.376	(0.832)	1721403	10.0000	9.63340
63 trans-1,3-Dichloropropene	75	8.645	8.645	(0.859)	396040	10.0000	9.52470
65 1,1,2-Trichloroethane	97	8.861	8.861	(0.880)	253054	10.0000	9.62776
67 1,3-Dichloropropane	76	9.077	9.077	(0.902)	408200	10.0000	9.86004
66 Tetrachloroethene	164	9.059	9.059	(0.900)	542521	10.0000	9.61656
68 2-Hexanone	43	9.166	9.166	(0.911)	393952	40.0000	40.0541
69 Dibromochloromethane	129	9.346	9.346	(0.929)	451858	10.0000	9.82802
70 1,2-Dibromoethane	107	9.490	9.490	(0.943)	339025	10.0000	9.93663
71 1-Chlorohexane	91	10.064	10.064	(1.000)	870588	10.0000	9.76214
73 Chlorobenzene	112	10.100	10.100	(1.004)	1172509	10.0000	9.77345
74 1,1,1,2-Tetrachloroethane	131	10.190	10.190	(1.012)	486495	10.0000	9.78141
75 Ethylbenzene	106	10.226	10.226	(1.016)	605769	10.0000	9.73556
76 m and p-Xylene	106	10.370	10.370	(1.030)	1699938	20.0000	19.7789
77 o-Xylene	106	10.891	10.891	(1.082)	731385	10.0000	9.71051
78 Styrene	104	10.909	10.909	(1.084)	1150334	10.0000	10.1810
79 Bromoform	173	11.142	11.142	(1.107)	232464	10.0000	10.0864
80 isopropyl benzene	105	11.358	11.358	(1.129)	2473717	10.0000	9.83071
81 Cyclohexanone	55	11.484	11.484	(1.141)	269831	400.000	443.615

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
83 1,1,2,2-Tetrachloroethane	83	11.735	11.735	(1.166)	299664	10.0000	9.98070
84 Bromobenzene	156	11.753	11.753	(0.910)	454622	10.0000	9.67211
85 1,2,3-Trichloropropane	110	11.789	11.789	(0.912)	79110	10.0000	9.48527
87 n-Propylbenzene	120	11.879	11.879	(0.919)	575169	10.0000	9.63742
88 2-Chlorotoluene	126	11.986	11.986	(0.928)	436483	10.0000	9.49767
89 1,3,5-Trimethylbenzene	105	12.094	12.094	(0.936)	1851353	10.0000	9.55281
90 4-Chlorotoluene	126	12.112	12.112	(0.937)	491407	10.0000	9.73045
91 tert-Butylbenzene	119	12.471	12.471	(0.965)	1932184	10.0000	9.46262
92 1,2,4-Trimethylbenzene	105	12.525	12.525	(0.969)	1729537	10.0000	9.79044
93 sec-Butylbenzene	134	12.723	12.723	(0.985)	457720	10.0000	9.56585
94 m-Dichlorobenzene	146	12.849	12.849	(0.994)	783459	10.0000	10.2708
95 4-Isopropyltoluene	119	12.885	12.885	(0.997)	2224977	10.0000	9.73935
97 p-dichlorobenzene	146	12.938	12.938	(1.001)	906424	10.0000	9.20316
98 n-Butylbenzene	91	13.316	13.316	(1.031)	2173290	10.0000	9.86020
99 o-Dichlorobenzene	146	13.334	13.334	(1.032)	649964	10.0000	9.78103
100 1,2-Dibromo-3-chloropropane	157	14.106	14.106	(1.092)	46983	10.0000	9.90560
101 1,2,4-Trichlorobenzene	180	14.878	14.878	(1.152)	512149	10.0000	10.6335
102 Hexachlorobutadiene	225	15.040	15.040	(1.164)	473819	10.0000	10.4152
127 Naphthalene	128	15.112	15.112	(1.170)	456862	10.0000	10.4312
104 1,2,3-Trichlorobenzene	180	15.363	15.363	(1.189)	375449	10.0000	10.4627

Internal Standard Check Report

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 15:47
Lab Sample ID: MAIN010
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	1613156	1815283	6.379	6.400	112.5
Chlorobenzene-d5	325674	378195	10.062	10.064	116.1
1,4-Dichlorobenzene-d4	462254	548441	12.918	12.921	118.6

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4666.d
Lab Smp Id: MAIN010
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/29/4
Calibration Time: 1547
Client Smp ID: MAIN010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1815283	907642	3630566	1815283	0.00
72 Chlorobenzene-d5	378195	189098	756390	378195	0.00
96 1,4-Dichlorobenze	548441	274220	1096882	548441	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	0.00
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 15:47
Lab Sample ID: MAIN010
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
83	Xylene (total)	30.0000	29.4894	1.7	50.0
85	1,2-Dichloroethene (total)	20.0000	19.9247	0.4	50.0
64	dichlorodifluoromethane	10.0000	9.9333	0.7	50.0
1	Chloromethane	10.0000	10.0881	0.9	50.0
4	Vinyl Chloride	10.0000	10.0924	0.9	20.0
2	Bromomethane	10.0000	9.9360	0.6	50.0
5	Chloroethane	10.0000	10.0563	0.6	50.0
11	Trichlorofluoromethane	10.0000	10.0144	0.1	50.0
3	Ethanol	500.0000	404.8152	19.0	50.0
8	Acrolein	100.0000	95.2084	4.8	50.0
12	1,1-Dichloroethene	10.0000	9.6976	3.0	20.0
7	Acetone	40.0000	40.1856	0.5	50.0
21	Iodomethane	10.0000	9.8732	1.3	50.0
68	Acetonitrile	100.0000	90.1624	9.8	50.0
6	Methylene Chloride	10.0000	9.9114	0.9	50.0
86	tert-Butyl alcohol	200.0000	193.1043	3.4	50.0
9	Acrylonitrile	100.0000	100.3096	0.3	50.0
0	trans-1,2-Dichloroethene	10.0000	9.8979	1.0	50.0
15	1,1-Dichloroethane	10.0000	9.8123	1.9	50.0
84	Isopropyl ether	50.0000	49.6816	0.6	50.0
69	Chloroprene	10.0000	9.5800	4.2	50.0
0	cis-1,2-Dichloroethene	10.0000	10.0267	0.3	50.0
20	2-Butanone	40.0000	42.0143	5.0	50.0
93	2,2-Dichloropropane	10.0000	9.9819	0.2	50.0
70	Propionitrile	100.0000	100.6768	0.7	50.0
72	Methacrylonitrile	100.0000	99.7181	0.3	50.0
13	Bromochloromethane	10.0000	10.1311	1.3	50.0
17	Chloroform	10.0000	9.8936	1.1	20.0
22	1,1,1-Trichloroethane	10.0000	9.9568	0.4	50.0
94	1,1-Dichloropropene	10.0000	9.7724	2.3	50.0
23	Carbon Tetrachloride	10.0000	9.7664	2.3	50.0
71	Isobutanol	200.0000	180.1994	9.9	50.0
30	Benzene	10.0000	9.8298	1.7	50.0
16	1,2-Dichloroethane	10.0000	10.0639	0.6	50.0
88	n-Butanol	200.0000	199.8848	0.1	50.0
29	Trichloroethene	10.0000	9.9097	0.9	50.0
26	1,2-Dichloropropane	10.0000	10.1880	1.9	20.0
34	Dibromomethane	10.0000	10.0156	0.2	50.0
57	1,4-Dioxane	500.0000	504.8178	1.0	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 15:47
Lab Sample ID: MAIN010
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
25	Bromodichloromethane	10.0000	10.1716	1.7	50.0
28	cis-1,3-Dichloropropene	10.0000	9.8155	1.8	50.0
38	4-Methyl-2-pentanone	40.0000	39.9042	0.2	50.0
45	Toluene	10.0000	9.6334	3.7	20.0
31	trans-1,3-Dichloropropene	10.0000	9.5247	4.8	50.0
32	1,1,2-Trichloroethane	10.0000	9.6278	3.7	50.0
42	Tetrachloroethene	10.0000	9.6166	3.8	50.0
109	1,3-Dichloropropane	10.0000	9.8600	1.4	50.0
43	2-Hexanone	40.0000	40.0541	0.1	50.0
36	Dibromochloromethane	10.0000	9.8280	1.7	50.0
58	1,2-Dibromoethane	10.0000	9.9366	0.6	50.0
92	1-Chlorohexane	10.0000	9.7621	2.4	50.0
46	Chlorobenzene	10.0000	9.7734	2.3	50.0
74	1,1,1,2-Tetrachloroethane	10.0000	9.7814	2.2	50.0
47	Ethylbenzene	10.0000	9.7356	2.6	20.0
0	m and p-Xylene	20.0000	19.7789	1.1	50.0
0	o-Xylene	10.0000	9.7105	2.9	50.0
49	Styrene	10.0000	10.1810	1.8	50.0
37	Bromoform	10.0000	10.0864	0.9	50.0
79	isopropyl benzene	10.0000	9.8307	1.7	50.0
76	Cyclohexanone	400.0000	443.6150	10.9	50.0
40	1,1,2,2-Tetrachloroethane	10.0000	9.9807	0.2	50.0
95	Bromobenzene	10.0000	9.6721	3.3	50.0
50	1,2,3-Trichloropropane	10.0000	9.4853	5.1	50.0
96	n-Propylbenzene	10.0000	9.6374	3.6	50.0
97	2-Chlorotoluene	10.0000	9.4977	5.0	50.0
98	1,3,5-Trimethylbenzene	10.0000	9.5528	4.5	50.0
99	4-Chlorotoluene	10.0000	9.7305	2.7	50.0
100	tert-Butylbenzene	10.0000	9.4626	5.4	50.0
101	1,2,4-Trimethylbenzene	10.0000	9.7904	2.1	50.0
102	sec-Butylbenzene	10.0000	9.5659	4.3	50.0
61	m-Dichlorobenzene	10.0000	10.2708	2.7	50.0
103	4-Isopropyltoluene	10.0000	9.7394	2.6	50.0
62	p-dichlorobenzene	10.0000	9.2032	8.0	50.0
104	n-Butylbenzene	10.0000	9.8602	1.4	50.0
63	o-Dichlorobenzene	10.0000	9.7810	2.2	50.0
75	1,2-Dibromo-3-chloropropane	10.0000	9.9056	0.9	50.0
105	1,2,4-Trichlorobenzene	10.0000	10.6335	6.3	50.0
106	Hexachlorobutadiene	10.0000	10.4153	4.2	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 15:47
Lab Sample ID: MAIN010
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
107 Naphthalene	10.0000	10.4312	4.3	50.0
108 1,2,3-Trichlorobenzene	10.0000	10.4627	4.6	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 29-MAY-2004 15:47
Init. Calibration Date(s): 05/13/4 05/13/4
Init. Calibration Times: 07:58 11:34
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
M	1 1,2-Dichloroethene (total)	0.296	0.294	0.010	0.4	50.0
M	2 Xylene (total)	6.537	6.429	0.010	1.7	50.0
	3 dichlorodifluoromethane	0.471	0.468	0.010	0.7	50.0
	4 Chloromethane	0.252	0.254	0.100	-0.9	50.0
	5 Vinyl Chloride	0.238	0.240	0.020	-0.9	20.0
	7 Bromomethane	0.221	0.219	0.010	0.6	50.0
	8 Chloroethane	0.172	0.173	0.010	-0.6	50.0
	10 Trichlorofluoromethane	0.699	0.700	0.010	-0.1	50.0
	11 Ethanol	0.001	0.000	0.000	19.0	50.0
	13 Acrolein	0.009	0.009	0.001	4.8	50.0
	14 1,1-Dichloroethene	0.291	0.282	0.020	3.0	20.0
	15 Acetone	0.016	0.016	0.001	-0.5	50.0
	17 Iodomethane	0.443	0.438	0.010	1.3	50.0
	19 Acetonitrile	0.004	0.004	0.000	9.8	50.0
	21 Methylene Chloride	0.227	0.225	0.010	0.9	50.0
	22 tert-Butyl alcohol	0.006	0.006	0.001	3.4	50.0
	23 Acrylonitrile	0.015	0.015	0.001	-0.3	50.0
	24 trans-1,2-Dichloroethene	0.299	0.295	0.010	1.0	50.0
	27 1,1-Dichloroethane	0.570	0.559	0.100	1.9	50.0
	28 Chloroprene	0.485	0.465	0.010	4.2	50.0
	30 Isopropyl ether	0.193	0.192	0.010	0.6	50.0
	32 cis-1,2-Dichloroethene	0.293	0.293	0.010	-0.3	50.0
	31 2,2-Dichloropropane	0.439	0.438	0.010	0.2	50.0
	33 2-Butanone	0.029	0.030	0.010	-5.0	50.0
	34 Propionitrile	0.006	0.006	0.001	-0.7	50.0
	36 Methacrylonitrile	0.043	0.043	0.010	0.3	50.0
	37 Bromochloromethane	0.112	0.113	0.010	-1.3	50.0
	38 Chloroform	0.544	0.538	0.020	1.1	20.0
	41 1,1,1-Trichloroethane	0.596	0.593	0.010	0.4	50.0
	42 1,1-Dichloropropene	0.471	0.461	0.010	2.3	50.0
	43 Carbon Tetrachloride	0.559	0.546	0.010	2.3	50.0
	45 Isobutanol	0.002	0.002	0.000	9.9	50.0
	46 Benzene	0.806	0.792	0.010	1.7	50.0
	47 1,2-Dichloroethane	0.210	0.211	0.010	-0.6	50.0
	49 n-Butanol	0.001	0.001	0.000	0.1	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 29-MAY-2004 15:47
Init. Calibration Date(s): 05/13/4 05/13/4
Init. Calibration Times: 07:58 11:34
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
50	Trichloroethene	0.343	0.339	0.010	0.9	50.0
52	1,2-Dichloropropane	0.270	0.275	0.020	-1.9	20.0
53	Dibromomethane	0.141	0.141	0.010	-0.2	50.0
55	1,4-Dioxane	0.001	0.001	0.000	-1.0	50.0
56	Bromodichloromethane	0.409	0.416	0.010	-1.7	50.0
59	cis-1,3-Dichloropropene	1.643	1.612	0.010	1.8	50.0
60	4-Methyl-2-pentanone	0.414	0.413	0.010	0.2	50.0
62	Toluene	4.725	4.552	0.020	3.7	20.0
63	trans-1,3-Dichloropropene	1.099	1.047	0.010	4.8	50.0
65	1,1,2-Trichloroethane	0.695	0.669	0.010	3.7	50.0
67	1,3-Dichloropropane	1.095	1.079	0.010	1.4	50.0
66	Tetrachloroethene	1.492	1.435	0.010	3.8	50.0
68	2-Hexanone	0.260	0.260	0.010	-0.1	50.0
69	Dibromochloromethane	1.216	1.195	0.010	1.7	50.0
70	1,2-Dibromoethane	0.902	0.896	0.010	0.6	50.0
71	1-Chlorohexane	2.358	2.302	0.010	2.4	50.0
73	Chlorobenzene	3.172	3.100	0.300	2.3	50.0
74	1,1,1,2-Tetrachloroethane	1.315	1.286	0.010	2.2	50.0
75	Ethylbenzene	1.645	1.602	0.010	2.6	20.0
76	m and p-Xylene	2.273	2.247	0.010	1.1	50.0
77	o-Xylene	1.992	1.934	0.010	2.9	50.0
78	Styrene	2.988	3.042	0.010	-1.8	50.0
79	Bromoform	0.609	0.615	0.101	-0.9	50.0
80	isopropyl benzene	6.653	6.541	0.010	1.7	50.0
81	Cyclohexanone	0.016	0.018	0.001	-10.9	50.0
83	1,1,2,2-Tetrachloroethane	0.794	0.792	0.300	0.2	50.0
84	Bromobenzene	0.857	0.829	0.010	3.3	50.0
85	1,2,3-Trichloropropane	0.152	0.144	0.010	5.1	50.0
87	n-Propylbenzene	1.088	1.049	0.010	3.6	50.0
88	2-Chlorotoluene	0.838	0.796	0.010	5.0	50.0
89	1,3,5-Trimethylbenzene	3.534	3.376	0.010	4.5	50.0
90	4-Chlorotoluene	0.921	0.896	0.010	2.7	50.0
91	tert-Butylbenzene	3.723	3.523	0.010	5.4	50.0
92	1,2,4-Trimethylbenzene	3.221	3.154	0.010	2.1	50.0
93	sec-Butylbenzene	0.872	0.835	0.010	4.3	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: H.i
Lab File ID: h4666.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 29-MAY-2004 15:47
Init. Calibration Date(s): 05/13/4 05/13/4
Init. Calibration Times: 07:58 11:34
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
94	m-Dichlorobenzene	1.391	1.429	0.010	-2.7	50.0
95	4-Isopropyltoluene	4.165	4.057	0.010	2.6	50.0
97	p-dichlorobenzene	1.796	1.653	0.010	8.0	50.0
98	n-Butylbenzene	4.019	3.963	0.010	1.4	50.0
99	o-Dichlorobenzene	1.212	1.185	0.010	2.2	50.0
100	1,2-Dibromo-3-chloropropane	0.086	0.086	0.010	0.9	50.0
101	1,2,4-Trichlorobenzene	0.878	0.934	0.010	-6.3	50.0
102	Hexachlorobutadiene	0.829	0.864	0.010	-4.2	50.0
127	Naphthalene	0.799	0.833	0.010	-4.3	50.0
104	1,2,3-Trichlorobenzene	0.654	0.685	0.010	-4.6	50.0

Data File: /chem/H.i/052904.b/h4666.d

Date : 29-MAY-2004 15:47

Client ID: MAIN010

Sample Info: MAIN010,,

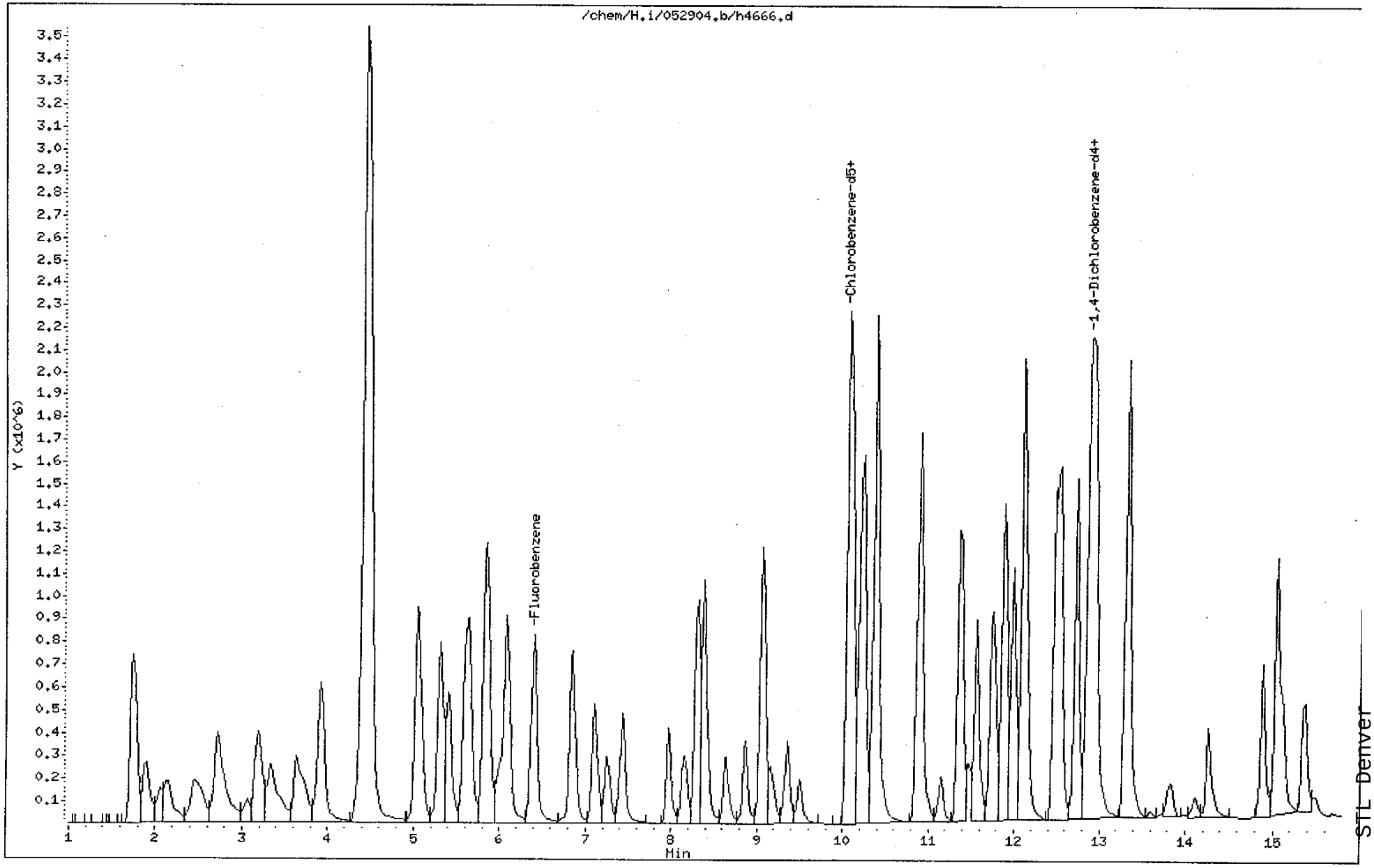
Purge Volume: 20.0

Column phase: DB624

Instrument: H.i

Operator: yanezj

Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4665.d
Lab Smp Id: SUPP010 Client Smp ID: SUPP010
Inj Date : 29-MAY-2004 15:28
Operator : yanezj Inst ID: H.i
Smp Info : SUPP010,,
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:49 H Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 48 Fluorobenzene	96	6.400	6.400	(1.000)	1511042	10.0000	
* 72 Chlorobenzene-d5	119	10.065	10.065	(1.000)	370905	10.0000	
* 96 1,4-Dichlorobenzene-d4	152	12.921	12.921	(1.000)	532545	10.0000	
$ 40 Dibromofluoromethane	111	5.592	5.592	(0.874)	792280	10.0000	11.5450
$ 44 1,2-Dichloroethane-d4	65	5.987	5.987	(0.935)	286970	10.0000	10.6325
$ 61 Toluene-d8	98	8.286	8.286	(0.823)	1346685	10.0000	8.71585
$ 82 Bromofluorobenzene	95	11.555	11.555	(1.148)	860553	10.0000	10.5831
117 Dichlorotetrafluoroethane	85	1.981	1.981	(0.310)	764663	10.0000	9.74106
6 Ethylene Oxide	43	2.377	2.377	(0.371)	620463	1250.00	1438.44
9 Dichlorofluoromethane	67	2.664	2.664	(0.416)	1153049	10.0000	12.4364
12 Ethyl Ether	59	2.933	2.933	(0.458)	205199	10.0000	12.3567
16 Trichlorotrifluoroethane	151	3.167	3.167	(0.495)	619110	10.0000	12.4207
18 Carbon Disulfide	76	3.418	3.418	(0.534)	1647303	10.0000	12.0255
20 Allyl Chloride	41	3.508	3.508	(0.548)	817329	10.0000	12.1943
119 Methyl Acetate	43	3.508	3.508	(0.548)	591731	50.0000	63.0866
25 Methyl t-butyl ether	73	3.921	3.921	(0.613)	648307	10.0000	12.9030

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26 Hexane	57	4.209	4.209	(0.418)	853301	10.0000	10.6149
29 Vinyl acetate	43	4.406	4.406	(0.688)	729607	20.0000	29.6572
35 Ethyl Acetate	43	5.107	5.107	(0.798)	291337	20.0000	26.2141
39 Tetrahydrofuran	42	5.394	5.394	(0.843)	61579	20.0000	23.0258
120 ETBE	59	4.855	4.855	(0.759)	5923429	50.0000	61.8770
114 Cyclohexane	56	5.718	5.718	(0.893)	923886	10.0000	12.7223
115 2-Pentanone	43	7.047	7.047	(1.101)	523582	40.0000	53.7161
121 TAME	73	6.203	6.203	(0.969)	4213658	50.0000	63.3779
54 Methyl Methacrylate	100	7.226	7.226	(1.129)	107422	20.0000	24.0289
122 Methyl Cyclohexane	55	7.065	7.065	(1.104)	892860	10.0000	12.9205
57 2-nitropropane	41	7.694	7.694	(0.764)	38355	10.0000	11.1504
113 2-Chloroethyl vinyl ether	63	7.783	7.783	(0.773)	42494	10.0000	7.05176(a)
64 Ethyl methacrylate	69	8.735	8.735	(0.868)	604795	20.0000	22.3934
116 cis-1,4-Dichloro-2-butene	53	11.448	11.448	(0.886)	37433	10.0000	9.18267
86 t-1,4-Dichloro-2-butene	53	11.807	11.807	(0.914)	36577	10.0000	8.67406
118 1,2,3-Trimethylbenzene	105	12.992	12.992	(2.030)	1598758	10.0000	13.3520
123 1,2-dichloro-1,1,2-triflourom	117	2.933	2.933	(0.458)	757348	10.0000	12.4399
124 2,2-dichloro-1,1,1-trifluorom	83	2.987	2.987	(0.467)	1209087	10.0000	12.4410
125 2-Propanol	45	3.311	3.311	(0.517)	137709	200.000	250.083
126 Tetrahydrothiophene	60	9.346	9.346	(0.929)	52750	10.0000	7.76211

QC Flag Legend

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

Internal Standard Check Report

Instrument ID: H.i
Lab File ID: h4665.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 15:28
Lab Sample ID: SUPP010
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	1540572	1511042	6.398	6.400	98.1
Chlorobenzene-d5	325282	370905	10.062	10.065	114.0
1,4-Dichlorobenzene-d4	424257	532545	12.918	12.921	125.5

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4665.d
Lab Smp Id: SUPP010
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/29/4
Calibration Time: 1547
Client Smp ID: SUPP010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1815283	907642	3630566	1511042	-16.76
72 Chlorobenzene-d5	378195	189098	756390	370905	-1.93
96 1,4-Dichlorobenze	548441	274220	1096882	532545	-2.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	0.00
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	0.00

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

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: H.i
Lab File ID: h4665.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 15:28
Lab Sample ID: SUPP010
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
117	Dichlorotetrafluoroethane	10.0000	9.7411	2.6	60.0
110	Ethylene Oxide	1250.0000	1438.4412	15.1	50.0
87	Dichlorofluoromethane	10.0000	12.4364	24.4	50.0
123	1,2-dichloro-1,1,2-triflourom	10.0000	12.4399	24.4	50.0
77	Ethyl Ether	10.0000	12.3567	23.6	50.0
124	2,2-dichloro-1,1,1-trifluorom	10.0000	12.4410	24.4	50.0
65	Trichlorotrifluoroethane	10.0000	12.4207	24.2	50.0
125	2-Propanol	200.0000	250.0834	25.0	50.0
10	Carbon Disulfide	10.0000	12.0255	20.3	50.0
119	Methyl Acetate	50.0000	63.0866	26.2	50.0
67	Allyl Chloride	10.0000	12.1943	21.9	50.0
53	Methyl t-butyl ether	10.0000	12.9030	29.0	50.0
54	Hexane	10.0000	10.6149	6.1	50.0
24	Vinyl acetate	20.0000	29.6572	48.3	50.0
120	ETBE	50.0000	61.8770	23.8	50.0
78	Ethyl Acetate	20.0000	26.2141	31.1	50.0
56	Tetrahydrofuran	20.0000	23.0258	15.1	50.0
89	Dibromofluoromethane	10.0000	11.5450	15.4	50.0
114	Cyclohexane	10.0000	12.7223	27.2	50.0
303	1,2-Dichloroethane-d4	10.0000	10.6325	6.3	50.0
121	TAME	50.0000	63.3779	26.8	50.0
115	2-Pentanone	40.0000	53.7161	34.3	50.0
122	Methyl Cyclohexane	10.0000	12.9205	29.2	50.0
73	Methyl Methacrylate	20.0000	24.0289	20.1	50.0
82	2-nitropropane	10.0000	11.1504	11.5	50.0
35	2-Chloroethyl vinyl ether	10.0000	7.0518	29.5	50.0
301	Toluene-d8	10.0000	8.7158	12.8	50.0
41	Ethyl methacrylate	20.0000	22.3934	12.0	50.0
126	Tetrahydrothiophene	10.0000	7.7621	22.4	50.0
116	cis-1,4-Dichloro-2-butene	10.0000	9.1827	8.2	50.0
302	Bromofluorobenzene	10.0000	10.5831	5.8	50.0
60	t-1,4-Dichloro-2-butene	10.0000	8.6741	13.3	50.0
118	1,2,3-Trimethylbenzene	10.0000	13.3520	33.5	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: H.i
Lab File ID: h4665.d
Analysis Type: WATER
Lab Sample ID: SUPP010
Quant Type: ISTD

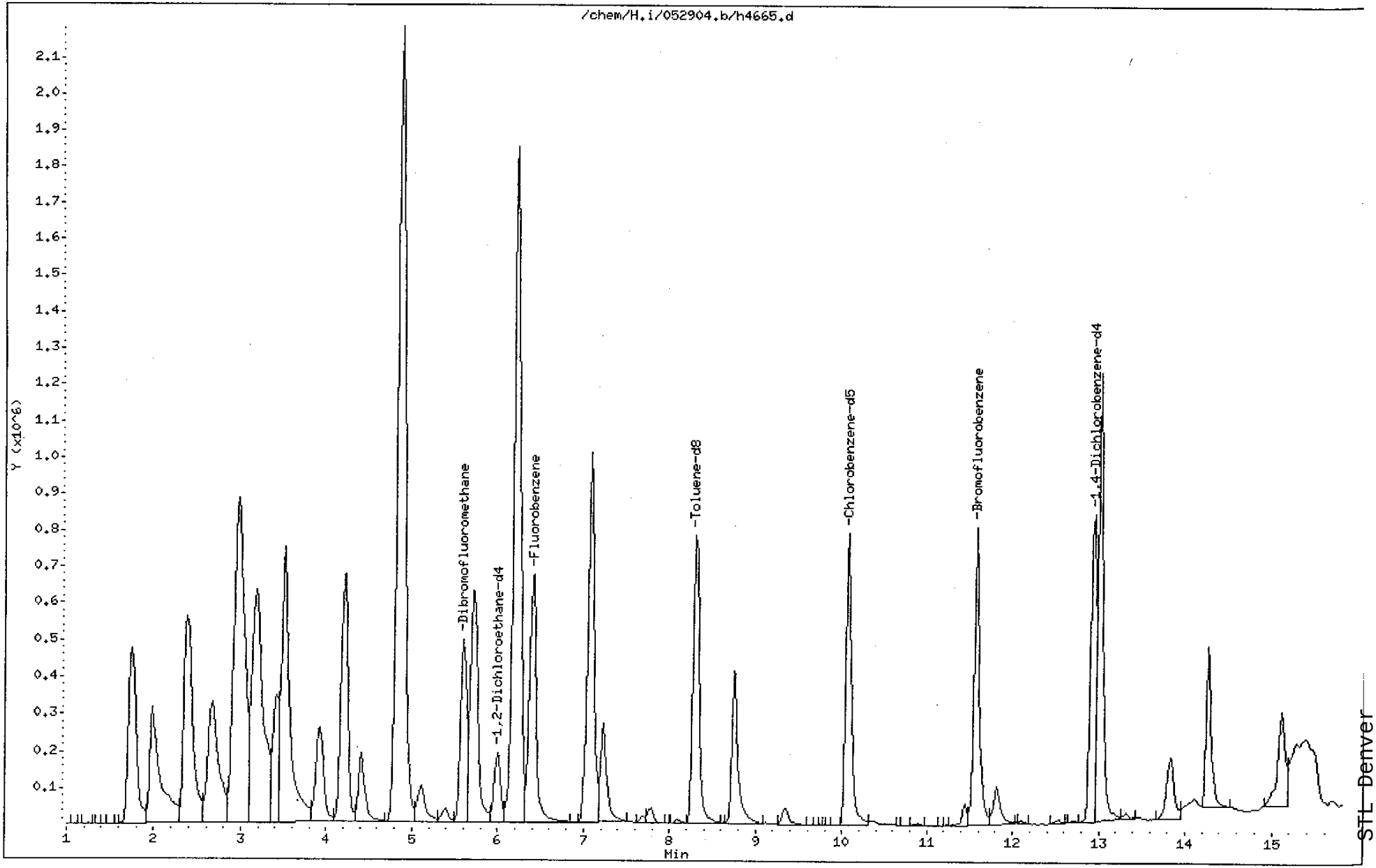
Injection Date: 29-MAY-2004 15:28
Init. Calibration Date(s): 05/13/4 05/13/4
Init. Calibration Times: 07:58 11:34
Method File: /chem/H.i/052904.b/H-20ml-h2o.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
$	40 Dibromofluoromethane	0.454	0.524	0.010	-15.4	50.0
$	44 1,2-Dichloroethane-d4	0.179	0.190	0.010	-6.3	50.0
$	61 Toluene-d8	4.166	3.631	0.010	12.8	50.0
$	82 Bromofluorobenzene	2.192	2.320	0.010	-5.8	50.0
	117 Dichlorotetrafluoroethane	0.520	0.506	0.010	2.6	80.0
	6 Ethylene Oxide	0.003	0.003	0.001	-15.1	50.0
	9 Dichlorofluoromethane	0.614	0.763	0.010	-24.4	50.0
	12 Ethyl Ether	0.110	0.136	0.010	-23.6	50.0
	16 Trichlorotrifluoroethane	0.330	0.410	0.010	-24.2	50.0
	18 Carbon Disulfide	0.907	1.090	0.010	-20.3	50.0
	20 Allyl Chloride	0.444	0.541	0.010	-21.9	50.0
	119 Methyl Acetate	0.062	0.078	0.010	-26.2	50.0
	25 Methyl t-butyl ether	0.333	0.429	0.010	-29.0	50.0
	26 Hexane	2.167	2.301	0.010	-6.1	50.0
	29 Vinyl acetate	0.163	0.241	0.010	-48.3	50.0
	35 Ethyl Acetate	0.074	0.096	0.010	-31.1	50.0
	39 Tetrahydrofuran	0.018	0.020	0.003	-15.1	50.0
	120 ETBE	0.634	0.784	0.010	-23.8	50.0
	114 Cyclohexane	0.481	0.611	0.010	-27.2	50.0
	115 2-Pentanone	0.065	0.087	0.005	-34.3	50.0
	121 TAME	0.440	0.558	0.010	-26.8	50.0
	54 Methyl Methacrylate	0.030	0.036	0.010	-20.1	50.0
	122 Methyl Cyclohexane	0.457	0.591	0.010	-29.2	50.0
	57 2-nitropropane	0.099	0.103	0.010	N/A	N/A
	113 2-Chloroethyl vinyl ether	0.219	0.115	0.010	N/A	N/A
	64 Ethyl methacrylate	0.728	0.815	0.010	-12.0	50.0
	116 cis-1,4-Dichloro-2-butene	0.077	0.070	0.010	8.2	50.0
	86 t-1,4-Dichloro-2-butene	0.079	0.069	0.010	13.3	50.0
	118 1,2,3-Trimethylbenzene	0.792	1.058	0.010	-33.5	50.0
	123 1,2-dichloro-1,1,2-triflour	0.403	0.501	0.010	-24.4	50.0
	124 2,2-dichloro-1,1,1-trifluor	0.643	0.800	0.010	-24.4	50.0
	125 2-Propanol	0.004	0.005	0.001	-25.0	50.0
	126 Tetrahydrothiophene	0.183	0.142	0.010	22.4	50.0

Data File: /chem/H.i/052904.b/h4665.d
Date : 29-MAY-2004 15:28
Client ID: SUPP010
Sample Info: SUPP010,,
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: yanezj
Column diameter: 0.53



GC/MS VOLATILE
SAMPLE DATA

SEVERN TRENT STL

Matrix Spike Report

UNSPIKED SAMPLE
Data File : /chem/H.i/052904.b/h4674.d
Samp Info : GG8K41AA,,D4E270388-012
Inj Date : 29-MAY-2004 19:21
Sample Amt : 20mL

SPIKE SAMPLE
Data File : /chem/H.i/052904.b/h4675.d
Samp Info : GG8K41AC,,D4E270388-012MS
Inj Date : 29-MAY-2004 19:40
Sample Amt : 20mL

SPIKE DUPLICATE SAMPLE
Data File : /chem/H.i/052904.b/h4676.d
Samp Info : GG8K41AD,,D4E270388-012MSD
Inj Date : 29-MAY-2004 20:00
Sample Amt : 20mL

	Concentration				%Recovery				RPD	
Sample	MS		MSD		Measured		Limits			
Measured	Spiked	Measured	Spiked	Measured	MS	MSD	Min	Max	Mes	Max
1,1-Dichloroethene										
0.0000	10.0000	9.8258	10.0000	9.6590	98	97	67	125	2	20
Trichloroethene										
0.0000	10.0000	10.0772	10.0000	9.9831	101	100	80	123	1	20
Benzene										
0.0000	10.0000	10.3768	10.0000	10.2585	104	103	75	116	1	20
Toluene										
0.0000	10.0000	9.5182	10.0000	9.3374	95	93	74	115	2	20
Chlorobenzene										
0.0000	10.0000	9.6519	10.0000	9.5686	97	96	77	117	1	20

100.0 Percent of recoveries are within control limits.
100.0 Percent of RPD values are within control limits.

LCS SAMPLE
Data File : /chem/H.i/052904.b/h4671.d
Samp Info : LCS,,109-04
Inj Date : 29-MAY-2004 17:59
Sample Amt : 20mL

Sample #	Sample #	Sample #	Sample #	Sample #

Compound	Concentration Spiked	Measured	%Recovery Meas.	Min	Max
1,1-Dichloroethene	10.0000	9.2801	93	67	125
Benzene	10.0000	9.7726	98	75	116
Trichloroethene	10.0000	9.6091	96	80	123
Toluene	10.0000	8.8776	89	74	115
Chlorobenzene	10.0000	9.1665	92	77	117

100.0 Percent of recoveries are within control limits.

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4671.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 29-MAY-2004 17:59
Operator : yanezj Inst ID: H.i
Smp Info : LCS,,109-04
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: dcs.sub
Target Version: 3.40
Processing Host: chemsv02

05/31/04

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 48 Fluorobenzene	96	6.397	6.400	(1.000)	1912208	10.0000	
* 72 Chlorobenzene-d5	119	10.062	10.065	(1.000)	424217	10.0000	
* 96 1,4-Dichlorobenzene-d4	152	12.918	12.921	(1.000)	579165	10.0000	
$ 40 Dibromofluoromethane	111	5.589	5.592	(0.874)	890710	10.2563	10.2563
$ 44 1,2-Dichloroethane-d4	65	6.002	5.987	(0.938)	364908	10.6837	10.6837
$ 61 Toluene-d8	98	8.301	8.286	(0.825)	1718673	9.72549	9.72549
$ 82 Bromofluorobenzene	95	11.552	11.555	(1.148)	932524	10.0270	10.0270
14 1,1-Dichloroethene	96	3.182	3.185	(0.497)	516082	9.28008	9.28008
46 Benzene	78	6.074	6.077	(0.949)	1505852	9.77261	9.77261
50 Trichloroethene	130	6.846	6.849	(1.070)	629466	9.60915	9.60915
62 Toluene	91	8.373	8.376	(0.832)	1779382	8.87757	8.87757
73 Chlorobenzene	112	10.097	10.100	(1.004)	1233511	9.16648	9.16648

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4671.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 29-MAY-2004 17:59
Operator : yanezj Inst ID: H.i
Smp Info : LCS,,109-04
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: dcs.sub
Target Version: 3.40
Processing Host: chemsv02

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4671.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/29/4
Calibration Time: 1528
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1511042	755521	3022084	1912208	26.55
72 Chlorobenzene-d5	370905	185452	741810	424217	14.37
96 1,4-Dichlorobenze	532545	266272	1065090	579165	8.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	-0.05
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	-0.03
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	-0.02

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

STL Denver

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: dcs-h20.spk
Sublist File: dcs.sub
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Client SDG: 052904
Fraction: VOA
Client Smp ID: LCS
Operator: yanezj
SampleType: LCS
Quant Type: ISTD

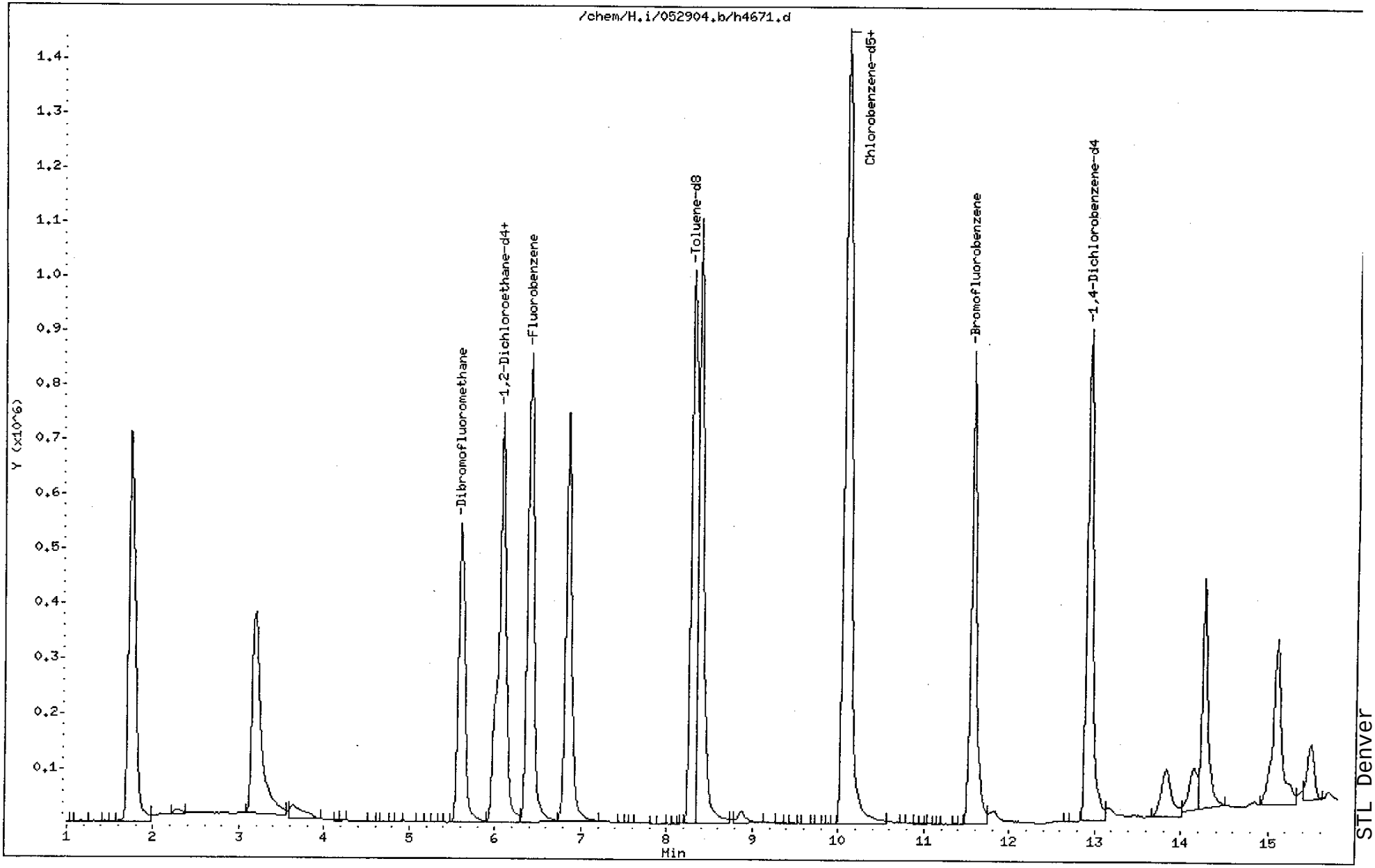
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.0000	9.28008	92.80	67-125
50 Trichloroethene	10.0000	9.60915	96.09	80-123
46 Benzene	10.0000	9.77261	97.73	75-116
62 Toluene	10.0000	8.87757	88.78	74-115
73 Chlorobenzene	10.0000	9.16648	91.66	77-117

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 40 Dibromofluorometha	10.0000	10.2563	102.56	76-116
$ 44 1,2-Dichloroethane	10.0000	10.6837	106.84	59-129
$ 61 Toluene-d8	10.0000	9.72549	97.25	76-116
$ 82 Bromofluorobenzene	10.0000	10.0270	100.27	74-114

Data File: /chem/H.i/052904.b/h4671.d
Date : 29-MAY-2004 17:59
Client ID: LCS
Sample Info: LCS,,109-04
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: yanezj
Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4672.d
Lab Smp Id: VBLK Client Smp ID: VBLK
Inj Date : 29-MAY-2004 18:21
Operator : yanezj Inst ID: H.i
Smp Info : VBLK,,104-04
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: H-all.sub
Target Version: 3.40
Processing Host: chemsv02

05/31/04

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	48 Fluorobenzene	96	6.400	6.400	(1.000)	1953537	10.0000	
*	72 Chlorobenzene-d5	119	10.064	10.065	(1.000)	428068	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.902	12.921	(1.000)	581593	10.0000	
$	40 Dibromofluoromethane	111	5.609	5.592	(0.876)	892245	10.0566	10.0566
$	44 1,2-Dichloroethane-d4	65	6.005	5.987	(0.938)	367141	10.5217	10.5217
$	61 Toluene-d8	98	8.304	8.286	(0.825)	1766445	9.90590	9.90590
$	82 Bromofluorobenzene	95	11.555	11.555	(1.148)	930540	9.91562	9.91562
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 Chloromethane	50.00	Compound Not Detected.					
	5 Vinyl Chloride	62.00	Compound Not Detected.					
	6 Ethylene Oxide	43.00	Compound Not Detected.					
	117 Dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	123 1,2-dichloro-1,1,2-triflourom	117.00	Compound Not Detected.					
	124 2,2-dichloro-1,1,1-trifluorom	83.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
7 Bromomethane	94.00	Compound Not Detected.					
8 Chloroethane	64.00	Compound Not Detected.					
9 Dichlorofluoromethane	67.00	Compound Not Detected.					
10 Trichlorofluoromethane	101.00	Compound Not Detected.					
11 Ethanol	45.00	Compound Not Detected.					
12 Ethyl Ether	59.00	Compound Not Detected.					
13 Acrolein	56.00	Compound Not Detected.					
15 Acetone	43.00	Compound Not Detected.					
14 1,1-Dichloroethene	96.00	Compound Not Detected.					
16 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
17 Iodomethane	142.00	Compound Not Detected.					
19 Acetonitrile	41.00	Compound Not Detected.					
18 Carbon Disulfide	76.00	Compound Not Detected.					
20 Allyl Chloride	41.00	Compound Not Detected.					
119 Methyl Acetate	43.00	Compound Not Detected.					
21 Methylene Chloride	84	3.669	3.634	(0.573)	14873	0.33560	0.335604
125 2-Propanol	45.00	Compound Not Detected.					
22 tert-Butyl alcohol	59.00	Compound Not Detected.					
23 Acrylonitrile	53.00	Compound Not Detected.					
24 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
25 Methyl t-butyl ether	73.00	Compound Not Detected.					
26 Hexane	57.00	Compound Not Detected.					
27 1,1-Dichloroethane	63.00	Compound Not Detected.					
29 Vinyl acetate	43.00	Compound Not Detected.					
30 Isopropyl ether	87.00	Compound Not Detected.					
28 Chloroprene	53.00	Compound Not Detected.					
120 ETBE	59.00	Compound Not Detected.					
33 2-Butanone	43.00	Compound Not Detected.					
32 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 2,2-Dichloropropane	77.00	Compound Not Detected.					
35 Ethyl Acetate	43.00	Compound Not Detected.					
34 Propionitrile	54.00	Compound Not Detected.					
36 Methacrylonitrile	41.00	Compound Not Detected.					
37 Bromochloromethane	128.00	Compound Not Detected.					
39 Tetrahydrofuran	42.00	Compound Not Detected.					
38 Chloroform	83.00	Compound Not Detected.					
41 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
114 Cyclohexane	56.00	Compound Not Detected.					
42 1,1-Dichloropropene	75.00	Compound Not Detected.					
43 Carbon Tetrachloride	117.00	Compound Not Detected.					
45 Isobutanol	41.00	Compound Not Detected.					
46 Benzene	78.00	Compound Not Detected.					
47 1,2-Dichloroethane	62.00	Compound Not Detected.					
121 TAME	73.00	Compound Not Detected.					
49 n-Butanol	56.00	Compound Not Detected.					
50 Trichloroethene	130.00	Compound Not Detected.					
115 2-Pentanone	43.00	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
52	1,2-Dichloropropane	63.00	Compound Not Detected.					
122	Methyl Cyclohexane	55.00	Compound Not Detected.					
53	Dibromomethane	93.00	Compound Not Detected.					
54	Methyl Methacrylate	100.00	Compound Not Detected.					
55	1,4-Dioxane	88.00	Compound Not Detected.					
56	Bromodichloromethane	83.00	Compound Not Detected.					
57	2-nitropropane	41.00	Compound Not Detected.					
113	2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
59	cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
60	4-Methyl-2-pentanone	43.00	Compound Not Detected.					
62	Toluene	91.00	Compound Not Detected.					
63	trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
64	Ethyl methacrylate	69.00	Compound Not Detected.					
65	1,1,2-Trichloroethane	97.00	Compound Not Detected.					
67	1,3-Dichloropropane	76.00	Compound Not Detected.					
66	Tetrachloroethene	164.00	Compound Not Detected.					
68	2-Hexanone	43.00	Compound Not Detected.					
126	Tetrahydrothiophene	60.00	Compound Not Detected.					
69	Dibromochloromethane	129.00	Compound Not Detected.					
70	1,2-Dibromoethane	107.00	Compound Not Detected.					
71	1-Chlorohexane	91.00	Compound Not Detected.					
73	Chlorobenzene	112.00	Compound Not Detected.					
74	1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
75	Ethylbenzene	106.00	Compound Not Detected.					
76	m and p-Xylene	106.00	Compound Not Detected.					
77	o-Xylene	106.00	Compound Not Detected.					
78	Styrene	104.00	Compound Not Detected.					
79	Bromoform	173.00	Compound Not Detected.					
80	isopropyl benzene	105.00	Compound Not Detected.					
116	cis-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
81	Cyclohexanone	55.00	Compound Not Detected.					
83	1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
84	Bromobenzene	156.00	Compound Not Detected.					
85	1,2,3-Trichloropropane	110.00	Compound Not Detected.					
86	t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
87	n-Propylbenzene	120.00	Compound Not Detected.					
88	2-Chlorotoluene	126.00	Compound Not Detected.					
89	1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
90	4-Chlorotoluene	126.00	Compound Not Detected.					
91	tert-Butylbenzene	119.00	Compound Not Detected.					
92	1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
93	sec-Butylbenzene	134.00	Compound Not Detected.					
94	m-Dichlorobenzene	146.00	Compound Not Detected.					
95	4-Isopropyltoluene	119.00	Compound Not Detected.					
97	p-dichlorobenzene	146.00	Compound Not Detected.					
118	1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
98	n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
99 o-Dichlorobenzene	146.00	Compound Not Detected.					
100 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
101 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
102 Hexachlorobutadiene	225.00	Compound Not Detected.					
127 Naphthalene	128.00	Compound Not Detected.					
104 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

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VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4672.d
Lab Smp Id: VBLK Client Smp ID: VBLK
Inj Date : 29-MAY-2004 18:21
Operator : yanezj Inst ID: H.i
Smp Info : VBLK,,104-04
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: H-all.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
* 96 1,4-Dichlorobenzene-d4	12.902	3947289	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Acetic acid, 2-ethylhexyl ester				CAS #: 103-09-3			
14.249	1242587	3.14795040	3.14795	91	NBS75K.l	15793	96
Unknown				CAS #:			
15.094	1365582	3.45954401	3.45954	0		0	96
Unknown				CAS #:			
15.471	2533177	6.41751085	6.41751	0		0	96

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4672.d
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/29/4
Calibration Time: 1528
Client Smp ID: VBLK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1511042	755521	3022084	1953537	29.28
72 Chlorobenzene-d5	370905	185452	741810	428068	15.41
96 1,4-Dichlorobenze	532545	266272	1065090	581593	9.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.40	-0.01
72 Chlorobenzene-d5	10.06	9.56	10.56	10.06	0.00
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.90	-0.14

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

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RECOVERY REPORT

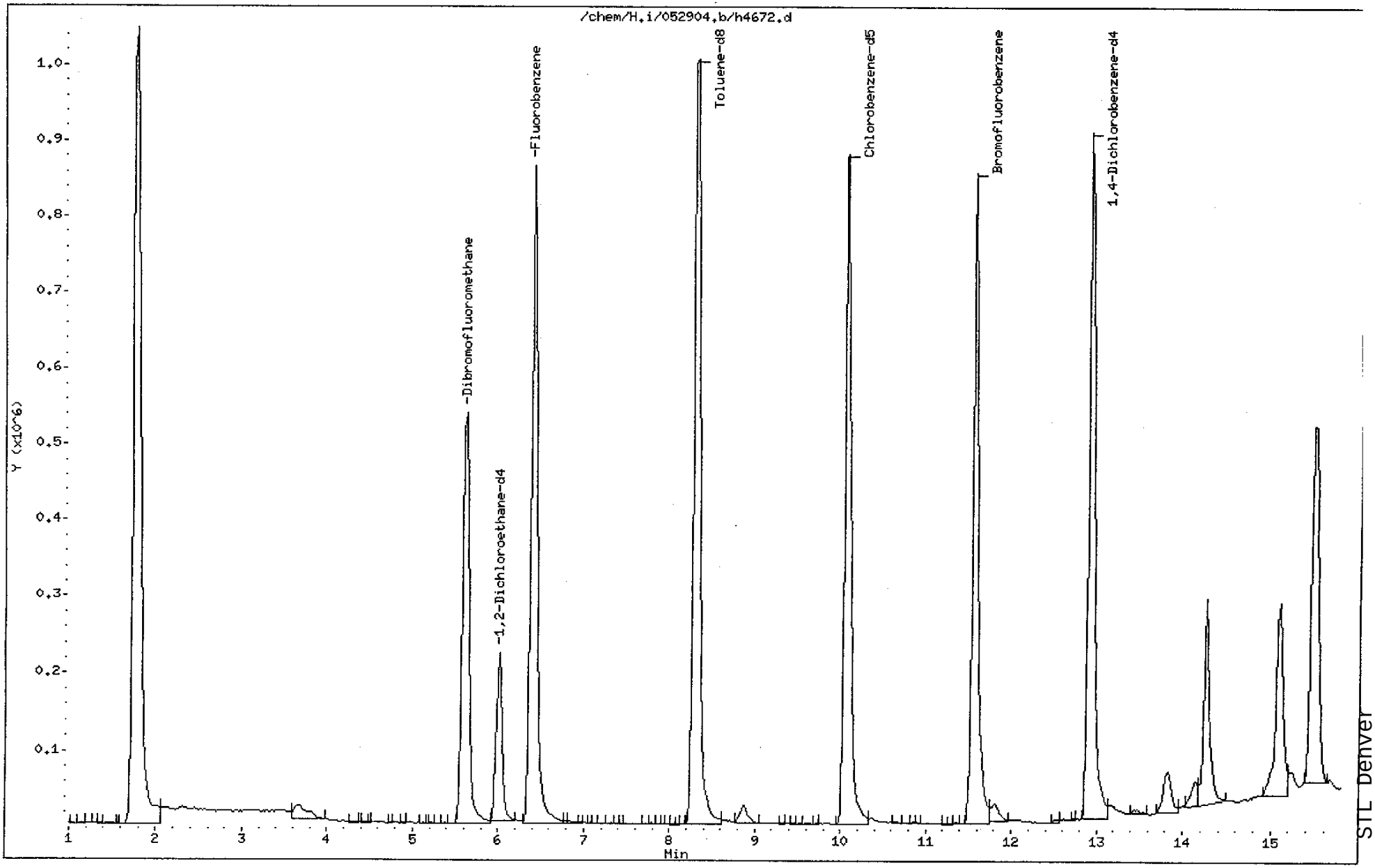
Client Name:
Client SDG: 052904
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: VBLK
Client Smp ID: VBLK
Level: LOW
Operator: yanezj
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs-h20.spk
Quant Type: ISTD
Sublist File: H-all.sub
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 40 Dibromofluorometha	10.0000	10.0566	100.57	76-116
$ 44 1,2-Dichloroethane	10.0000	10.5217	105.22	59-129
$ 61 Toluene-d8	10.0000	9.90590	99.06	76-116
$ 82 Bromofluorobenzene	10.0000	9.91562	99.16	74-114

Data File: /chem/H.i/052904.b/h4672.d
Date : 29-MAY-2004 18:21
Client ID: VBLK
Sample Info: VBLK,,104-04
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i

Operator: yanezj
Column diameter: 0.53



Data File: /chem/H.i/052904.b/h4672.d

Date : 29-MAY-2004 18:21

Client ID: VBLK

Instrument: H.i

Sample Info: VBLK,,104-04

Purge Volume: 20.0

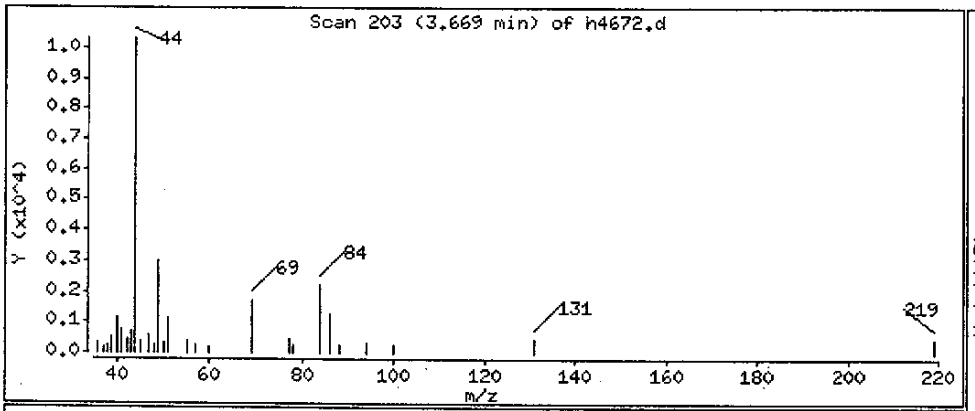
Operator: yanezj

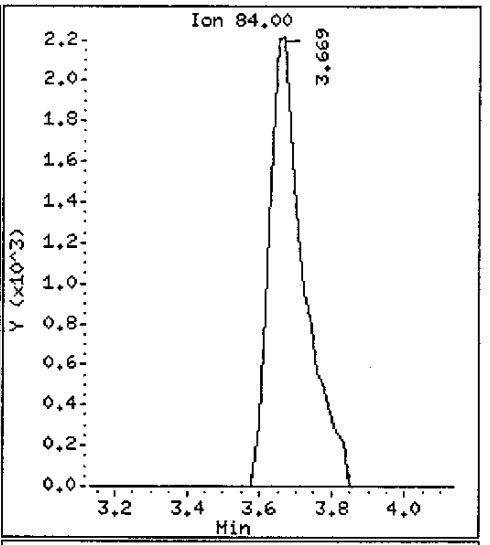
Column phase: DB624

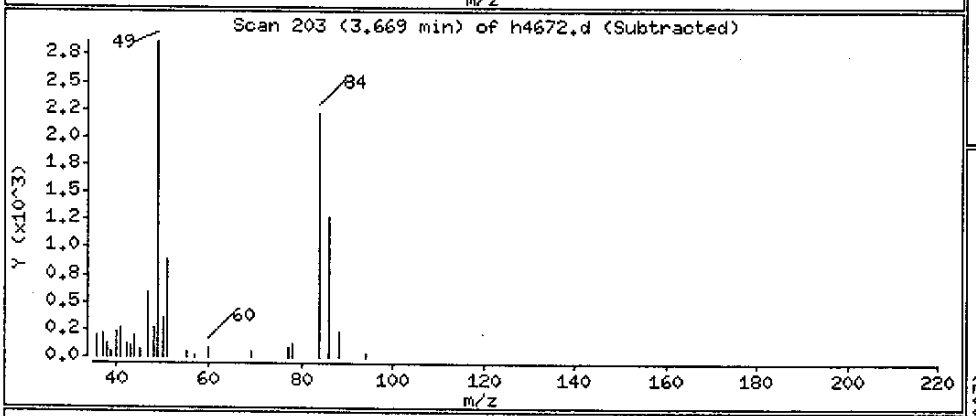
Column diameter: 0.53

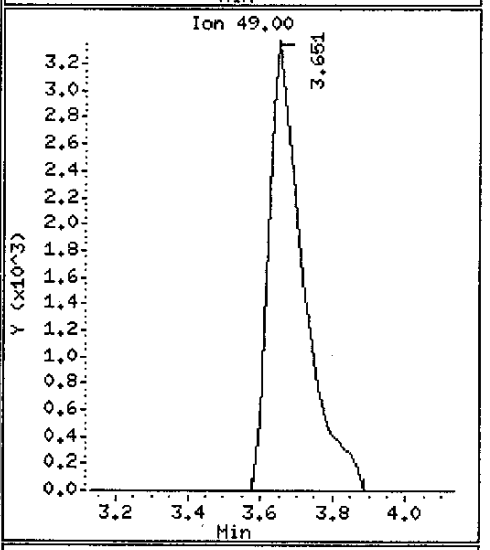
21 Methylene Chloride

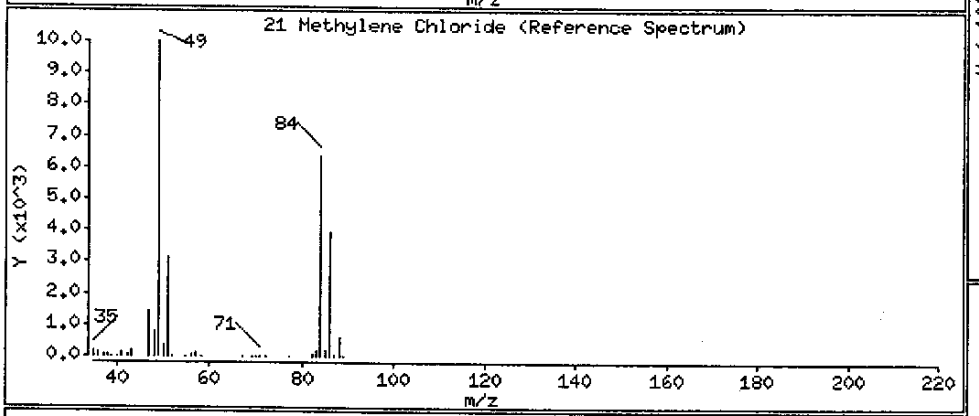
Concentration: 0.335604 ug/L

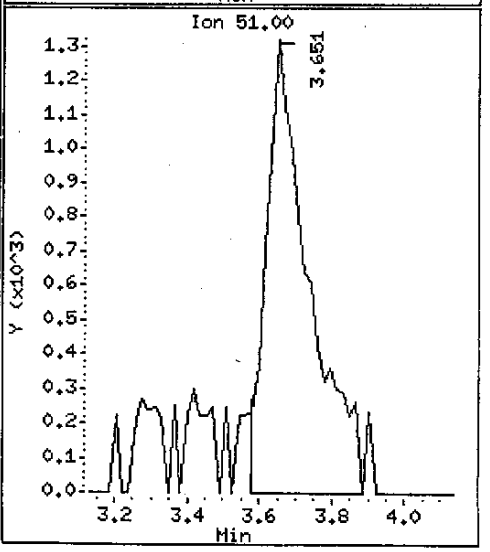


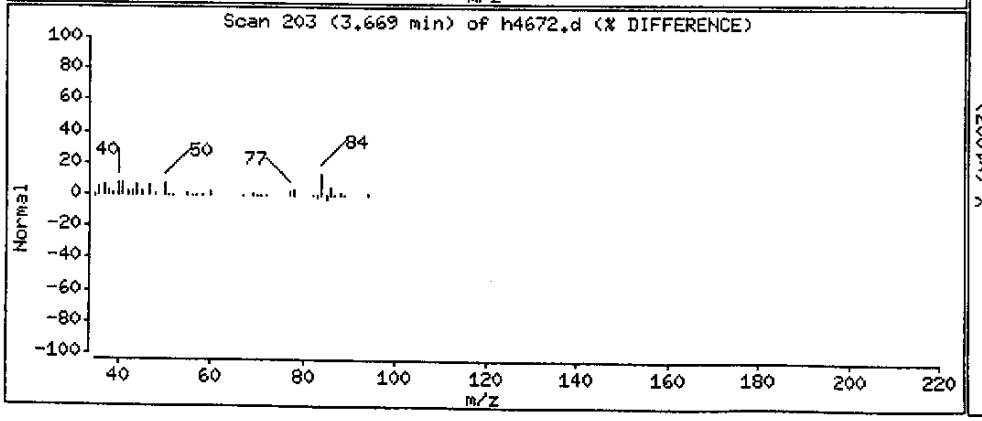












Data File: /chem/H.i/052904.b/h4672.d

Date : 29-MAY-2004 18:21

Client ID: VBLK

Instrument: H.i

Sample Info: VBLK,,104-04

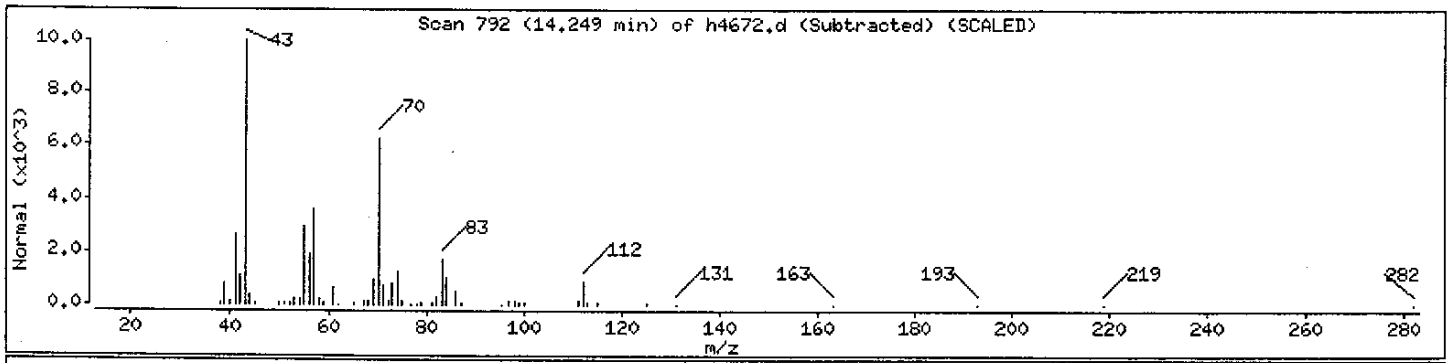
Purge Volume: 20.0

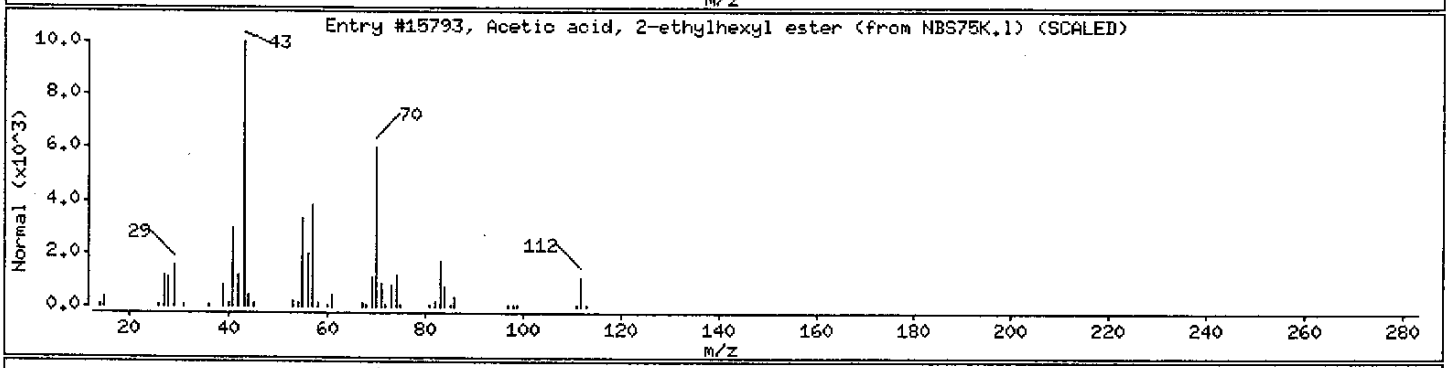
Operator: yanezj

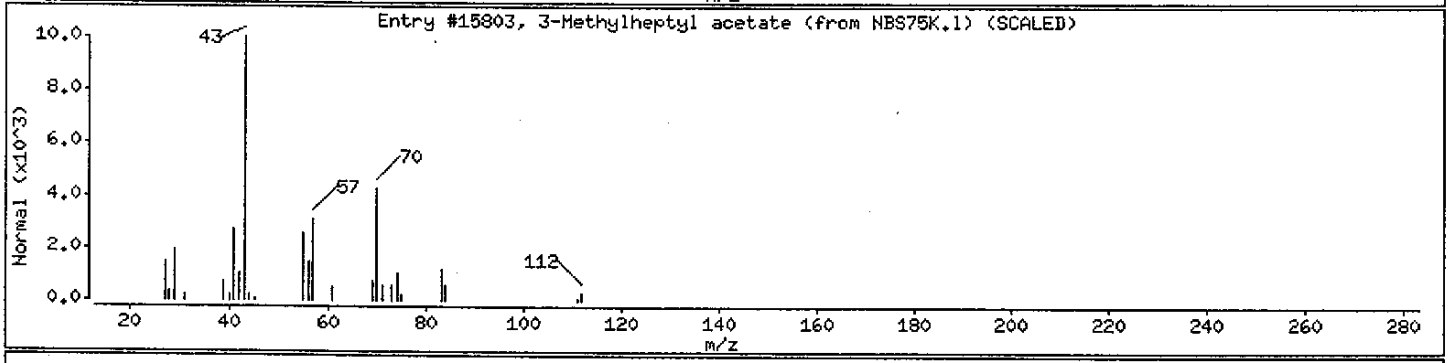
Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.l	15793	91	C10H2002	172
3-Methylheptyl acetate	72218-58-7	NBS75K.l	15803	86	C10H2002	172







Data File: /chem/H.i/052904.b/h4672.d

Date : 29-MAY-2004 18:21

Client ID: VBLK

Instrument: H.i

Sample Info: VBLK,,104-04

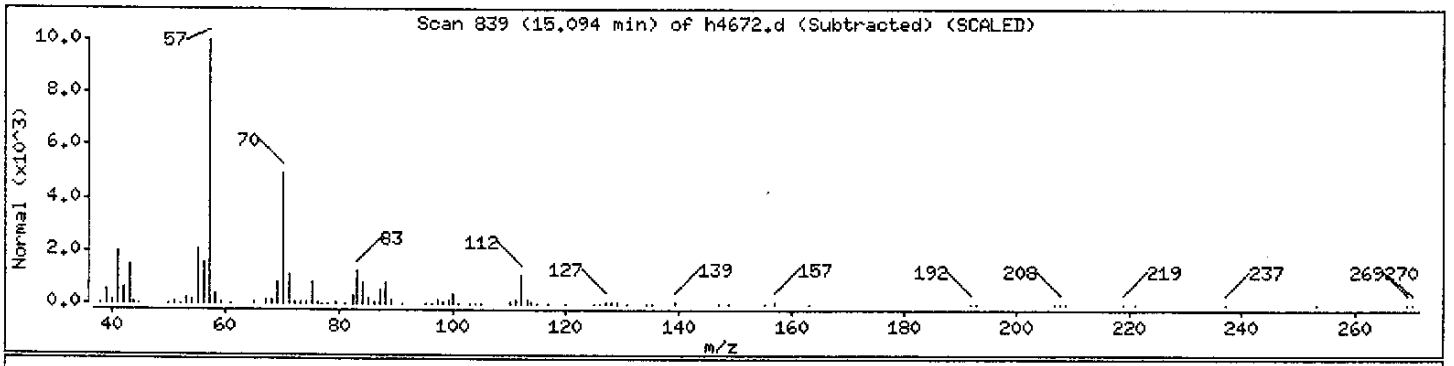
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4672.d

Date : 29-MAY-2004 18:21

Client ID: VBLK

Instrument: H.i

Sample Info: VBLK,,104-04

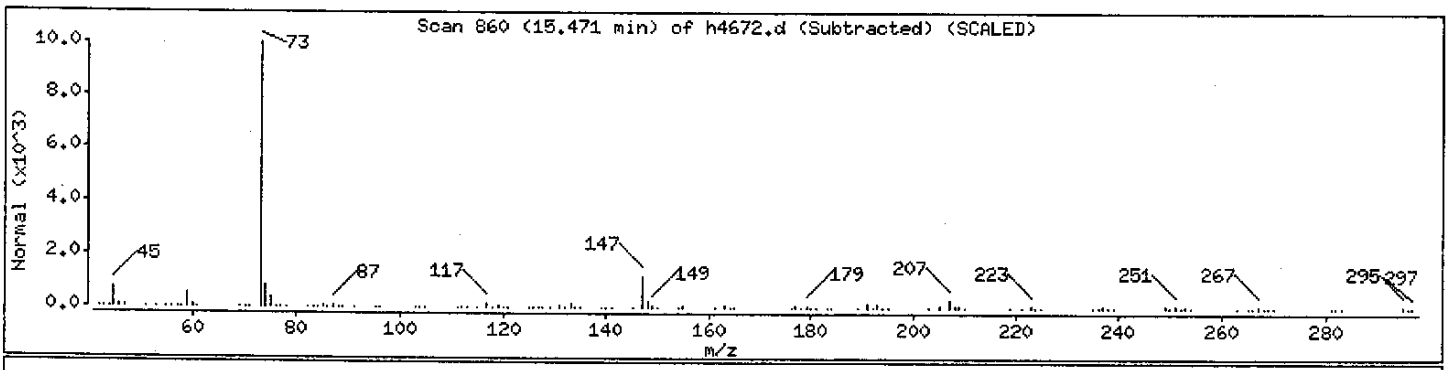
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4680.d
Lab Smp Id: GGTFX1AA Client Smp ID: 01-MW-11
Inj Date : 29-MAY-2004 21:20
Operator : yanezj Inst ID: H.i
Smp Info : GGTFX1AA,,D4E210325-008
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: H-all.sub
Target Version: 3.40
Processing Host: chemsv02

05/31/04

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	48 Fluorobenzene	96	6.381	6.400	(1.000)	1949965	10.0000	
*	72 Chlorobenzene-d5	119	10.046	10.065	(1.000)	419583	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.902	12.921	(1.000)	571232	10.0000	
$	40 Dibromofluoromethane	111	5.573	5.592	(0.873)	904626	10.2149	10.2149
$	44 1,2-Dichloroethane-d4	65	5.986	5.987	(0.938)	371089	10.6543	10.6543
$	61 Toluene-d8	98	8.285	8.286	(0.825)	1743571	9.97535	9.97535
$	82 Bromofluorobenzene	95	11.536	11.555	(1.148)	938747	10.2054	10.2054
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 Chloromethane	50.00	Compound Not Detected.					
	5 Vinyl Chloride	62.00	Compound Not Detected.					
	6 Ethylene Oxide	43.00	Compound Not Detected.					
	117 Dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	123 1,2-dichloro-1,1,2-triflourom	117.00	Compound Not Detected.					
	124 2,2-dichloro-1,1,1-trifluorom	83.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
7 Bromomethane	94.00	Compound Not Detected.						
8 Chloroethane	64.00	Compound Not Detected.						
9 Dichlorofluoromethane	67.00	Compound Not Detected.						
10 Trichlorofluoromethane	101.00	Compound Not Detected.						
11 Ethanol	45.00	Compound Not Detected.						
12 Ethyl Ether	59	2.932	2.933	(0.460)	4353358	203.144	203.144(A)	NTC
13 Acrolein	56.00	Compound Not Detected.						
15 Acetone	43	3.184	3.203	(0.499)	55680	17.7859	17.7859	
14 1,1-Dichloroethene	96.00	Compound Not Detected.						
16 Trichlorotrifluoroethane	151.00	Compound Not Detected.						
17 Iodomethane	142.00	Compound Not Detected.						
19 Acetonitrile	41.00	Compound Not Detected.						
18 Carbon Disulfide	76	3.399	3.418	(0.533)	48882	0.27652	0.276522	
20 Allyl Chloride	41.00	Compound Not Detected.						
119 Methyl Acetate	43.00	Compound Not Detected.						
21 Methylene Chloride	84	3.615	3.634	(0.567)	20902	0.47251	0.472510	
125 2-Propanol	45.00	Compound Not Detected.						
22 tert-Butyl alcohol	59.00	Compound Not Detected.						
23 Acrylonitrile	53.00	Compound Not Detected.						
24 trans-1,2-Dichloroethene	96.00	Compound Not Detected.						
25 Methyl t-butyl ether	73.00	Compound Not Detected.						
26 Hexane	57.00	Compound Not Detected.						
27 1,1-Dichloroethane	63.00	Compound Not Detected.						
29 Vinyl acetate	43.00	Compound Not Detected.						
30 Isopropyl ether	87.00	Compound Not Detected.						
28 Chloroprene	53.00	Compound Not Detected.						
120 ETBE	59.00	Compound Not Detected.						
33 2-Butanone	43.00	Compound Not Detected.						
32 cis-1,2-Dichloroethene	96.00	Compound Not Detected.						
31 2,2-Dichloropropane	77.00	Compound Not Detected.						
35 Ethyl Acetate	43.00	Compound Not Detected.						
34 Propionitrile	54.00	Compound Not Detected.						
36 Methacrylonitrile	41.00	Compound Not Detected.						
37 Bromochloromethane	128.00	Compound Not Detected.						
39 Tetrahydrofuran	42	5.375	5.394	(0.842)	1874691	543.202	543.202(A)	NTC
38 Chloroform	83.00	Compound Not Detected.						
41 1,1,1-Trichloroethane	97.00	Compound Not Detected.						
114 Cyclohexane	56.00	Compound Not Detected.						
42 1,1-Dichloropropene	75.00	Compound Not Detected.						
43 Carbon Tetrachloride	117.00	Compound Not Detected.						
45 Isobutanol	41.00	Compound Not Detected.						
46 Benzene	78.00	Compound Not Detected.						
47 1,2-Dichloroethane	62.00	Compound Not Detected.						
121 TAME	73.00	Compound Not Detected.						
49 n-Butanol	56.00	Compound Not Detected.						
50 Trichloroethene	130.00	Compound Not Detected.						
115 2-Pentanone	43.00	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
52 1,2-Dichloropropane	63.00	Compound Not Detected.					
122 Methyl Cyclohexane	55.00	Compound Not Detected.					
53 Dibromomethane	93.00	Compound Not Detected.					
54 Methyl Methacrylate	100.00	Compound Not Detected.					
55 1,4-Dioxane	88	7.243	7.262	(1.135)	190869	1442.01	1442.01
56 Bromodichloromethane	83.00	Compound Not Detected.					
57 2-nitropropane	41.00	Compound Not Detected.					
113 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
59 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
60 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
62 Toluene	91.00	Compound Not Detected.					
63 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
64 Ethyl methacrylate	69.00	Compound Not Detected.					
65 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
67 1,3-Dichloropropane	76.00	Compound Not Detected.					
66 Tetrachloroethene	164.00	Compound Not Detected.					
68 2-Hexanone	43.00	Compound Not Detected.					
126 Tetrahydrothiophene	60.00	Compound Not Detected.					
69 Dibromochloromethane	129.00	Compound Not Detected.					
70 1,2-Dibromoethane	107.00	Compound Not Detected.					
71 1-Chlorohexane	91.00	Compound Not Detected.					
73 Chlorobenzene	112.00	Compound Not Detected.					
74 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
75 Ethylbenzene	106.00	Compound Not Detected.					
76 m and p-Xylene	106.00	Compound Not Detected.					
77 o-Xylene	106.00	Compound Not Detected.					
78 Styrene	104.00	Compound Not Detected.					
79 Bromoform	173.00	Compound Not Detected.					
80 isopropyl benzene	105.00	Compound Not Detected.					
116 cis-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
81 Cyclohexanone	55.00	Compound Not Detected.					
83 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
84 Bromobenzene	156.00	Compound Not Detected.					
85 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
86 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
87 n-Propylbenzene	120.00	Compound Not Detected.					
88 2-Chlorotoluene	126.00	Compound Not Detected.					
89 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
90 4-Chlorotoluene	126.00	Compound Not Detected.					
91 tert-Butylbenzene	119.00	Compound Not Detected.					
92 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
93 sec-Butylbenzene	134.00	Compound Not Detected.					
94 m-Dichlorobenzene	146.00	Compound Not Detected.					
95 4-Isopropyltoluene	119.00	Compound Not Detected.					
97 p-dichlorobenzene	146.00	Compound Not Detected.					
118 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
98 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
99 o-Dichlorobenzene	146.00	Compound Not Detected.					
100 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
101 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
102 Hexachlorobutadiene	225.00	Compound Not Detected.					
127 Naphthalene	128.00	Compound Not Detected.					
104 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4680.d
Lab Smp Id: GGTFX1AA Client Smp ID: 01-MW-11
Inj Date : 29-MAY-2004 21:20
Operator : yanezj Inst ID: H.i
Smp Info : GGTFX1AA,,D4E210325-008
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: H-all.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
* 72 Chlorobenzene-d5	10.046	4138155	10.000
* 96 1,4-Dichlorobenzene-d4	12.902	3887925	10.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
8.860	466636	1.12764263	1.12764	80	NBS75K.1	27918	72
Unknown				CAS #:			
11.806	807711	2.07748606	2.07749	0		0	96

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Unknown				CAS #:			
13.818	659093	1.69523075	1.69523	0		0	96
Docosane				CAS #: 629-97-0			
14.105	427049	1.09839825	1.09840	86	NBS75K.l	44318	96
Acetic acid, 2-ethylhexyl ester				CAS #: 103-09-3			
14.249	3823119	9.83331469	9.83331	91	NBS75K.l	15793	96
Unknown				CAS #:			
15.093	2869528	7.38061562	7.38062	0		0	96
Unknown				CAS #:			
15.470	1865383	4.79788833	4.79789	0		0	96

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4680.d
Lab Smp Id: GGTFX1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/29/4
Calibration Time: 1528
Client Smp ID: 01-MW-11
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1511042	755521	3022084	1949965	29.05
72 Chlorobenzene-d5	370905	185452	741810	419583	13.12
96 1,4-Dichlorobenze	532545	266272	1065090	571232	7.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.38	-0.30
72 Chlorobenzene-d5	10.06	9.56	10.56	10.05	-0.19
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.90	-0.15

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

STL Denver

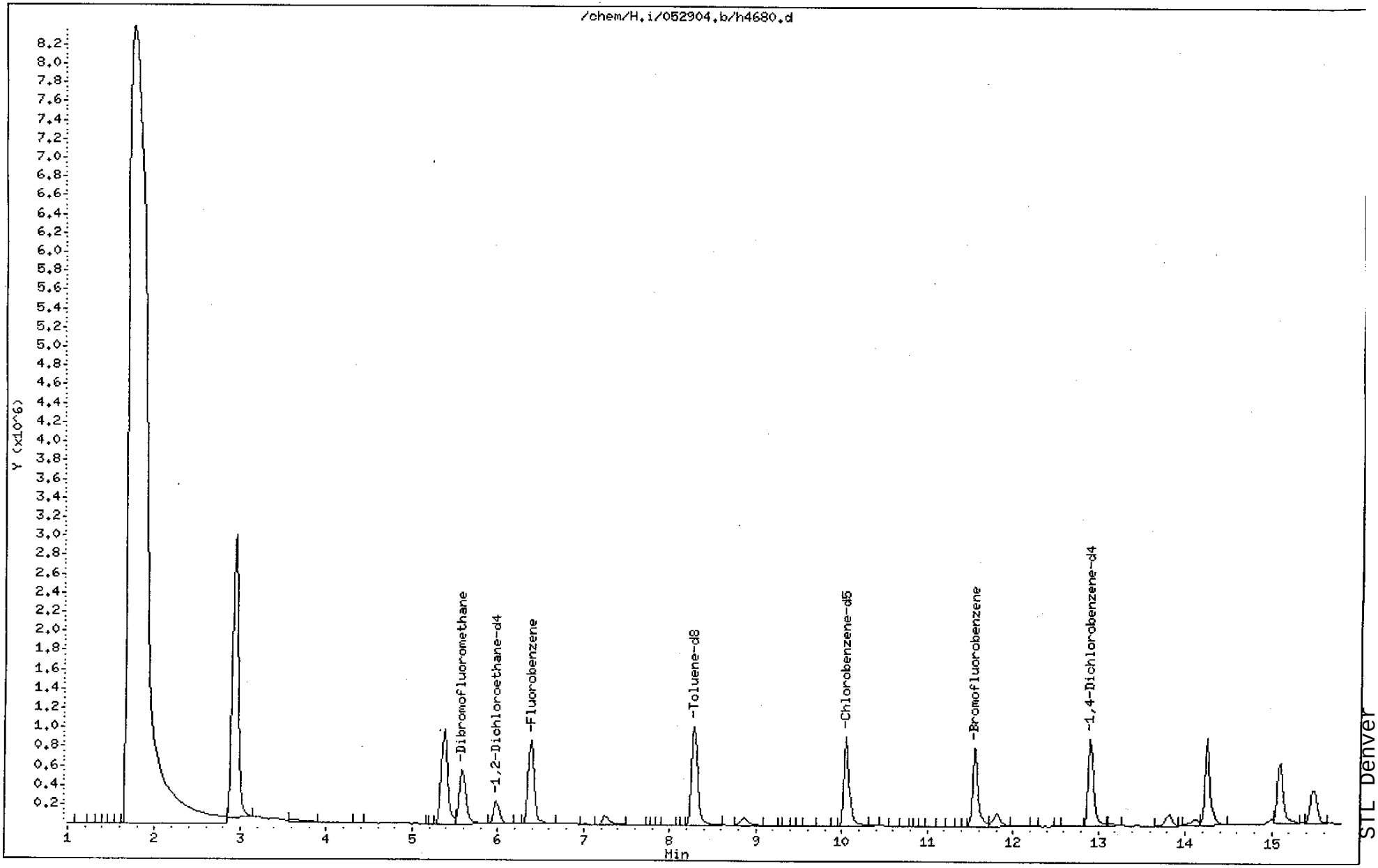
RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTFX1AA
Client Smp ID: 01-MW-11
Level: LOW
Operator: yanezj
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs-h20.spk
Quant Type: ISTD
Sublist File: H-all.sub
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 40 Dibromofluorometha	10.0000	10.2149	102.15	76-116
$ 44 1,2-Dichloroethane	10.0000	10.6543	106.54	59-129
$ 61 Toluene-d8	10.0000	9.97535	99.75	76-116
$ 82 Bromofluorobenzene	10.0000	10.2054	102.05	74-114

Data File: /chem/H.i/052904.b/h4680.d
Date : 29-MAY-2004 21:20
Client ID: 01-MW-11
Sample Info: GGTFX1AA,,D4E210325-008
Purge Volume: 20.0
Column phase: DB624

Instrument: H.i
Operator: yanezj
Column diameter: 0.53



Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0

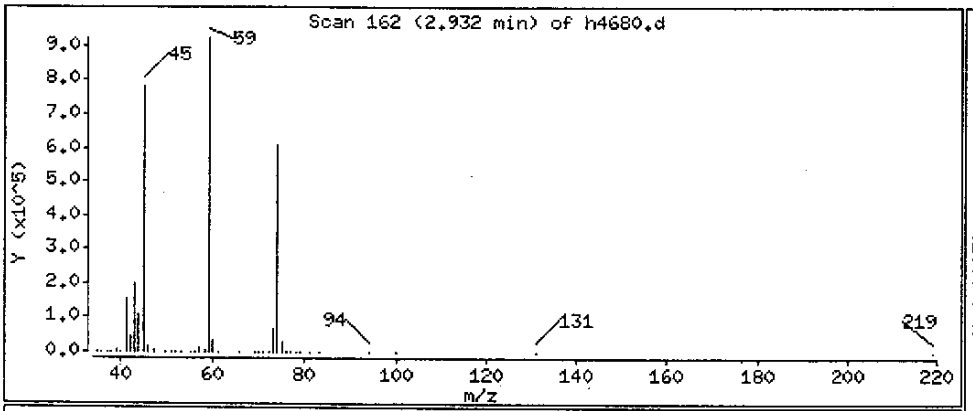
Operator: yanezj

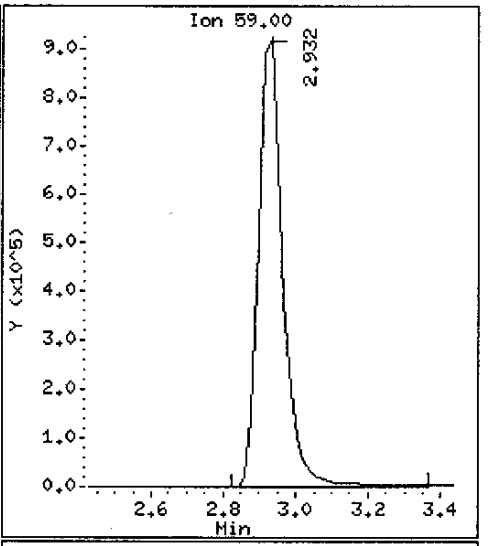
Column phase: DB624

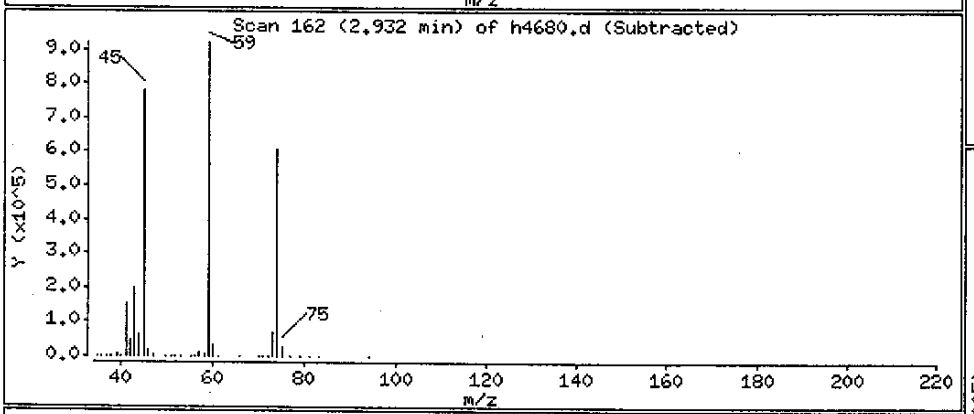
Column diameter: 0.53

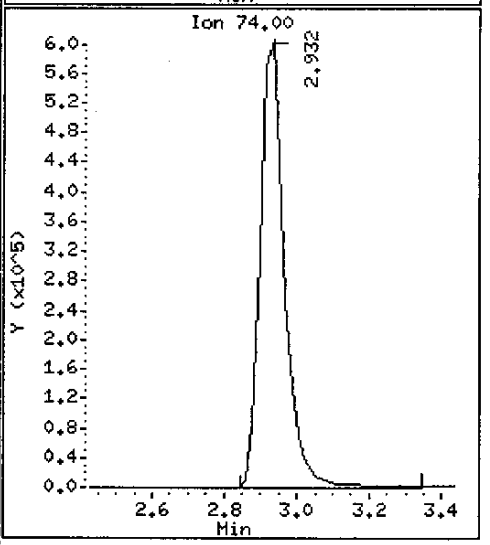
12 Ethyl Ether

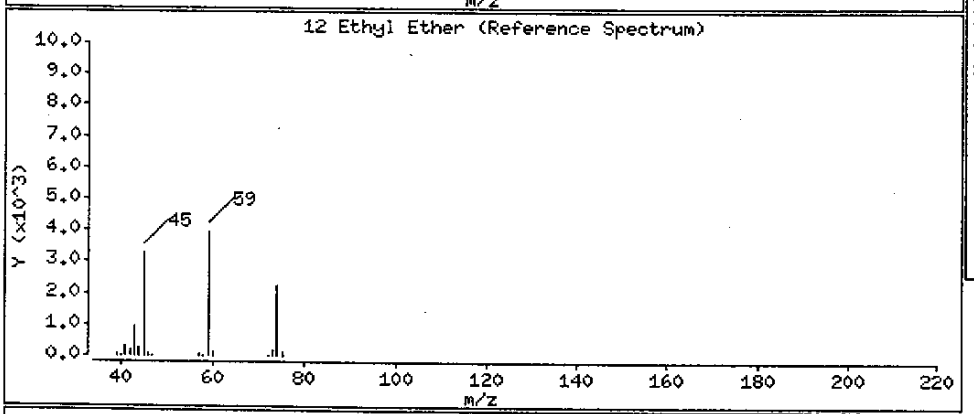
Concentration: 203.144 ug/L

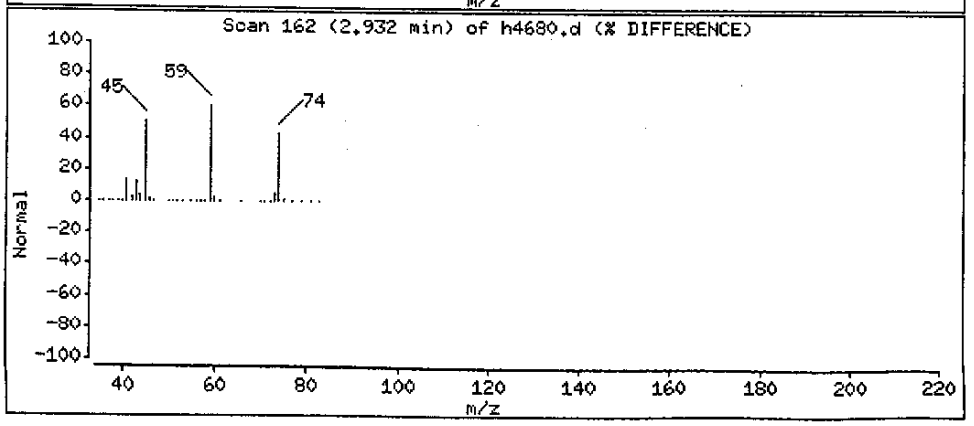












Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0

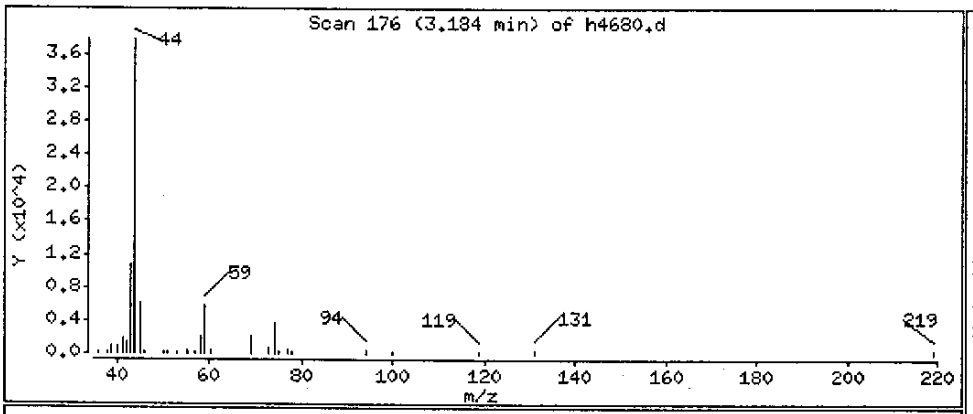
Operator: yanezj

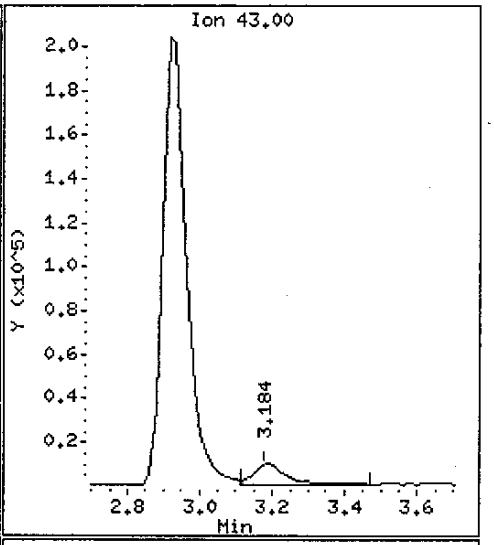
Column phase: DB624

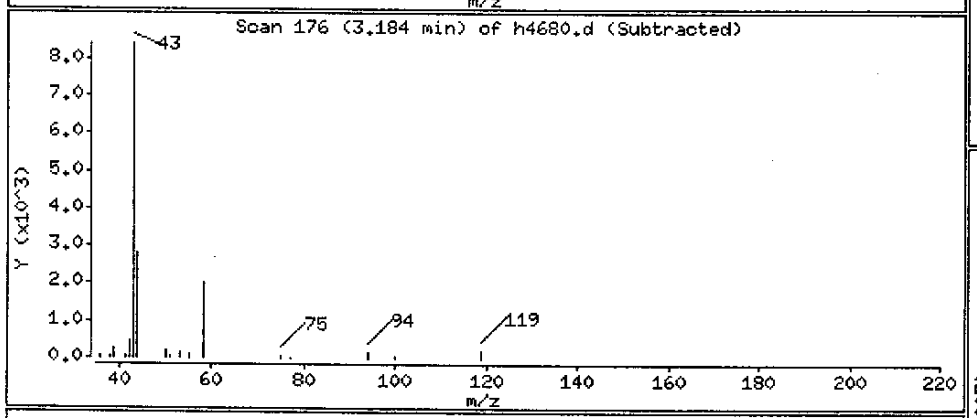
Column diameter: 0.53

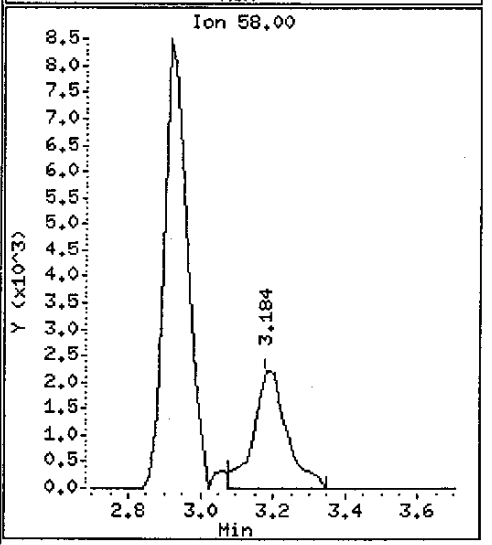
15 Acetone

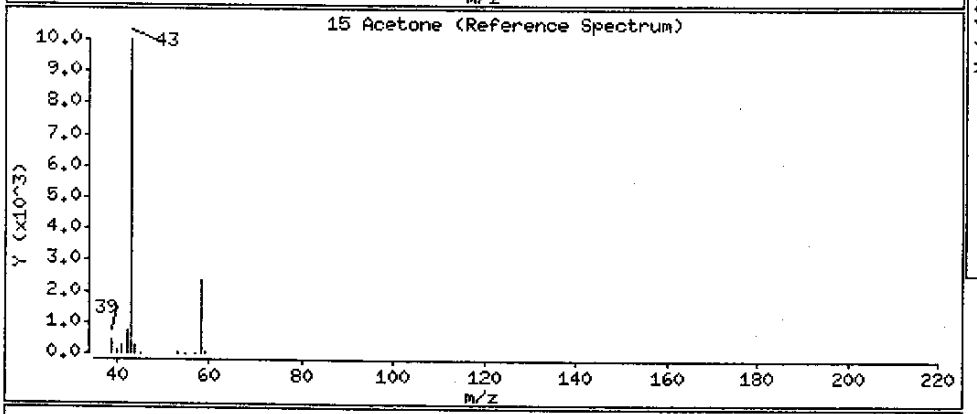
Concentration: 17.7859 ug/L

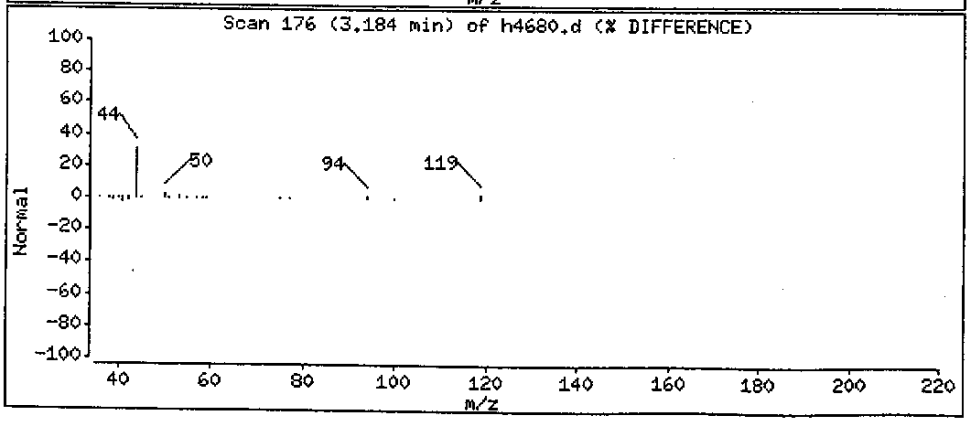












Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0

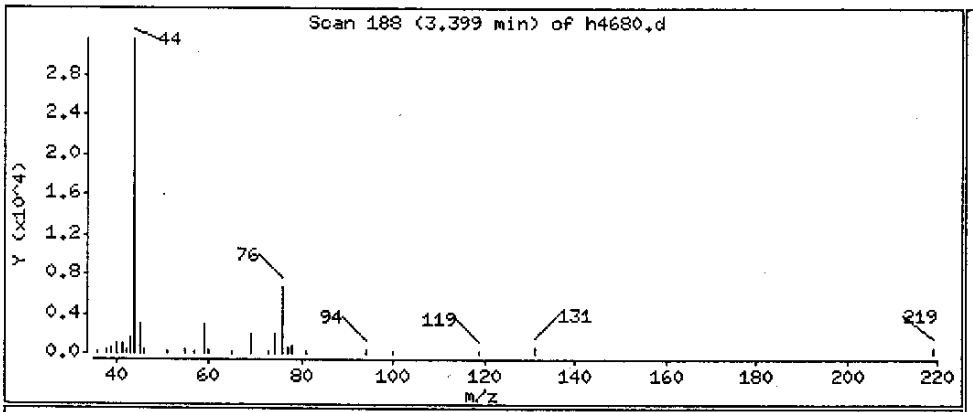
Operator: yanezj

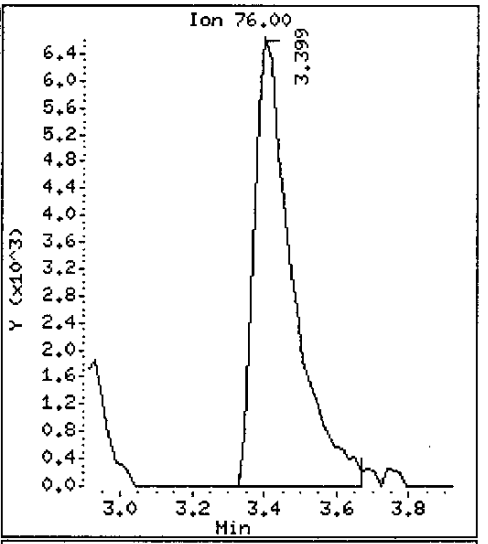
Column phase: DB624

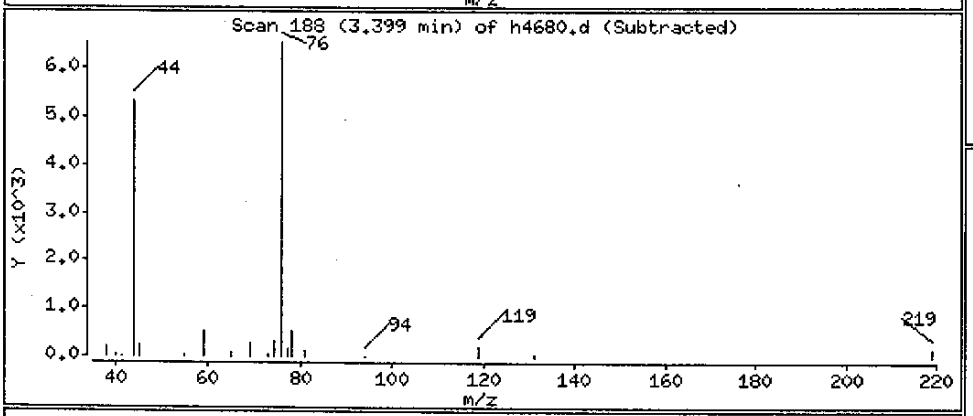
Column diameter: 0.53

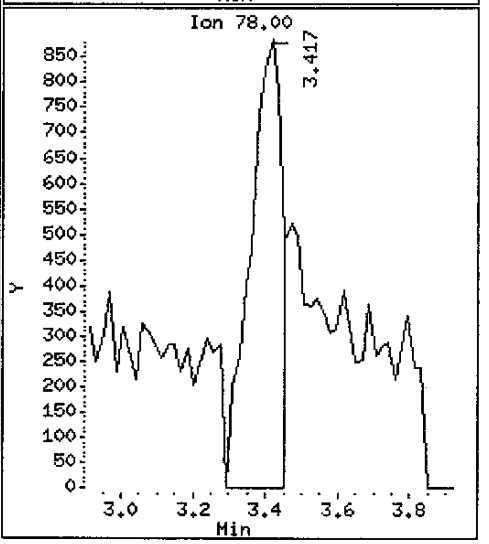
18 Carbon Disulfide

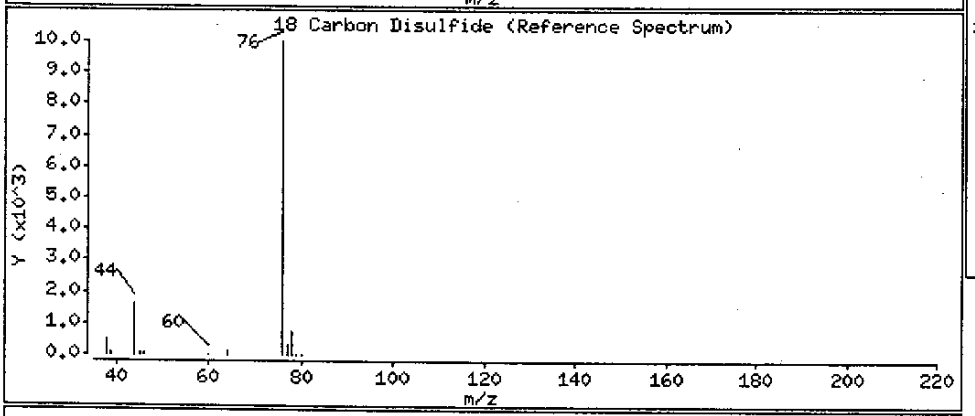
Concentration: 0.276522 ug/L

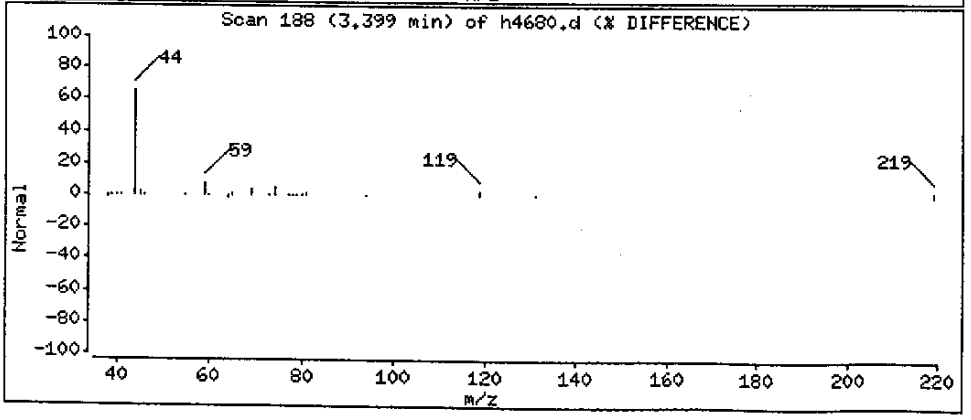












Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0

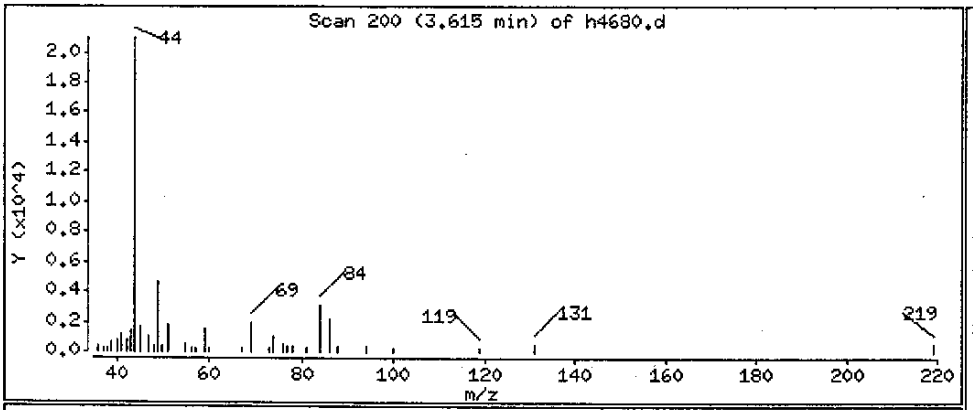
Operator: yanezj

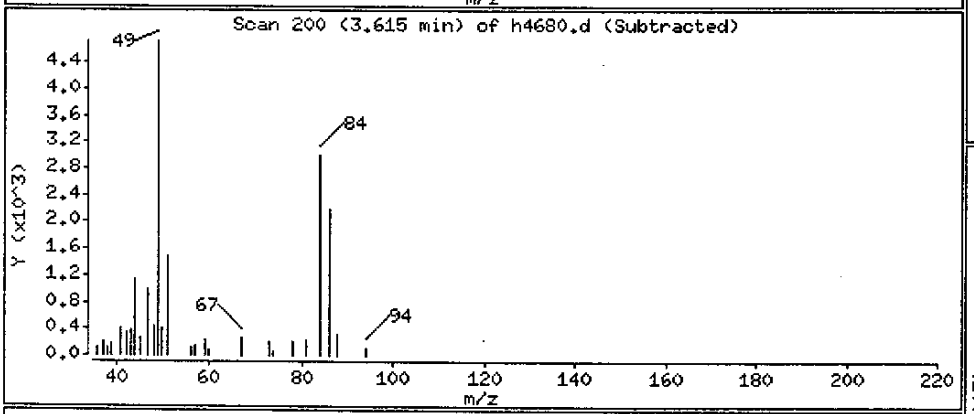
Column phase: DB624

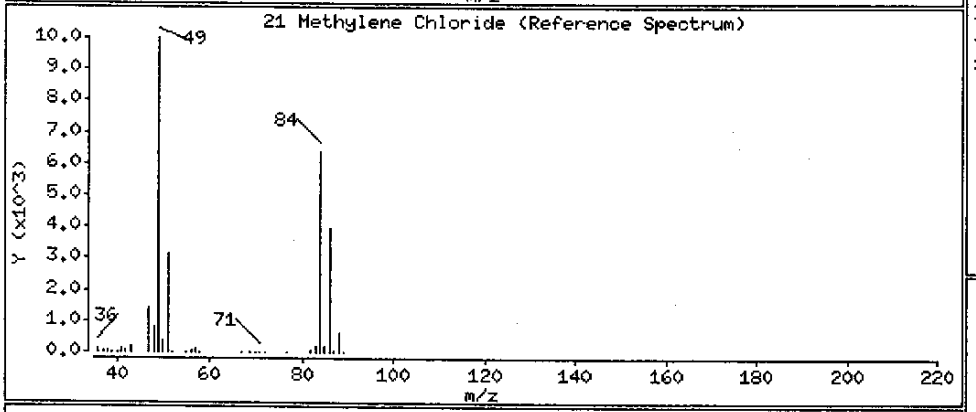
Column diameter: 0.53

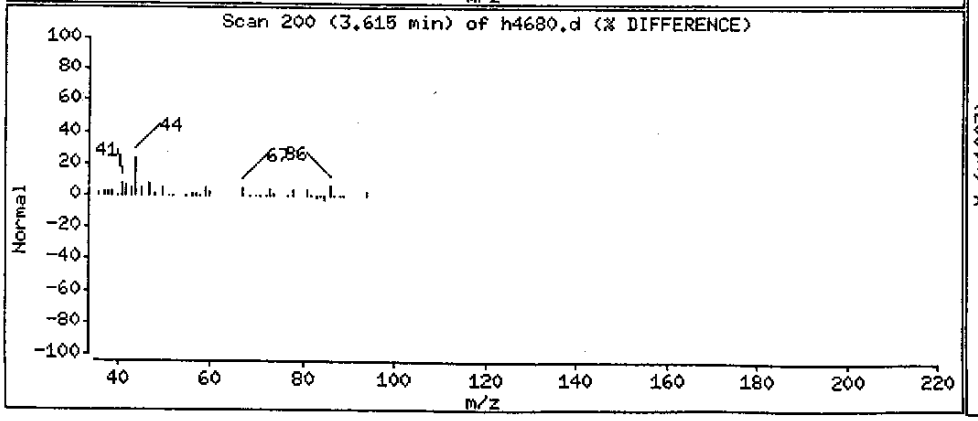
21 Methylene Chloride

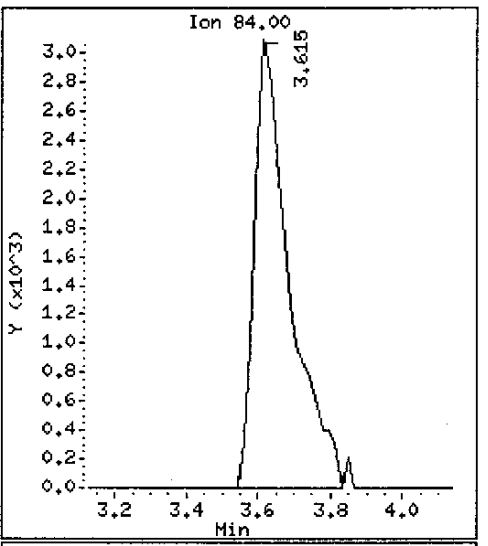
Concentration: 0.472510 ug/L

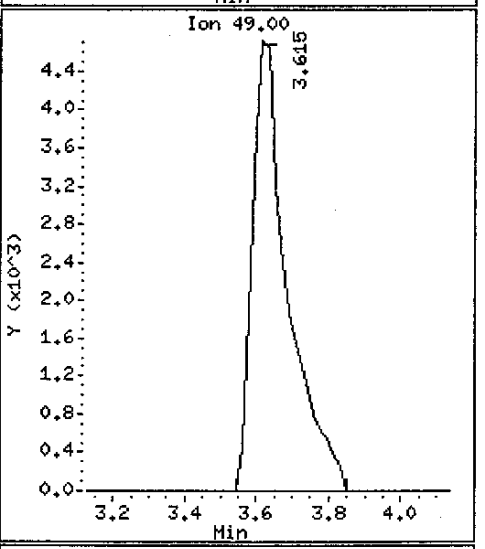


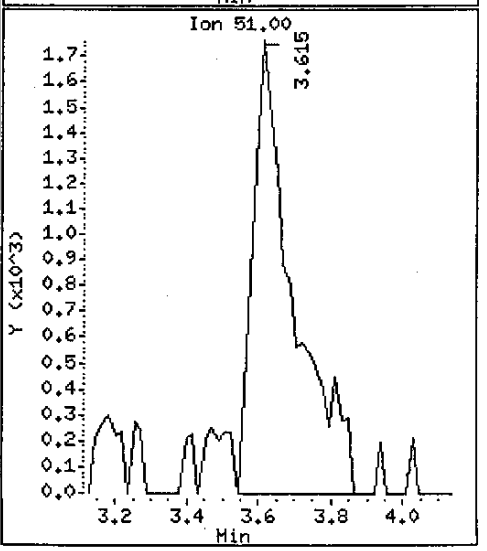












Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GCTFX1AA,,D4E210325-008

Purge Volume: 20.0

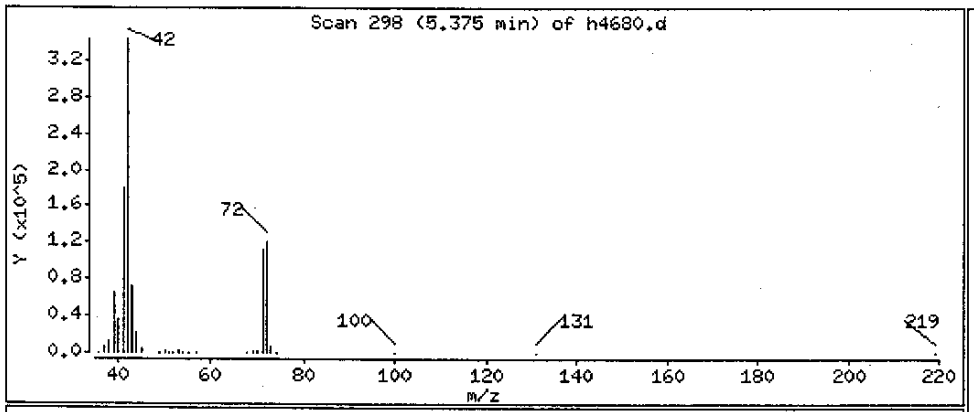
Operator: yanezj

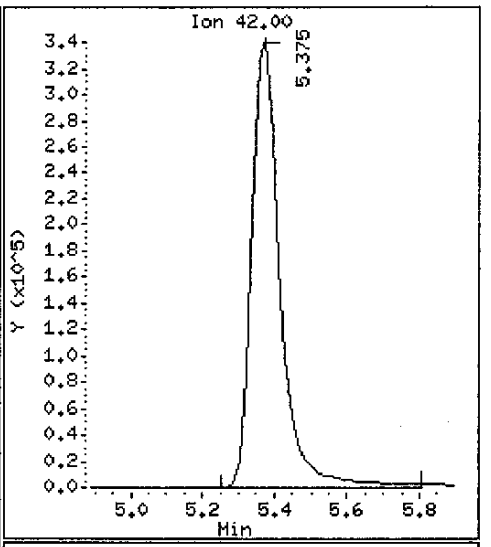
Column phase: DB624

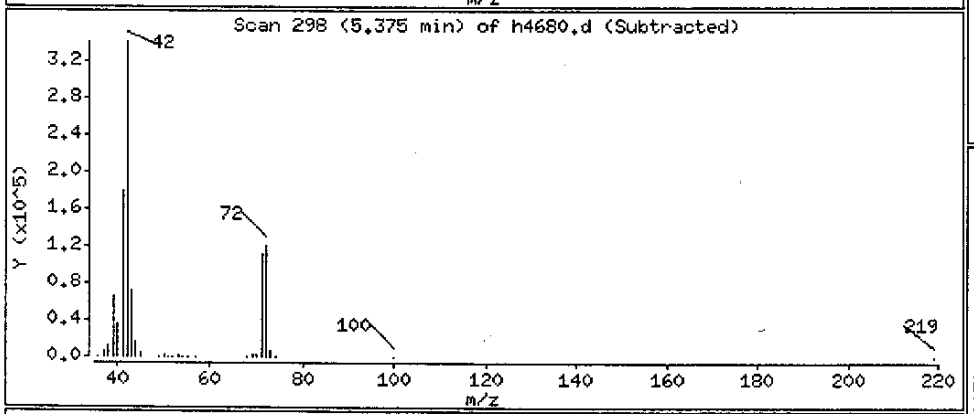
Column diameter: 0.53

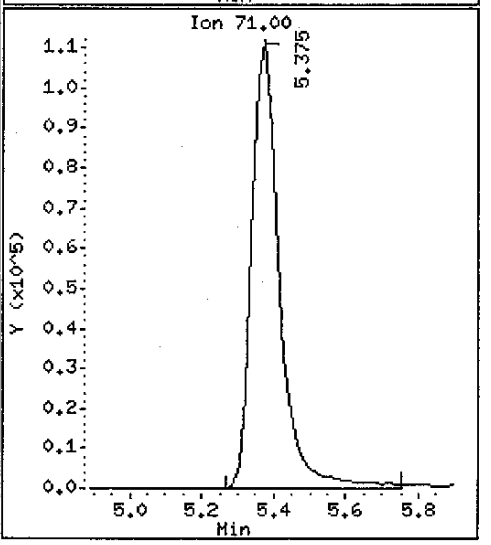
39 Tetrahydrofuran

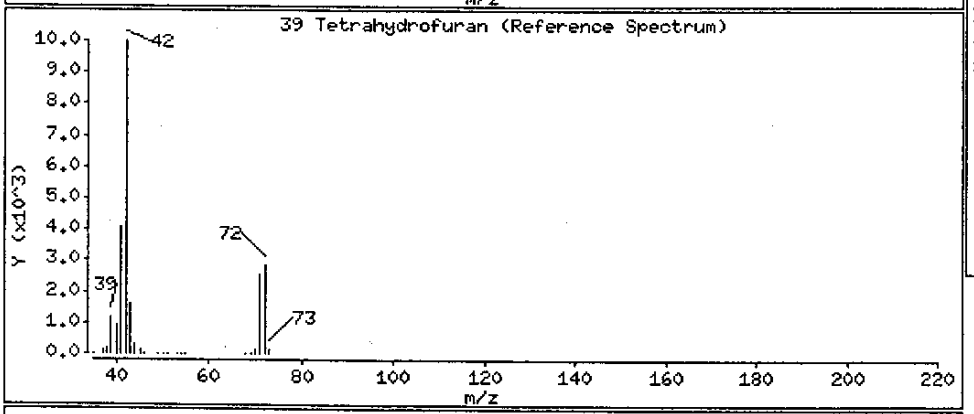
Concentration: 543.202 ug/L

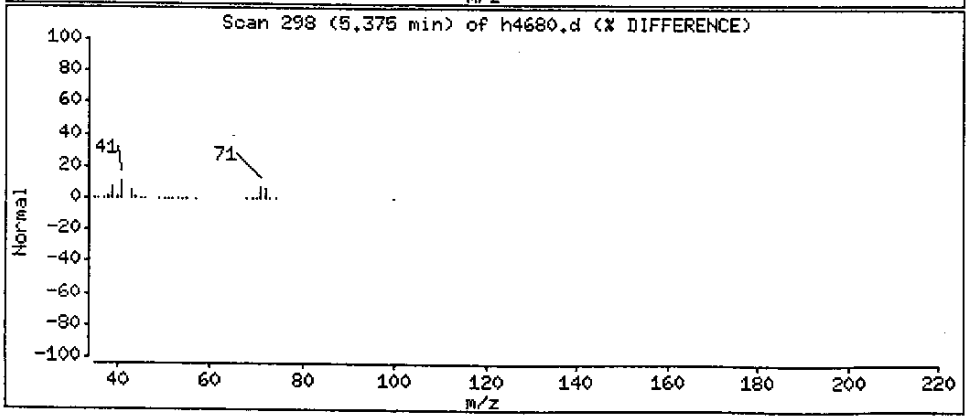












Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0

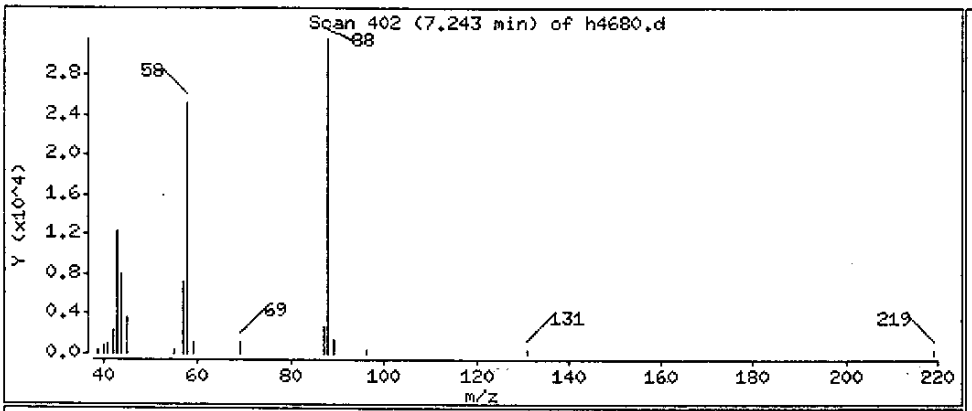
Operator: yanezj

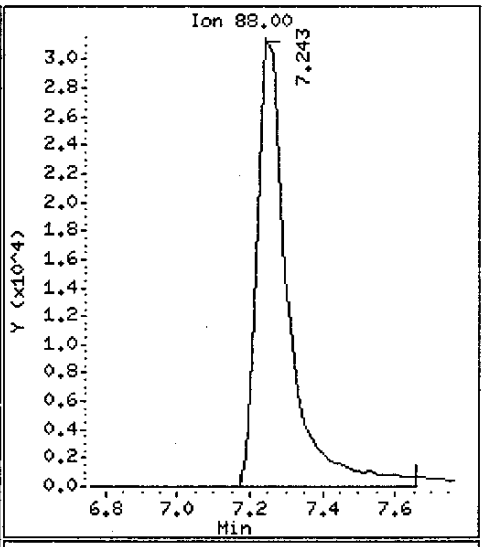
Column phase: DB624

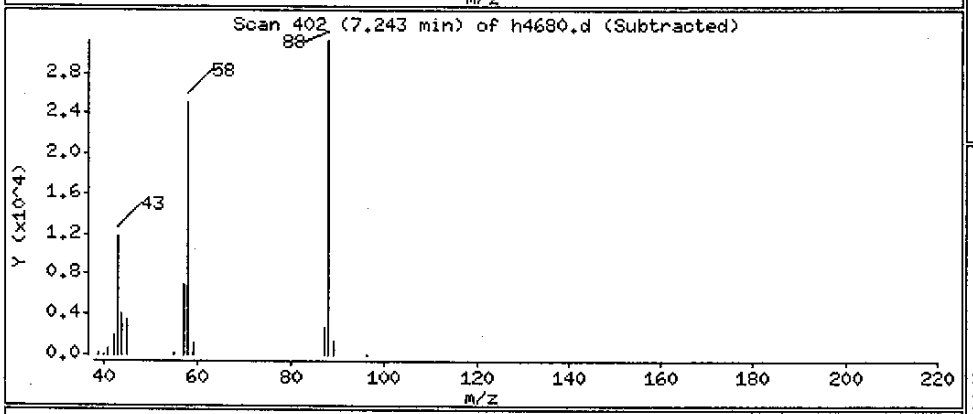
Column diameter: 0.53

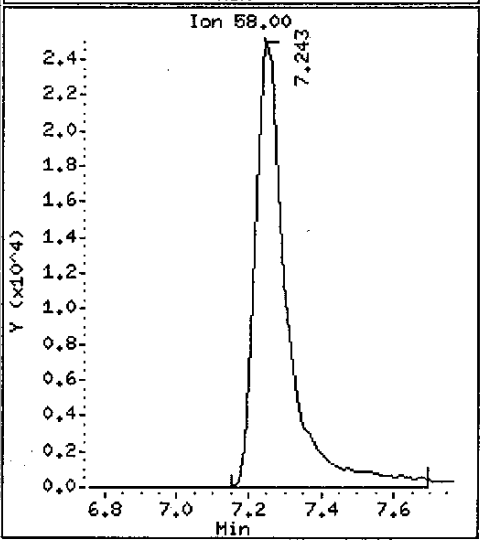
55 1,4-Dioxane

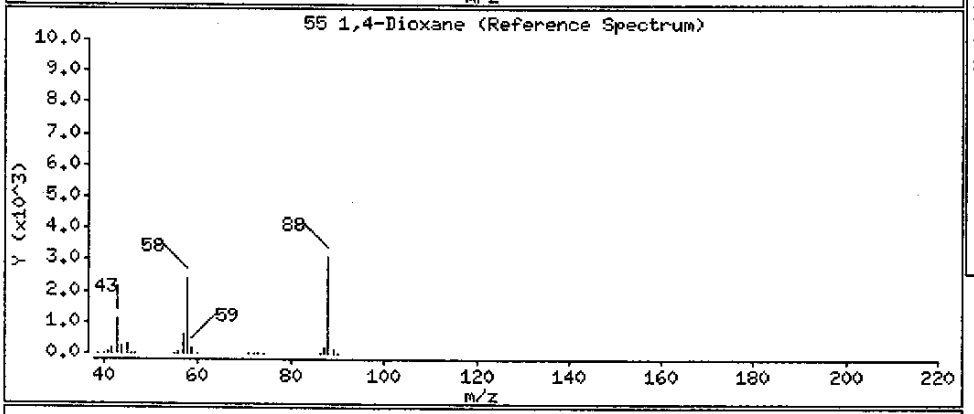
Concentration: 1442.01 ug/L

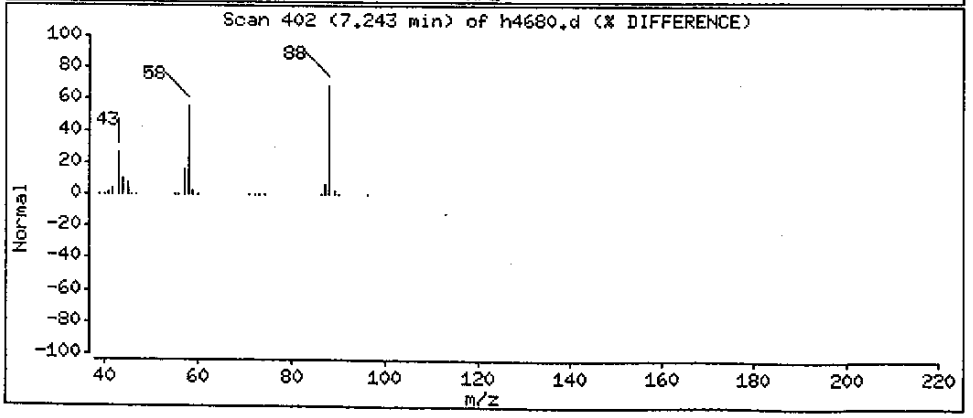












Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

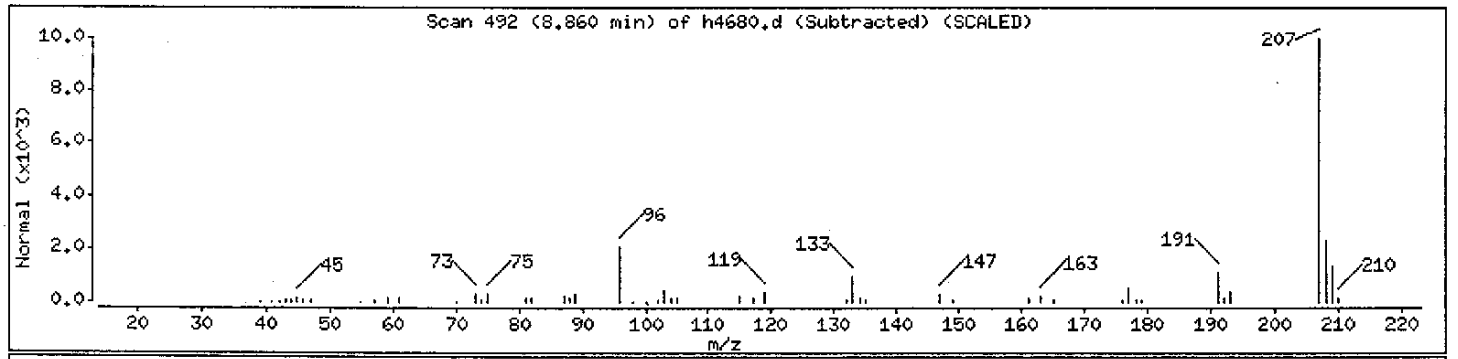
Client ID: 01-MW-11 Instrument: H.i

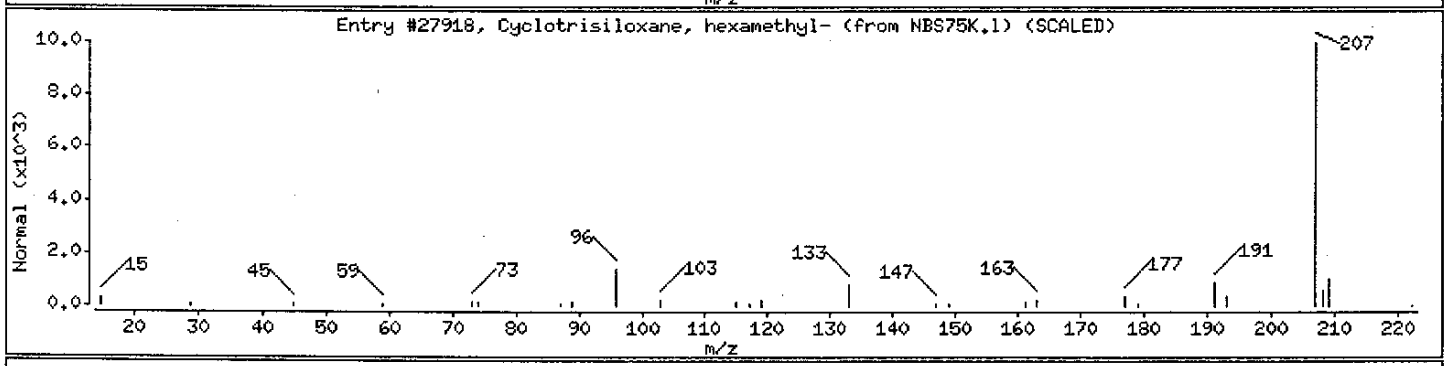
Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS75K.l	27918	80	C6H18O3Si3	222





Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

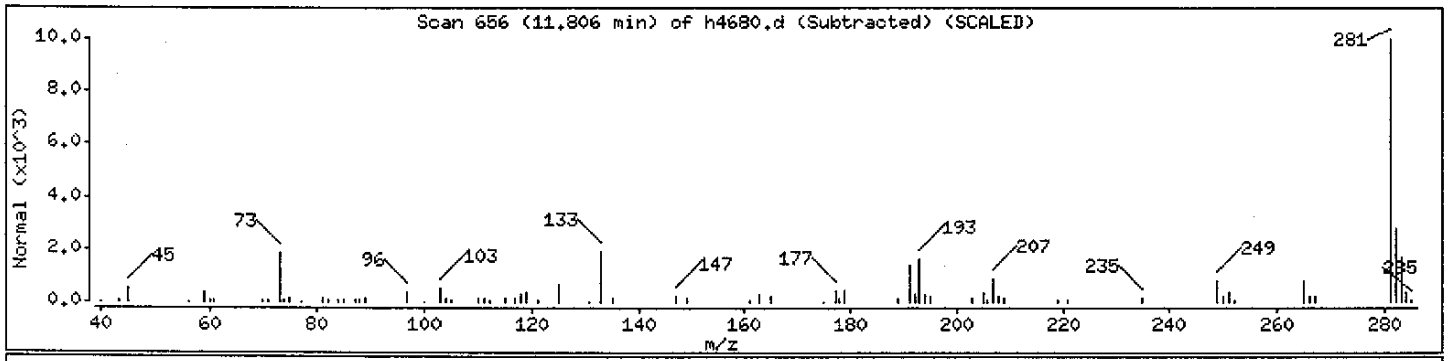
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

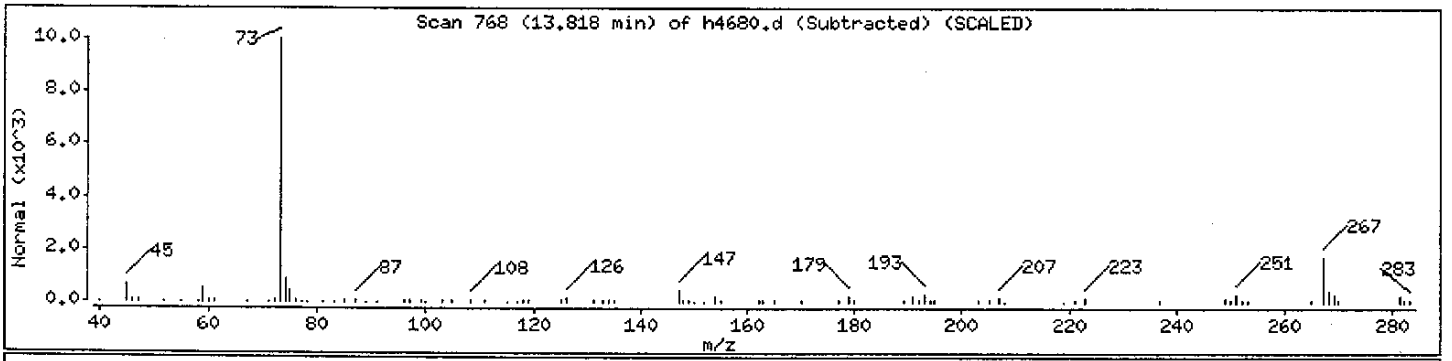
Client ID: 01-HW-11 Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

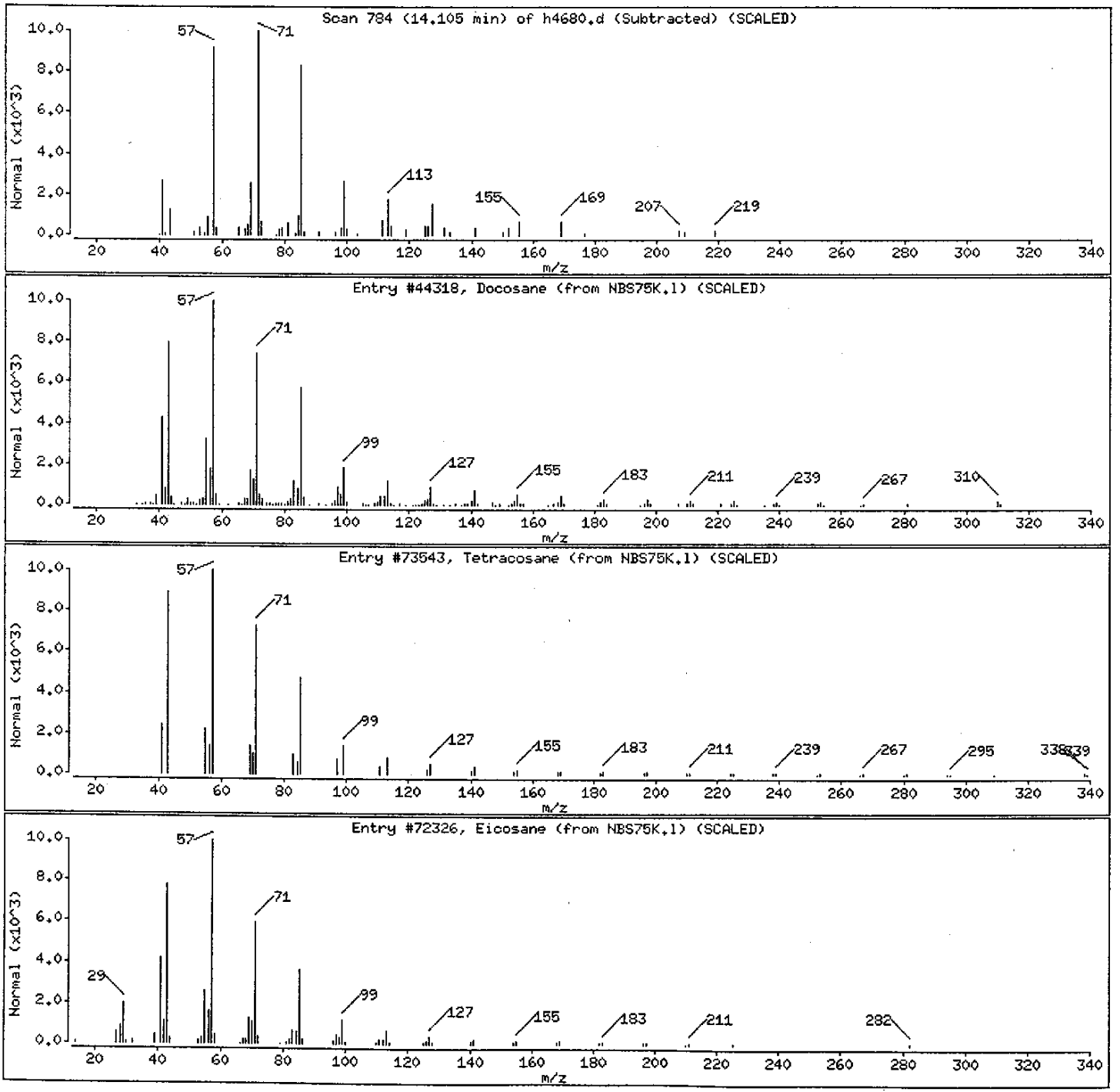
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Docosane	629-97-0	NBS75K.l	44318	86	C22H46	310
Tetracosane	646-31-1	NBS75K.l	73543	83	C24H50	338
Eicosane	112-95-8	NBS75K.l	72326	83	C20H42	282



Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

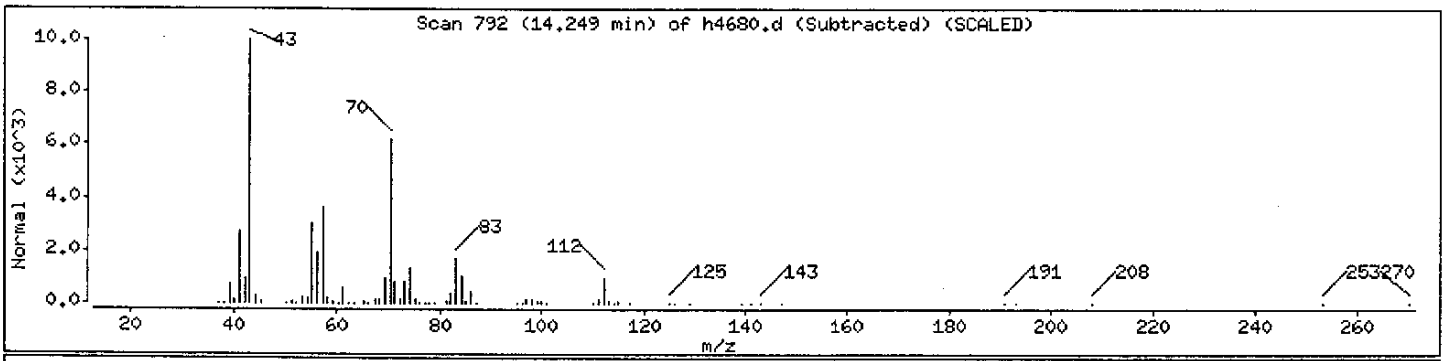
Client ID: 01-MW-11 Instrument: H.i

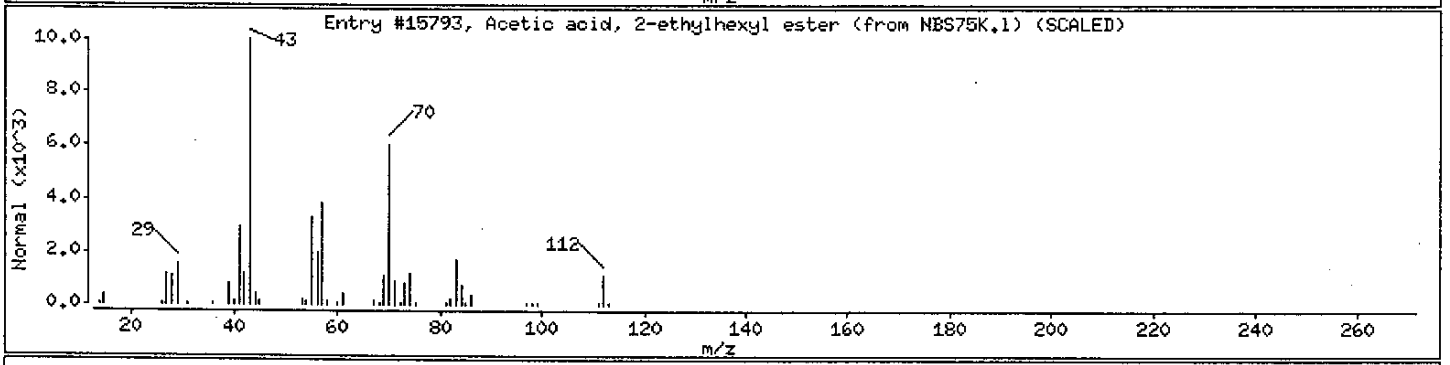
Sample Info: GGTFX1AA,,D4E210325-008

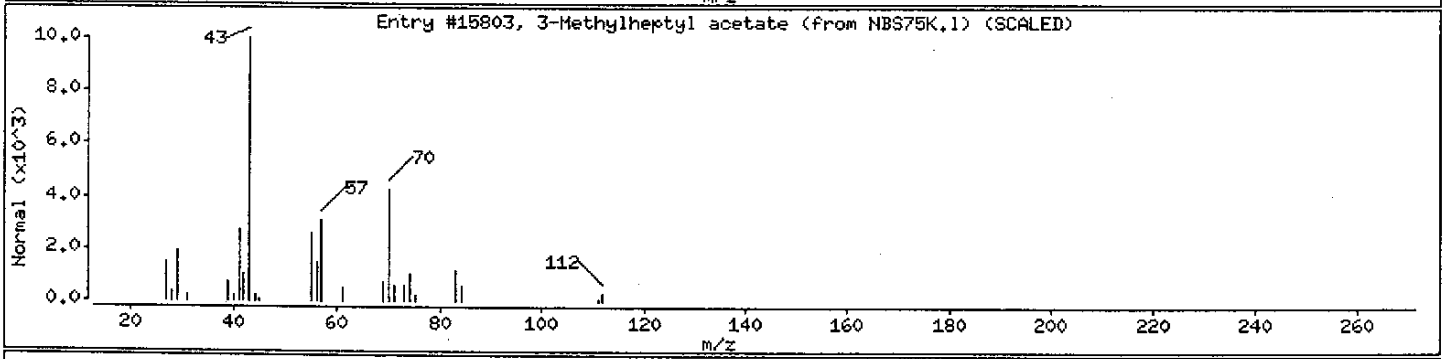
Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.l	15793	91	C10H2002	172
3-Methylheptyl acetate	72218-58-7	NBS75K.l	15803	86	C10H2002	172







Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

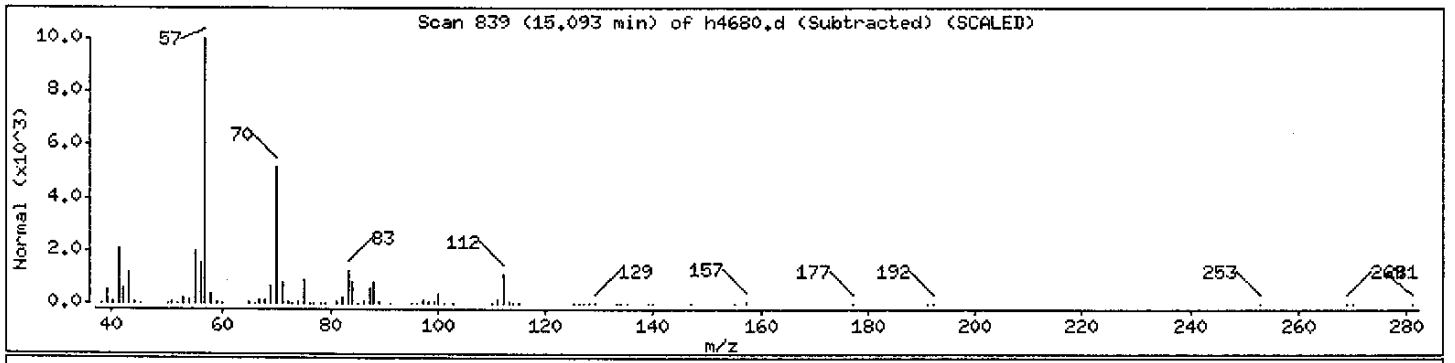
Client ID: 01-MW-11 Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4680.d

Date : 29-MAY-2004 21:20

Client ID: 01-MW-11

Instrument: H.i

Sample Info: GGTFX1AA,,D4E210325-008

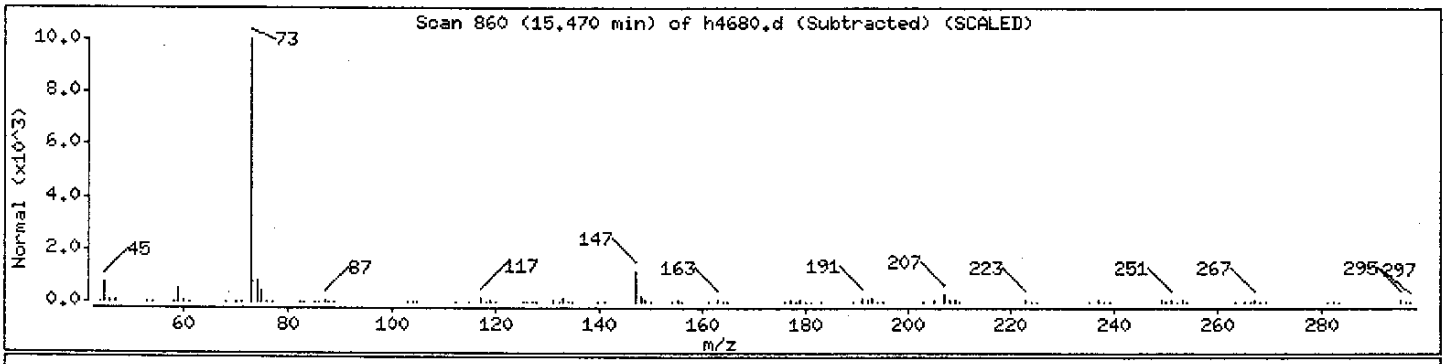
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4681.d
Lab Smp Id: GGTF31AA Client Smp ID: 01-MW-10
Inj Date : 29-MAY-2004 21:39
Operator : yanezj Inst ID: H.i
Smp Info : GGTF31AA,,D4E210325-009
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: H-all.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

05/31/04

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	48 Fluorobenzene	96	6.379	6.400	(1.000)	1952014	10.0000	
*	72 Chlorobenzene-d5	119	10.044	10.065	(1.000)	422736	10.0000	
*	96 1,4-Dichlorobenzene-d4	152	12.918	12.921	(1.000)	577529	10.0000	
$	40 Dibromofluoromethane	111	5.571	5.592	(0.873)	903706	10.1938	10.1938
$	44 1,2-Dichloroethane-d4	65	5.984	5.987	(0.938)	363383	10.4221	10.4221
$	61 Toluene-d8	98	8.283	8.286	(0.825)	1721811	9.77738	9.77738
$	82 Bromofluorobenzene	95	11.553	11.555	(1.150)	927801	10.0111	10.0111
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 Chloromethane	50.00	Compound Not Detected.					
	5 Vinyl Chloride	62.00	Compound Not Detected.					
	6 Ethylene Oxide	43.00	Compound Not Detected.					
	117 Dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	123 1,2-dichloro-1,1,2-triflourom	117.00	Compound Not Detected.					
	124 2,2-dichloro-1,1,1-trifluorom	83.00	Compound Not Detected.					

					CONCENTRATIONS	
	QUANT SIG				ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT REL RT	RESPONSE	(ug/L)	(ug/L)
7 Bromomethane	94.00	Compound Not Detected.				
8 Chloroethane	64.00	Compound Not Detected.				
9 Dichlorofluoromethane	67.00	Compound Not Detected.				
10 Trichlorofluoromethane	101.00	Compound Not Detected.				
11 Ethanol	45.00	Compound Not Detected.				
12 Ethyl Ether	59	2.913	2.933 (0.457)	4277	0.19937	0.199371
13 Acrolein	56.00	Compound Not Detected.				
15 Acetone	43	3.182	3.203 (0.499)	15212	4.85407	4.85407
14 1,1-Dichloroethene	96.00	Compound Not Detected.				
16 Trichlorotrifluoroethane	151.00	Compound Not Detected.				
17 Iodomethane	142.00	Compound Not Detected.				
19 Acetonitrile	41.00	Compound Not Detected.				
18 Carbon Disulfide	76.00	Compound Not Detected.				
20 Allyl Chloride	41.00	Compound Not Detected.				
119 Methyl Acetate	43.00	Compound Not Detected.				
21 Methylene Chloride	84	3.613	3.634 (0.566)	22044	0.49780	0.497802
125 2-Propanol	45.00	Compound Not Detected.				
22 tert-Butyl alcohol	59.00	Compound Not Detected.				
23 Acrylonitrile	53.00	Compound Not Detected.				
24 trans-1,2-Dichloroethene	96.00	Compound Not Detected.				
25 Methyl t-butyl ether	73.00	Compound Not Detected.				
26 Hexane	57.00	Compound Not Detected.				
27 1,1-Dichloroethane	63.00	Compound Not Detected.				
29 Vinyl acetate	43.00	Compound Not Detected.				
30 Isopropyl ether	87.00	Compound Not Detected.				
28 Chloroprene	53.00	Compound Not Detected.				
120 ETBE	59.00	Compound Not Detected.				
33 2-Butanone	43.00	Compound Not Detected.				
32 cis-1,2-Dichloroethene	96.00	Compound Not Detected.				
31 2,2-Dichloropropane	77.00	Compound Not Detected.				
35 Ethyl Acetate	43.00	Compound Not Detected.				
34 Propionitrile	54.00	Compound Not Detected.				
36 Methacrylonitrile	41.00	Compound Not Detected.				
37 Bromochloromethane	128.00	Compound Not Detected.				
39 Tetrahydrofuran	42.00	Compound Not Detected.				
38 Chloroform	83.00	Compound Not Detected.				
41 1,1,1-Trichloroethane	97.00	Compound Not Detected.				
114 Cyclohexane	56.00	Compound Not Detected.				
42 1,1-Dichloropropene	75.00	Compound Not Detected.				
43 Carbon Tetrachloride	117.00	Compound Not Detected.				
45 Isobutanol	41.00	Compound Not Detected.				
46 Benzene	78.00	Compound Not Detected.				
47 1,2-Dichloroethane	62.00	Compound Not Detected.				
121 TAME	73.00	Compound Not Detected.				
49 n-Butanol	56.00	Compound Not Detected.				
50 Trichloroethene	130.00	Compound Not Detected.				
115 2-Pentanone	43.00	Compound Not Detected.				

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
52	1,2-Dichloropropane	63.00	Compound Not Detected.					
122	Methyl Cyclohexane	55.00	Compound Not Detected.					
53	Dibromomethane	93.00	Compound Not Detected.					
54	Methyl Methacrylate	100.00	Compound Not Detected.					
55	1,4-Dioxane	88	7.260	7.262	(1.138)	159745	1205.60	1205.60
56	Bromodichloromethane	83.00	Compound Not Detected.					
57	2-nitropropane	41.00	Compound Not Detected.					
113	2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
59	cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
60	4-Methyl-2-pentanone	43.00	Compound Not Detected.					
62	Toluene	91.00	Compound Not Detected.					
63	trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
64	Ethyl methacrylate	69.00	Compound Not Detected.					
65	1,1,2-Trichloroethane	97.00	Compound Not Detected.					
67	1,3-Dichloropropane	76.00	Compound Not Detected.					
66	Tetrachloroethene	164.00	Compound Not Detected.					
68	2-Hexanone	43.00	Compound Not Detected.					
126	Tetrahydrothiophene	60.00	Compound Not Detected.					
69	Dibromochloromethane	129.00	Compound Not Detected.					
70	1,2-Dibromoethane	107.00	Compound Not Detected.					
71	1-Chlorohexane	91.00	Compound Not Detected.					
73	Chlorobenzene	112.00	Compound Not Detected.					
74	1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
75	Ethylbenzene	106.00	Compound Not Detected.					
76	m and p-Xylene	106.00	Compound Not Detected.					
77	o-Xylene	106.00	Compound Not Detected.					
78	Styrene	104.00	Compound Not Detected.					
79	Bromoform	173.00	Compound Not Detected.					
80	isopropyl benzene	105.00	Compound Not Detected.					
116	cis-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
81	Cyclohexanone	55.00	Compound Not Detected.					
83	1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
84	Bromobenzene	156.00	Compound Not Detected.					
85	1,2,3-Trichloropropane	110.00	Compound Not Detected.					
86	t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
87	n-Propylbenzene	120.00	Compound Not Detected.					
88	2-Chlorotoluene	126.00	Compound Not Detected.					
89	1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
90	4-Chlorotoluene	126.00	Compound Not Detected.					
91	tert-Butylbenzene	119.00	Compound Not Detected.					
92	1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
93	sec-Butylbenzene	134.00	Compound Not Detected.					
94	m-Dichlorobenzene	146.00	Compound Not Detected.					
95	4-Isopropyltoluene	119.00	Compound Not Detected.					
97	p-dichlorobenzene	146.00	Compound Not Detected.					
118	1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
98	n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
99 o-Dichlorobenzene	146.00	Compound Not Detected.					
100 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
101 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
102 Hexachlorobutadiene	225.00	Compound Not Detected.					
127 Naphthalene	128.00	Compound Not Detected.					
104 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

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VOLATILE REPORT SW-846

Data file : /chem/H.i/052904.b/h4681.d
Lab Smp Id: GGTF31AA Client Smp ID: 01-MW-10
Inj Date : 29-MAY-2004 21:39
Operator : yanezj Inst ID: H.i
Smp Info : GGTF31AA,,D4E210325-009
Misc Info :
Comment : Purge and Trap Analysis
Method : /chem/H.i/052904.b/H-20ml-h2o.m
Meth Date : 29-May-2004 16:50 yanezj Quant Type: ISTD
Cal Date : 13-MAY-2004 11:34 Cal File: h4151.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: H-all.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
* 96 1,4-Dichlorobenzene-d4	12.918	3933360	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
11.804	430365	1.09414089	1.09414	0		0	96
Unknown				CAS #:			
13.816	733100	1.86380092	1.86380	0		0	96
Acetic acid, 2-ethylhexyl ester				CAS #: 103-09-3			
14.247	8285416	21.0644741	21.0645	91	NBS75K.l	15793	96

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
15.091	3037386	7.72211544	7.72212	0		0	96
Unknown				CAS #:			
15.486	408194	1.03777432	1.03777	0		0	96

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: H.i
Lab File ID: h4681.d
Lab Smp Id: GGTF31AA
Analysis Type: VOA
Quant Type: ISTD
Operator: yanezj
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

Calibration Date: 05/29/4
Calibration Time: 1528
Client Smp ID: 01-MW-10
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	1511042	755521	3022084	1952014	29.18
72 Chlorobenzene-d5	370905	185452	741810	422736	13.97
96 1,4-Dichlorobenze	532545	266272	1065090	577529	8.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 Fluorobenzene	6.40	5.90	6.90	6.38	-0.32
72 Chlorobenzene-d5	10.06	9.56	10.56	10.04	-0.21
96 1,4-Dichlorobenze	12.92	12.42	13.42	12.92	-0.02

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

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RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTF31AA
Client Smp ID: 01-MW-10
Level: LOW
Operator: yanezj
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs-h20.spk
Quant Type: ISTD
Sublist File: H-all.sub
Method File: /chem/H.i/052904.b/H-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 40 Dibromofluorometha	10.0000	10.1938	101.94	76-116
$ 44 1,2-Dichloroethane	10.0000	10.4221	104.22	59-129
$ 61 Toluene-d8	10.0000	9.77738	97.77	76-116
$ 82 Bromofluorobenzene	10.0000	10.0111	100.11	74-114

Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Sample Info: CGTF31AA,,D4E210325-009

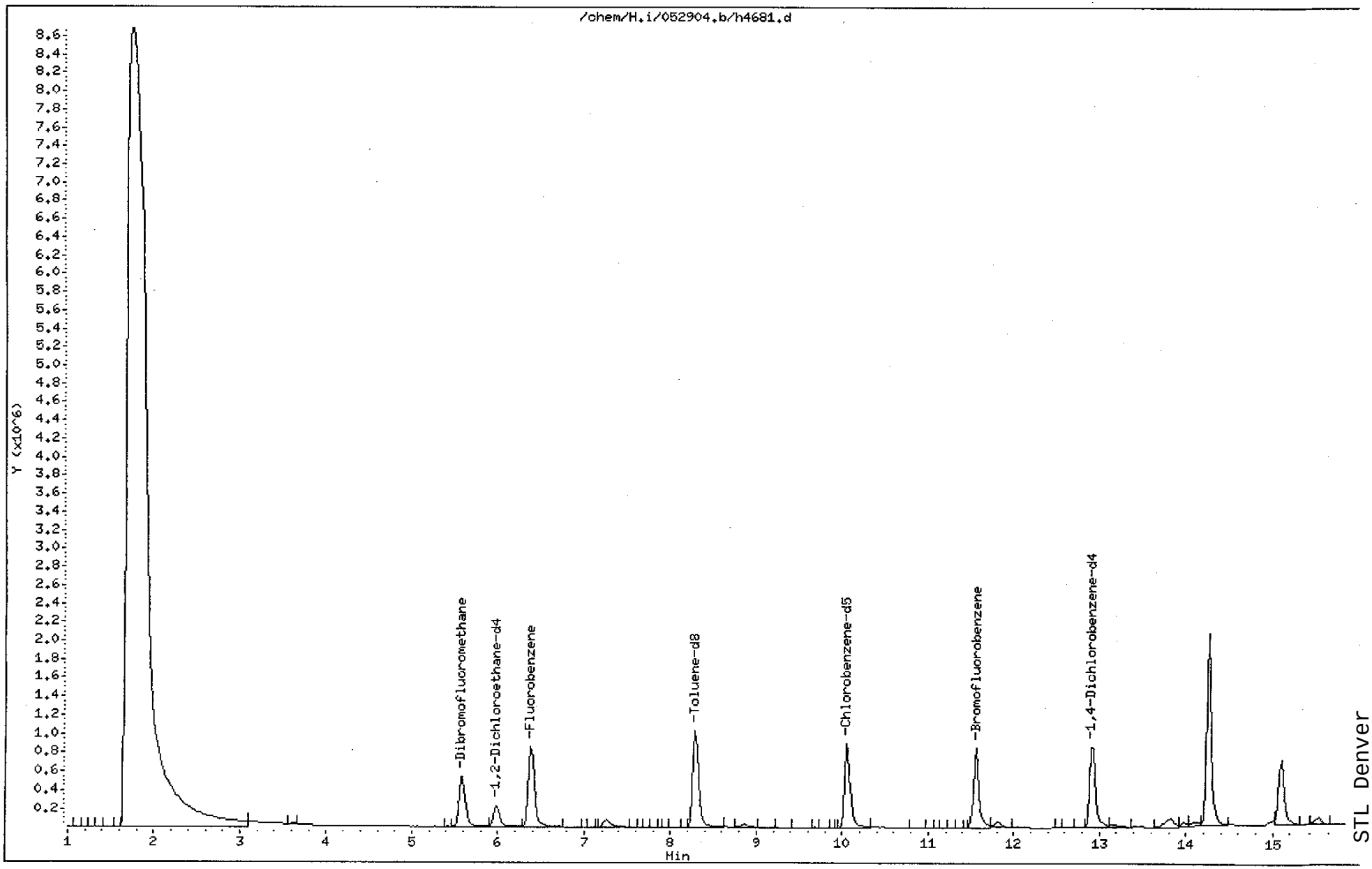
Purge Volume: 20.0

Column phase: DB624

Instrument: H.i

Operator: yanezj

Column diameter: 0.53



Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

Purge Volume: 20.0

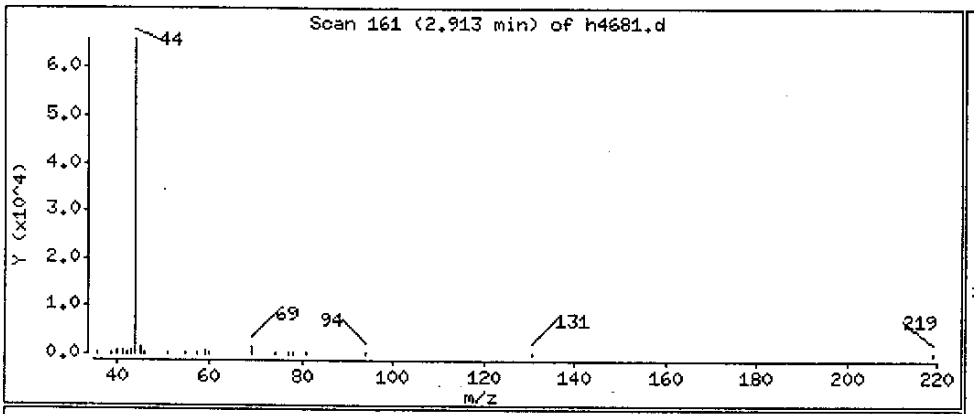
Operator: yanezj

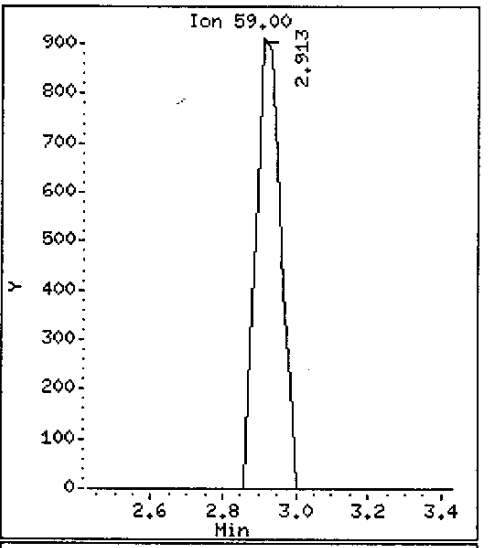
Column phase: DB624

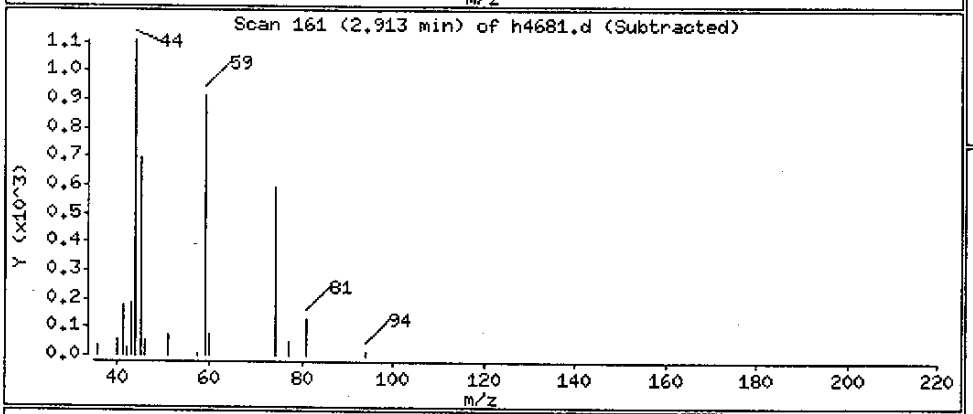
Column diameter: 0.53

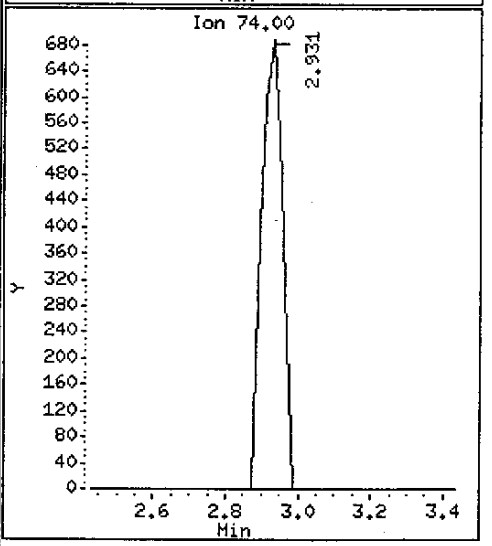
12 Ethyl Ether

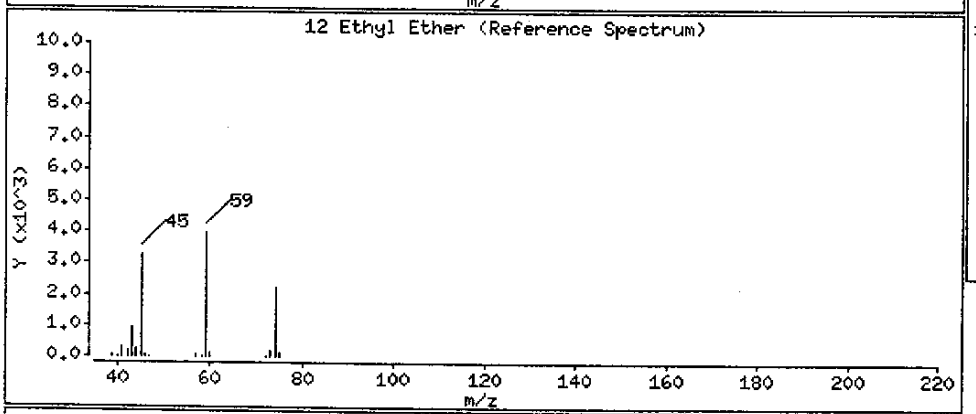
Concentration: 0.199371 ug/L

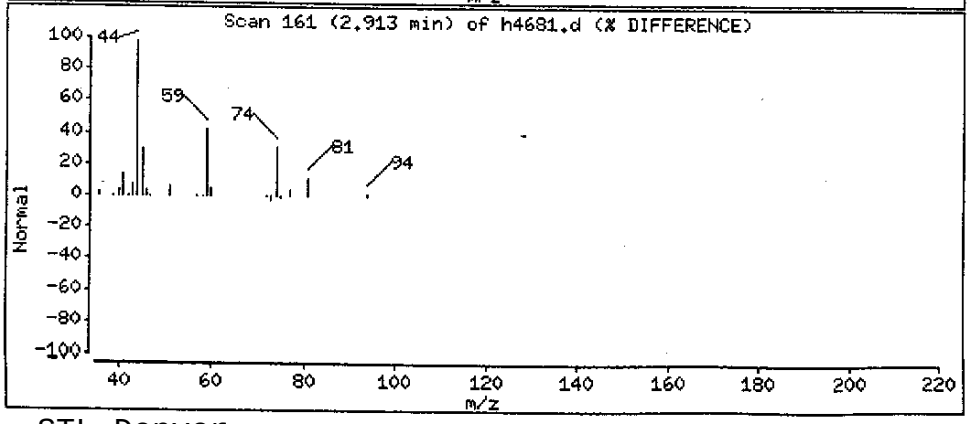












Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

Purge Volume: 20.0

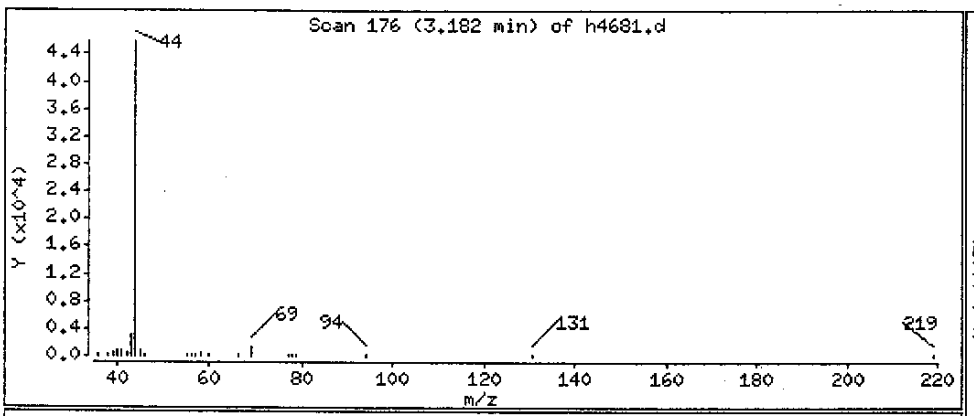
Operator: yanezj

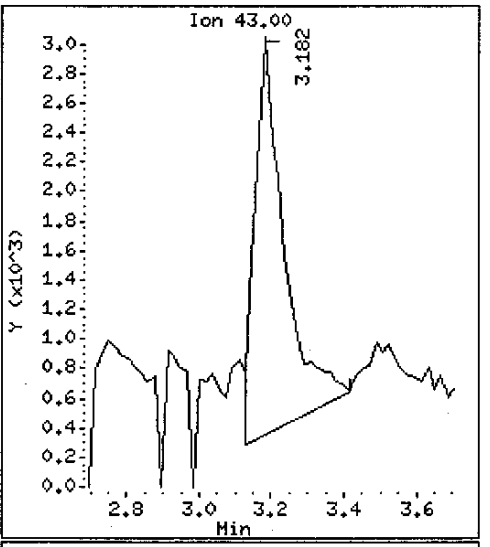
Column phase: DB624

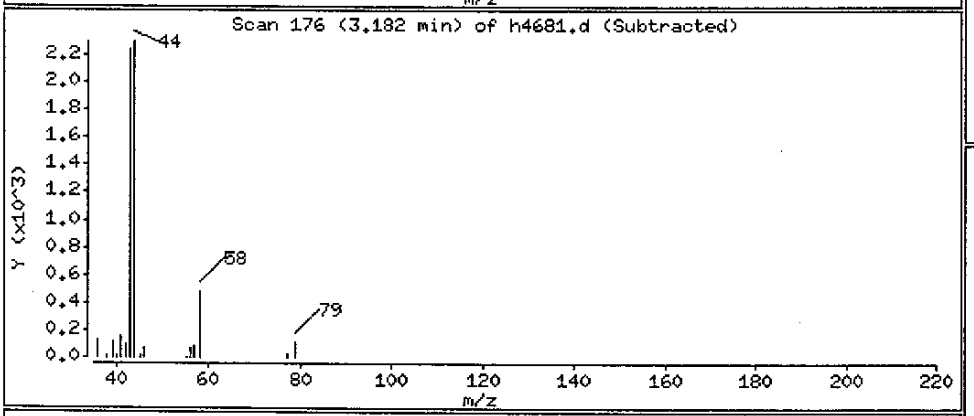
Column diameter: 0.53

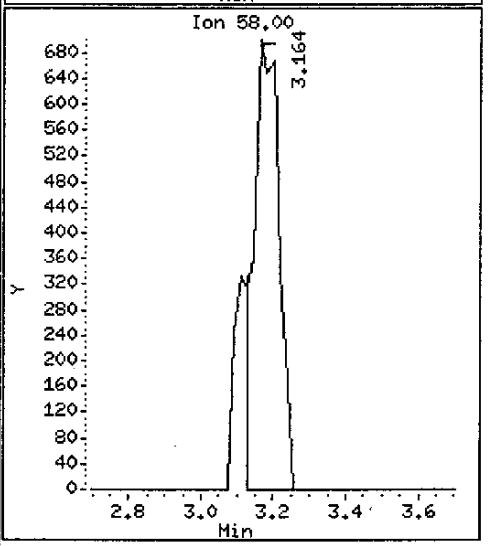
15 Acetone

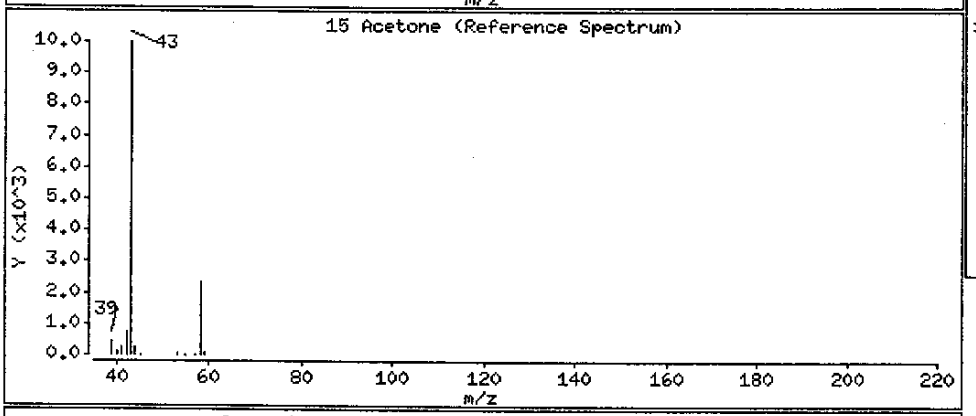
Concentration: 4.85407 ug/L

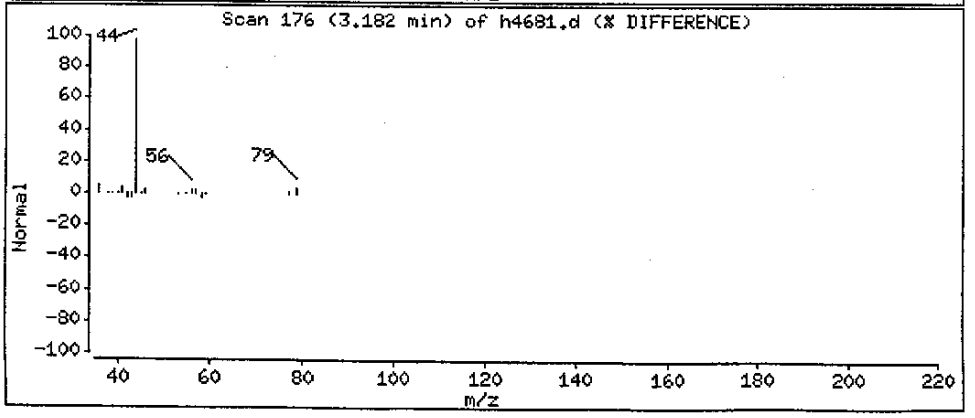












Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

Purge Volume: 20.0

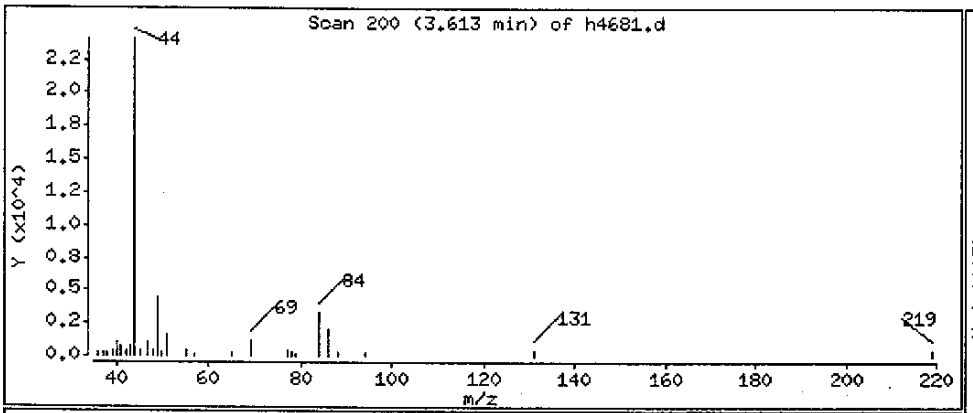
Operator: yanezj

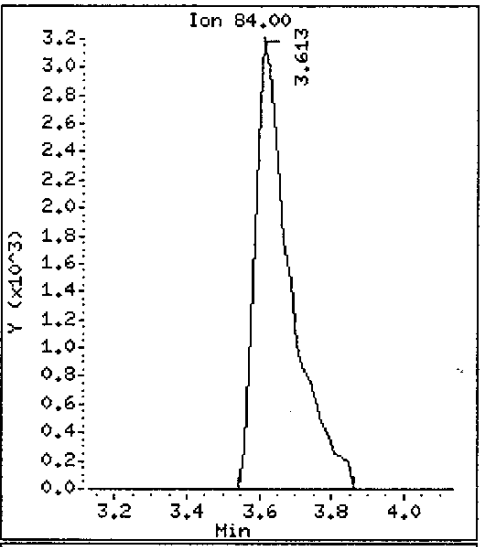
Column phase: DB624

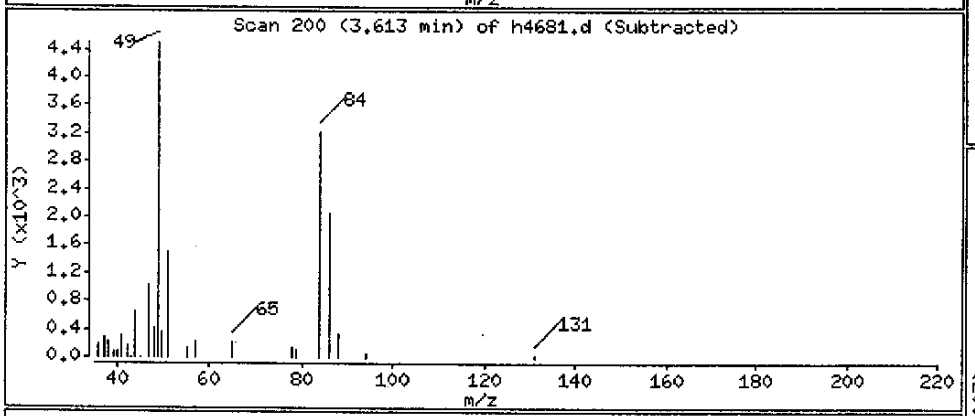
Column diameter: 0.53

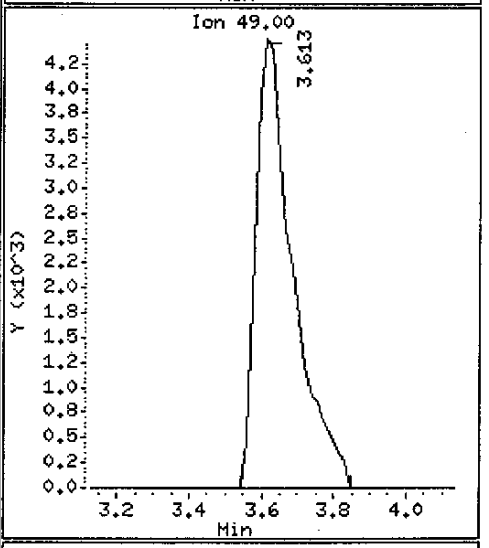
21 Methylene Chloride

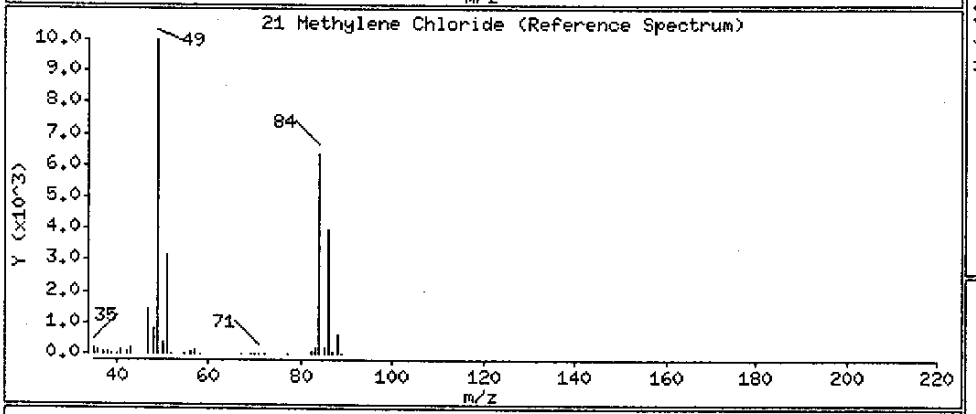
Concentration: 0.497802 ug/L

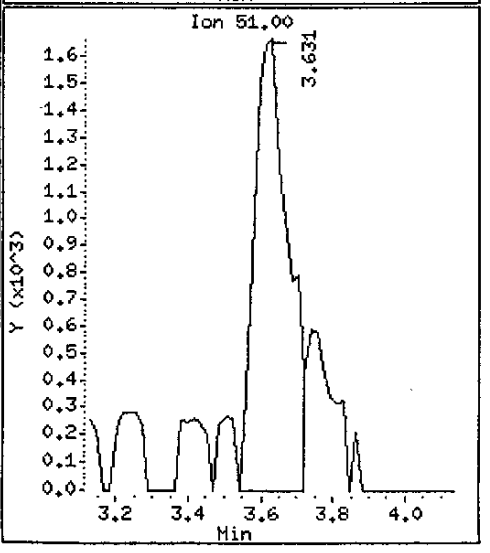


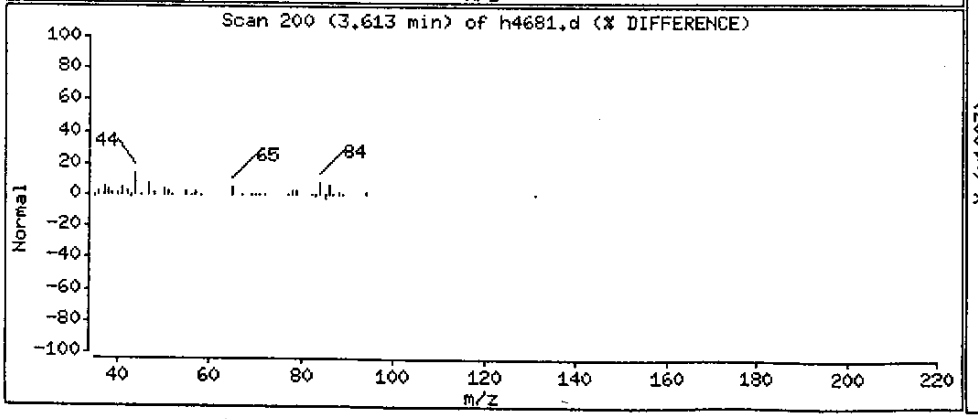












Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

Purge Volume: 20.0

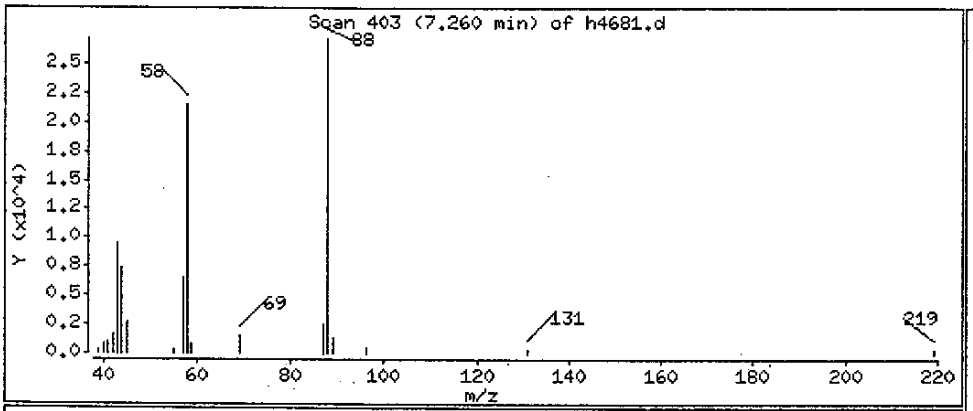
Operator: yanezj

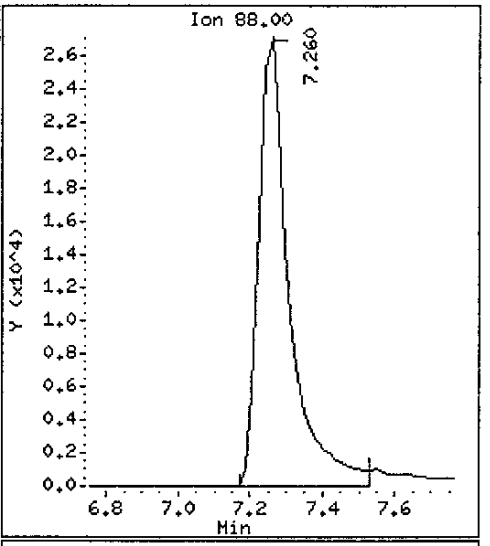
Column phase: DB624

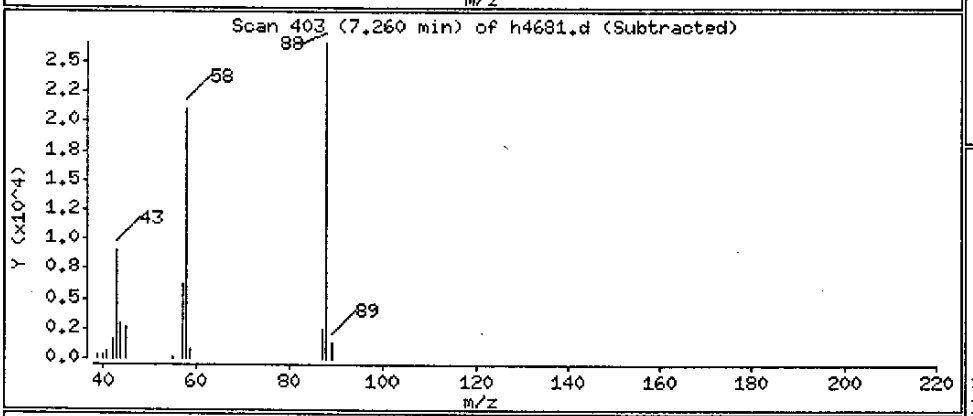
Column diameter: 0.53

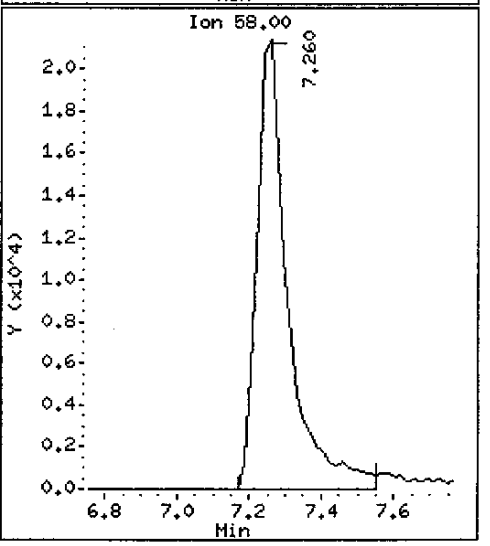
55 1,4-Dioxane

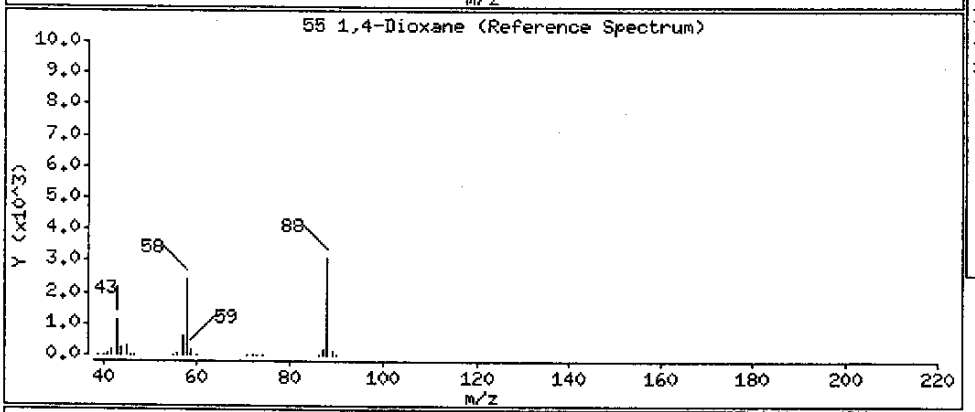
Concentration: 1205.60 ug/L

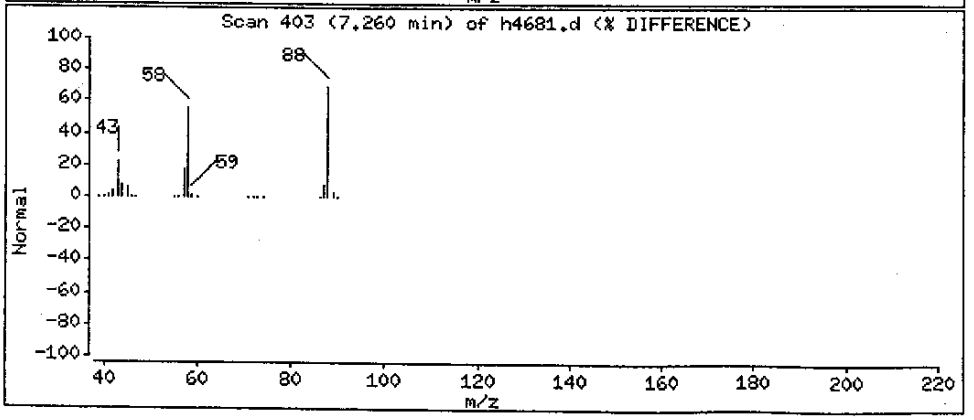












Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

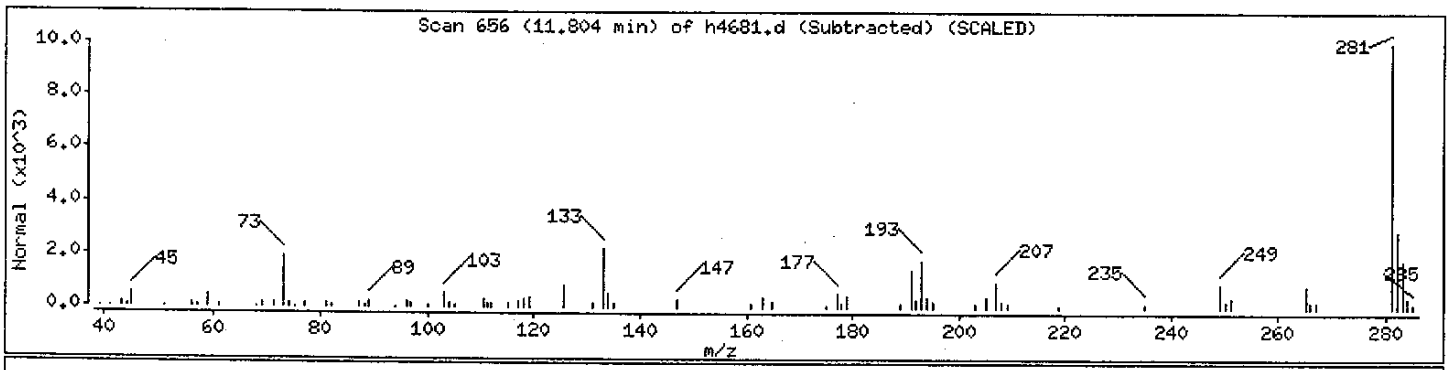
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

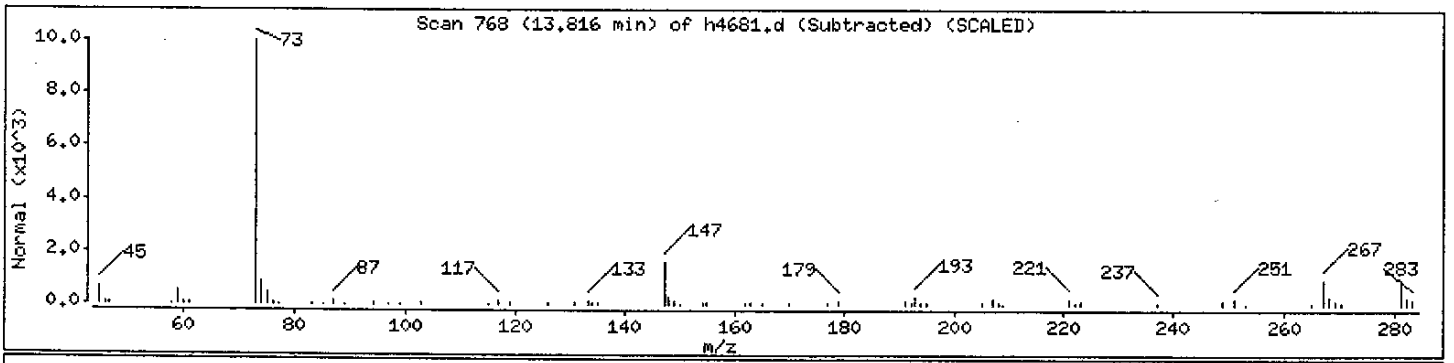
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

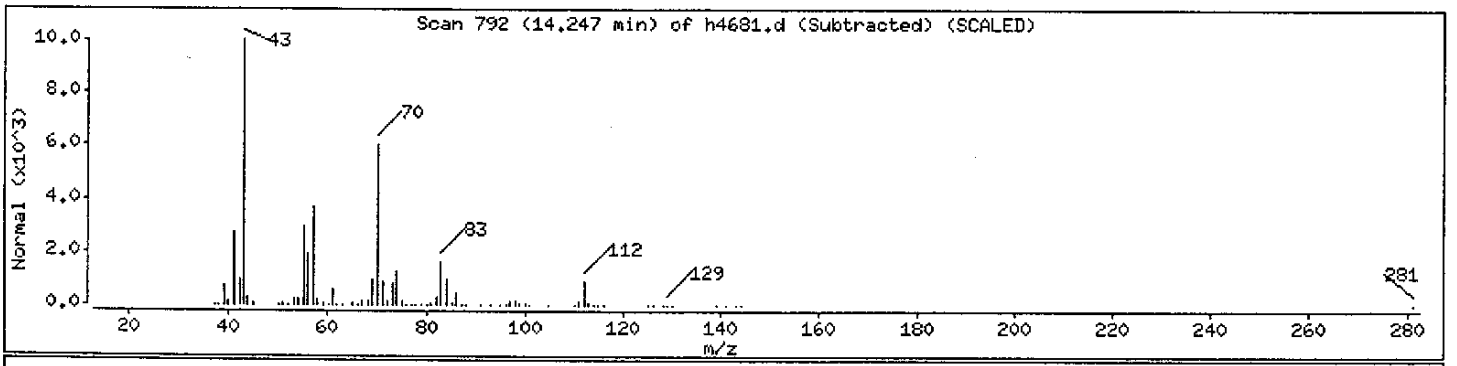
Client ID: 01-MW-10 Instrument: H.i

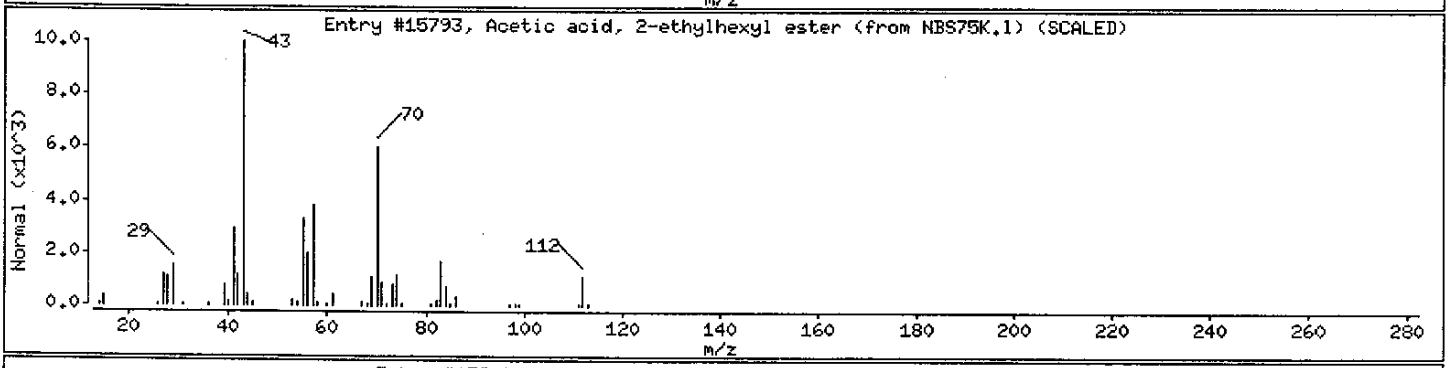
Sample Info: GGTF31AA,,D4E210325-009

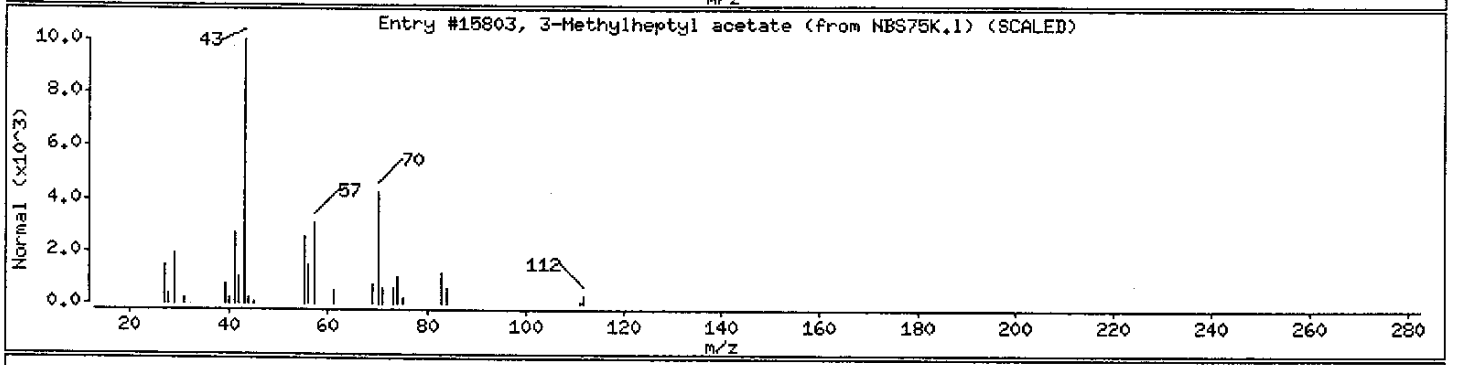
Purge Volume: 20.0 Operator: yanezj

Column phase: DB624 Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.l	15793	91	C10H2002	172
3-Methylheptyl acetate	72218-58-7	NBS75K.l	15803	86	C10H2002	172







Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

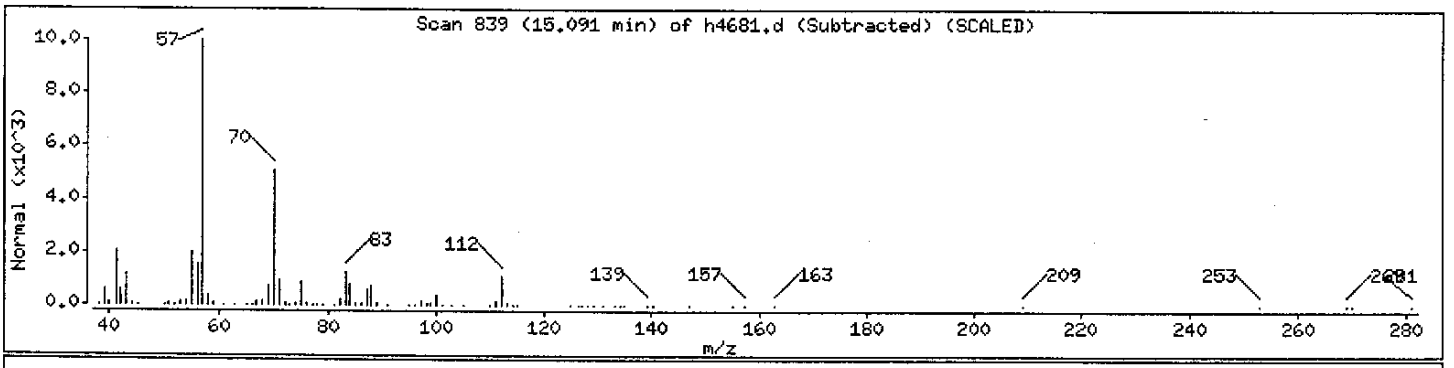
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /chem/H.i/052904.b/h4681.d

Date : 29-MAY-2004 21:39

Client ID: 01-MW-10

Instrument: H.i

Sample Info: GGTF31AA,,D4E210325-009

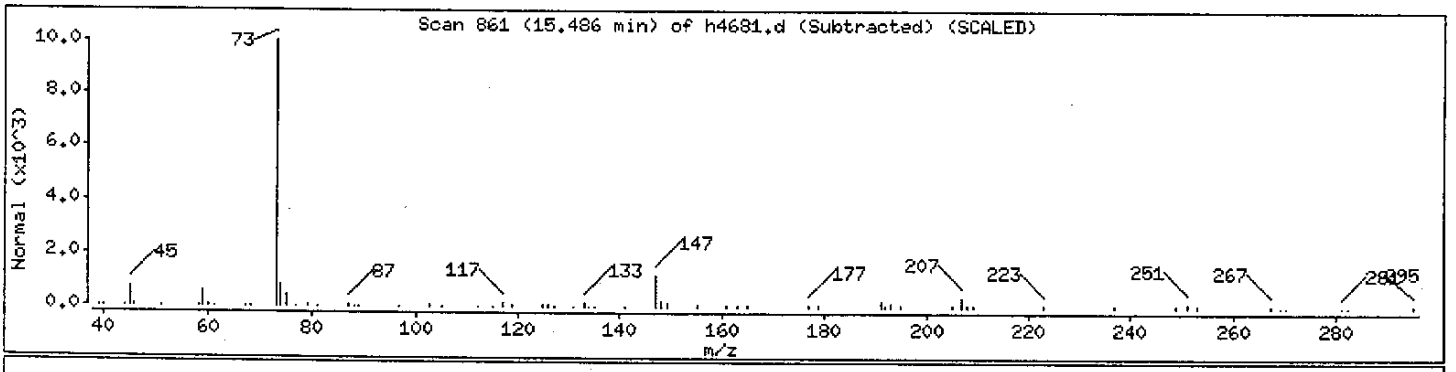
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Volatile GC/MS

Supporting Documentation

Sample Sequence, Chromatograms/Mass Spectra

SEVERN TRENT STL

Lot ID: D4E210325

Client: Cabrera Serv.

Method: 8260

Associated Samples: 1-6

Batch #(s): 4149504

I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.

Signature/Date: 6/10/04

GC /MS VOLATILE
ORGANIC EXTRACTION
LOG SHEETS

SEVERN TRENT STL

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/28/04
Time: 19:02:04

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGr
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

Reviewer/Date: _____ / 0/00/00

****
* *
* QC BATCH: 4149504 *
* *
****

PREP DATE: 5/27/04 15:26
COMP DATE: 5/27/04 15:26

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - 25 mL purge (Waters)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/10/04	D4E210325-001 **GGTEE-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/10/04	D4E210325-001 **GGTEE-1-AGS**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/10/04	D4E210325-001 **GGTEE-1-AHD**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/10/04	D4E210325-002 **GGTE3-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/10/04	D4E210325-003 **GGTE6-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/10/04	D4E210325-004 **GGTE7-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/10/04	D4E210325-005 **GGTFE-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/28/04
Time: 19:02:04

QC BATCH: 4149504

PREP DATE: 5/27/04 15:26
COMP DATE: 5/27/04 15:26

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/10/04	D4E210325-006 **GGTFH-1-AA**	D	25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-001 **GG24F-1-AC**	R	25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-002 **GG24H-1-AC**	R	25	RI	WATER	**0.15mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-003 **GG24J-1-AC**	R	25	RI	WATER	**0.4mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-004 **GG24K-1-AC**	R	25	RI	WATER	**0.015mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-005 **GG24L-1-AC**	R	25	RI	WATER	**0.01mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-006 **GG24M-1-AC**	R	25	RI	WATER	**0.004mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-007 **GG24P-1-AC**	R	25	RI	WATER	**0.3mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-008 **GG24Q-1-AC**	R	25	RI	WATER	**0.3mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/04/04	D4E250363-009 **GG24R-1-AC**	R	25	RI	WATER	**0.1mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/28/04
Time: 19:02:04

QC BATCH: 4149504

PREP DATE: 5/27/04 15:26
COMP DATE: 5/27/04 15:26

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJT	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/11/04	D4E250365-001 **GG25P-1-AA**		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/11/04	D4E250365-002 **GG25Q-1-AA**		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/11/04	D4E250365-003 **GG25R-1-AA**		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/11/04	D4E250365-006 **GG252-1-AA**		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/11/04	D4E250365-008 **GG255-1-AA**		25	RI	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	D4E280000-504 **GHCHG-1-AA**B		25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	D4E280000-504 **GHCHG-1-ACC**		25	QK	WATER	**20mL** 20.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 24

GC/MS VOLATILE
INSTRUMENT
LOG SHEETS

SEVERN TRENT STL

GC/MS Volatile Analysis

Instrument R2
5972 MSD

STL, Denver

Column	Phase	Inj. Temp
75M	DB-624	200C

Init. Time	Ramp Rate	Final Temp
2 min.	5C/min	65C
0 min.	12C/min	155C
0 min.	25C/min	210C

Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
18	20	MS	10^-6	~175C	35-300/2^2

DEN-MS-0010 (8260B/624/524.2)
(Circle as appropriate)

Comments

MAIN #067/083-04 LCS/MS/SD #109-04
SUPP #011/052-04

Target Batch (Directory): 052704.b

QuantIMS Batch: 4149504

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date 2004	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	AL
BFB			1ul DIR INJ		5-27	Gm	rr6279.d						#073-04 (1526)	1
MAIN 10			20	5ul			80	—	—					2
SUPP 10		Gm 5/20		↓			81	—	—					3
LCS		~~GG~~ GHCHG-IAC		10ul			82	—	—					4
VBLK		IAA		20			83	—	—					5
DYE210325	1	GG TEE IAA					84	—	—	—	—	c2		6
	1ms	IAG					85	—	—	—	—	c2		7
	1msd	IAH					86	—	—	—	—	c2		8
	2	E3 IAA					87	—	—	—	—	c2		9
	3	E6					88	—	—	—	—	c2		10
	4	E7		3.0			89	—	—	X	—	c2	RRC 20	11
	5	FE		20			90	—	—	—	—	c2		12
	6	FH		↓			91	—	—	—	—	c2		13
DYE250363	1	24FIAC					92	—	—	—	—	7		14
	2	4H		.15			93	—	—	—	—	7		15
	3	4J		0.4			94	—	—	—	—	7		16
	4	4K		.015			95	—	—	—	—	7		17
	5	4L		.01			96	—	—	—	—	7		18
	6	4M		↓			97	—	—	X	—	7	RRC 4ul	19
	7	4P		0.3			98	—	—	—	—	7		20

STL, Denver

GC/MS Volatile Analysis

Instrument E
5972 MS

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

Comments

DEN-MS-0010 (8260B/624/524.2
(Circle as appropriate)

Target Batch (Directory):

QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date 2004	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	AL
D4E250363	8	GG24Q1AC	20	~~20~~ 0.3	5-27	CM	rr6299.d	—	—	—	—	7		5
↓	9	4R	↓	0.1	↑	↓	300	—	—	—	—	7		6
D4E250365	1	5P1AA		20			01	—	—	—	—	7		7
↓	2	5Q		↓			02	—	—	—	—	7		8
	3	5R					03	—	—	—	—	7		9
	6	52					04	—	—	—	—	7		10
	8	55					05	—	—	—	—	7		11
D4E210325	4	TE71AA	↓	~			06	—	—	—	—	12		12
D4E250363	6	24M1AC	↓	.004	↓	↓	07	—	—	—	—	7	(256)	13

CM 5/28/04

Revised 6/3/03

public/QA/forms/VOA Logbookr3.xls

GC/MS VOLATILE
STANDARD DATA

SEVERN TRENT STL

GC/MS Initial Calibration Review Checklist *STL Denver*

Instrument ID and Date: R2 MAIN 5/25/04

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☑ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Sufficient number of calibration points used?	✓			✓	
4. Reasons for removal of points documented?	✓			✓	SOME PTS CAL REMOVED
5. %RSD or correlation coefficient within method limits?	✓			✓	
6. If RRF used for ICAL, were all compounds within 15% RSD?	✓			✓	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Standards traceability properly documented?	✓			✓	
11. Manual integrations documented and checked?			✓	N/A	
12. 2nd source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	✓			✓	

1st Level Reviewer: [signature] Date: 5/25/04

2nd Level Reviewer: [signature] Date: 05/26/04

GC/MS Volatile Analysis

STL, Denver

Instrument R2
5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

DEN-MS-0010 (8260B/624/524.2)
(Circle as appropriate)

Comments

Target Batch (Directory): R2 052504i.b IS/SS #104-04 QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
BFB		1ul dir inj			5/25/04	CA	RR6217.d						#73-04 1836	
MAIN 001			20	0.5 µl			18						#67/83-04	
2				1.0			19							
5				2.5			20							
10				5.0			21							
30				15.0			22							
60				30.0			23							
SSV030				15.0			24						#61/60/91-04	
SUPP001				0.5			25						#52/11-04	
2				1.0			26							
5				2.5			27							
10				5.0			28							
30				15.0			29							
60				30.0			30							
LCS				20			31							
VBLK							32							
							33							
DAE190320	2						34					7		
DAE190322	11						35					7		
DAE190320	1						36					7		

GOOD

GOOD

Report Date: 25-May-2004 21:50

Calibration History

Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Start Cal Date: 25-MAY-2004 19:05
End Cal Date : 25-MAY-2004 21:11

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
25-MAY-2004 19:05	1-main	/chem/R2.i/052504i.b/rr6218.d
Cal Level: 2 , Cal Amount: 2.00000		
25-MAY-2004 19:31	1-main	/chem/R2.i/052504i.b/rr6219.d
Cal Level: 3 , Cal Amount: 5.00000		
25-MAY-2004 19:56	1-main	/chem/R2.i/052504i.b/rr6220.d
Cal Level: 4 , Cal Amount: 10.0000		
25-MAY-2004 20:21	1-main	/chem/R2.i/052504i.b/rr6221.d
Cal Level: 5 , Cal Amount: 30.0000		
25-MAY-2004 20:46	1-main	/chem/R2.i/052504i.b/rr6222.d
Cal Level: 6 , Cal Amount: 60.0000		
25-MAY-2004 21:11	1-main	/chem/R2.i/052504i.b/rr6223.d

Continuing Calibration

25-MAY-2004 20:21	1-main	/chem/R2.i/052504i.b/rr6221.d

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2004 19:05
End Cal Date : 25-MAY-2004 21:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Cal Date : 25-May-2004 21:50 reinharj
Curve Type : Average

Calibration File Names:
Level 1: /chem/R2.i/052504i.b/rr6218.d
Level 2: /chem/R2.i/052504i.b/rr6219.d
Level 3: /chem/R2.i/052504i.b/rr6220.d
Level 4: /chem/R2.i/052504i.b/rr6221.d
Level 5: /chem/R2.i/052504i.b/rr6222.d
Level 6: /chem/R2.i/052504i.b/rr6223.d

	Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	___ RRF	% RSD
M	1 1,2-Dichloroethene (total)	0.29608	0.26763	0.25863	0.25690	0.25579	0.24665	0.26361	6.546
M	2 Xylene (total)	6.63293	5.54641	5.94720	5.76201	5.84405	5.33884	5.84524	7.588
	3 dichlorodifluoromethane	+++++	0.95932	0.92295	0.90642	0.91501	0.91444	0.92363	2.251
	5 Chloromethane	+++++	0.49028	0.44474	0.43034	0.42981	0.41947	0.44293	6.311
	6 Vinyl Chloride	0.46782	0.44298	0.40293	0.40260	0.40626	0.39542	0.41967	6.907
	8 Bromomethane	0.61455	0.54723	0.50650	0.53840	0.58705	0.60425	0.56633	7.457
	9 Chloroethane	0.66350	0.60627	0.57691	0.57713	0.57245	0.57421	0.59508	6.015
	11 Trichlorofluoromethane	1.11952	1.06923	1.00274	0.99769	1.01984	1.01071	1.03662	4.637
	12 Ethanol	0.00259	0.00181	0.00268	0.00248	0.00265	0.00259	0.00247	13.377
	16 Acrolein	0.03749	0.03080	0.03271	0.03101	0.02929	0.03019	0.03192	9.259
	19 1,1-Dichloroethene	0.40625	0.37893	0.35996	0.34812	0.33941	0.33577	0.36141	7.463
	18 Acetone	+++++	0.04275	0.04428	0.04443	0.04445	0.04432	0.04405	1.651
	21 Iodomethane	0.47893	0.55591	0.61058	0.61760	0.63420	0.61363	0.58514	9.981
	22 Acetonitrile	0.01615	0.01602	0.01634	0.01524	0.01609	0.01551	0.01589	2.666
	27 Methylene Chloride	+++++	0.37414	0.32149	0.28137	0.27851	0.26751	0.30461	14.420
	26 tert-Butyl alcohol	0.01019	0.00874	0.00957	0.00885	0.00928	0.00912	0.00929	5.713
	28 Acrylonitrile	0.03651	0.03252	0.03335	0.03078	0.03311	0.03224	0.03308	5.756
	30 trans-1,2-Dichloroethene	0.29925	0.27289	0.25749	0.25652	0.25862	0.25223	0.26617	6.635
	34 1,1-Dichloroethane	0.51925	0.46775	0.46189	0.44496	0.43604	0.40638	0.45604	8.295
	33 Isopropyl ether	0.14982	0.13408	0.12845	0.12866	0.12606	0.12008	0.13119	7.767
	35 Chloroprene	0.43446	0.40157	0.37948	0.37734	0.37923	0.36543	0.38958	6.392
	40 cis-1,2-Dichloroethene	0.29291	0.26238	0.25976	0.25727	0.25296	0.24107	0.26106	6.628
	37 2-Butanone	0.04058	0.03640	0.03735	0.03783	0.03786	0.03900	0.03817	3.795
	41 2,2-Dichloropropane	0.49360	0.44196	0.42303	0.40138	0.41298	0.39179	0.42745	8.606
	39 Propionitrile	0.01023	0.01049	0.01035	0.01015	0.00973	0.00964	0.01010	3.378

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2004 19:05
End Cal Date : 25-MAY-2004 21:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Cal Date : 25-May-2004 21:50 reinharj
Curve Type : Average

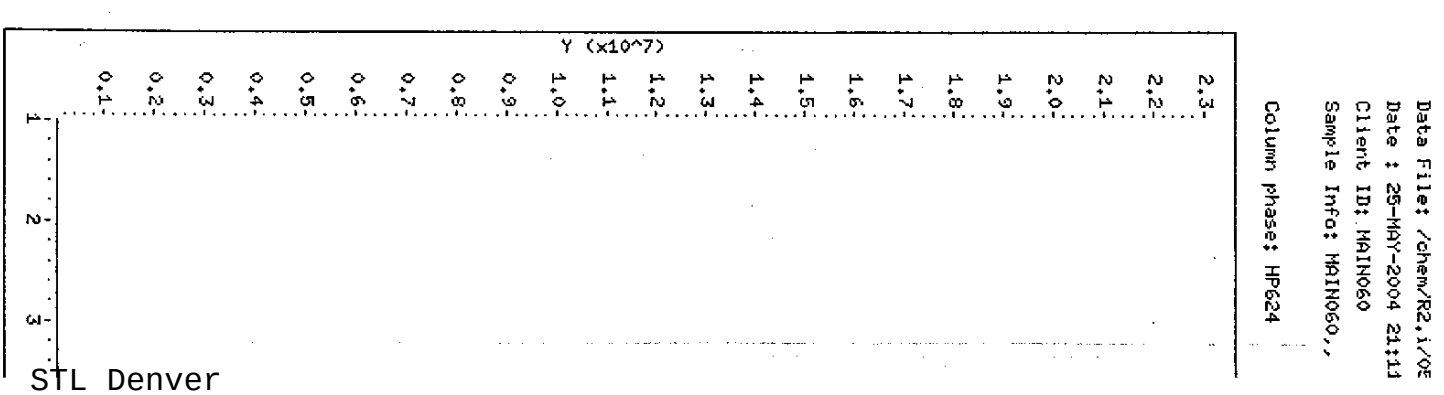
Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
42 Methacrylonitrile	0.06923	0.06201	0.06546	0.06399	0.06544	0.06315	0.06488	3.876
43 Bromochloromethane	0.11476	0.10567	0.10416	0.09983	0.10366	0.10383	0.10532	4.759
44 Chloroform	0.58029	0.51460	0.51089	0.48611	0.49260	0.49512	0.51327	6.746
47 1,1,1-Trichloroethane	0.53427	0.47852	0.49774	0.46943	0.48675	0.46604	0.48879	5.135
50 1,1-Dichloropropene	0.41830	0.38013	0.37201	0.37624	0.37250	0.35881	0.37966	5.333
51 Carbon Tetrachloride	0.46711	0.42666	0.43049	0.43296	0.43807	0.43509	0.43840	3.330
48 Isobutanol	+++++	0.00247	0.00256	0.00241	0.00247	0.00239	0.00246	2.661
54 Benzene	0.99895	0.90615	0.86865	0.86087	0.90338	0.87424	0.90204	5.651
53 1,2-Dichloroethane	0.31060	0.28481	0.29754	0.28698	0.30040	0.29349	0.29564	3.198
57 n-Butanol	+++++	0.00165	0.00164	0.00157	0.00175	0.00171	0.00166	4.309
58 Trichloroethene	0.28980	0.27931	0.27157	0.27382	0.27495	0.26122	0.27511	3.411
61 1,2-Dichloropropane	0.25440	0.23553	0.24090	0.23872	0.23982	0.22932	0.23978	3.457
64 Dibromomethane	0.16426	0.15143	0.15241	0.15123	0.14907	0.15033	0.15312	3.639
63 1,4-Dioxane	+++++	0.00089	0.00094	0.00090	0.00093	0.00095	0.00092	2.688
65 Bromodichloromethane	0.42351	0.38895	0.38886	0.37529	0.38284	0.38235	0.39030	4.365
68 cis-1,3-Dichloropropene	1.58347	1.41108	1.49791	1.49603	1.53775	1.44813	1.49573	4.111
69 4-Methyl-2-pentanone	0.43522	0.37335	0.39800	0.40352	0.41914	0.40933	0.40643	5.129
71 Toluene	4.46170	4.04606	4.06881	4.15730	4.19568	3.85866	4.13137	4.835
72 trans-1,3-Dichloropropene	1.27125	1.16298	1.26996	1.22777	1.27739	1.17410	1.23057	4.170
74 1,1,2-Trichloroethane	0.61772	0.57656	0.61620	0.60657	0.61156	0.59439	0.60383	2.614
76 1,3-Dichloropropane	1.02855	0.98293	1.01211	0.99999	1.00419	0.98443	1.00203	1.722
77 Tetrachloroethene	1.08534	1.02380	1.06073	1.04594	1.04928	0.99398	1.04318	3.009
75 2-Hexanone	0.30213	0.27174	0.29248	0.28878	0.29673	0.29167	0.29059	3.557
78 Dibromochloromethane	1.07583	0.95285	1.00811	1.02871	1.05525	1.00569	1.02107	4.220
80 1,2-Dibromoethane	0.75477	0.68464	0.72346	0.71319	0.75856	0.73082	0.72757	3.777
81 1-Chlorohexane	2.21259	1.82001	1.83852	1.87999	1.87026	1.74661	1.89466	8.593
83 Chlorobenzene	3.16225	2.92208	2.97963	2.97591	2.98794	2.87566	2.98391	3.265
84 1,1,1,2-Tetrachloroethane	1.21376	1.09479	1.08872	1.06644	1.08675	1.04625	1.09945	5.348
85 Ethylbenzene	1.75816	1.56980	1.60106	1.58248	1.58273	1.45769	1.59199	6.051
86 m and p-Xylene	2.23046	1.84173	1.99159	1.89979	1.94416	1.77368	1.94690	8.144
87 o-Xylene	2.17201	1.86295	1.96402	1.96243	1.95573	1.79148	1.95144	6.577
88 Styrene	3.44571	3.00389	3.22047	3.22920	3.26626	3.03835	3.20065	5.050
89 Bromoform	0.66093	0.60369	0.63988	0.64910	0.67104	0.65964	0.64738	3.696

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2004 19:05
End Cal Date : 25-MAY-2004 21:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Cal Date : 25-May-2004 21:50 reinharj
Curve Type : Average

	Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
90	isopropyl benzene	6.16851	5.35509	5.65716	5.65536	5.92115	5.38769	5.69083	5.491
92	Cyclohexanone	0.02444	0.02277	0.02267	0.02340	0.02061	0.02085	0.02246	6.595
94	1,1,2,2-Tetrachloroethane	0.87575	0.80929	0.85097	0.84865	0.83384	0.80830	0.83780	3.126
97	Bromobenzene	0.92770	0.89382	0.88583	0.90641	0.84153	0.80003	0.87589	5.348
96	1,2,3-Trichloropropane	0.11155	0.11826	0.11331	0.11268	0.10693	0.10305	0.11096	4.786
98	n-Propylbenzene	0.94366	0.88187	0.85502	0.89502	0.80504	0.80468	0.86421	6.275
99	2-Chlorotoluene	0.89095	0.82738	0.83318	0.82725	0.76102	0.70557	0.80756	8.017
100	1,3,5-Trimethylbenzene	3.15338	2.95559	2.87076	2.95155	2.79338	2.65771	2.89706	5.793
101	4-Chlorotoluene	0.91137	0.82277	0.81684	0.83145	0.77127	0.72638	0.81335	7.653
102	tert-Butylbenzene	2.54920	2.36555	2.32413	2.33639	2.23015	2.26058	2.34433	4.786
103	1,2,4-Trimethylbenzene	3.08227	2.86286	2.76179	2.85779	2.70572	2.62040	2.81514	5.688
104	sec-Butylbenzene	0.62573	0.60303	0.59951	0.59204	0.56944	0.57511	0.59414	3.435
106	m-Dichlorobenzene	1.68271	1.58706	1.54862	1.57736	1.48486	1.47779	1.55973	4.851
105	4-Isopropyltoluene	3.11008	2.84795	2.81956	2.88290	2.89578	2.79157	2.89131	3.941
108	p-dichlorobenzene	1.59369	1.51898	1.48451	1.49775	1.46127	1.41348	1.49495	4.038
110	n-Butylbenzene	3.11506	2.93245	2.85487	2.97099	2.99905	2.93260	2.96750	2.934
111	o-Dichlorobenzene	1.25639	1.25904	1.30666	1.31652	1.28946	1.22808	1.27603	2.653
112	1,2-Dibromo-3-chloropropane	+++++	0.07686	0.07629	0.07794	0.07840	0.07732	0.07736	1.085
113	1,2,4-Trichlorobenzene	0.69173	0.64350	0.67404	0.72043	0.73583	0.74955	0.70251	5.713
114	Hexachlorobutadiene	0.56704	0.52084	0.51436	0.51763	0.51345	0.51517	0.52475	3.981
115	Napthalene	0.62654	0.62453	0.68072	0.70664	0.77779	0.82775	0.70733	11.582
116	1,2,3-Trichlorobenzene	0.50640	0.50942	0.55114	0.56867	0.56687	0.58887	0.54856	6.144



Data File: /chem/R2.i/052504i.b/rr6217.d

Date : 25-MAY-2004 18:36

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,

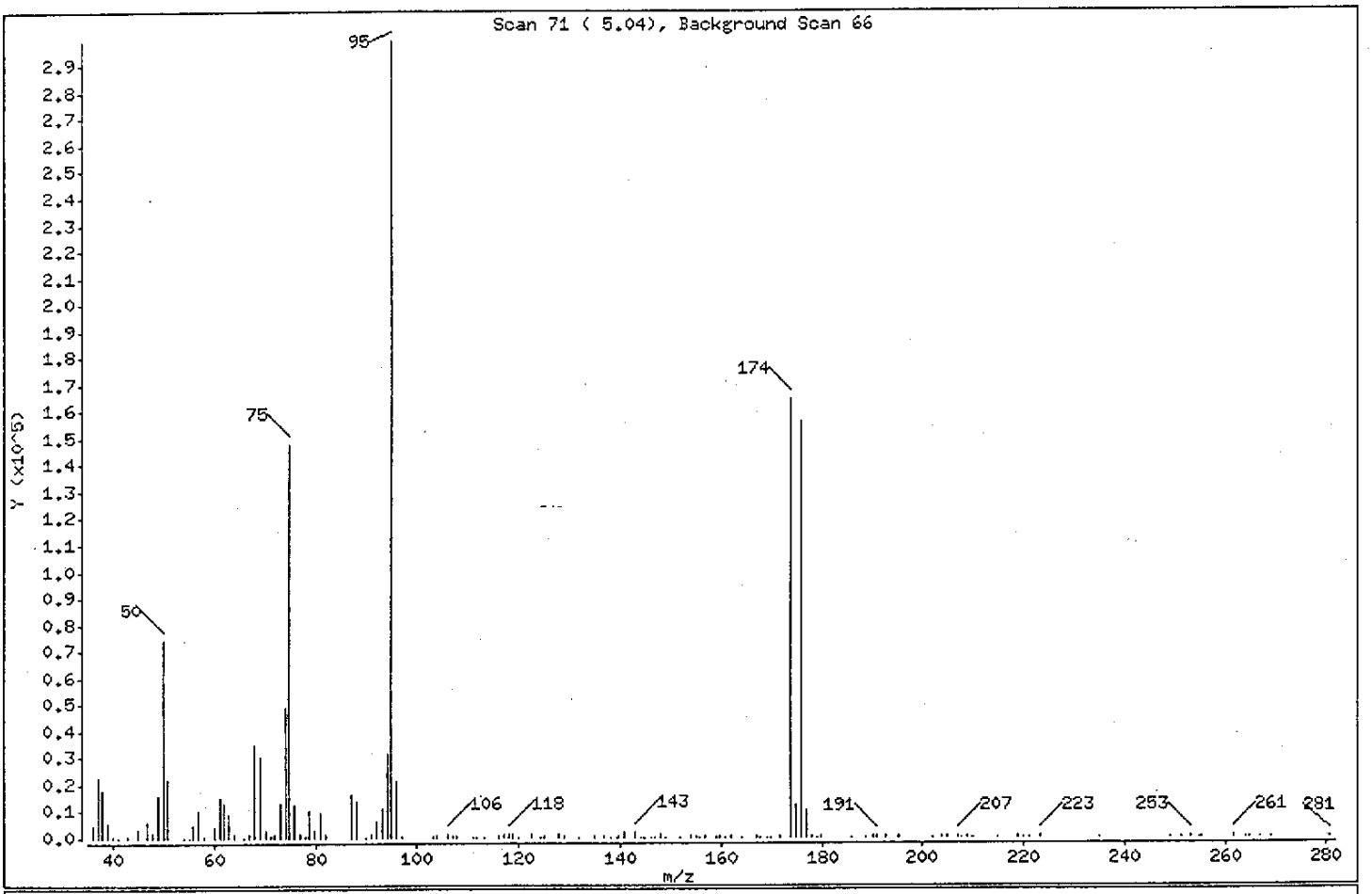
Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

Column diameter: 0.32

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	24.90
75	30.00 - 60.00% of mass 95	49.51
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	54.90
175	5.00 - 9.00% of mass 174	4.03 (7.34)
176	95.00 - 101.00% of mass 174	52.20 (95.09)
177	5.00 - 9.00% of mass 176	3.37 (6.46)

05/25

Data File: /chem/R2.i/052504i.b/rr6217.d

Date : 25-MAY-2004 18:36

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,

Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

Column diameter: 0.32

Data File: rr6217.d
Spectrum: Scan 71 (5.04), Background Scan 66
Location of Maximum: 94.95
Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	4592	76.90	1182	131.90	158	178.90	170
36.95	22912	77.90	662	134.90	870	179.80	461
37.95	17872	78.80	10360	136.90	349	186.00	57
38.95	5724	79.70	3081	138.35	306	188.90	26
39.85	705	80.80	9967	139.15	65	190.00	485
40.95	286	81.90	1576	139.75	517	190.85	661
42.95	514	86.85	16338	140.85	2023	192.85	524
45.00	3182	87.85	14050	142.85	2242	195.05	428
46.90	5986	89.85	129	143.85	275	201.85	286
47.80	1956	90.85	1235	144.75	157	203.80	367
48.90	15702	91.85	6417	145.95	247	204.90	424
49.90	74472	92.85	10992	146.85	107	206.90	904
50.90	22224	93.95	31464	147.75	1035	207.90	152
53.90	301	94.95	299136	148.85	257	208.90	374
54.90	330	95.95	21368	151.90	206	210.00	108
55.90	4962	96.85	827	154.00	444	215.00	267
56.90	10298	102.90	737	154.90	467	218.85	657
58.05	638	103.90	1030	155.70	157	219.95	311
59.95	4392	105.80	1391	156.90	469	220.85	155
60.95	15441	106.90	582	158.90	506	223.05	374
61.95	12782	107.80	696	159.80	348	234.90	251
62.85	9107	110.95	11	160.70	23	248.85	137
63.85	1473	111.75	267	161.90	378	250.95	182
65.85	296	113.15	142	163.95	188	252.85	426
66.95	1287	115.85	874	167.05	421	254.65	312
67.85	35088	116.95	1262	167.75	147	255.15	253
68.85	30064	117.95	1161	168.95	216	261.50	406
69.95	2581	118.85	1090	169.75	6	263.90	145
71.00	556	119.85	220	171.65	819	264.90	12
72.00	1351	122.55	1088	173.85	164224	266.90	142
72.90	12961	124.10	213	174.85	12053	268.90	208
73.90	48552	124.80	506	175.85	156160	280.95	6
74.90	148096	127.90	1130	176.75	10090		
75.90	12630	128.90	746	177.90	388		

Data File: /chem/R2.i/052504i.b/rr6217.d

Date : 25-MAY-2004 18:36

Client ID: BFB

Instrument: R2.i

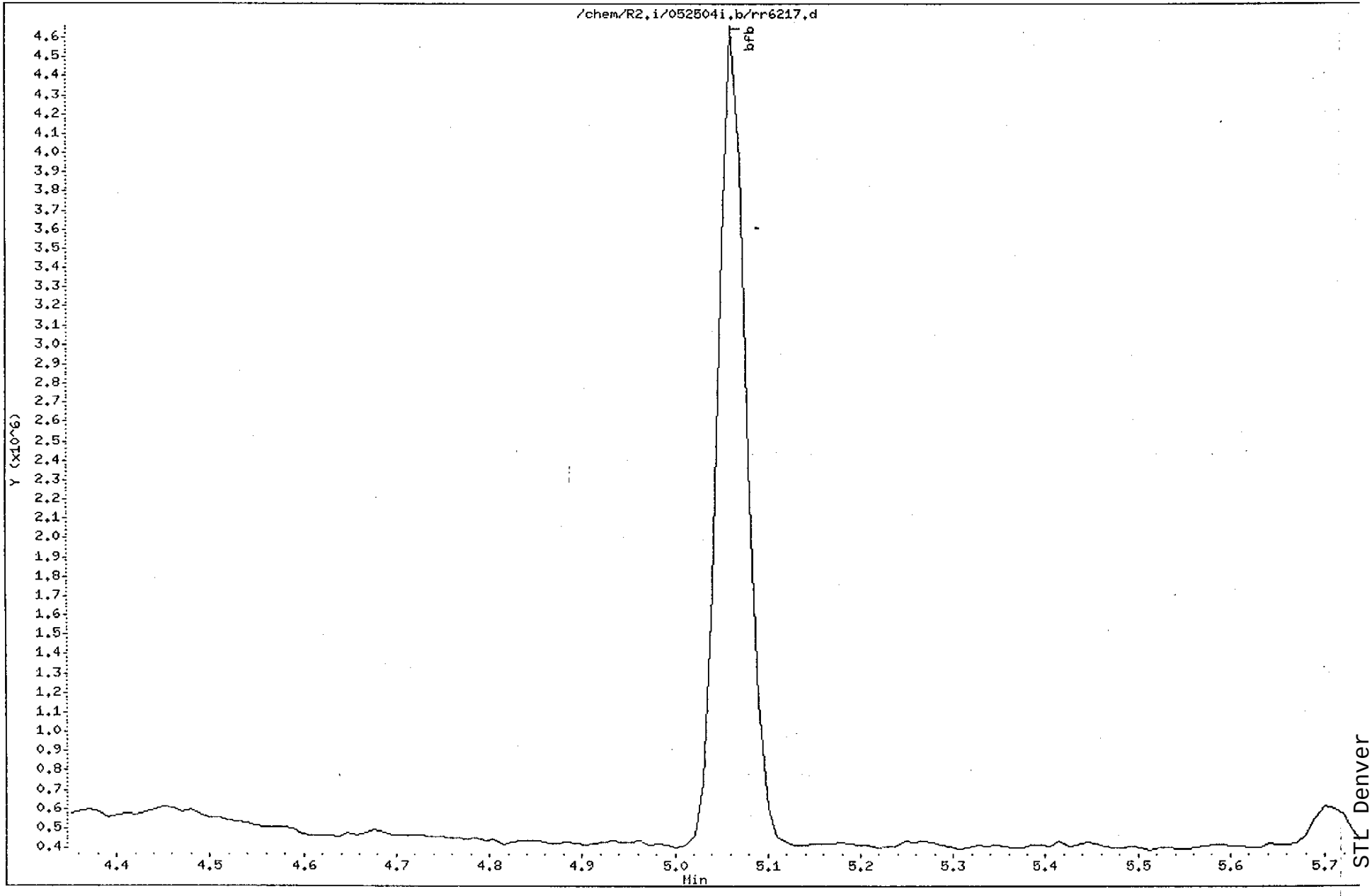
Sample Info: BFB,,

Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6218.d
Lab Smp Id: MAIN001 Client Smp ID: MAIN001
Inj Date : 25-MAY-2004 19:05
Operator : reinharj Inst ID: R2.i
Smp Info : MAIN001,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:50 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 19:05 Cal File: rr6218.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
* 56	Fluorobenzene	96	8.643	8.634	(1.000)	1019472	10.0000		
* 82	Chlorobenzene-d5	119	11.574	11.575	(1.000)	285082	10.0000		
* 107	1,4-Dichlorobenzene-d4	152	14.181	14.182	(1.000)	457994	10.0000		
M 1	1,2-Dichloroethene (total)	96				60369	2.00000	2.00000	
M 2	Xylene (total)	106				189093	1.00000	3.00000	
3	dichlorodifluoromethane	85	4.354	4.355	(0.504)	104279	1.00000		(a)
5	Chloromethane	50	4.659	4.660	(0.539)	55251	1.00000		(a)
6	Vinyl Chloride	62	4.846	4.847	(0.561)	47693	1.00000	1.00000	(a)
8	Bromomethane	94	5.436	5.427	(0.629)	62652	1.00000	1.00000	(a)
9	Chloroethane	64	5.574	5.565	(0.645)	67642	1.00000	1.00000	(a)
11	Trichlorofluoromethane	101	5.938	5.929	(0.687)	114132	1.00000	1.00000	(a)
12	Ethanol	45	6.026	5.998	(0.697)	13202	50.0000		(a)
16	Acrolein	56	6.341	6.332	(0.734)	38222	10.0000	10.0000	(a)
19	1,1-Dichloroethene	96	6.479	6.480	(0.750)	41416	1.00000	1.00000	
18	Acetone	43	6.459	6.450	(0.747)	22989	4.00000		(a)
21	Iodomethane	142	6.646	6.647	(0.769)	48826	1.00000	1.00000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
22 Acetonitrile	41	6.685	6.676	(0.773)	16462	10.0000	10.0000	(a)
27 Methylene Chloride	84	6.843	6.834	(0.792)	51021	1.00000		(a)
26 tert-Butyl alcohol	59	6.823	6.814	(0.789)	20776	20.0000	20.0000	(a)
28 Acrylonitrile	53	6.980	6.981	(0.808)	37216	10.0000	10.0000	(a)
30 trans-1,2-Dichloroethene	96	7.049	7.050	(0.816)	30508	1.00000	1.00000	
34 1,1-Dichloroethane	63	7.335	7.335	(0.849)	52936	1.00000	1.00000	
33 Isopropyl ether	87	7.325	7.326	(0.847)	76370	5.00000	5.00000	(a)
35 Chloroprene	53	7.403	7.404	(0.857)	44292	1.00000	1.00000	
40 cis-1,2-Dichloroethene	96	7.738	7.739	(0.895)	29861	1.00000	1.00000	
37 2-Butanone	43	7.699	7.689	(0.891)	16547	4.00000	4.00000	(a)
41 2,2-Dichloropropane	77	7.758	7.758	(0.898)	50321	1.00000	1.00000	(a)
39 Propionitrile	54	7.738	7.729	(0.895)	10425	10.0000	10.0000	
42 Methacrylonitrile	41	7.866	7.857	(0.910)	70583	10.0000	10.0000	
43 Bromochloromethane	128	7.925	7.926	(0.917)	11699	1.00000	1.00000	
44 Chloroform	83	7.944	7.945	(0.919)	59159	1.00000	1.00000	
47 1,1,1-Trichloroethane	97	8.151	8.152	(0.943)	54467	1.00000	1.00000	
50 1,1-Dichloropropene	75	8.269	8.270	(0.957)	42645	1.00000	1.00000	
51 Carbon Tetrachloride	117	8.299	8.299	(0.960)	47621	1.00000	1.00000	
48 Isobutanol	41	8.181	8.171	(0.947)	4624	20.0000		(a)
54 Benzene	78	8.446	8.447	(0.977)	101840	1.00000	1.00000	
53 1,2-Dichloroethane	62	8.426	8.417	(0.975)	31665	1.00000	1.00000	
57 n-Butanol	56	8.722	8.703	(1.009)	3664	20.0000		(a)
58 Trichloroethene	130	8.958	8.958	(1.036)	29544	1.00000	1.00000	
61 1,2-Dichloropropane	63	9.154	9.155	(1.059)	25935	1.00000	1.00000	
64 Dibromomethane	93	9.272	9.263	(1.073)	16746	1.00000	1.00000	
63 1,4-Dioxane	88	9.233	9.224	(1.068)	4109	50.0000		(a)
65 Bromodichloromethane	83	9.371	9.362	(1.084)	43176	1.00000	1.00000	
68 cis-1,3-Dichloropropene	75	9.774	9.775	(0.844)	45142	1.00000	1.00000	
69 4-Methyl-2-pentanone	43	9.863	9.863	(0.852)	49629	4.00000	4.00000	(a)
71 Toluene	91	10.148	10.149	(0.877)	127195	1.00000	1.00000	
72 trans-1,3-Dichloropropene	75	10.295	10.286	(0.889)	36241	1.00000	1.00000	
74 1,1,2-Trichloroethane	97	10.502	10.503	(0.907)	17610	1.00000	1.00000	
76 1,3-Dichloropropane	76	10.689	10.690	(0.923)	29322	1.00000	1.00000	
77 Tetrachloroethene	164	10.728	10.729	(0.927)	30941	1.00000	1.00000	
75 2-Hexanone	43	10.689	10.680	(0.923)	34453	4.00000	4.00000	(a)
78 Dibromochloromethane	129	10.945	10.945	(0.946)	30670	1.00000	1.00000	
80 1,2-Dibromoethane	107	11.112	11.113	(0.960)	21517	1.00000	1.00000	
81 1-Chlorohexane	91	11.495	11.496	(0.993)	63077	1.00000	1.00000	
83 Chlorobenzene	112	11.613	11.604	(1.003)	90150	1.00000	1.00000	
84 1,1,1,2-Tetrachloroethane	131	11.663	11.663	(1.008)	34602	1.00000	1.00000	
85 Ethylbenzene	106	11.682	11.683	(1.009)	50122	1.00000	1.00000	
86 m and p-Xylene	106	11.800	11.801	(1.020)	127173	2.00000	2.00000	
87 o-Xylene	106	12.243	12.234	(1.058)	61920	1.00000	1.00000	
88 Styrene	104	12.243	12.234	(1.058)	98231	1.00000	1.00000	
89 Bromoform	173	12.479	12.480	(1.078)	18842	1.00000	1.00000	
90 isopropyl benzene	105	12.617	12.608	(1.090)	175853	1.00000	1.00000	
92 Cyclohexanone	55	12.745	12.736	(1.101)	27873	40.0000	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
94	1,1,2,2-Tetrachloroethane	83	12.892	12.893	(1.114)	24966	1.00000	1.00000	
97	Bromobenzene	156	13.020	13.021	(0.918)	42488	1.00000	1.00000	
96	1,2,3-Trichloropropane	110	12.971	12.972	(0.915)	5109	1.00000	1.00000	
98	n-Propylbenzene	120	13.069	13.060	(0.922)	43219	1.00000	1.00000	
99	2-Chlorotoluene	126	13.217	13.208	(0.932)	40805	1.00000	1.00000	
100	1,3,5-Trimethylbenzene	105	13.246	13.237	(0.934)	144423	1.00000	1.00000	
101	4-Chlorotoluene	126	13.325	13.326	(0.940)	41740	1.00000	1.00000	
102	tert-Butylbenzene	119	13.650	13.650	(0.963)	116752	1.00000	1.00000	
103	1,2,4-Trimethylbenzene	105	13.699	13.700	(0.966)	141166	1.00000	1.00000	
104	sec-Butylbenzene	134	13.915	13.916	(0.981)	28658	1.00000	1.00000	
106	m-Dichlorobenzene	146	14.112	14.113	(0.995)	77067	1.00000	1.00000	
105	4-Isopropyltoluene	119	14.063	14.064	(0.992)	142440	1.00000	1.00000	
108	p-dichlorobenzene	146	14.210	14.211	(1.002)	72990	1.00000	1.00000	
110	n-Butylbenzene	91	14.594	14.585	(1.029)	142668	1.00000	1.00000	
111	o-Dichlorobenzene	146	14.722	14.713	(1.038)	57542	1.00000	1.00000	
112	1,2-Dibromo-3-chloropropane	157	15.794	15.795	(1.114)	3348	1.00000		(a)
113	1,2,4-Trichlorobenzene	180	17.250	17.231	(1.216)	31681	1.00000	1.00000	
114	Hexachlorobutadiene	225	17.525	17.526	(1.236)	25970	1.00000	1.00000	
115	Napthalene	128	17.761	17.752	(1.252)	28695	1.00000	1.00000	
116	1,2,3-Trichlorobenzene	180	18.263	18.254	(1.288)	23193	1.00000	1.00000	

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6218.d
Lab Smp Id: MAIN001
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: MAIN001
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1019472	-13.69
82 Chlorobenzene-d5	309128	154564	618256	285082	-7.78
107 1,4-Dichlorobenze	483986	241993	967972	457994	-5.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.06
82 Chlorobenzene-d5	11.58	11.08	12.08	11.57	-0.04
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.03

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

Data File: /chem/R2.i/052504i.b/rr6218.d

Page 5

Date : 25-MAY-2004 19:05

Client ID: MAIN001

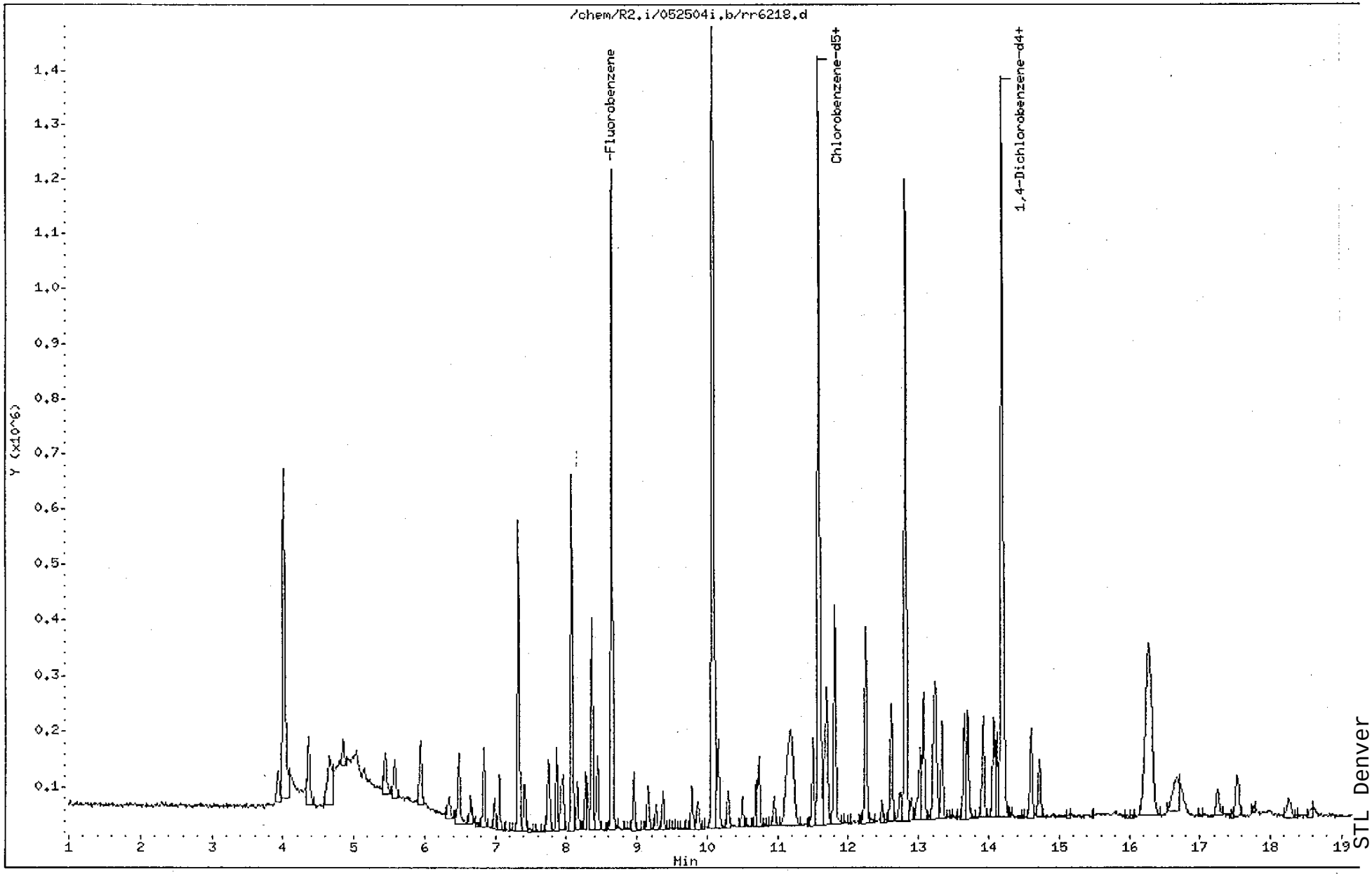
Instrument: R2.i

Sample Info: MAIN001,,

Operator: reinharj

Column phase: HP624

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6219.d
Lab Smp Id: MAIN002 Client Smp ID: MAIN002
Inj Date : 25-MAY-2004 19:31
Operator : reinharj Inst ID: R2.i
Smp Info : MAIN002,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:50 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 19:31 Cal File: rr6219.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.639	8.634	(1.000)	1153933	10.0000	
* 82	Chlorobenzene-d5	119	11.581	11.575	(1.000)	320298	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.187	14.182	(1.000)	470227	10.0000	
M 1	1,2-Dichloroethene (total)	96				123532	4.00000	3.79788
M 2	Xylene (total)	106				355301	2.00000	5.46497
3	dichlorodifluoromethane	85	4.361	4.355	(0.505)	221399	2.00000	2.00000
5	Chloromethane	50	4.666	4.660	(0.540)	113149	2.00000	2.00000
6	Vinyl Chloride	62	4.852	4.847	(0.562)	102234	2.00000	1.94545(a)
8	Bromomethane	94	5.443	5.427	(0.630)	126294	2.00000	1.88411(a)
9	Chloroethane	64	5.580	5.565	(0.646)	139919	2.00000	1.90986(a)
11	Trichlorofluoromethane	101	5.934	5.929	(0.687)	246764	2.00000	1.95405(a)
12	Ethanol	45	6.013	5.998	(0.696)	20839	100.000	100.000(a)
16	Acrolein	56	6.338	6.332	(0.734)	71089	20.0000	18.0411(a)
19	1,1-Dichloroethene	96	6.485	6.480	(0.751)	87453	2.00000	1.93042
18	Acetone	43	6.466	6.450	(0.748)	39466	8.00000	8.00000(a)
21	Iodomethane	142	6.653	6.647	(0.770)	128296	2.00000	2.14876

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
22 Acetonitrile	41	6.682	6.676	(0.773)	36981	20.0000	19.9231(a)
27 Methylene Chloride	84	6.839	6.834	(0.792)	86347	2.00000	2.00000
26 tert-Butyl alcohol	59	6.820	6.814	(0.789)	40354	40.0000	36.9430(a)
28 Acrylonitrile	53	6.977	6.981	(0.808)	75061	20.0000	18.8465(a)
30 trans-1,2-Dichloroethene	96	7.056	7.050	(0.817)	62979	2.00000	1.90784
34 1,1-Dichloroethane	63	7.341	7.335	(0.850)	107950	2.00000	1.89564
33 Isopropyl ether	87	7.331	7.326	(0.849)	154714	10.0000	9.44532(a)
35 Chloroprene	53	7.410	7.404	(0.858)	92677	2.00000	1.92132
40 cis-1,2-Dichloroethene	96	7.744	7.739	(0.896)	60553	2.00000	1.89004
37 2-Butanone	43	7.695	7.689	(0.891)	33606	8.00000	7.56627
41 2,2-Dichloropropane	77	7.764	7.758	(0.899)	101998	2.00000	1.88960(a)
39 Propionitrile	54	7.735	7.729	(0.895)	24198	20.0000	20.2502
42 Methacrylonitrile	41	7.862	7.857	(0.910)	143112	20.0000	18.8991
43 Bromochloromethane	128	7.921	7.926	(0.917)	24387	2.00000	1.91756
44 Chloroform	83	7.951	7.945	(0.920)	118762	2.00000	1.88000
47 1,1,1-Trichloroethane	97	8.148	8.152	(0.943)	110437	2.00000	1.88992
50 1,1-Dichloropropene	75	8.266	8.270	(0.957)	87728	2.00000	1.90436
51 Carbon Tetrachloride	117	8.295	8.299	(0.960)	98467	2.00000	1.90947
48 Isobutanol	41	8.177	8.171	(0.946)	11410	40.0000	40.0000(a)
54 Benzene	78	8.443	8.447	(0.977)	209127	2.00000	1.90258
53 1,2-Dichloroethane	62	8.423	8.417	(0.975)	65731	2.00000	1.91337
57 n-Butanol	56	8.718	8.703	(1.009)	7617	40.0000	40.0000(a)
58 Trichloroethene	130	8.954	8.958	(1.036)	64461	2.00000	1.96314
61 1,2-Dichloropropane	63	9.151	9.155	(1.059)	54357	2.00000	1.92298
64 Dibromomethane	93	9.269	9.263	(1.073)	34947	2.00000	1.91868
63 1,4-Dioxane	88	9.230	9.224	(1.068)	10242	100.000	100.000(a)
65 Bromodichloromethane	83	9.367	9.362	(1.084)	89764	2.00000	1.91491
68 cis-1,3-Dichloropropene	75	9.781	9.775	(0.845)	90393	2.00000	1.88486
69 4-Methyl-2-pentanone	43	9.869	9.863	(0.852)	95667	8.00000	7.38790
71 Toluene	91	10.154	10.149	(0.877)	259189	2.00000	1.90229
72 trans-1,3-Dichloropropene	75	10.292	10.286	(0.889)	74500	2.00000	1.91104
74 1,1,2-Trichloroethane	97	10.499	10.503	(0.907)	36934	2.00000	1.93107
76 1,3-Dichloropropane	76	10.685	10.690	(0.923)	62966	2.00000	1.95464
77 Tetrachloroethene	164	10.735	10.729	(0.927)	65584	2.00000	1.94164
75 2-Hexanone	43	10.685	10.680	(0.923)	69630	8.00000	7.57631
78 Dibromochloromethane	129	10.951	10.945	(0.946)	61039	2.00000	1.87875
80 1,2-Dibromoethane	107	11.108	11.113	(0.959)	43858	2.00000	1.90257
81 1-Chlorohexane	91	11.502	11.496	(0.993)	116589	2.00000	1.80530
83 Chlorobenzene	112	11.610	11.604	(1.003)	187187	2.00000	1.92105
84 1,1,1,2-Tetrachloroethane	131	11.669	11.663	(1.008)	70132	2.00000	1.89694
85 Ethylbenzene	106	11.689	11.683	(1.009)	100561	2.00000	1.88680
86 m and p-Xylene	106	11.807	11.801	(1.020)	235961	4.00000	3.61816
87 o-Xylene	106	12.240	12.234	(1.057)	119340	2.00000	1.84681
88 Styrene	104	12.240	12.234	(1.057)	192428	2.00000	1.86299
89 Bromoform	173	12.486	12.480	(1.078)	38672	2.00000	1.90947
90 isopropyl benzene	105	12.613	12.608	(1.089)	343045	2.00000	1.85883
92 Cyclohexanone	55	12.741	12.736	(1.100)	58344	80.0000	77.1642

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94	1,1,2,2-Tetrachloroethane	83	12.889	12.893	(1.113)	51843	2.00000	1.92112
97	Bromobenzene	156	13.017	13.021	(0.917)	84060	2.00000	1.96281
96	1,2,3-Trichloropropane	110	12.977	12.972	(0.915)	11122	2.00000	2.05840
98	n-Propylbenzene	120	13.066	13.060	(0.921)	82936	2.00000	1.93231
99	2-Chlorotoluene	126	13.213	13.208	(0.931)	77811	2.00000	1.92600
100	1,3,5-Trimethylbenzene	105	13.243	13.237	(0.933)	277960	2.00000	1.93525
101	4-Chlorotoluene	126	13.331	13.326	(0.940)	77378	2.00000	1.89782
102	tert-Butylbenzene	119	13.656	13.650	(0.963)	222469	2.00000	1.92526
103	1,2,4-Trimethylbenzene	105	13.705	13.700	(0.966)	269239	2.00000	1.92619
104	sec-Butylbenzene	134	13.922	13.916	(0.981)	56712	2.00000	1.96305
106	m-Dichlorobenzene	146	14.109	14.113	(0.994)	149256	2.00000	1.94150
105	4-Isopropyltoluene	119	14.069	14.064	(0.992)	267837	2.00000	1.91201
108	p-dichlorobenzene	146	14.217	14.211	(1.002)	142853	2.00000	1.95200
110	n-Butylbenzene	91	14.591	14.585	(1.028)	275783	2.00000	1.93960
111	o-Dichlorobenzene	146	14.718	14.713	(1.037)	118407	2.00000	2.00211
112	1,2-Dibromo-3-chloropropane	157	15.791	15.795	(1.113)	7228	2.00000	2.00000
113	1,2,4-Trichlorobenzene	180	17.246	17.231	(1.216)	60518	2.00000	1.92775
114	Hexachlorobutadiene	225	17.532	17.526	(1.236)	48983	2.00000	1.91508
115	Napthalene	128	17.758	17.752	(1.252)	58734	2.00000	1.99679
116	1,2,3-Trichlorobenzene	180	18.260	18.254	(1.287)	47909	2.00000	2.00595

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6219.d
Lab Smp Id: MAIN002
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: MAIN002
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1153933	-2.30
82 Chlorobenzene-d5	309128	154564	618256	320298	3.61
107 1,4-Dichlorobenze	483986	241993	967972	470227	-2.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.02
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.01
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.19	0.08

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

Data File: /chem/R2.i/052504i.b/rr6219.d

Page 5

Date : 25-MAY-2004 19:31

Client ID: MAIN002

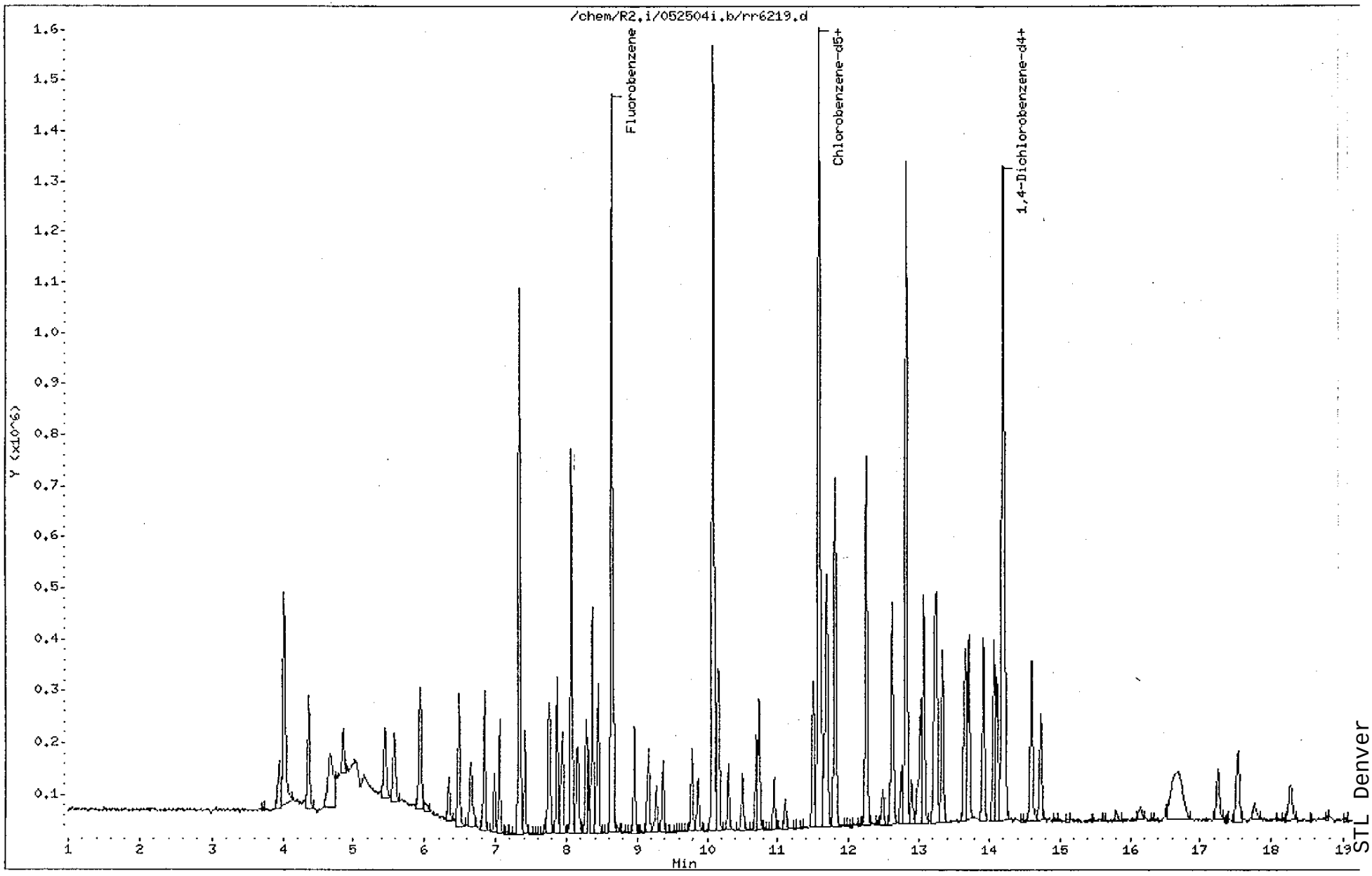
Instrument: R2.i

Sample Info: MAIN002,,

Operator: reinharj

Column phase: HP624

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6220.d
Lab Smp Id: MAIN005 Client Smp ID: MAIN005
Inj Date : 25-MAY-2004 19:56
Operator : reinharj Inst ID: R2.i
Smp Info : MAIN005,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:50 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 19:56 Cal File: rr6220.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.644	8.634	(1.000)	1144667	10.0000	
* 82	Chlorobenzene-d5	119	11.576	11.575	(1.000)	304228	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.182	14.182	(1.000)	477071	10.0000	
M 1	1,2-Dichloroethene (total)	96				296041	10.0000	9.43614
M 2	Xylene (total)	106				904652	5.00000	14.7641
3	dichlorodifluoromethane	85	4.356	4.355	(0.504)	528233	5.00000	4.90337
5	Chloromethane	50	4.660	4.660	(0.539)	254541	5.00000	4.75651
6	Vinyl Chloride	62	4.847	4.847	(0.561)	230610	5.00000	4.60059
8	Bromomethane	94	5.447	5.427	(0.630)	289885	5.00000	4.55405
9	Chloroethane	64	5.585	5.565	(0.646)	330183	5.00000	4.68604
11	Trichlorofluoromethane	101	5.939	5.929	(0.687)	573901	5.00000	4.71287
12	Ethanol	45	6.018	5.998	(0.696)	76624	250.000	298.605
16	Acrolein	56	6.343	6.332	(0.734)	187208	50.0000	48.5765
19	1,1-Dichloroethene	96	6.490	6.480	(0.751)	206015	5.00000	4.71501
18	Acetone	43	6.461	6.450	(0.747)	101368	20.0000	20.3508
21	Iodomethane	142	6.647	6.647	(0.769)	349453	5.00000	5.56615

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
22 Acetonitrile	41	6.687	6.676	(0.774)	93503	50.0000	50.5183
27 Methylene Chloride	84	6.844	6.834	(0.792)	184001	5.00000	4.62157
26 tert-Butyl alcohol	59	6.824	6.814	(0.789)	109499	100.000	100.701
28 Acrylonitrile	53	6.982	6.981	(0.808)	190854	50.0000	48.8592
30 trans-1,2-Dichloroethene	96	7.051	7.050	(0.816)	147370	5.00000	4.65550
34 1,1-Dichloroethane	63	7.336	7.335	(0.849)	264355	5.00000	4.78184
33 Isopropyl ether	87	7.326	7.326	(0.848)	367587	25.0000	23.3634
35 Chloroprene	53	7.415	7.404	(0.858)	217189	5.00000	4.68297
40 cis-1,2-Dichloroethene	96	7.739	7.739	(0.895)	148671	5.00000	4.78064
37 2-Butanone	43	7.700	7.689	(0.891)	85497	20.0000	19.5995
41 2,2-Dichloropropane	77	7.759	7.758	(0.898)	242112	5.00000	4.67060(a)
39 Propionitrile	54	7.739	7.729	(0.895)	59237	50.0000	49.9827
42 Methacrylonitrile	41	7.867	7.857	(0.910)	374630	50.0000	49.9156
43 Bromochloromethane	128	7.926	7.926	(0.917)	59616	5.00000	4.81363
44 Chloroform	83	7.946	7.945	(0.919)	292397	5.00000	4.77233
47 1,1,1-Trichloroethane	97	8.152	8.152	(0.943)	284873	5.00000	4.94270
50 1,1-Dichloropropene	75	8.270	8.270	(0.957)	212911	5.00000	4.76752
51 Carbon Tetrachloride	117	8.300	8.299	(0.960)	246383	5.00000	4.87617
48 Isobutanol	41	8.172	8.171	(0.945)	29273	100.000	101.697
54 Benzene	78	8.448	8.447	(0.977)	497155	5.00000	4.69751
53 1,2-Dichloroethane	62	8.418	8.417	(0.974)	170293	5.00000	4.99814
57 n-Butanol	56	8.713	8.703	(1.008)	18750	100.000	99.6291
58 Trichloroethene	130	8.959	8.958	(1.036)	155429	5.00000	4.84557
61 1,2-Dichloropropane	63	9.156	9.155	(1.059)	137874	5.00000	4.94438
64 Dibromomethane	93	9.264	9.263	(1.072)	87231	5.00000	4.88398
63 1,4-Dioxane	88	9.234	9.224	(1.068)	26825	250.000	256.824
65 Bromodichloromethane	83	9.372	9.362	(1.084)	222555	5.00000	4.85536
68 cis-1,3-Dichloropropene	75	9.775	9.775	(0.844)	227853	5.00000	5.00141
69 4-Methyl-2-pentanone	43	9.864	9.863	(0.852)	242164	20.0000	19.7916
71 Toluene	91	10.149	10.149	(0.877)	618923	5.00000	4.85284
72 trans-1,3-Dichloropropene	75	10.287	10.286	(0.889)	193178	5.00000	5.14265
74 1,1,2-Trichloroethane	97	10.503	10.503	(0.907)	93733	5.00000	5.10531
76 1,3-Dichloropropane	76	10.690	10.690	(0.924)	153956	5.00000	5.02107
77 Tetrachloroethene	164	10.730	10.729	(0.927)	161352	5.00000	5.01944
75 2-Hexanone	43	10.690	10.680	(0.924)	177960	20.0000	20.2559
78 Dibromochloromethane	129	10.946	10.945	(0.946)	153348	5.00000	4.97950
80 1,2-Dibromoethane	107	11.113	11.113	(0.960)	110049	5.00000	5.01738
81 1-Chlorohexane	91	11.497	11.496	(0.993)	279664	5.00000	4.69719
83 Chlorobenzene	112	11.615	11.604	(1.003)	453244	5.00000	4.93101
84 1,1,1,2-Tetrachloroethane	131	11.664	11.663	(1.008)	165610	5.00000	4.80705
85 Ethylbenzene	106	11.684	11.683	(1.009)	243544	5.00000	4.87235
86 m and p-Xylene	106	11.802	11.801	(1.020)	605897	10.0000	9.85320
87 o-Xylene	106	12.235	12.234	(1.057)	298755	5.00000	4.91089
88 Styrene	104	12.244	12.234	(1.058)	489878	5.00000	4.99552
89 Bromoform	173	12.480	12.480	(1.078)	97335	5.00000	5.03976
90 isopropyl benzene	105	12.618	12.608	(1.090)	860533	5.00000	4.93909
92 Cyclohexanone	55	12.736	12.736	(1.100)	137911	200.000	194.616

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94	1,1,2,2-Tetrachloroethane	83	12.894	12.893	(1.114)	129445	5.00000	5.03333
97	Bromobenzene	156	13.021	13.021	(0.918)	211302	5.00000	4.90792
96	1,2,3-Trichloropropane	110	12.982	12.972	(0.915)	27029	5.00000	4.95353
98	n-Propylbenzene	120	13.071	13.060	(0.922)	203953	5.00000	4.78458
99	2-Chlorotoluene	126	13.218	13.208	(0.932)	198743	5.00000	4.89816
100	1,3,5-Trimethylbenzene	105	13.248	13.237	(0.934)	684779	5.00000	4.79540
101	4-Chlorotoluene	126	13.326	13.326	(0.940)	194845	5.00000	4.80309
102	tert-Butylbenzene	119	13.651	13.650	(0.963)	554387	5.00000	4.81593
103	1,2,4-Trimethylbenzene	105	13.700	13.700	(0.966)	658784	5.00000	4.75792
104	sec-Butylbenzene	134	13.917	13.916	(0.981)	143004	5.00000	4.91866
106	m-Dichlorobenzene	146	14.113	14.113	(0.995)	369401	5.00000	4.82097
105	4-Isopropyltoluene	119	14.064	14.064	(0.992)	672565	5.00000	4.81833
108	p-dichlorobenzene	146	14.212	14.211	(1.002)	354108	5.00000	4.84376
110	n-Butylbenzene	91	14.595	14.585	(1.029)	680987	5.00000	4.81029
111	o-Dichlorobenzene	146	14.723	14.713	(1.038)	311685	5.00000	5.12806
112	1,2-Dibromo-3-chloropropane	157	15.805	15.795	(1.114)	18197	5.00000	4.98138
113	1,2,4-Trichlorobenzene	180	17.241	17.231	(1.216)	160783	5.00000	5.03198
114	Hexachlorobutadiene	225	17.527	17.526	(1.236)	122692	5.00000	4.81535
115	Napthalene	128	17.763	17.752	(1.252)	162375	5.00000	5.28566
116	1,2,3-Trichlorobenzene	180	18.254	18.254	(1.287)	131467	5.00000	5.27587

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6220.d
Lab Smp Id: MAIN005
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: MAIN005
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1144667	-3.09
82 Chlorobenzene-d5	309128	154564	618256	304228	-1.59
107 1,4-Dichlorobenze	483986	241993	967972	477071	-1.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.07
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	-0.03
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.04

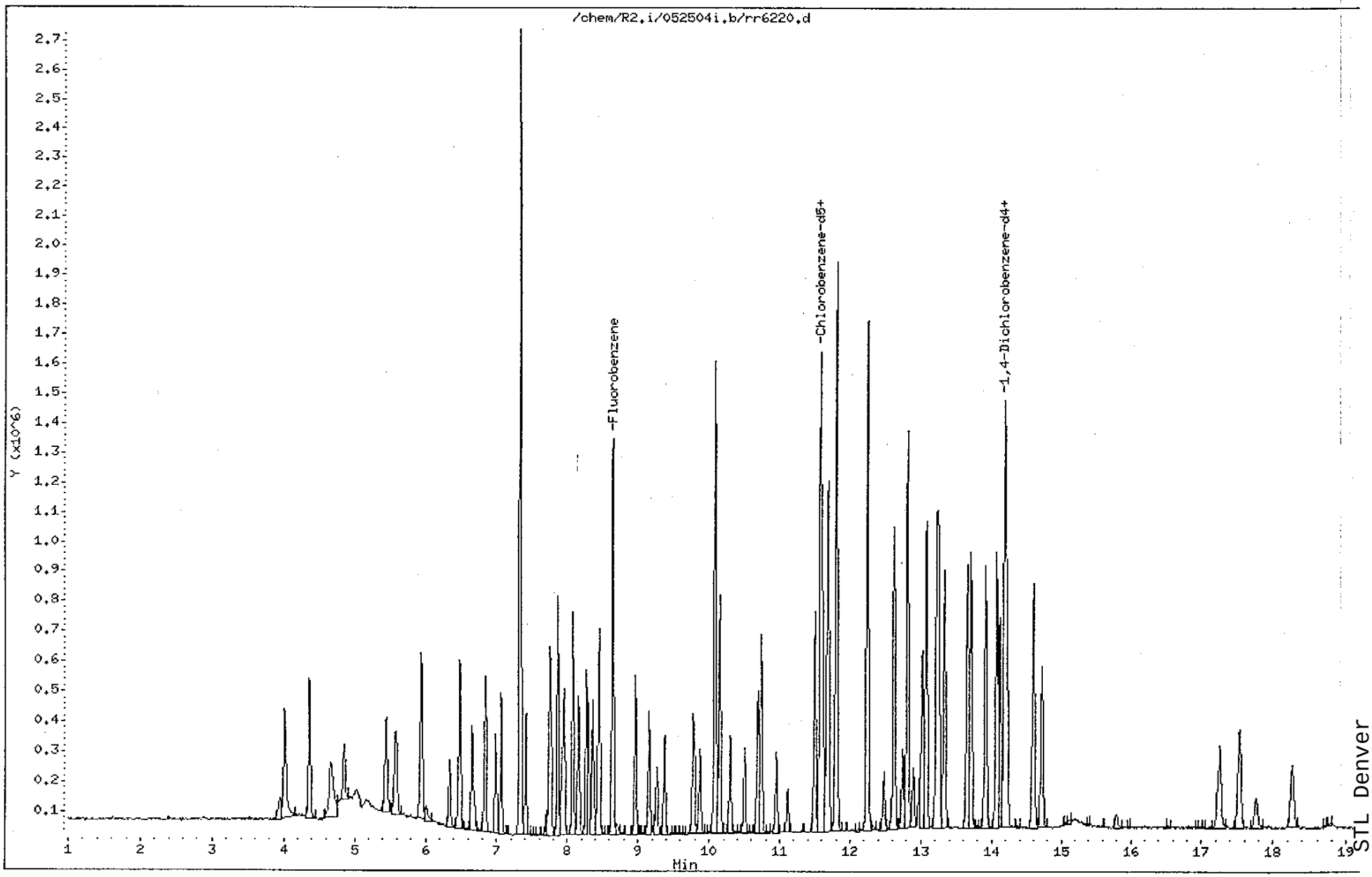
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/R2.i/052504i.b/rr6220.d
Date : 25-MAY-2004 19:56
Client ID: MAIN005
Sample Info: MAIN005,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj
Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6221.d
Lab Smp Id: MAIN010 Client Smp ID: MAIN010
Inj Date : 25-MAY-2004 20:21
Operator : reinharj Inst ID: R2.i
Smp Info : MAIN010,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:50 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 20:21 Cal File: rr6221.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.638	8.634	(1.000)	1181127	10.0000	
* 82	Chlorobenzene-d5	119	11.579	11.575	(1.000)	309128	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.176	14.182	(1.000)	483986	10.0000	
M 1	1,2-Dichloroethene (total)	96				606854	20.0000	19.0438
M 2	Xylene (total)	106				1781199	10.0000	28.9445
3	dichlorodifluoromethane	85	4.359	4.355	(0.505)	1070593	10.0000	9.75100
5	Chloromethane	50	4.664	4.660	(0.540)	508290	10.0000	9.45559
6	Vinyl Chloride	62	4.851	4.847	(0.562)	475526	10.0000	9.38287
8	Bromomethane	94	5.441	5.427	(0.630)	635924	10.0000	9.75950
9	Chloroethane	64	5.579	5.565	(0.646)	681663	10.0000	9.52435
11	Trichlorofluoromethane	101	5.943	5.929	(0.688)	1178399	10.0000	9.52635
12	Ethanol	45	6.012	5.998	(0.696)	146577	500.000	534.489
16	Acrolein	56	6.336	6.332	(0.734)	366299	100.000	93.9656
19	1,1-Dichloroethene	96	6.484	6.480	(0.751)	411179	10.0000	9.32519
18	Acetone	43	6.454	6.450	(0.747)	209903	40.0000	40.5559
21	Iodomethane	142	6.651	6.647	(0.770)	729464	10.0000	10.9164

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
22 Acetonitrile	41	6.681	6.676	(0.773)	179955	100.000	95.6059
27 Methylene Chloride	84	6.838	6.834	(0.792)	332339	10.0000	8.63987
26 tert-Butyl alcohol	59	6.818	6.814	(0.789)	209055	200.000	189.564
28 Acrylonitrile	53	6.976	6.981	(0.808)	363497	100.000	92.4526
30 trans-1,2-Dichloroethene	96	7.054	7.050	(0.817)	302981	10.0000	9.44690
34 1,1-Dichloroethane	63	7.340	7.335	(0.850)	525556	10.0000	9.39804
33 Isopropyl ether	87	7.330	7.326	(0.849)	759794	50.0000	47.5617
35 Chloroprene	53	7.409	7.404	(0.858)	445681	10.0000	9.47576
40 cis-1,2-Dichloroethene	96	7.743	7.739	(0.896)	303873	10.0000	9.59690
37 2-Butanone	43	7.694	7.689	(0.891)	178721	40.0000	39.7788
41 2,2-Dichloropropane	77	7.763	7.758	(0.899)	474075	10.0000	9.12238
39 Propionitrile	54	7.733	7.729	(0.895)	119875	100.000	98.5116
42 Methacrylonitrile	41	7.861	7.857	(0.910)	755853	100.000	98.1897
43 Bromochloromethane	128	7.930	7.926	(0.918)	117912	10.0000	9.40866
44 Chloroform	83	7.950	7.945	(0.920)	574152	10.0000	9.29510
47 1,1,1-Trichloroethane	97	8.156	8.152	(0.944)	554453	10.0000	9.48358
50 1,1-Dichloropropene	75	8.264	8.270	(0.957)	444386	10.0000	9.73027
51 Carbon Tetrachloride	117	8.294	8.299	(0.960)	511376	10.0000	9.85549
48 Isobutanol	41	8.166	8.171	(0.945)	56814	200.000	194.104
54 Benzene	78	8.441	8.447	(0.977)	1016791	10.0000	9.47409
53 1,2-Dichloroethane	62	8.422	8.417	(0.975)	338962	10.0000	9.72871
57 n-Butanol	56	8.707	8.703	(1.008)	37013	200.000	193.633
58 Trichloroethene	130	8.963	8.958	(1.038)	323413	10.0000	9.82749
61 1,2-Dichloropropane	63	9.150	9.155	(1.059)	281953	10.0000	9.84861
64 Dibromomethane	93	9.268	9.263	(1.073)	178627	10.0000	9.76754
63 1,4-Dioxane	88	9.228	9.224	(1.068)	53273	500.000	496.182
65 Bromodichloromethane	83	9.366	9.362	(1.084)	443269	10.0000	9.52152
68 cis-1,3-Dichloropropene	75	9.779	9.775	(0.845)	462466	10.0000	9.99272
69 4-Methyl-2-pentanone	43	9.868	9.863	(0.852)	498959	40.0000	40.0993
71 Toluene	91	10.143	10.149	(0.876)	1285138	10.0000	9.93745
72 trans-1,3-Dichloropropene	75	10.291	10.286	(0.889)	379537	10.0000	9.95766
74 1,1,2-Trichloroethane	97	10.497	10.503	(0.907)	187508	10.0000	10.0382
76 1,3-Dichloropropane	76	10.684	10.690	(0.923)	309126	10.0000	9.94134
77 Tetrachloroethene	164	10.733	10.729	(0.927)	323328	10.0000	9.92396
75 2-Hexanone	43	10.684	10.680	(0.923)	357081	40.0000	39.9998
78 Dibromochloromethane	129	10.950	10.945	(0.946)	318002	10.0000	10.1213
80 1,2-Dibromoethane	107	11.107	11.113	(0.959)	220468	10.0000	9.91901
81 1-Chlorohexane	91	11.491	11.496	(0.992)	581157	10.0000	9.70178
83 Chlorobenzene	112	11.609	11.604	(1.003)	919938	10.0000	9.88686
84 1,1,1,2-Tetrachloroethane	131	11.668	11.663	(1.008)	329668	10.0000	9.55656
85 Ethylbenzene	106	11.687	11.683	(1.009)	489188	10.0000	9.72112
86 m and p-Xylene	106	11.796	11.801	(1.019)	1174556	20.0000	19.0848
87 o-Xylene	106	12.238	12.234	(1.057)	606643	10.0000	9.85972
88 Styrene	104	12.238	12.234	(1.057)	998237	10.0000	10.0136
89 Bromoform	173	12.484	12.480	(1.078)	200656	10.0000	10.1676
90 isopropyl benzene	105	12.612	12.608	(1.089)	1748229	10.0000	9.90599
92 Cyclohexanone	55	12.740	12.736	(1.100)	289318	400.000	401.353

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94	1,1,2,2-Tetrachloroethane	83	12.887	12.893	(1.113)	262341	10.0000	10.0293
97	Bromobenzene	156	13.015	13.021	(0.918)	438691	10.0000	10.0329
96	1,2,3-Trichloropropane	110	12.976	12.972	(0.915)	54535	10.0000	9.88834
98	n-Propylbenzene	120	13.065	13.060	(0.922)	433179	10.0000	10.0126
99	2-Chlorotoluene	126	13.212	13.208	(0.932)	400378	10.0000	9.79355
100	1,3,5-Trimethylbenzene	105	13.242	13.237	(0.934)	1428508	10.0000	9.89515
101	4-Chlorotoluene	126	13.330	13.326	(0.940)	402409	10.0000	9.83256
102	tert-Butylbenzene	119	13.655	13.650	(0.963)	1130782	10.0000	9.76011
103	1,2,4-Trimethylbenzene	105	13.704	13.700	(0.967)	1383132	10.0000	9.88453
104	sec-Butylbenzene	134	13.910	13.916	(0.981)	286540	10.0000	9.78458
106	m-Dichlorobenzene	146	14.107	14.113	(0.995)	763418	10.0000	9.86503
105	4-Isopropyltoluene	119	14.068	14.064	(0.992)	1395284	10.0000	9.88946
108	p-dichlorobenzene	146	14.215	14.211	(1.003)	724892	10.0000	9.82951
110	n-Butylbenzene	91	14.589	14.585	(1.029)	1437916	10.0000	10.0089
111	o-Dichlorobenzene	146	14.717	14.713	(1.038)	637178	10.0000	10.2481
112	1,2-Dibromo-3-chloropropane	157	15.799	15.795	(1.114)	37722	10.0000	10.1185
113	1,2,4-Trichlorobenzene	180	17.235	17.231	(1.216)	348677	10.0000	10.5569
114	Hexachlorobutadiene	225	17.530	17.526	(1.237)	250524	10.0000	9.76716
115	Napthalene	128	17.757	17.752	(1.253)	342005	10.0000	10.7131
116	1,2,3-Trichlorobenzene	180	18.258	18.254	(1.288)	275226	10.0000	10.6510

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6221.d
Lab Smp Id: MAIN010
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: MAIN010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1181127	0.00
82 Chlorobenzene-d5	309128	154564	618256	309128	0.00
107 1,4-Dichlorobenze	483986	241993	967972	483986	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.00
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.00
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.00

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

Data File: /chem/R2.i/052504i.b/rr6221.d

Date : 25-MAY-2004 20:21

Client ID: MAIN010

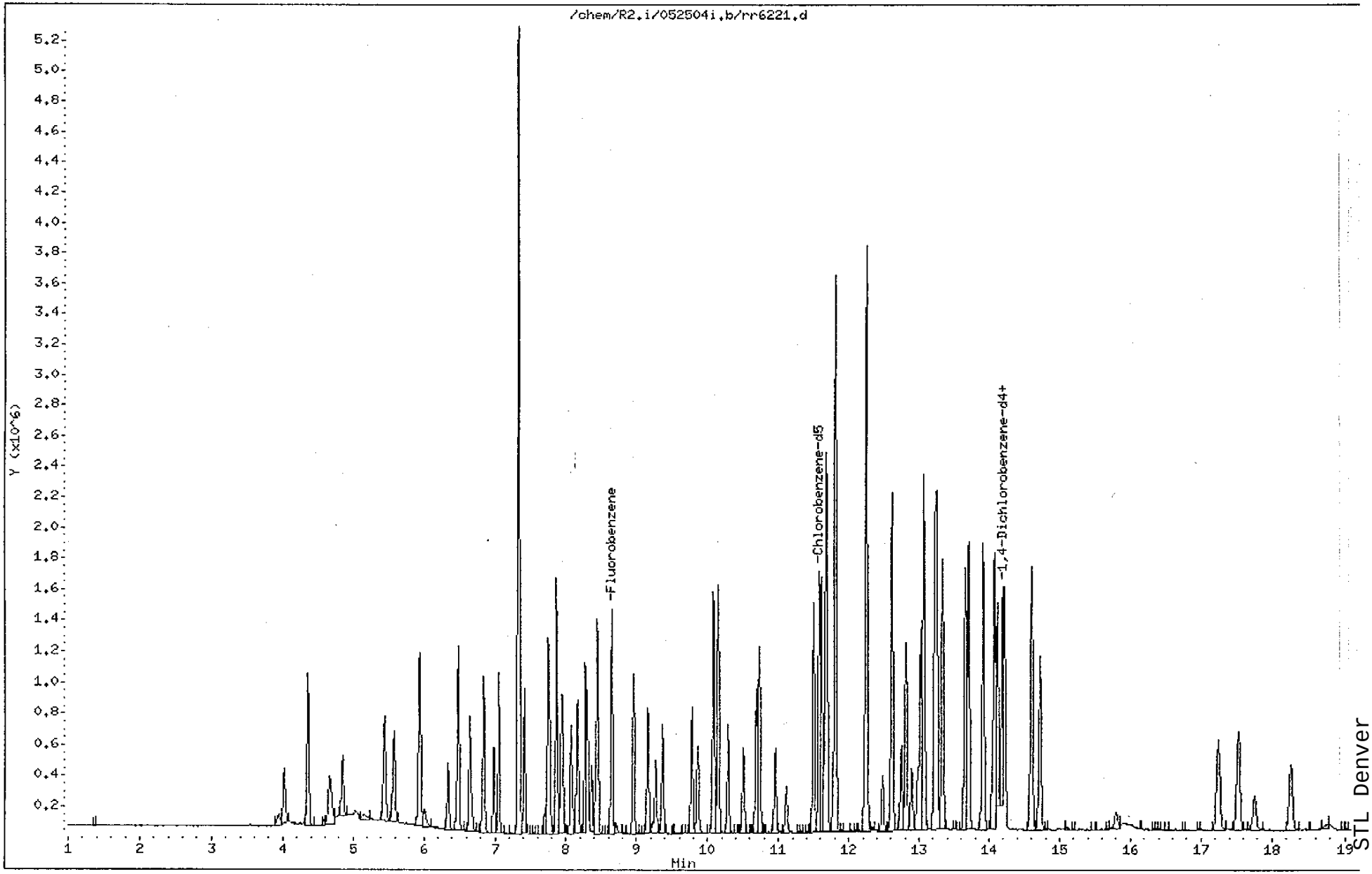
Sample Info: MAIN010,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj

Column diameter: 0.32



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VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6222.d
Lab Smp Id: MAIN030 Client Smp ID: MAIN030
Inj Date : 25-MAY-2004 20:46
Operator : reinharj Inst ID: R2.i
Smp Info : MAIN030,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:50 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 20:46 Cal File: rr6222.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.643	8.634	(1.000)	1145086	10.0000	
* 82	Chlorobenzene-d5	119	11.575	11.575	(1.000)	300774	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.181	14.182	(1.000)	515738	10.0000	
M 1	1,2-Dichloroethene (total)	96				1757404	60.0000	57.4781
M 2	Xylene (total)	106				5273214	30.0000	88.4490
3	dichlorodifluoromethane	85	4.355	4.355	(0.504)	3143301	30.0000	29.6464
5	Chloromethane	50	4.660	4.660	(0.539)	1476516	30.0000	28.7312
6	Vinyl Chloride	62	4.846	4.847	(0.561)	1395611	30.0000	28.7097
8	Bromomethane	94	5.437	5.427	(0.629)	2016672	30.0000	31.5196
9	Chloroethane	64	5.574	5.565	(0.645)	1966511	30.0000	28.6582
11	Trichlorofluoromethane	101	5.938	5.929	(0.687)	3503416	30.0000	29.3675
12	Ethanol	45	6.007	5.998	(0.695)	454508	1500.00	1651.83
16	Acrolein	56	6.332	6.332	(0.733)	1006038	300.000	272.336
19	1,1-Dichloroethene	96	6.479	6.480	(0.750)	1165972	30.0000	27.7801
18	Acetone	43	6.460	6.450	(0.747)	610838	120.000	121.298
21	Iodomethane	142	6.646	6.647	(0.769)	2178626	30.0000	32.8348

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
22 Acetonitrile	41	6.676	6.676	(0.772)	552567	300.000	302.240
27 Methylene Chloride	84	6.843	6.834	(0.792)	956750	30.0000	26.6193
26 tert-Butyl alcohol	59	6.824	6.814	(0.789)	637652	600.000	597.116
28 Acrylonitrile	53	6.981	6.981	(0.808)	1137388	300.000	298.711
30 trans-1,2-Dichloroethene	96	7.050	7.050	(0.816)	888426	30.0000	28.8473
34 1,1-Dichloroethane	63	7.335	7.335	(0.849)	1497918	30.0000	28.0727
33 Isopropyl ether	87	7.325	7.326	(0.848)	2165199	150.000	141.730
35 Chloroprene	53	7.404	7.404	(0.857)	1302761	30.0000	28.8451
40 cis-1,2-Dichloroethene	96	7.738	7.739	(0.895)	868978	30.0000	28.6308
37 2-Butanone	43	7.699	7.689	(0.891)	520233	120.000	119.548
41 2,2-Dichloropropane	77	7.758	7.758	(0.898)	1418703	30.0000	28.5086
39 Propionitrile	54	7.738	7.729	(0.895)	334257	300.000	286.517
42 Methacrylonitrile	41	7.866	7.857	(0.910)	2248112	300.000	300.987
43 Bromochloromethane	128	7.925	7.926	(0.917)	356104	30.0000	29.4449
44 Chloroform	83	7.945	7.945	(0.919)	1692210	30.0000	28.5899
47 1,1,1-Trichloroethane	97	8.151	8.152	(0.943)	1672108	30.0000	29.5991
50 1,1-Dichloropropene	75	8.269	8.270	(0.957)	1279642	30.0000	29.1142
51 Carbon Tetrachloride	117	8.299	8.299	(0.960)	1504871	30.0000	29.9323
48 Isobutanol	41	8.171	8.171	(0.945)	169564	600.000	598.157
54 Benzene	78	8.447	8.447	(0.977)	3103327	30.0000	29.8605
53 1,2-Dichloroethane	62	8.417	8.417	(0.974)	1031937	30.0000	30.4386
57 n-Butanol	56	8.702	8.703	(1.007)	120430	600.000	636.633
58 Trichloroethene	130	8.958	8.958	(1.036)	944534	30.0000	29.6830
61 1,2-Dichloropropane	63	9.155	9.155	(1.059)	823849	30.0000	29.7457
64 Dibromomethane	93	9.273	9.263	(1.073)	512106	30.0000	29.1005
63 1,4-Dioxane	88	9.233	9.224	(1.068)	159833	1500.00	1526.49
65 Bromodichloromethane	83	9.371	9.362	(1.084)	1315148	30.0000	29.3071
68 cis-1,3-Dichloropropene	75	9.774	9.775	(0.844)	1387546	30.0000	30.6478
69 4-Methyl-2-pentanone	43	9.863	9.863	(0.852)	1512798	120.000	123.931
71 Toluene	91	10.148	10.149	(0.877)	3785851	30.0000	30.0700
72 trans-1,3-Dichloropropene	75	10.296	10.286	(0.890)	1152616	30.0000	30.8581
74 1,1,2-Trichloroethane	97	10.502	10.503	(0.907)	551821	30.0000	30.2890
76 1,3-Dichloropropane	76	10.689	10.690	(0.923)	906103	30.0000	29.9593
77 Tetrachloroethene	164	10.729	10.729	(0.927)	946786	30.0000	29.8935
75 2-Hexanone	43	10.689	10.680	(0.923)	1070970	120.000	122.626
78 Dibromochloromethane	129	10.945	10.945	(0.946)	952173	30.0000	30.9110
80 1,2-Dibromoethane	107	11.112	11.113	(0.960)	684462	30.0000	31.3054
81 1-Chlorohexane	91	11.496	11.496	(0.993)	1687576	30.0000	29.1579
83 Chlorobenzene	112	11.614	11.604	(1.003)	2696083	30.0000	29.8241
84 1,1,1,2-Tetrachloroethane	131	11.663	11.663	(1.008)	980594	30.0000	29.3690
85 Ethylbenzene	106	11.683	11.683	(1.009)	1428134	30.0000	29.3307
86 m and p-Xylene	106	11.801	11.801	(1.020)	3508515	60.0000	58.8679
87 o-Xylene	106	12.234	12.234	(1.057)	1764699	30.0000	29.5811
88 Styrene	104	12.243	12.234	(1.058)	2947214	30.0000	30.3076
89 Bromoform	173	12.479	12.480	(1.078)	605498	30.0000	31.2147
90 isopropyl benzene	105	12.607	12.608	(1.089)	5342787	30.0000	30.8852
92 Cyclohexanone	55	12.735	12.736	(1.100)	743914	1200.00	1085.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94	1,1,2,2-Tetrachloroethane	83	12.893	12.893	(1.114)	752389	30.0000	29.6493
97	Bromobenzene	156	13.021	13.021	(0.918)	1302029	30.0000	28.3325
96	1,2,3-Trichloropropane	110	12.981	12.972	(0.915)	165437	30.0000	28.5018
98	n-Propylbenzene	120	13.070	13.060	(0.922)	1245563	30.0000	27.5659
99	2-Chlorotoluene	126	13.217	13.208	(0.932)	1177465	30.0000	27.5747
100	1,3,5-Trimethylbenzene	105	13.237	13.237	(0.933)	4321955	30.0000	28.4561
101	4-Chlorotoluene	126	13.325	13.326	(0.940)	1193322	30.0000	27.8525
102	tert-Butylbenzene	119	13.650	13.650	(0.963)	3450516	30.0000	28.3363
103	1,2,4-Trimethylbenzene	105	13.699	13.700	(0.966)	4186332	30.0000	28.4405
104	sec-Butylbenzene	134	13.916	13.916	(0.981)	881042	30.0000	28.5696
106	m-Dichlorobenzene	146	14.112	14.113	(0.995)	2297401	30.0000	28.2630
105	4-Isopropyltoluene	119	14.063	14.064	(0.992)	4480398	30.0000	29.8406
108	p-dichlorobenzene	146	14.211	14.211	(1.002)	2260902	30.0000	29.0081
110	n-Butylbenzene	91	14.594	14.585	(1.029)	4640170	30.0000	30.2478
111	o-Dichlorobenzene	146	14.712	14.713	(1.037)	1995068	30.0000	30.0897
112	1,2-Dibromo-3-chloropropane	157	15.794	15.795	(1.114)	121296	30.0000	30.3980
113	1,2,4-Trichlorobenzene	180	17.240	17.231	(1.216)	1138494	30.0000	31.8494
114	Hexachlorobutadiene	225	17.526	17.526	(1.236)	794422	30.0000	29.2475
115	Napthalene	128	17.752	17.752	(1.252)	1203400	30.0000	34.1512
116	1,2,3-Trichlorobenzene	180	18.254	18.254	(1.287)	877070	30.0000	31.4636

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6222.d
Lab Smp Id: MAIN030
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: MAIN030
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1145086	-3.05
82 Chlorobenzene-d5	309128	154564	618256	300774	-2.70
107 1,4-Dichlorobenze	483986	241993	967972	515738	6.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.06
82 Chlorobenzene-d5	11.58	11.08	12.08	11.57	-0.04
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.04

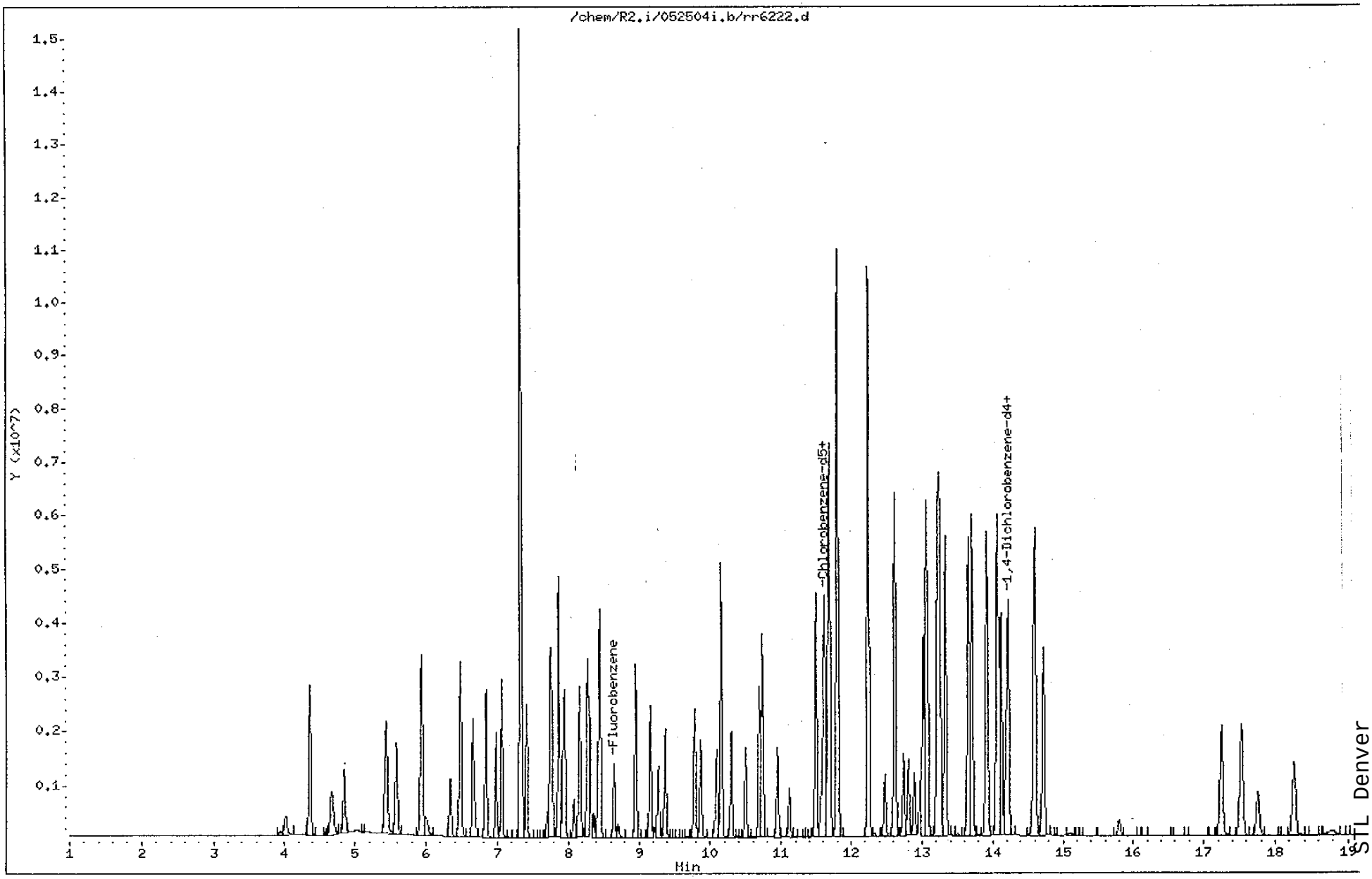
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/R2.i/052504i.b/rr6222.d
Date : 25-MAY-2004 20:46
Client ID: MAIN030
Sample Info: MAIN030,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj
Column diameter: 0.32



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VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6223.d
Lab Smp Id: MAIN060 Client Smp ID: MAIN060
Inj Date : 25-MAY-2004 21:11
Operator : reinharj Inst ID: R2.i
Smp Info : MAIN060,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:50 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 21:11 Cal File: rr6223.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.634	8.634	(1.000)	1174015	10.0000	
* 82	Chlorobenzene-d5	119	11.575	11.575	(1.000)	315564	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.182	14.182	(1.000)	537955	10.0000	
M 1	1,2-Dichloroethene (total)	96				3474889	120.000	112.266
M 2	Xylene (total)	106				10108478	60.0000	164.405
3	dichlorodifluoromethane	85	4.355	4.355	(0.504)	6441426	60.0000	59.4034
5	Chloromethane	50	4.660	4.660	(0.540)	2954804	60.0000	56.8225
6	Vinyl Chloride	62	4.847	4.847	(0.561)	2785408	60.0000	56.5337
8	Bromomethane	94	5.427	5.427	(0.629)	4256384	60.0000	64.0172(A)
9	Chloroethane	64	5.565	5.565	(0.645)	4044801	60.0000	57.8961
11	Trichlorofluoromethane	101	5.929	5.929	(0.687)	7119500	60.0000	58.5000
12	Ethanol	45	5.998	5.998	(0.695)	911920	3000.00	3150.96(A)
16	Acrolein	56	6.332	6.332	(0.733)	2126840	600.000	567.613
19	1,1-Dichloroethene	96	6.480	6.480	(0.750)	2365170	60.0000	55.7432
18	Acetone	43	6.450	6.450	(0.747)	1248740	240.000	241.485(A)
21	Iodomethane	142	6.647	6.647	(0.770)	4322495	60.0000	62.9216(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
22 Acetonitrile	41	6.676	6.676	(0.773)	1092280	600.000	585.537
27 Methylene Chloride	84	6.834	6.834	(0.791)	1884368	60.0000	52.6931
26 tert-Butyl alcohol	59	6.814	6.814	(0.789)	1284512	1200.00	1177.60
28 Acrylonitrile	53	6.981	6.981	(0.809)	2270960	600.000	584.692
30 trans-1,2-Dichloroethene	96	7.050	7.050	(0.817)	1776737	60.0000	56.8585
34 1,1-Dichloroethane	63	7.335	7.335	(0.850)	2862555	60.0000	53.4654
33 Isopropyl ether	87	7.326	7.326	(0.848)	4229443	300.000	274.602
35 Chloroprene	53	7.404	7.404	(0.858)	2574115	60.0000	56.2798
40 cis-1,2-Dichloroethene	96	7.739	7.739	(0.896)	1698152	60.0000	55.4070
37 2-Butanone	43	7.689	7.689	(0.891)	1098831	240.000	245.215(A)
41 2,2-Dichloropropane	77	7.758	7.758	(0.899)	2759770	60.0000	54.9933
39 Propionitrile	54	7.729	7.729	(0.895)	678735	600.000	572.635
42 Methacrylonitrile	41	7.857	7.857	(0.910)	4448354	600.000	583.990
43 Bromochloromethane	128	7.926	7.926	(0.918)	731423	60.0000	59.1545
44 Chloroform	83	7.945	7.945	(0.920)	3487700	60.0000	57.8791
47 1,1,1-Trichloroethane	97	8.152	8.152	(0.944)	3282803	60.0000	57.2069
50 1,1-Dichloropropene	75	8.270	8.270	(0.958)	2527478	60.0000	56.7040
51 Carbon Tetrachloride	117	8.299	8.299	(0.961)	3064806	60.0000	59.5475
48 Isobutanol	41	8.171	8.171	(0.946)	337189	1200.00	1167.92
54 Benzene	78	8.447	8.447	(0.978)	6158209	60.0000	58.1509
53 1,2-Dichloroethane	62	8.417	8.417	(0.975)	2067362	60.0000	59.5640
57 n-Butanol	56	8.703	8.703	(1.008)	241293	1200.00	1235.04(A)
58 Trichloroethene	130	8.958	8.958	(1.038)	1840086	60.0000	56.9711
61 1,2-Dichloropropane	63	9.155	9.155	(1.060)	1615355	60.0000	57.3827
64 Dibromomethane	93	9.263	9.263	(1.073)	1058947	60.0000	58.9060
63 1,4-Dioxane	88	9.224	9.224	(1.068)	333118	3000.00	3081.89(A)
65 Bromodichloromethane	83	9.362	9.362	(1.084)	2693310	60.0000	58.7779
68 cis-1,3-Dichloropropene	75	9.775	9.775	(0.844)	2741860	60.0000	58.0905
69 4-Methyl-2-pentanone	43	9.863	9.863	(0.852)	3100112	240.000	241.717(A)
71 Toluene	91	10.149	10.149	(0.877)	7305917	60.0000	56.0394
72 trans-1,3-Dichloropropene	75	10.286	10.286	(0.889)	2223015	60.0000	57.2463
74 1,1,2-Trichloroethane	97	10.503	10.503	(0.907)	1125408	60.0000	59.0617
76 1,3-Dichloropropane	76	10.690	10.690	(0.924)	1863906	60.0000	58.9460
77 Tetrachloroethene	164	10.729	10.729	(0.927)	1881995	60.0000	57.1706
75 2-Hexanone	43	10.680	10.680	(0.923)	2209005	240.000	240.897(A)
78 Dibromochloromethane	129	10.945	10.945	(0.946)	1904159	60.0000	59.0961
80 1,2-Dibromoethane	107	11.113	11.113	(0.960)	1383730	60.0000	60.2680(A)
81 1-Chlorohexane	91	11.496	11.496	(0.993)	3307009	60.0000	55.3116
83 Chlorobenzene	112	11.604	11.604	(1.003)	5444729	60.0000	57.8233
84 1,1,1,2-Tetrachloroethane	131	11.663	11.663	(1.008)	1980951	60.0000	57.0966
85 Ethylbenzene	106	11.683	11.683	(1.009)	2759973	60.0000	54.9386
86 m and p-Xylene	106	11.801	11.801	(1.020)	6716516	120.000	109.323
87 o-Xylene	106	12.234	12.234	(1.057)	3391962	60.0000	55.0819
88 Styrene	104	12.234	12.234	(1.057)	5752770	60.0000	56.9576
89 Bromoform	173	12.480	12.480	(1.078)	1248946	60.0000	61.1359(A)
90 isopropyl benzene	105	12.608	12.608	(1.089)	10200972	60.0000	56.8040
92 Cyclohexanone	55	12.736	12.736	(1.100)	1578929	2400.00	2228.16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94	1,1,2,2-Tetrachloroethane	83	12.893	12.893	(1.114)	1530416	60.0000	57.8871
97	Bromobenzene	156	13.021	13.021	(0.918)	2582275	60.0000	54.8035
96	1,2,3-Trichloropropane	110	12.972	12.972	(0.915)	332612	60.0000	55.7203
98	n-Propylbenzene	120	13.060	13.060	(0.921)	2597276	60.0000	55.8664
99	2-Chlorotoluene	126	13.208	13.208	(0.931)	2277385	60.0000	52.4224
100	1,3,5-Trimethylbenzene	105	13.237	13.237	(0.933)	8578363	60.0000	55.0428
101	4-Chlorotoluene	126	13.326	13.326	(0.940)	2344548	60.0000	53.5844
102	tert-Butylbenzene	119	13.650	13.650	(0.963)	7296535	60.0000	57.8564
103	1,2,4-Trimethylbenzene	105	13.700	13.700	(0.966)	8457940	60.0000	55.8494
104	sec-Butylbenzene	134	13.916	13.916	(0.981)	1856285	60.0000	58.0776
106	m-Dichlorobenzene	146	14.113	14.113	(0.995)	4769902	60.0000	56.8477
105	4-Isopropyltoluene	119	14.064	14.064	(0.992)	9010443	60.0000	57.9303
108	p-dichlorobenzene	146	14.211	14.211	(1.002)	4562316	60.0000	56.7301
110	n-Butylbenzene	91	14.585	14.585	(1.028)	9465634	60.0000	59.2943
111	o-Dichlorobenzene	146	14.713	14.713	(1.037)	3963908	60.0000	57.7455
112	1,2-Dibromo-3-chloropropane	157	15.795	15.795	(1.114)	249561	60.0000	59.9677
113	1,2,4-Trichlorobenzene	180	17.231	17.231	(1.215)	2419341	60.0000	64.0171(A)
114	Hexachlorobutadiene	225	17.526	17.526	(1.236)	1662827	60.0000	58.9048
115	Napthalene	128	17.752	17.752	(1.252)	2671746	60.0000	70.2149(A)
116	1,2,3-Trichlorobenzene	180	18.254	18.254	(1.287)	1900709	60.0000	64.4086(A)

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6223.d
Lab Smp Id: MAIN060
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

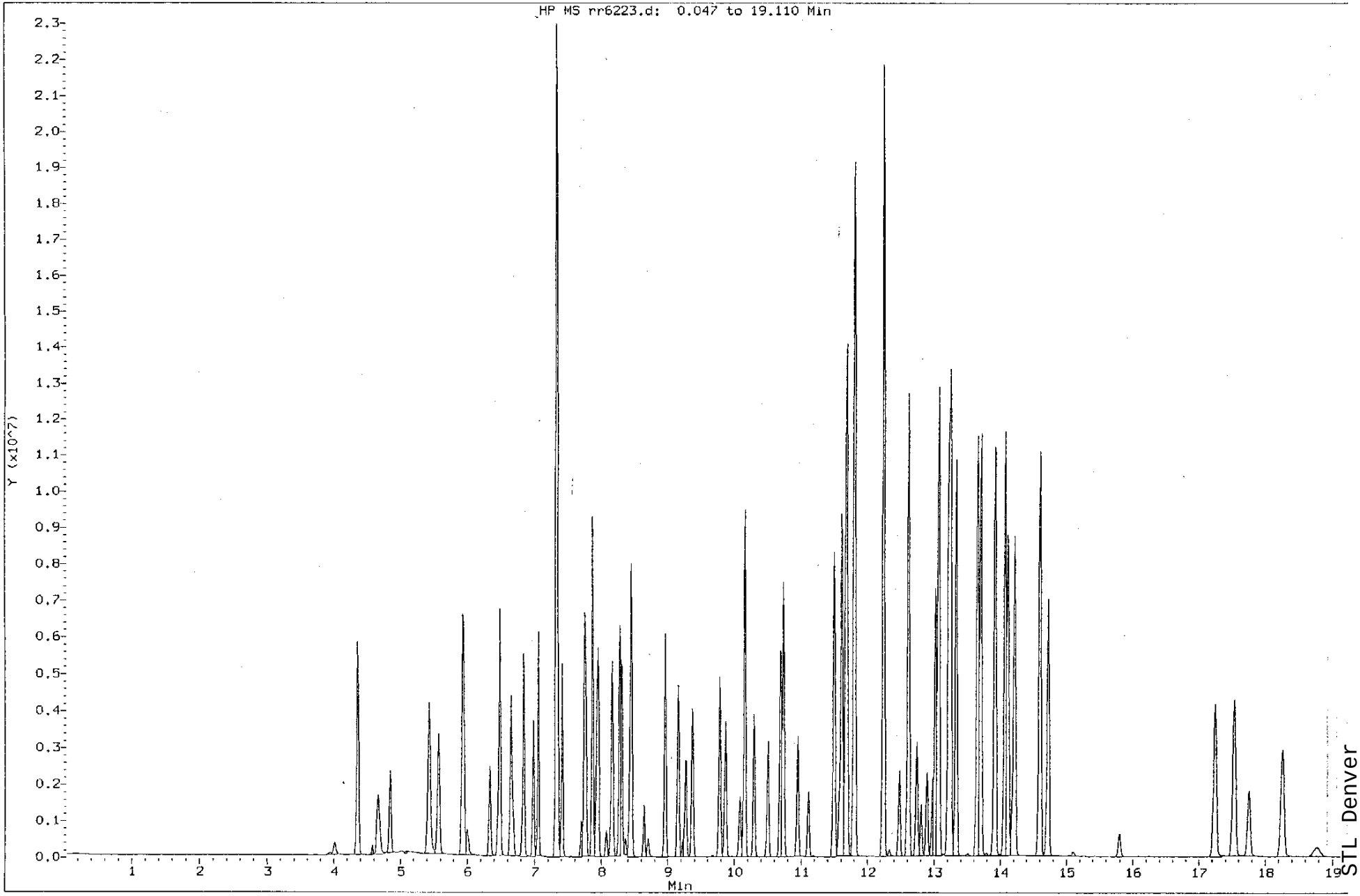
Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: MAIN060
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1174015	-0.60
82 Chlorobenzene-d5	309128	154564	618256	315564	2.08
107 1,4-Dichlorobenze	483986	241993	967972	537955	11.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.63	-0.05
82 Chlorobenzene-d5	11.58	11.08	12.08	11.57	-0.04
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.04

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

Data File: /chem/R2.i/052504i.b/rr6223.d
Injection Date: 25-MAY-2004 21:11
Instrument: R2.i
Client Sample ID: MAIN060



Report Date: 05/25/2004

INITIAL CALIBRATION VERIFICATION

Instrument ID: R2.i
Lab File ID: rr6224.d
Analysis Type: WATER

Injection Date: 25-MAY-2004 21:36
Lab Sample ID: SSV030
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
85	1,2-Dichloroethene (total)	60.0000	56.8751	5.2	25.0	
83	Xylene (total)	90.0000	85.8598	4.6	25.0	
64	dichlorodifluoromethane	30.0000	26.7227	10.9	25.0	
1	Chloromethane	30.0000	27.2351	9.2	25.0	
4	Vinyl Chloride	30.0000	28.5516	4.8	25.0	
2	Bromomethane	30.0000	32.4127	8.0	25.0	
5	Chloroethane	30.0000	27.7253	7.6	25.0	
11	Trichlorofluoromethane	30.0000	28.0727	6.4	25.0	
7	Acetone	60~~120~~.0000	61.9393	48.4	25.0	<- 3.2% OK 5/25/04
12	1,1-Dichloroethene	30.0000	28.3033	5.7	25.0	
6	Methylene Chloride	30.0000	26.3275	12.2	25.0	
0	trans-1,2-Dichloroethene	30.0000	29.4461	1.8	25.0	
15	1,1-Dichloroethane	30.0000	28.5973	4.7	25.0	
20	2-Butanone	60~~120~~.0000	61.1130	49.1	25.0	<- 1.9% OK 5/25/04
0	cis-1,2-Dichloroethene	30.0000	27.4290	8.6	25.0	
93	2,2-Dichloropropane	30.0000	28.5890	4.7	25.0	
13	Bromochloromethane	30.0000	28.6431	4.5	25.0	
17	Chloroform	30.0000	29.3626	2.1	25.0	
22	1,1,1-Trichloroethane	30.0000	28.4136	5.3	25.0	
94	1,1-Dichloropropene	30.0000	29.6104	1.3	25.0	
23	Carbon Tetrachloride	30.0000	29.3152	2.3	25.0	
16	1,2-Dichloroethane	30.0000	28.6451	4.5	25.0	
30	Benzene	30.0000	29.0007	3.3	25.0	
90	Fluorobenzene	10.0000	10.0000	0.0	25.0	
29	Trichloroethene	30.0000	28.8111	4.0	25.0	
26	1,2-Dichloropropane	30.0000	29.3110	2.3	25.0	
34	Dibromomethane	30.0000	28.6685	4.4	25.0	
25	Bromodichloromethane	30.0000	28.3032	5.7	25.0	
28	cis-1,3-Dichloropropene	30.0000	29.2735	2.4	25.0	
38	4-Methyl-2-pentanone	60~~120~~.0000	56.8528	52.6	25.0	<- 5.2% OK 5/25/04
45	Toluene	30.0000	27.5550	8.1	25.0	
31	trans-1,3-Dichloropropene	30.0000	28.4103	5.3	25.0	
32	1,1,2-Trichloroethane	30.0000	28.0295	6.6	25.0	
43	2-Hexanone	60~~120~~.0000	58.0190	51.7	25.0	<- 3.3% OK 5/25/04
109	1,3-Dichloropropane	30.0000	28.4999	5.0	25.0	
42	Tetrachloroethene	30.0000	28.7489	4.2	25.0	
36	Dibromochloromethane	30.0000	28.2009	6.0	25.0	
58	1,2-Dibromoethane	30.0000	28.2306	5.9	25.0	
92	1-Chlorohexane	30.0000	27.2552	9.1	25.0	

All < 25%.

INITIAL CALIBRATION VERIFICATION

Instrument ID: R2.i
Lab File ID: rr6224.d
Analysis Type: WATER

Injection Date: 25-MAY-2004 21:36
Lab Sample ID: SSV030
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
39	Chlorobenzene-d5	10.0000	10.0000	0.0	25.0
46	Chlorobenzene	30.0000	29.1215	2.9	25.0
74	1,1,1,2-Tetrachloroethane	30.0000	28.5535	4.8	25.0
47	Ethylbenzene	30.0000	28.2615	5.8	25.0
0	m and p-Xylene	60.0000	57.8606	3.6	25.0
49	Styrene	30.0000	28.6425	4.5	25.0
0	o-Xylene	30.0000	27.9992	6.7	25.0
37	Bromoform	30.0000	28.7626	4.1	25.0
79	isopropyl benzene	30.0000	27.3220	8.9	25.0
40	1,1,2,2-Tetrachloroethane	30.0000	27.3070	9.0	25.0
50	1,2,3-Trichloropropane	30.0000	26.9149	10.3	25.0
95	Bromobenzene	30.0000	27.4576	8.5	25.0
96	n-Propylbenzene	30.0000	29.0518	3.2	25.0
97	2-Chlorotoluene	30.0000	27.9066	7.0	25.0
98	1,3,5-Trimethylbenzene	30.0000	28.5634	4.8	25.0
99	4-Chlorotoluene	30.0000	28.3593	5.5	25.0
100	tert-Butylbenzene	30.0000	29.1214	2.9	25.0
101	1,2,4-Trimethylbenzene	30.0000	29.1481	2.8	25.0
102	sec-Butylbenzene	30.0000	29.5027	1.7	25.0
103	4-Isopropyltoluene	30.0000	28.1704	6.1	25.0
61	m-Dichlorobenzene	30.0000	28.1674	6.1	25.0
91	1,4-Dichlorobenzene-d4	10.0000	10.0000	0.0	25.0
62	p-dichlorobenzene	30.0000	28.1138	6.3	25.0
104	n-Butylbenzene	30.0000	30.1821	0.6	25.0
63	o-Dichlorobenzene	30.0000	28.9207	3.6	25.0
75	1,2-Dibromo-3-chloropropane	30.0000	27.5682	8.1	25.0
105	1,2,4-Trichlorobenzene	30.0000	30.3634	1.2	25.0
106	Hexachlorobutadiene	30.0000	29.4477	1.8	25.0
107	Napthalene	30.0000	30.0318	0.1	25.0
108	1,2,3-Trichlorobenzene	30.0000	28.9912	3.4	25.0

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6224.d
Lab Smp Id: SSV030 Client Smp ID: SSV030
Inj Date : 25-MAY-2004 21:36
Operator : reinharj Inst ID: R2.i
Smp Info : SSV030,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:57 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 21:11 Cal File: rr6223.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: main-ICV.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 56	Fluorobenzene	96	8.636	8.634	(1.000)	1209337	10.0000	
* 82	Chlorobenzene-d5	119	11.577	11.575	(1.000)	325482	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.174	14.182	(1.000)	541329	10.0000	
M 1	1,2-Dichloroethene (total)	96				1813784	56.8751	56.8751
M 2	Xylene (total)	106				5444909	85.8598	85.8598
3	dichlorodifluoromethane	85	4.357	4.355	(0.505)	2984871	26.7227	26.7227
5	Chloromethane	50	4.662	4.660	(0.540)	1458852	27.2351	27.2351
6	Vinyl Chloride	62	4.849	4.847	(0.561)	1449056	28.5516	28.5516
8	Bromomethane	94	5.429	5.427	(0.629)	2219901	32.4127	32.4127
9	Chloroethane	64	5.567	5.565	(0.645)	1995248	27.7253	27.7253
11	Trichlorofluoromethane	101	5.931	5.929	(0.687)	3519266	28.0727	28.0727
19	1,1-Dichloroethene	96	6.482	6.480	(0.751)	1237033	28.3033	28.3033
18	Acetone	43	6.452	6.450	(0.747)	329930	61.9393	61.9393
27	Methylene Chloride	84	6.836	6.834	(0.792)	969829	26.3275	26.3275
30	trans-1,2-Dichloroethene	96	7.052	7.050	(0.817)	947828	29.4461	29.4461
34	1,1-Dichloroethane	63	7.338	7.335	(0.850)	1577172	28.5973	28.5972

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
40 cis-1,2-Dichloroethene	96	7.741	7.739	(0.896)	865956	27.4290	27.4290
37 2-Butanone	43	7.692	7.689	(0.891)	282092	61.1130	61.1130
41 2,2-Dichloropropane	77	7.761	7.758	(0.899)	1477867	28.5890	28.5890
43 Bromochloromethane	128	7.928	7.926	(0.918)	364816	28.6431	28.6431
44 Chloroform	83	7.948	7.945	(0.920)	1822572	29.3626	29.3626
47 1,1,1-Trichloroethane	97	8.154	8.152	(0.944)	1679566	28.4136	28.4136
50 1,1-Dichloropropene	75	8.262	8.270	(0.957)	1359538	29.6104	29.6104
51 Carbon Tetrachloride	117	8.292	8.299	(0.960)	1554199	29.3152	29.3152
54 Benzene	78	8.439	8.447	(0.977)	3163591	29.0007	29.0007
53 1,2-Dichloroethane	62	8.420	8.417	(0.975)	1024134	28.6451	28.6451
58 Trichloroethene	130	8.961	8.958	(1.038)	958553	28.8111	28.8111
61 1,2-Dichloropropane	63	9.148	9.155	(1.059)	849947	29.3110	29.3110
64 Dibromomethane	93	9.266	9.263	(1.073)	530877	28.6685	28.6685
65 Bromodichloromethane	83	9.364	9.362	(1.084)	1335921	28.3032	28.3032
68 cis-1,3-Dichloropropene	75	9.777	9.775	(0.845)	1425129	29.2735	29.2735
69 4-Methyl-2-pentanone	43	9.866	9.863	(0.852)	752075	56.8528	56.8528
71 Toluene	91	10.151	10.149	(0.877)	3705285	27.5550	27.5550
72 trans-1,3-Dichloropropene	75	10.289	10.286	(0.889)	1137914	28.4103	28.4103
74 1,1,2-Trichloroethane	97	10.495	10.503	(0.907)	550883	28.0295	28.0295
76 1,3-Dichloropropane	76	10.682	10.690	(0.923)	929507	28.4999	28.4999
77 Tetrachloroethene	164	10.731	10.729	(0.927)	976126	28.7489	28.7489
75 2-Hexanone	43	10.682	10.680	(0.923)	548751	58.0190	58.0190
78 Dibromochloromethane	129	10.948	10.945	(0.946)	937230	28.2009	28.2009
80 1,2-Dibromoethane	107	11.105	11.113	(0.959)	668535	28.2306	28.2306
81 1-Chlorohexane	91	11.489	11.496	(0.992)	1680772	27.2552	27.2552
83 Chlorobenzene	112	11.607	11.604	(1.003)	2828311	29.1215	29.1215
84 1,1,1,2-Tetrachloroethane	131	11.666	11.663	(1.008)	1021791	28.5535	28.5535
85 Ethylbenzene	106	11.685	11.683	(1.009)	1464407	28.2615	28.2615
86 m and p-Xylene	106	11.794	11.801	(1.019)	3666518	57.8606	57.8606
87 o-Xylene	106	12.236	12.234	(1.057)	1778391	27.9992	27.9992
88 Styrene	104	12.236	12.234	(1.057)	2983845	28.6425	28.6425
89 Bromoform	173	12.482	12.480	(1.078)	606059	28.7626	28.7626
90 isopropyl benzene	105	12.610	12.608	(1.089)	5060758	27.3220	27.3220
94 1,1,2,2-Tetrachloroethane	83	12.885	12.893	(1.113)	744632	27.3070	27.3070
97 Bromobenzene	156	13.013	13.021	(0.918)	1301882	27.4576	27.4576
96 1,2,3-Trichloropropane	110	12.974	12.972	(0.915)	161671	26.9149	26.9148(Q)
98 n-Propylbenzene	120	13.062	13.060	(0.922)	1359114	29.0518	29.0518
99 2-Chlorotoluene	126	13.210	13.208	(0.932)	1219952	27.9066	27.9066
100 1,3,5-Trimethylbenzene	105	13.240	13.237	(0.934)	4479487	28.5634	28.5634
101 4-Chlorotoluene	126	13.328	13.326	(0.940)	1248626	28.3593	28.3593
102 tert-Butylbenzene	119	13.653	13.650	(0.963)	3695669	29.1214	29.1214
103 1,2,4-Trimethylbenzene	105	13.702	13.700	(0.967)	4441921	29.1481	29.1481
104 sec-Butylbenzene	134	13.908	13.916	(0.981)	948883	29.5027	29.5027
106 m-Dichlorobenzene	146	14.105	14.113	(0.995)	2378258	28.1674	28.1674
105 4-Isopropyltoluene	119	14.066	14.064	(0.992)	4409084	28.1704	28.1704
108 p-dichlorobenzene	146	14.213	14.211	(1.003)	2275128	28.1138	28.1138
110 n-Butylbenzene	91	14.587	14.585	(1.029)	4848436	30.1821	30.1821

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146	14.715	14.713	(1.038)	1997696	28.9207	28.9207
112 1,2-Dibromo-3-chloropropane	157	15.797	15.795	(1.115)	115447	27.5682	27.5682
113 1,2,4-Trichlorobenzene	180	17.233	17.231	(1.216)	1154695	30.3634	30.3634
114 Hexachlorobutadiene	225	17.518	17.526	(1.236)	836494	29.4477	29.4477
115 Napthalene	128	17.754	17.752	(1.253)	1149906	30.0318	30.0318
116 1,2,3-Trichlorobenzene	180	18.256	18.254	(1.288)	860902	28.9912	28.9912

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6224.d
Lab Smp Id: SSV030 Client Smp ID: SSV030
Inj Date : 25-MAY-2004 21:36
Operator : reinharj Inst ID: R2.i
Smp Info : SSV030,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 25-May-2004 21:57 reinharj Quant Type: ISTD
Cal Date : 25-MAY-2004 21:11 Cal File: rr6223.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: main-ICV.sub
Target Version: 3.40
Processing Host: chemsv02

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6224.d
Lab Smp Id: SSV030
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2021
Client Smp ID: SSV030
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1181127	590564	2362254	1209337	2.39
82 Chlorobenzene-d5	309128	154564	618256	325482	5.29
107 1,4-Dichlorobenze	483986	241993	967972	541329	11.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	-0.02
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	-0.02
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.17	-0.01

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

Data File: /chem/R2.i/052504i.b/rr6224.d

Date : 25-MAY-2004 21:36

Client ID: SSV030

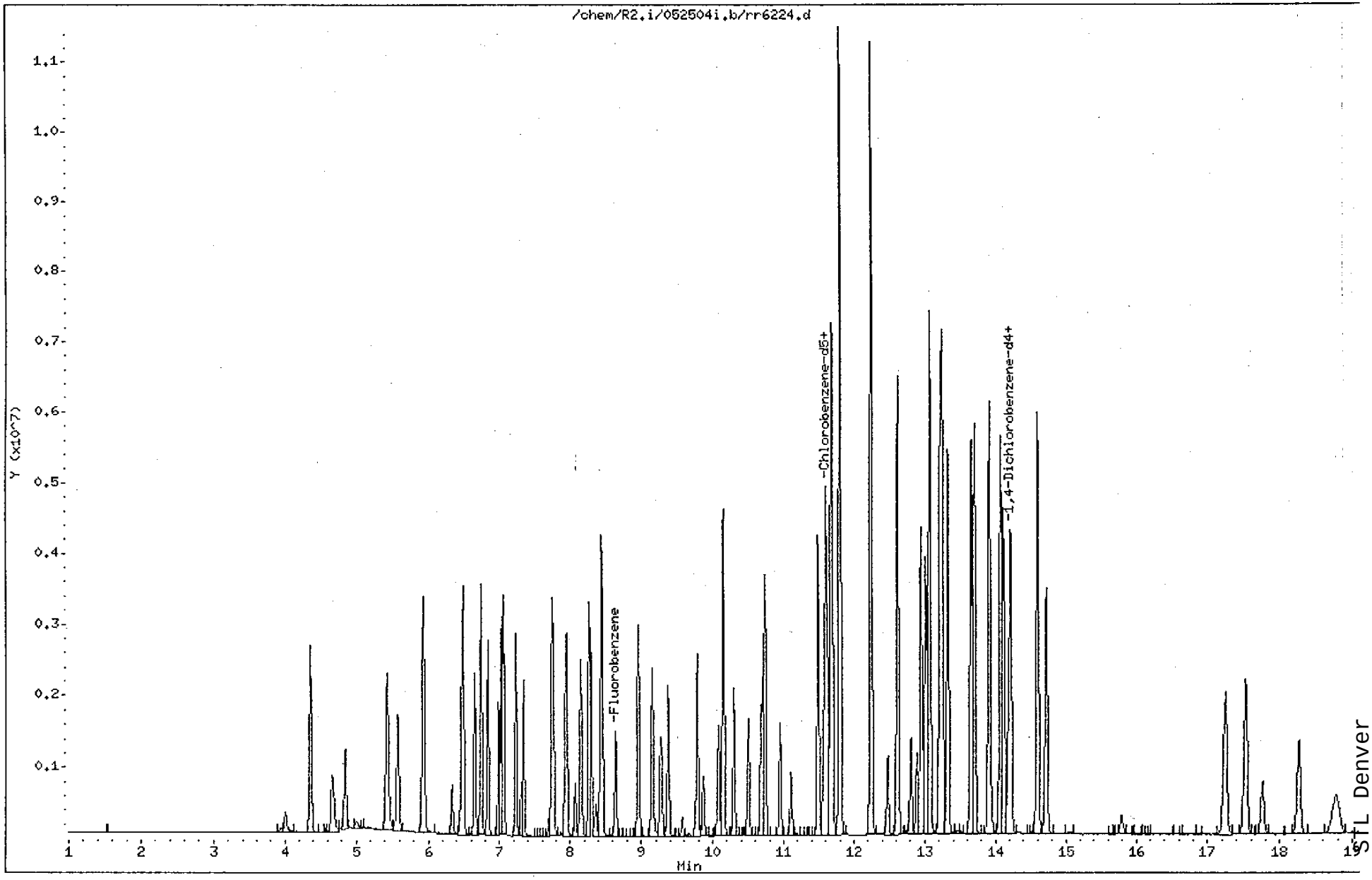
Sample Info: SSV030,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj

Column diameter: 0.32



GC/MS Initial Calibration Review Checklist *STL Denver*

Instrument ID and Date: R2 SVPP 5/25/04

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☑ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Sufficient number of calibration points used?	✓			✓	
4. Reasons for removal of points documented?	✓			✓	SOME pts < RL REMOVED
5. %RSD or correlation coefficient within method limits?	✓			✓	
6. If RRF used for ICAL, were all compounds within 15% RSD?	✓			✓	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Standards traceability properly documented?	✓			✓	
11. Manual integrations documented and checked?			✓	N/A	
12. 2nd source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?			✓	N/A	SEE MAIN ICAL

High pt 2CLEVE = 30 ppb
High pt ETBE = 150 ppb

1st Level Reviewer: [signature] Date: 5/25/04

2nd Level Reviewer: [signature] Date: 05/26/04

GC/MS Volatile Analysis

STL, Denver

Instrument R2
5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10^-6	~175C	35-300/2^2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

DEN-MS-0010 (8260B/624/524.2)
(Circle as appropriate)

Comments

Target Batch (Directory): R2 052504i.b IS/SS #104-04 QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
BFB		lul dir inj			5/25/04	CH	RR6217.d						#73-04 1836	
MAIN 001			20	0.5 µl			18						#67/83-04	
2				1.0			19							
5				2.5			20							
10				5.0			21							
30				15.0			22							
60				30.0			23							
SSV030				15.0			24						#61/60/91-04	
SUPP001				0.5			25						#52/11-04	
2				1.0			26							
5				2.5			27							
10				5.0			28							
30				15.0			29							
60				30.0			30							
LCS				20			31							
VBLK							32							
							33							
DAE190320	2						34					7		
DAE190322	11						35					7		
DAE190320	1						36					7		

Report Date: 26-May-2004 01:02

Calibration History

Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Start Cal Date: 25-MAY-2004 19:05
End Cal Date : 26-MAY-2004 00:31

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
25-MAY-2004 22:27	2-supp	/chem/R2.i/052504i.b/rr6225.d
25-MAY-2004 19:05	1-main	/chem/R2.i/052504i.b/rr6218.d
Cal Level: 2 , Cal Amount: 2.00000		
25-MAY-2004 22:52	2-supp	/chem/R2.i/052504i.b/rr6226.d
25-MAY-2004 19:31	1-main	/chem/R2.i/052504i.b/rr6219.d
Cal Level: 3 , Cal Amount: 5.00000		
25-MAY-2004 23:17	2-supp	/chem/R2.i/052504i.b/rr6227.d
25-MAY-2004 19:56	1-main	/chem/R2.i/052504i.b/rr6220.d
Cal Level: 4 , Cal Amount: 10.0000		
25-MAY-2004 23:42	2-supp	/chem/R2.i/052504i.b/rr6228.d
25-MAY-2004 20:21	1-main	/chem/R2.i/052504i.b/rr6221.d
Cal Level: 5 , Cal Amount: 30.0000		
26-MAY-2004 00:06	2-supp	/chem/R2.i/052504i.b/rr6229.d
25-MAY-2004 20:46	1-main	/chem/R2.i/052504i.b/rr6222.d
Cal Level: 6 , Cal Amount: 60.0000		
26-MAY-2004 00:31	2-supp	/chem/R2.i/052504i.b/rr6230.d
25-MAY-2004 21:11	1-main	/chem/R2.i/052504i.b/rr6223.d

Continuing Calibration

25-MAY-2004 23:42	2-supp	/chem/R2.i/052504i.b/rr6228.d
25-MAY-2004 20:21	1-main	/chem/R2.i/052504i.b/rr6221.d

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2004 19:05
End Cal Date : 26-MAY-2004 00:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Cal Date : 26-May-2004 01:03 meierg
Curve Type : Average

Calibration File Names:
Level 1: /chem/R2.i/052504i.b/rr6225.d
Level 2: /chem/R2.i/052504i.b/rr6226.d
Level 3: /chem/R2.i/052504i.b/rr6227.d
Level 4: /chem/R2.i/052504i.b/rr6228.d
Level 5: /chem/R2.i/052504i.b/rr6229.d
Level 6: /chem/R2.i/052504i.b/rr6230.d

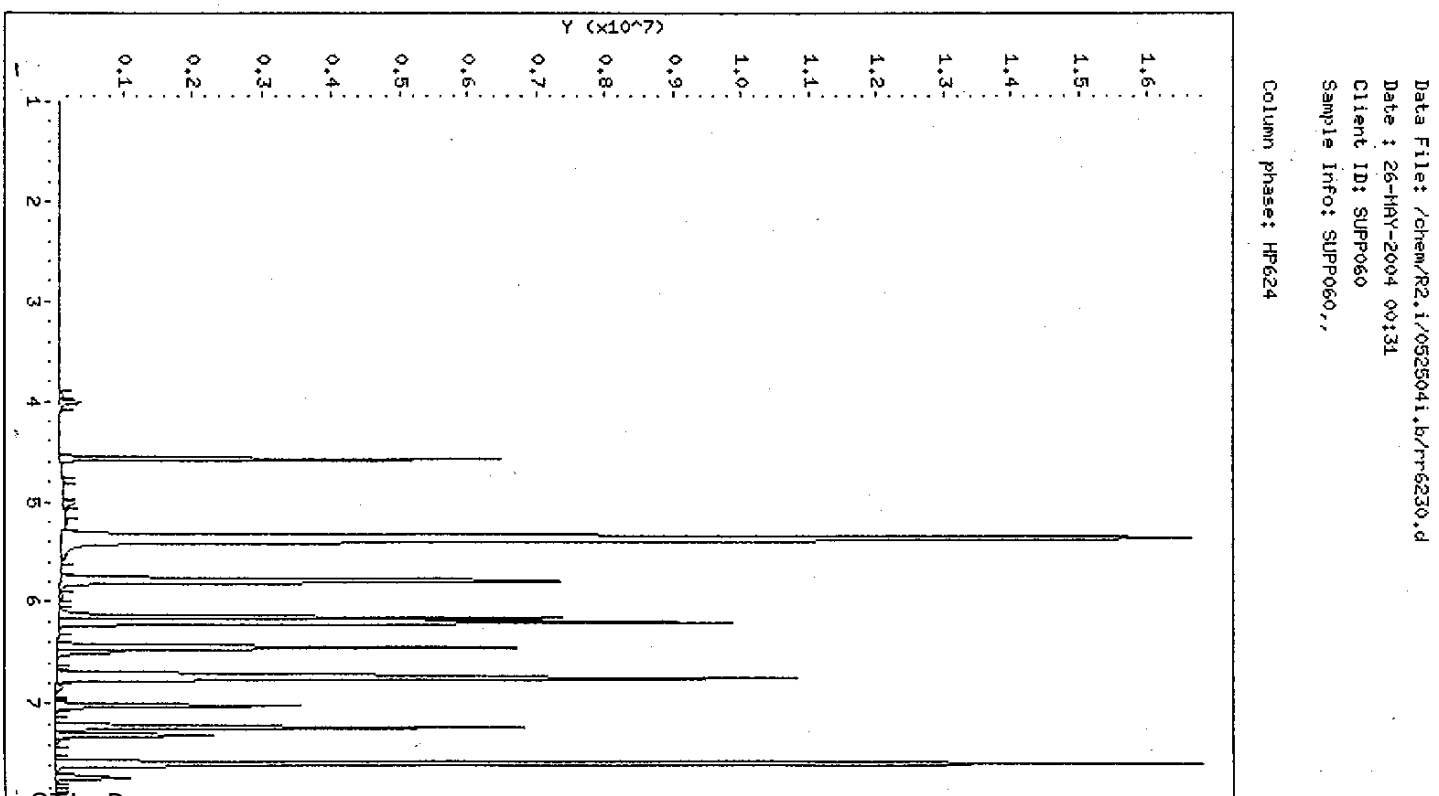
Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	___ RRF	% RSD
4 dichlorotetrafluoroethane	0.61074	0.50128	0.48628	0.50349	0.50185	0.50843	0.51868	8.812
7 Ethylene Oxide	0.02477	0.02155	0.02303	0.02239	0.02035	0.01886	0.02182	9.506
10 Dichlorofluoromethane	1.62375	1.33409	1.31774	1.41989	1.37436	1.41497	1.41414	7.827
13 1,2-dichloro-1,1,2-trifluoroe	0.53625	0.39272	0.44039	0.47021	0.44635	0.44111	0.45451	10.409
14 Ethyl Ether	0.28866	0.24730	0.24597	0.25553	0.24268	0.23473	0.25248	7.512
15 2,2-dichloro-1,1,1-trifluoroe	0.95727	0.76923	0.75135	0.81313	0.78823	0.77258	0.80863	9.363
17 Trichlorotrifluoroethane	0.39709	0.31911	0.32153	0.32649	0.33418	0.33403	0.33874	8.637
20 2-Propanol	0.00940	0.00759	0.00881	0.00847	0.00985	0.01024	0.00906	10.667
23 Methyl acetate	0.10713	0.10340	0.10883	0.10616	0.09897	0.10244	0.10449	3.435
24 Carbon Disulfide	1.59264	1.30819	1.28211	1.37068	1.30158	1.34405	1.36654	8.433
25 Allyl Chloride	0.62604	0.49741	0.50195	0.53384	0.50141	0.52290	0.53059	9.215
29 Methyl t-butyl ether	+++++	0.40969	0.40533	0.41998	0.40046	0.41508	0.41011	1.881
31 Hexane	0.40267	0.30994	0.31270	0.32806	0.31913	0.33105	0.33393	10.385
32 Vinyl acetate	0.24483	0.22461	0.22811	0.23336	0.23003	0.21553	0.22941	4.233
36 ETBE	0.59632	0.49008	0.51037	0.53428	0.49516	+++++	0.52524	8.241
38 Ethyl Acetate	0.08651	0.07679	0.08423	0.08088	0.08369	0.08245	0.08242	4.050
45 Tetrahydrofuran	+++++	0.02142	0.02011	0.02199	0.01865	0.02020	0.02048	6.342
49 Cyclohexane	0.47162	0.37799	0.37248	0.39570	0.38408	0.38005	0.39699	9.416
55 TAME	0.48600	0.41391	0.41135	0.42951	0.40904	0.39733	0.42452	7.501
59 2-Pentanone	0.07873	0.07416	0.07563	0.07469	0.07188	0.07113	0.07437	3.681
60 Methyl Methacrylate	0.02982	0.02574	0.02677	0.02537	0.02440	0.02506	0.02619	7.416
62 Methyl cyclohexane	0.50326	0.40095	0.40770	0.39837	0.40389	0.39839	0.41876	9.921
66 2-nitropropane	+++++	0.12433	0.12610	0.13547	0.12499	0.13493	0.12916	4.298
67 2-Chloroethyl vinyl ether	0.13275	0.13620	0.15451	0.16611	0.16948	+++++	0.15181	11.077
73 Ethyl methacrylate	0.66430	0.60763	0.59374	0.65372	0.59322	0.62508	0.62295	4.886

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAY-2004 19:05
End Cal Date : 26-MAY-2004 00:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.40
Integrator : HP RTE
Method file : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Cal Date : 26-May-2004 01:03 meierg
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
79 Tetrahydrothiophene	0.08341	0.07273	0.07571	0.08030	0.07471	0.07678	0.07727	5.070
91 c-1,4-Dichloro-2-butene	0.22040	0.18499	0.16972	0.17947	0.16365	0.18369	0.18365	10.791
95 t-1,4-Dichloro-2-butene	0.16080	0.12708	0.12197	0.11697	0.11460	0.12188	0.12722	13.377
109 1,2,3-Trimethylbenzene	3.03014	2.59238	2.51110	2.66517	2.59961	2.76917	2.69460	6.886
$ 46 Dibromofluoromethane	0.34887	0.33067	0.31747	0.33098	0.33068	+++++	0.33173	3.370
$ 52 1,2-Dichloroethane-d4	0.30082	0.27151	0.24756	0.23943	0.25728	+++++	0.26332	9.164
$ 70 Toluene-d8	4.11061	3.67256	3.25120	3.64538	3.47071	+++++	3.63009	8.732
$ 93 Bromofluorobenzene	1.93524	1.73403	1.62355	1.72722	1.69412	+++++	1.74283	6.663



Data File: /chem/R2.i/052504i.b/rr6217.d

Date : 25-MAY-2004 18:36

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,

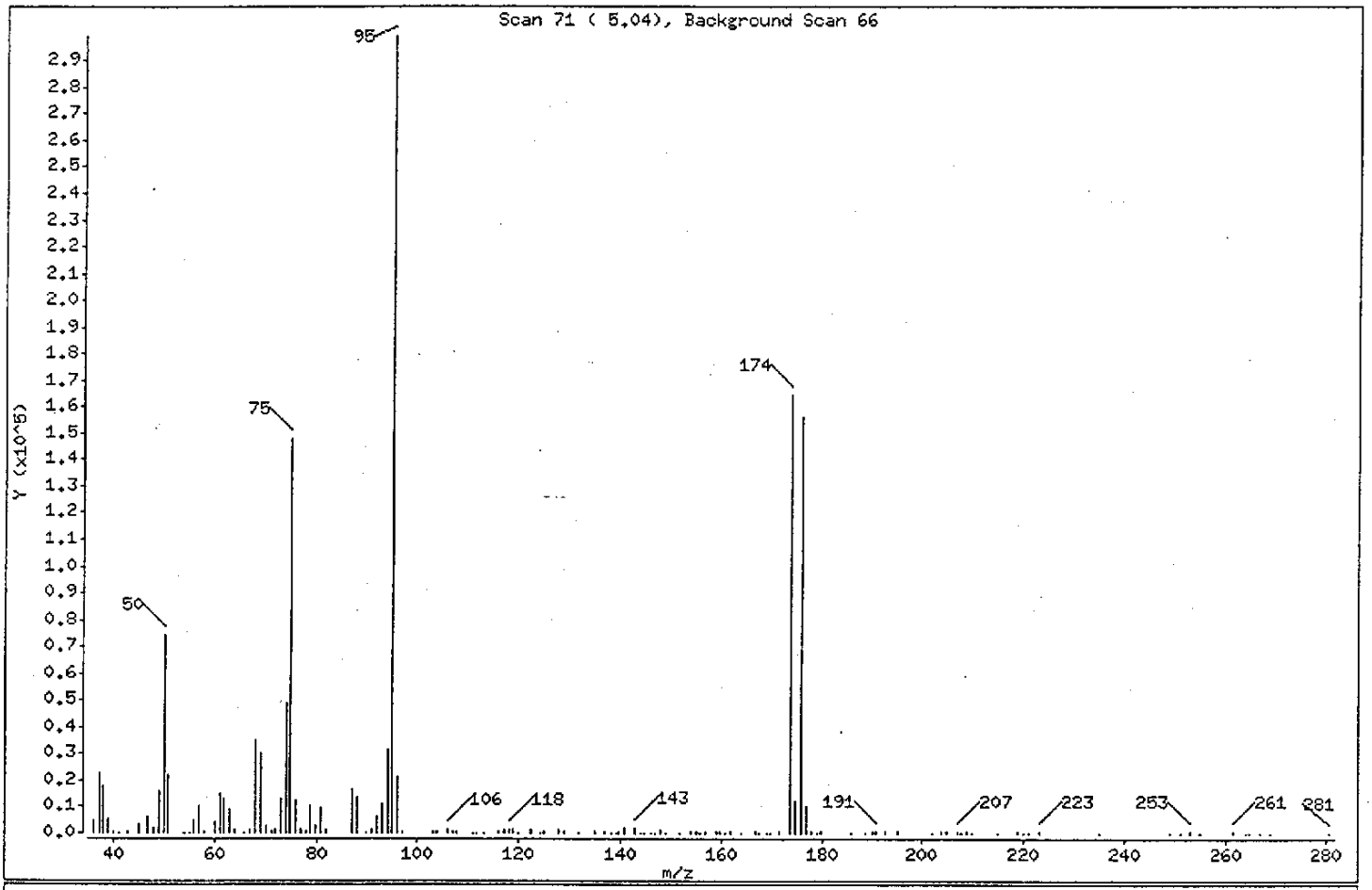
Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

Column diameter: 0.32

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	24.90
75	30.00 - 60.00% of mass 95	49.51
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	54.90
175	5.00 - 9.00% of mass 174	4.03 (7.34)
176	95.00 - 101.00% of mass 174	52.20 (95.09)
177	5.00 - 9.00% of mass 176	3.37 (6.46)

Data File: /chem/R2.i/052504i.b/rr6217.d

Date : 25-MAY-2004 18:36

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,

Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

Column diameter: 0.32

Data File: rr6217.d

Spectrum: Scan 71 (5.04), Background Scan 66

Location of Maximum: 94.95

Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	4592	76.90	1182	131.90	158	178.90	170
36.95	22912	77.90	662	134.90	870	179.80	461
37.95	17872	78.80	10360	136.90	349	186.00	57
38.95	5724	79.70	3081	138.35	306	188.90	26
39.85	705	80.80	9967	139.15	65	190.00	485
40.95	286	81.90	1576	139.75	517	190.85	661
42.95	514	86.85	16338	140.85	2023	192.85	524
45.00	3182	87.85	14050	142.85	2242	195.05	428
46.90	5986	89.85	129	143.85	275	201.85	286
47.80	1956	90.85	1235	144.75	157	203.80	367
48.90	15702	91.85	6417	145.95	247	204.90	424
49.90	74472	92.85	10992	146.85	107	206.90	904
50.90	22224	93.95	31464	147.75	1035	207.90	152
53.90	301	94.95	299136	148.85	257	208.90	374
54.90	330	95.95	21368	151.90	206	210.00	108
55.90	4962	96.85	827	154.00	444	215.00	267
56.90	10298	102.90	737	154.90	467	218.85	657
58.05	638	103.90	1030	155.70	157	219.95	311
59.95	4392	105.80	1391	156.90	469	220.85	155
60.95	15441	106.90	582	158.90	506	223.05	374
61.95	12782	107.80	696	159.80	348	234.90	251
62.85	9107	110.95	11	160.70	23	248.85	137
63.85	1473	111.75	267	161.90	378	250.95	182
65.85	296	113.15	142	163.95	188	252.85	426
66.95	1287	115.85	874	167.05	421	254.65	312
67.85	35088	116.95	1262	167.75	147	255.15	253
68.85	30064	117.95	1161	168.95	216	261.50	406
69.95	2581	118.85	1090	169.75	6	263.90	145
71.00	556	119.85	220	171.65	819	264.90	12
72.00	1351	122.55	1088	173.85	164224	266.90	142
72.90	12961	124.10	213	174.85	12053	268.90	208
73.90	48552	124.80	506	175.85	156160	280.95	6
74.90	148096	127.90	1130	176.75	10090		
75.90	12630	128.90	746	177.90	388		

Data File: /chem/R2.i/052504i.b/rr6217.d

Date : 25-MAY-2004 18:36

Client ID: BFB

Sample Info: BFB,,

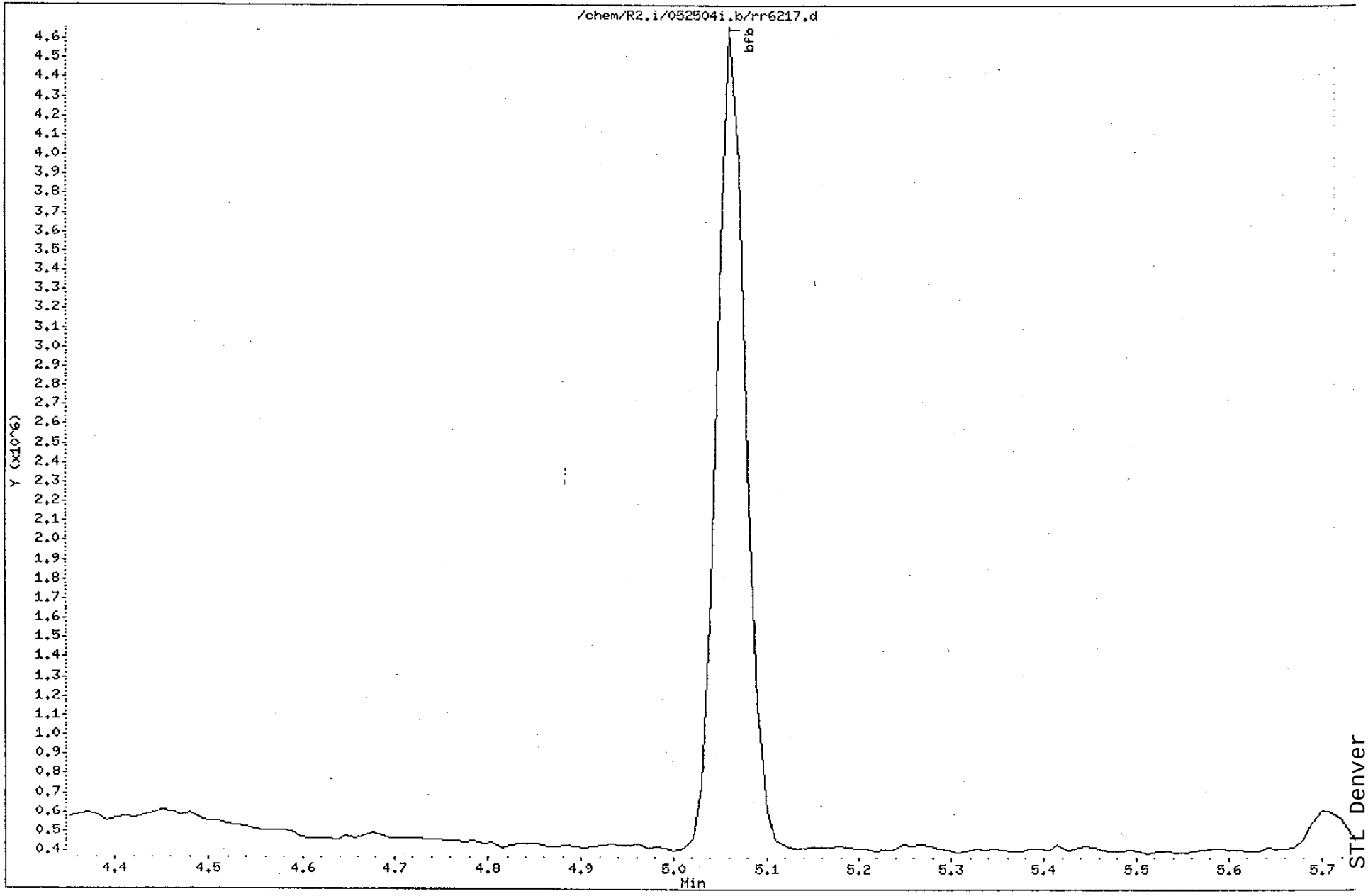
Volume Injected (uL): 2.0

Column phase: HP624

Instrument: R2.i

Operator: meierg

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6225.d
Lab Smp Id: SUPP001 Client Smp ID: SUPP001
Inj Date : 25-MAY-2004 22:27
Operator : reinharj Inst ID: R2.i
Smp Info : SUPP001,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 26-May-2004 01:03 meierg Quant Type: ISTD
Cal Date : 25-MAY-2004 22:27 Cal File: rr6225.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56 Fluorobenzene	96	8.636	8.633	(1.000)	1160483	10.0000	
* 82 Chlorobenzene-d5	119	11.577	11.574	(1.000)	307806	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.184	14.180	(1.000)	466166	10.0000	
$ 46 Dibromofluoromethane	111	8.066	8.062	(0.934)	40486	1.00000	1.00000(a)
$ 52 1,2-Dichloroethane-d4	65	8.361	8.357	(0.968)	34910	1.00000	1.00000(a)
$ 70 Toluene-d8	98	10.072	10.079	(0.870)	126527	1.00000	1.00000(a)
$ 93 Bromofluorobenzene	95	12.807	12.803	(1.106)	59568	1.00000	1.00000(a)
4 dichlorotetrafluoroethane	85	4.574	4.570	(0.530)	70875	1.00000	1.00000
7 Ethylene Oxide	43	5.370	5.347	(0.622)	359348	125.000	125.000(a)
10 Dichlorofluoromethane	67	5.793	5.780	(0.671)	188434	1.00000	1.00000(a)
13 1,2-dichloro-1,1,2-trifluoroet	117	6.157	6.154	(0.713)	62231	1.00000	1.00000
14 Ethyl Ether	59	6.197	6.193	(0.718)	33498	1.00000	1.00000(a)
15 2,2-dichloro-1,1,1-trifluoroet	83	6.206	6.203	(0.719)	111090	1.00000	1.00000
17 Trichlorotrifluoroethane	151	6.452	6.449	(0.747)	46082	1.00000	1.00000(a)
20 2-Propanol	45	6.511	6.498	(0.754)	21823	20.0000	20.0000
23 Methyl acetate	43	6.718	6.714	(0.778)	62163	5.00000	5.00000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
24	Carbon Disulfide	76	6.738	6.734	(0.780)	184823	1.00000	1.00000	(a)
25	Allyl Chloride	41	6.747	6.754	(0.781)	72651	1.00000	1.00000	(a)
29	Methyl t-butyl ether	73	7.023	7.019	(0.813)	54204	1.00000		(a)
31	Hexane	57	7.229	7.226	(0.837)	46729	1.00000	1.00000	(a)
32	Vinyl acetate	43	7.308	7.305	(0.846)	56825	2.00000	2.00000	
36	ETBE	59	7.574	7.570	(0.877)	346007	5.00000	5.00000	
38	Ethyl Acetate	43	7.711	7.698	(0.893)	20079	2.00000	2.00000	
45	Tetrahydrofuran	42	7.967	7.954	(0.923)	6477	2.00000		(a)
49	Cyclohexane	56	8.223	8.229	(0.952)	54731	1.00000	1.00000	(a)
55	TAME	73	8.459	8.456	(0.979)	282000	5.00000	5.00000	
59	2-Pentanone	43	9.010	9.006	(1.043)	36547	4.00000	4.00000	
60	Methyl Methacrylate	100	9.138	9.134	(1.058)	6921	2.00000	2.00000	
62	Methyl cyclohexane	55	9.167	9.174	(1.062)	58402	1.00000	1.00000	
66	2-nitropropane	41	9.541	9.528	(0.824)	6487	1.00000	1.00000	(a)
67	2-Chloroethyl vinyl ether	63	9.570	9.567	(0.827)	4086	1.00000	1.00000	(a)
73	Ethyl methacrylate	69	10.308	10.305	(0.890)	40895	2.00000	2.00000	
79	Tetrahydrothiophene	60	10.997	10.993	(1.273)	9680	1.00000	1.00000	
91	c-1,4-Dichloro-2-butene	53	12.639	12.636	(1.092)	6784	1.00000	1.00000	
95	t-1,4-Dichloro-2-butene	53	12.944	12.941	(0.913)	7496	1.00000	1.00000	(a)
109	1,2,3-Trimethylbenzene	105	14.243	14.239	(1.004)	141255	1.00000	1.00000	

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6225.d
Lab Smp Id: SUPP001
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2342
Client Smp ID: SUPP001
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1149959	574980	2299918	1160483	0.92
82 Chlorobenzene-d5	302802	151401	605604	307806	1.65
107 1,4-Dichlorobenze	475530	237765	951060	466166	-1.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.63	8.13	9.13	8.64	0.03
82 Chlorobenzene-d5	11.57	11.07	12.07	11.58	0.02
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.02

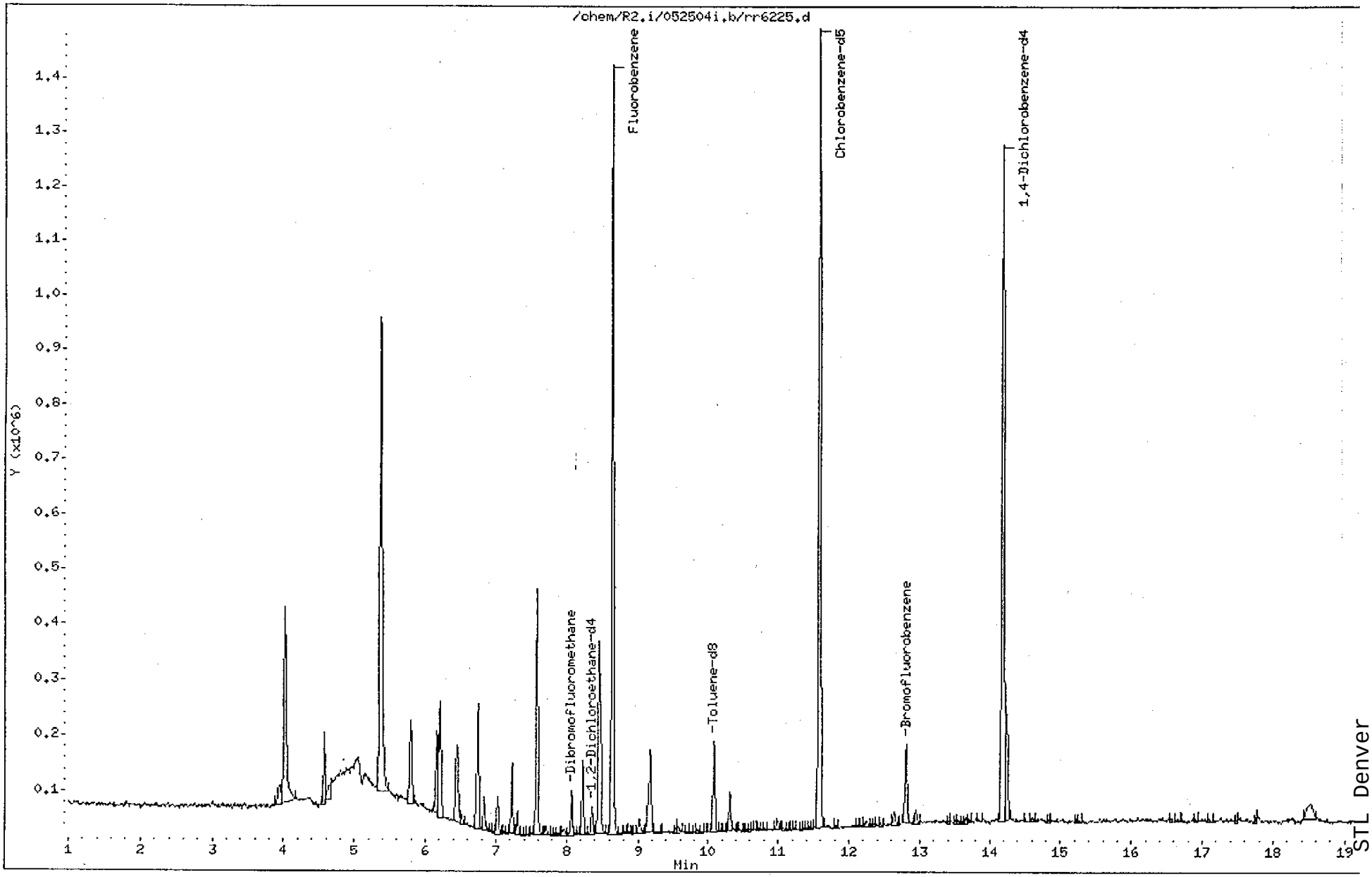
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/R2.i/052504i.b/rr6225.d
Date : 25-MAY-2004 22:27
Client ID: SUPP001
Sample Info: SUPP001,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj
Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6226.d
Lab Smp Id: SUPP002 Client Smp ID: SUPP002
Inj Date : 25-MAY-2004 22:52
Operator : reinharj Inst ID: R2.i
Smp Info : SUPP002,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 26-May-2004 01:03 meierg Quant Type: ISTD
Cal Date : 25-MAY-2004 22:52 Cal File: rr6226.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 56 Fluorobenzene	96	8.634	8.633	(1.000)	1208245	10.0000	
* 82 Chlorobenzene-d5	119	11.575	11.574	(1.000)	324181	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.181	14.180	(1.000)	471320	10.0000	
$ 46 Dibromofluoromethane	111	8.063	8.062	(0.934)	79905	2.00000	1.94642(a)
$ 52 1,2-Dichloroethane-d4	65	8.358	8.357	(0.968)	65609	2.00000	1.89755(a)
$ 70 Toluene-d8	98	10.079	10.079	(0.871)	238115	2.00000	1.88744(a)
$ 93 Bromofluorobenzene	95	12.804	12.803	(1.106)	112428	2.00000	1.89032(a)
4 dichlorotetrafluoroethane	85	4.571	4.570	(0.529)	121134	2.00000	1.80314
7 Ethylene Oxide	43	5.378	5.347	(0.623)	650892	250.000	232.600(a)
10 Dichlorofluoromethane	67	5.791	5.780	(0.671)	322382	2.00000	1.80414(a)
13 1,2-dichloro-1,1,2-trifluoroet	117	6.155	6.154	(0.713)	94901	2.00000	1.69100
14 Ethyl Ether	59	6.204	6.193	(0.719)	59760	2.00000	1.84568(a)
15 2,2-dichloro-1,1,1-trifluoroet	83	6.204	6.203	(0.719)	185883	2.00000	1.78216
17 Trichlorotrifluoroethane	151	6.450	6.449	(0.747)	77113	2.00000	1.78224(a)
20 2-Propanol	45	6.499	6.498	(0.753)	36703	40.0000	35.7444
23 Methyl acetate	43	6.715	6.714	(0.778)	124933	10.0000	9.82271

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24 Carbon Disulfide	76	6.735	6.734	(0.780)	316124	2.00000	1.80389(a)
25 Allyl Chloride	41	6.755	6.754	(0.782)	120198	2.00000	1.77100(a)
29 Methyl t-butyl ether	73	7.020	7.019	(0.813)	99000	2.00000	2.00000
31 Hexane	57	7.227	7.226	(0.837)	74897	2.00000	1.73975(a)
32 Vinyl acetate	43	7.306	7.305	(0.846)	108552	4.00000	3.82765
36 ETBE	59	7.571	7.570	(0.877)	592139	10.0000	9.02215
38 Ethyl Acetate	43	7.709	7.698	(0.893)	37112	4.00000	3.76185
45 Tetrahydrofuran	42	7.965	7.954	(0.923)	10353	4.00000	4.00000
49 Cyclohexane	56	8.220	8.229	(0.952)	91341	2.00000	1.77959(a)
55 TAME	73	8.456	8.456	(0.979)	500102	10.0000	9.19885
59 2-Pentanone	43	9.007	9.006	(1.043)	71685	8.00000	7.76088
60 Methyl Methacrylate	100	9.135	9.134	(1.058)	12438	4.00000	3.70596
62 Methyl cyclohexane	55	9.165	9.174	(1.062)	96890	2.00000	1.77372
66 2-nitropropane	41	9.538	9.528	(0.824)	8061	2.00000	1.48417(a)
67 2-Chloroethyl vinyl ether	63	9.568	9.567	(0.827)	8831	2.00000	2.02572
73 Ethyl methacrylate	69	10.306	10.305	(0.890)	78793	4.00000	3.82179
79 Tetrahydrothiophene	60	10.994	10.993	(1.273)	17575	2.00000	1.86315
91 c-1,4-Dichloro-2-butene	53	12.637	12.636	(1.092)	11994	2.00000	1.82531
95 t-1,4-Dichloro-2-butene	53	12.942	12.941	(0.913)	11979	2.00000	1.76572(a)
109 1,2,3-Trimethylbenzene	105	14.240	14.239	(1.004)	244368	2.00000	1.84428

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6226.d
Lab Smp Id: SUPP002
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2342
Client Smp ID: SUPP002
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1149959	574980	2299918	1208245	5.07
82 Chlorobenzene-d5	302802	151401	605604	324181	7.06
107 1,4-Dichlorobenze	475530	237765	951060	471320	-0.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.63	8.13	9.13	8.63	0.00
82 Chlorobenzene-d5	11.57	11.07	12.07	11.57	0.00
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.00

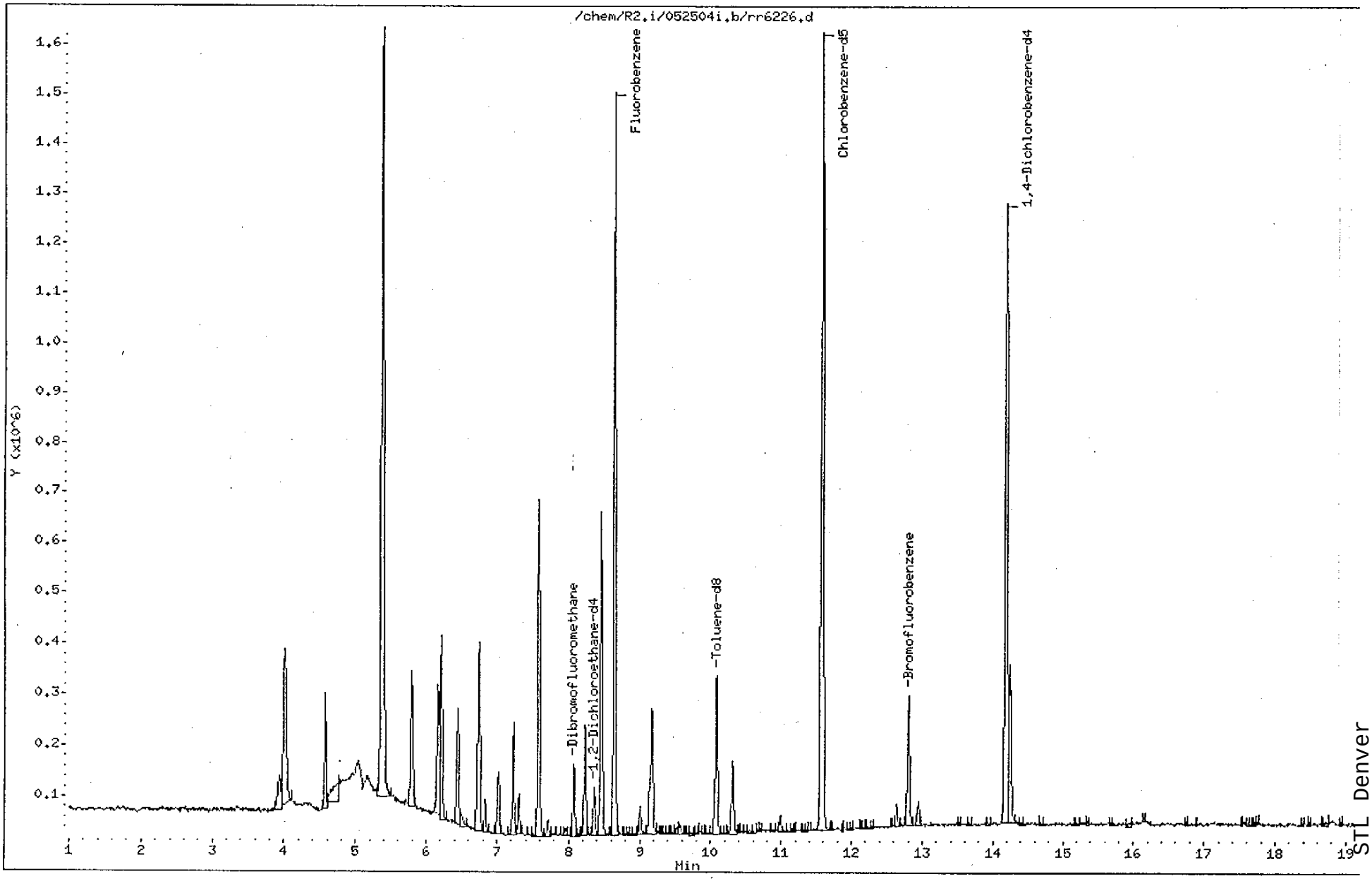
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/R2.i/052504i.b/rr6226.d
Date : 25-MAY-2004 22:52
Client ID: SUPP002
Sample Info: SUPP002,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj
Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6227.d
Lab Smp Id: SUPP005 Client Smp ID: SUPP005
Inj Date : 25-MAY-2004 23:17
Operator : reinharj Inst ID: R2.i
Smp Info : SUPP005,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 26-May-2004 01:03 meierg Quant Type: ISTD
Cal Date : 25-MAY-2004 23:17 Cal File: rr6227.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 56 Fluorobenzene	96	8.633	8.633	(1.000)	1063219	10.0000	
* 82 Chlorobenzene-d5	119	11.574	11.574	(1.000)	291622	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.181	14.180	(1.000)	441640	10.0000	
$ 46 Dibromofluoromethane	111	8.072	8.062	(0.935)	168770	5.00000	4.77634
$ 52 1,2-Dichloroethane-d4	65	8.358	8.357	(0.968)	131605	5.00000	4.52915
$ 70 Toluene-d8	98	10.079	10.079	(0.871)	474060	5.00000	4.41964
$ 93 Bromofluorobenzene	95	12.804	12.803	(1.106)	236732	5.00000	4.60119
4 dichlorotetrafluoroethane	85	4.571	4.570	(0.529)	258511	5.00000	4.56373
7 Ethylene Oxide	43	5.377	5.347	(0.623)	1530586	625.000	622.709
10 Dichlorofluoromethane	67	5.790	5.780	(0.671)	700524	5.00000	4.62302
13 1,2-dichloro-1,1,2-trifluoroet	117	6.164	6.154	(0.714)	234115	5.00000	4.82402
14 Ethyl Ether	59	6.194	6.193	(0.717)	130762	5.00000	4.71859
15 2,2-dichloro-1,1,1-trifluoroet	83	6.203	6.203	(0.719)	399427	5.00000	4.54841
17 Trichlorotrifluoroethane	151	6.449	6.449	(0.747)	170927	5.00000	4.64755
20 2-Propanol	45	6.498	6.498	(0.753)	93694	100.000	102.432
23 Methyl acetate	43	6.715	6.714	(0.778)	289268	25.0000	25.5574

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
24 Carbon Disulfide	76	6.744	6.734	(0.781)	681583	5.00000	4.59764
25 Allyl Chloride	41	6.754	6.754	(0.782)	266839	5.00000	4.63222
29 Methyl t-butyl ether	73	7.020	7.019	(0.813)	215479	5.00000	4.97330
31 Hexane	57	7.226	7.226	(0.837)	166234	5.00000	4.57471
32 Vinyl acetate	43	7.305	7.305	(0.846)	242527	10.0000	9.81037
36 ETBE	59	7.580	7.570	(0.878)	1356593	25.0000	23.9721
38 Ethyl Acetate	43	7.708	7.698	(0.893)	89555	10.0000	10.2084
45 Tetrahydrofuran	42	7.964	7.954	(0.923)	21385	10.0000	9.68506
49 Cyclohexane	56	8.230	8.229	(0.953)	198016	5.00000	4.57186
55 TAME	73	8.456	8.456	(0.979)	1093382	25.0000	23.5278
59 2-Pentanone	43	9.007	9.006	(1.043)	160828	20.0000	19.8574
60 Methyl Methacrylate	100	9.135	9.134	(1.058)	28464	10.0000	9.75560
62 Methyl cyclohexane	55	9.174	9.174	(1.063)	216735	5.00000	4.66149
66 2-nitropropane	41	9.528	9.528	(0.823)	18387	5.00000	4.10149
67 2-Chloroethyl vinyl ether	63	9.567	9.567	(0.827)	22529	5.00000	5.47308
73 Ethyl methacrylate	69	10.305	10.305	(0.890)	173148	10.0000	9.54736
79 Tetrahydrothiophene	60	10.994	10.993	(1.273)	40250	5.00000	4.89830
91 c-1,4-Dichloro-2-butene	53	12.636	12.636	(1.092)	24747	5.00000	4.42664
95 t-1,4-Dichloro-2-butene	53	12.941	12.941	(0.913)	26933	5.00000	4.46390
109 1,2,3-Trimethylbenzene	105	14.240	14.239	(1.004)	554502	5.00000	4.63097

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6227.d
Lab Smp Id: SUPP005
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2342
Client Smp ID: SUPP005
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1149959	574980	2299918	1063219	-7.54
82 Chlorobenzene-d5	302802	151401	605604	291622	-3.69
107 1,4-Dichlorobenze	475530	237765	951060	441640	-7.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.63	8.13	9.13	8.63	0.00
82 Chlorobenzene-d5	11.57	11.07	12.07	11.57	0.00
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.00

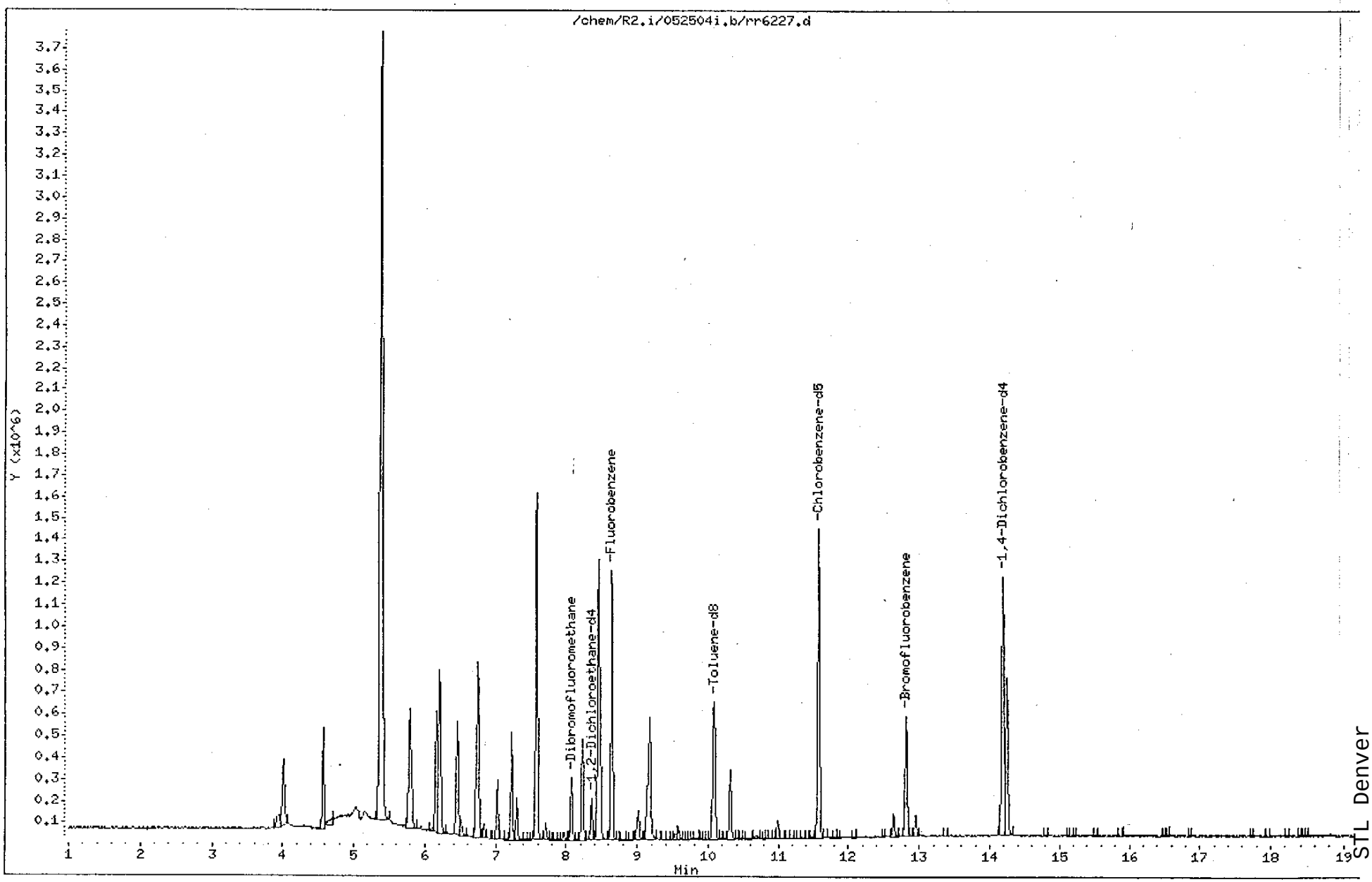
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/R2.i/052504i.b/rr6227.d
Date : 25-MAY-2004 23:17
Client ID: SUPP005
Sample Info: SUPP005,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj
Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6228.d
Lab Smp Id: SUPP010 Client Smp ID: SUPP010
Inj Date : 25-MAY-2004 23:42
Operator : reinharj Inst ID: R2.i
Smp Info : SUPP010,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 26-May-2004 01:03 meierg Quant Type: ISTD
Cal Date : 25-MAY-2004 23:42 Cal File: rr6228.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 56 Fluorobenzene	96	8.633	8.633	(1.000)	1149959	10.0000	
* 82 Chlorobenzene-d5	119	11.574	11.574	(1.000)	302802	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.181	14.180	(1.000)	475530	10.0000	
$ 46 Dibromofluoromethane	111	8.073	8.062	(0.935)	380615	10.0000	9.96940
$ 52 1,2-Dichloroethane-d4	65	8.358	8.357	(0.968)	275337	10.0000	9.04097
$ 70 Toluene-d8	98	10.079	10.079	(0.871)	1103827	10.0000	9.93308
$ 93 Bromofluorobenzene	95	12.804	12.803	(1.106)	523005	10.0000	9.84163
4 dichlorotetrafluoroethane	85	4.571	4.570	(0.529)	578989	10.0000	9.58208
7 Ethylene Oxide	43	5.377	5.347	(0.623)	3218178	1250.00	1220.17
10 Dichlorofluoromethane	67	5.790	5.780	(0.671)	1632814	10.0000	9.97204
13 1,2-dichloro-1,1,2-trifluoroet	117	6.164	6.154	(0.714)	540717	10.0000	10.2242
14 Ethyl Ether	59	6.204	6.193	(0.719)	293852	10.0000	9.85221
15 2,2-dichloro-1,1,1-trifluoroet	83	6.204	6.203	(0.719)	935071	10.0000	9.88316
17 Trichlorotrifluoroethane	151	6.450	6.449	(0.747)	375449	10.0000	9.57290
20 2-Propanol	45	6.499	6.498	(0.753)	194885	200.000	197.734
23 Methyl acetate	43	6.715	6.714	(0.778)	610420	50.0000	49.8979

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	Carbon Disulfide	76	6.735	6.734	(0.780)	1576221	10.0000	9.87230
25	Allyl Chloride	41	6.754	6.754	(0.782)	613891	10.0000	9.88940
29	Methyl t-butyl ether	73	7.020	7.019	(0.813)	482957	10.0000	10.2019
31	Hexane	57	7.227	7.226	(0.837)	377256	10.0000	9.69610
32	Vinyl acetate	43	7.305	7.305	(0.846)	536720	20.0000	20.0547
36	ETBE	59	7.581	7.570	(0.878)	3071977	50.0000	50.1421
38	Ethyl Acetate	43	7.709	7.698	(0.893)	186012	20.0000	19.7017
45	Tetrahydrofuran	42	7.964	7.954	(0.923)	50583	20.0000	20.7719
49	Cyclohexane	56	8.230	8.229	(0.953)	455037	10.0000	9.78365
55	TAME	73	8.456	8.456	(0.979)	2469589	50.0000	49.3470
59	2-Pentanone	43	9.007	9.006	(1.043)	343562	40.0000	39.4120
60	Methyl Methacrylate	100	9.135	9.134	(1.058)	58359	20.0000	18.8480
62	Methyl cyclohexane	55	9.174	9.174	(1.063)	458109	10.0000	9.31709
66	2-nitropropane	41	9.528	9.528	(0.823)	41021	10.0000	9.08211
67	2-Chloroethyl vinyl ether	63	9.568	9.567	(0.827)	50299	10.0000	11.2700
73	Ethyl methacrylate	69	10.305	10.305	(0.890)	395896	20.0000	20.7580
79	Tetrahydrothiophene	60	10.994	10.993	(1.273)	92338	10.0000	10.2894
91	c-1,4-Dichloro-2-butene	53	12.637	12.636	(1.092)	54345	10.0000	9.51382
95	t-1,4-Dichloro-2-butene	53	12.942	12.941	(0.913)	55624	10.0000	8.88139
109	1,2,3-Trimethylbenzene	105	14.240	14.239	(1.004)	1267370	10.0000	9.87211

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6228.d
Lab Smp Id: SUPP010
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2342
Client Smp ID: SUPP010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1149959	574980	2299918	1149959	0.00
82 Chlorobenzene-d5	302802	151401	605604	302802	0.00
107 1,4-Dichlorobenze	475530	237765	951060	475530	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.63	8.13	9.13	8.63	0.00
82 Chlorobenzene-d5	11.57	11.07	12.07	11.57	0.00
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.00

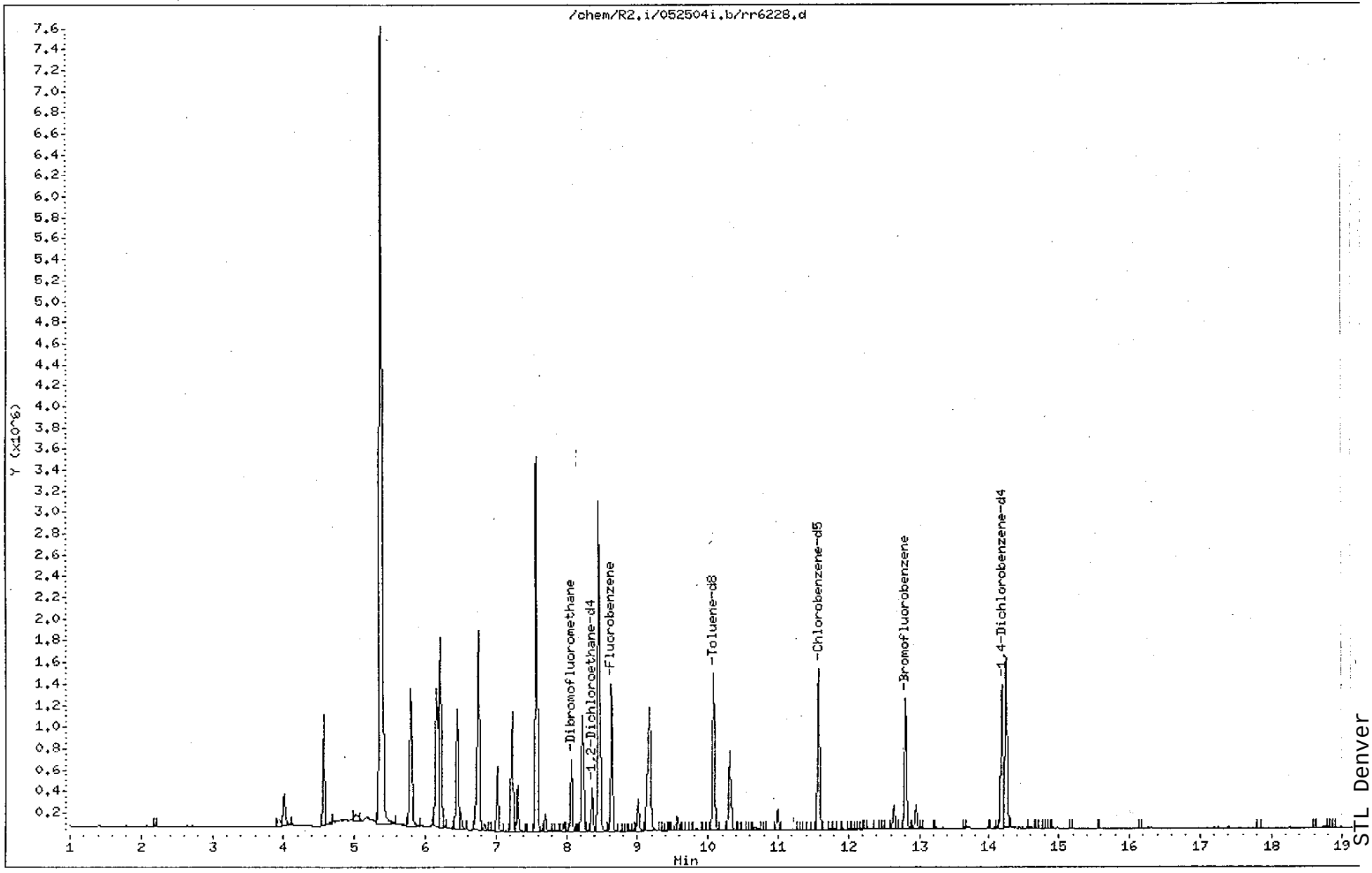
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/R2.i/052504i.b/rr6228.d
Date : 25-MAY-2004 23:42
Client ID: SUPP010
Sample Info: SUPP010,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj
Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6229.d
Lab Smp Id: SUPP030 Client Smp ID: SUPP030
Inj Date : 26-MAY-2004 00:06
Operator : reinharj Inst ID: R2.i
Smp Info : SUPP030,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 26-May-2004 01:03 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:06 Cal File: rr6229.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.636	8.633	(1.000)	1135546	10.0000	
* 82	Chlorobenzene-d5	119	11.577	11.574	(1.000)	316134	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.174	14.180	(1.000)	469660	10.0000	
$ 46	Dibromofluoromethane	111	8.065	8.062	(0.934)	751008	20.0000	21.3557
$ 52	1,2-Dichloroethane-d4	65	8.360	8.357	(0.968)	584315	20.0000	20.9030
$ 70	Toluene-d8	98	10.072	10.079	(0.870)	2194417	20.0000	20.4237
$ 93	Bromofluorobenzene	95	12.797	12.803	(1.105)	1071135	20.0000	20.7881
4	dichlorotetrafluoroethane	85	4.573	4.570	(0.530)	1709634	30.0000	28.9126
7	Ethylene Oxide	43	5.360	5.347	(0.621)	8663720	3750.00	3403.40
10	Dichlorofluoromethane	67	5.783	5.780	(0.670)	4681943	30.0000	29.1596
13	1,2-dichloro-1,1,2-trifluoroet	117	6.157	6.154	(0.713)	1520556	30.0000	29.2892
14	Ethyl Ether	59	6.196	6.193	(0.718)	826710	30.0000	28.4355
15	2,2-dichloro-1,1,1-trifluoroet	83	6.206	6.203	(0.719)	2685228	30.0000	28.9847
17	Trichlorotrifluoroethane	151	6.442	6.449	(0.746)	1138433	30.0000	29.5143
20	2-Propanol	45	6.492	6.498	(0.752)	559075	500.000	557.836
23	Methyl acetate	43	6.708	6.714	(0.777)	1685810	150.000	141.524

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24	Carbon Disulfide	76	6.737	6.734	(0.780)	4434014	30.0000	28.4801
25	Allyl Chloride	41	6.747	6.754	(0.781)	1708130	30.0000	28.2683
29	Methyl t-butyl ether	73	7.023	7.019	(0.813)	1364239	30.0000	29.3836
31	Hexane	57	7.229	7.226	(0.837)	1087164	30.0000	28.6216
32	Vinyl acetate	43	7.298	7.305	(0.845)	1567240	60.0000	59.4417
36	ETBE	59	7.574	7.570	(0.877)	8434163	150.000	141.409
38	Ethyl Acetate	43	7.701	7.698	(0.892)	570179	60.0000	60.9228
45	Tetrahydrofuran	42	7.957	7.954	(0.921)	127058	60.0000	54.4637
49	Cyclohexane	56	8.223	8.229	(0.952)	1308437	30.0000	28.7793
55	TAME	73	8.459	8.456	(0.979)	6967219	150.000	142.700
59	2-Pentanone	43	9.010	9.006	(1.043)	979475	120.000	114.978
60	Methyl Methacrylate	100	9.138	9.134	(1.058)	166254	60.0000	55.4148
62	Methyl cyclohexane	55	9.167	9.174	(1.062)	1375919	30.0000	28.6562
66	2-nitropropane	41	9.531	9.528	(0.823)	118537	30.0000	25.9797
67	2-Chloroethyl vinyl ether	63	9.570	9.567	(0.827)	160737	30.0000	33.4921
73	Ethyl methacrylate	69	10.308	10.305	(0.890)	1125217	60.0000	57.1756
79	Tetrahydrothiophene	60	10.987	10.993	(1.272)	254513	30.0000	28.9679
91	c-1,4-Dichloro-2-butene	53	12.639	12.636	(1.092)	155208	30.0000	26.7337
95	t-1,4-Dichloro-2-butene	53	12.944	12.941	(0.913)	161476	30.0000	26.8008
109	1,2,3-Trimethylbenzene	105	14.243	14.239	(1.005)	3662801	30.0000	29.1036

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6229.d
Lab Smp Id: SUPP030
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/25/4
Calibration Time: 2342
Client Smp ID: SUPP030
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1149959	574980	2299918	1135546	-1.25
82 Chlorobenzene-d5	302802	151401	605604	316134	4.40
107 1,4-Dichlorobenze	475530	237765	951060	469660	-1.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.63	8.13	9.13	8.64	0.03
82 Chlorobenzene-d5	11.57	11.07	12.07	11.58	0.02
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.17	-0.05

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

Data File: /chem/R2.i/052504i.b/rr6229.d

Date : 26-MAY-2004 00:06

Client ID: SUPP030

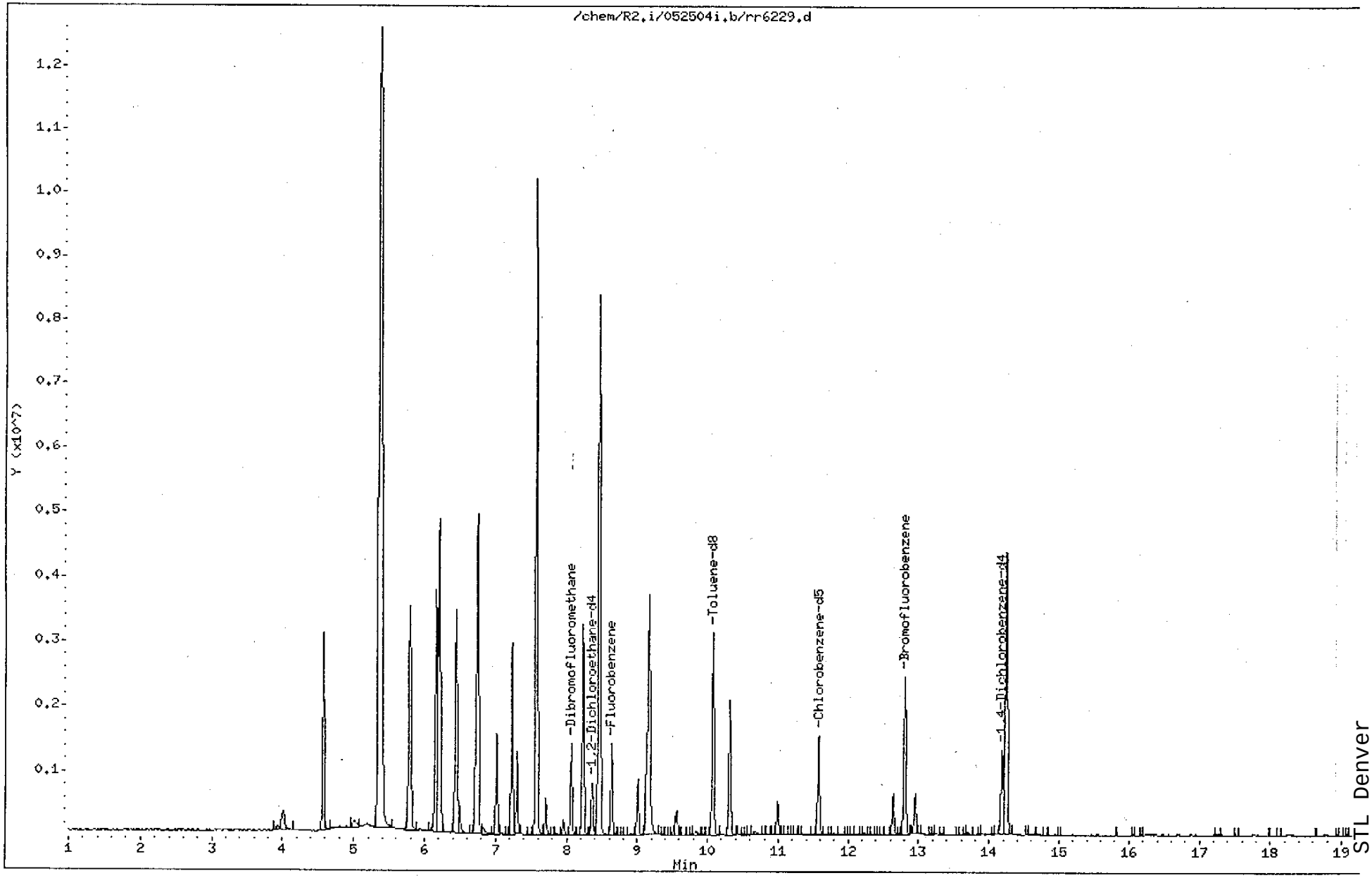
Sample Info: SUPP030,,

Column phase: HP624

Instrument: R2.i

Operator: reinharj

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052504i.b/rr6230.d
Lab Smp Id: SUPP060 Client Smp ID: SUPP060
Inj Date : 26-MAY-2004 00:31
Operator : reinharj Inst ID: R2.i
Smp Info : SUPP060,,
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052504i.b/R2-20ml-h2o.m
Meth Date : 26-May-2004 01:03 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56 Fluorobenzene	96	8.633	8.633	(1.000)	1166661	10.0000	
* 82 Chlorobenzene-d5	119	11.574	11.574	(1.000)	312758	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.180	14.180	(1.000)	468023	10.0000	
$ 46 Dibromofluoromethane	111	8.062	8.062	(0.934)	1126360	30.0000	29.1033
$ 52 1,2-Dichloroethane-d4	65	8.357	8.357	(0.968)	877712	30.0000	28.5708
$ 70 Toluene-d8	98	10.079	10.079	(0.871)	3396480	30.0000	29.9160
$ 93 Bromofluorobenzene	95	12.803	12.803	(1.106)	1689436	30.0000	30.9940
4 dichlorotetrafluoroethane	85	4.570	4.570	(0.529)	3558990	60.0000	58.8145
7 Ethylene Oxide	43	5.347	5.347	(0.619)	16502547	7500.00	6481.26
10 Dichlorofluoromethane	67	5.780	5.780	(0.670)	9904770	60.0000	60.0356(A)
13 1,2-dichloro-1,1,2-trifluoroet	117	6.154	6.154	(0.713)	3087789	60.0000	58.2323
14 Ethyl Ether	59	6.193	6.193	(0.717)	1643092	60.0000	55.7820
15 2,2-dichloro-1,1,1-trifluoroet	83	6.203	6.203	(0.719)	5408041	60.0000	57.3249
17 Trichlorotrifluoroethane	151	6.449	6.449	(0.747)	2338177	60.0000	59.1655
20 2-Propanol	45	6.498	6.498	(0.753)	1194078	1000.00	1129.60
23 Methyl acetate	43	6.714	6.714	(0.778)	3585525	300.000	294.126

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24 Carbon Disulfide	76	6.734	6.734	(0.780)	9408286	60.0000	59.0124
25 Allyl Chloride	41	6.754	6.754	(0.782)	3660281	60.0000	59.1303
29 Methyl t-butyl ether	73	7.019	7.019	(0.813)	2905541	60.0000	60.7273(A)
31 Hexane	57	7.226	7.226	(0.837)	2317337	60.0000	59.4834
32 Vinyl acetate	43	7.305	7.305	(0.846)	3017336	120.000	112.737
36 ETBE	59	7.570	7.570	(0.877)	14412997	300.000	235.207
38 Ethyl Acetate	43	7.698	7.698	(0.892)	1154267	120.000	120.035(A)
45 Tetrahydrofuran	42	7.954	7.954	(0.921)	282778	120.000	118.379
49 Cyclohexane	56	8.229	8.229	(0.953)	2660330	60.0000	57.4398
55 TAME	73	8.456	8.456	(0.979)	13906557	300.000	280.785
59 2-Pentanone	43	9.006	9.006	(1.043)	1991621	240.000	229.540
60 Methyl Methacrylate	100	9.134	9.134	(1.058)	350788	120.000	114.792
62 Methyl cyclohexane	55	9.174	9.174	(1.063)	2788751	60.0000	57.0820
66 2-nitropropane	41	9.528	9.528	(0.823)	253211	60.0000	56.7102
67 2-Chloroethyl vinyl ether	63	9.567	9.567	(0.827)	388787	60.0000	77.1919(A)
73 Ethyl methacrylate	69	10.305	10.305	(0.890)	2345993	120.000	120.411(A)
79 Tetrahydrothiophene	60	10.993	10.993	(1.273)	537470	60.0000	59.6176
91 c-1,4-Dichloro-2-butene	53	12.636	12.636	(1.092)	344704	60.0000	60.0119(A)
95 t-1,4-Dichloro-2-butene	53	12.941	12.941	(0.913)	342243	60.0000	57.4808
109 1,2,3-Trimethylbenzene	105	14.239	14.239	(1.004)	7776202	60.0000	61.6604(A)

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6230.d
Lab Smp Id: SUPP060
Analysis Type: VOA
Quant Type: ISTD
Operator: reinharj
Method File: /chem/R2.i/052504i.b/R2-20ml-h2o.m
Misc Info:

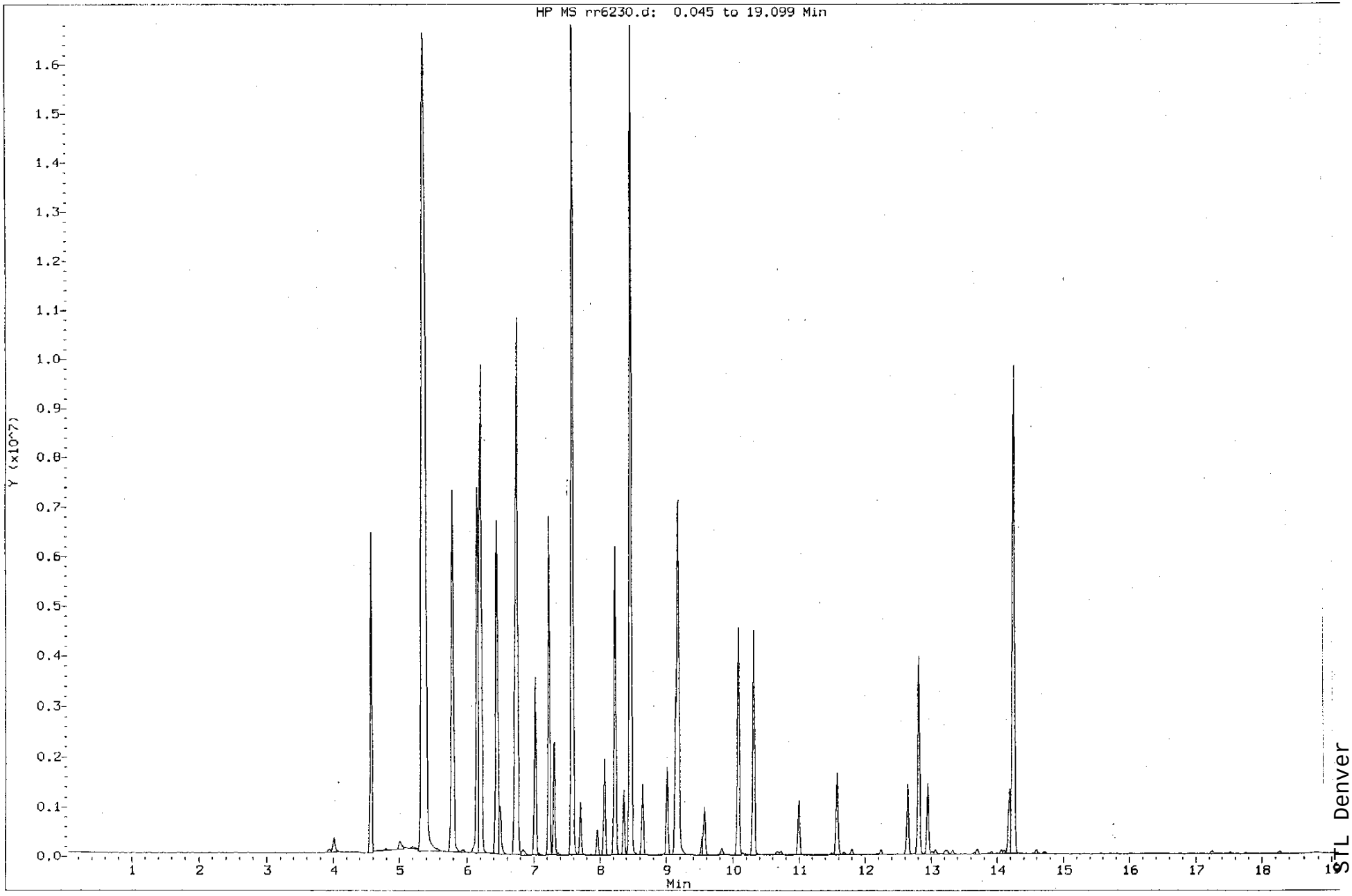
Calibration Date: 05/25/4
Calibration Time: 2342
Client Smp ID: SUPP060
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1149959	574980	2299918	1166661	1.45
82 Chlorobenzene-d5	302802	151401	605604	312758	3.29
107 1,4-Dichlorobenze	475530	237765	951060	468023	-1.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.63	8.13	9.13	8.63	-0.01
82 Chlorobenzene-d5	11.57	11.07	12.07	11.57	-0.01
107 1,4-Dichlorobenze	14.18	13.68	14.68	14.18	0.00

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

Data File: /chem/R2.i/052504i.b/rr6230.d
Injection Date: 26-MAY-2004 00:31
Instrument: R2.i
Client Sample ID: SUPP060



GC/MS Continuing Calibration Review Checklist

STL Denver

Instrument ID and Date: R2 5/27/04

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			✓	
4. Does %D meet criteria for non-CCC compounds?	✓			✓	
5. Isomeric pairs checked for correct peak assignment?	✓			✓	
6. Standards traceability properly documented?	✓			✓	
7. Manual integrations documented and checked?			✓	✓	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			✓	

1st Level Reviewer: GM Date: 5/27/04

2nd Level Reviewer: CM Date: 5/27/04

Report Date: 27-May-2004 17:49

Calibration History

Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Start Cal Date: 25-MAY-2004 19:05
End Cal Date : 26-MAY-2004 00:31

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
25-MAY-2004 22:27	2-supp	/chem/R2.i/052504i.b/rr6225.d
25-MAY-2004 19:05	1-main	/chem/R2.i/052504i.b/rr6218.d
Cal Level: 2 , Cal Amount: 2.00000		
25-MAY-2004 22:52	2-supp	/chem/R2.i/052504i.b/rr6226.d
25-MAY-2004 19:31	1-main	/chem/R2.i/052504i.b/rr6219.d
Cal Level: 3 , Cal Amount: 5.00000		
25-MAY-2004 23:17	2-supp	/chem/R2.i/052504i.b/rr6227.d
25-MAY-2004 19:56	1-main	/chem/R2.i/052504i.b/rr6220.d
Cal Level: 4 , Cal Amount: 10.0000		
25-MAY-2004 23:42	2-supp	/chem/R2.i/052504i.b/rr6228.d
25-MAY-2004 20:21	1-main	/chem/R2.i/052504i.b/rr6221.d
Cal Level: 5 , Cal Amount: 30.0000		
26-MAY-2004 00:06	2-supp	/chem/R2.i/052504i.b/rr6229.d
25-MAY-2004 20:46	1-main	/chem/R2.i/052504i.b/rr6222.d
Cal Level: 6 , Cal Amount: 60.0000		
26-MAY-2004 00:31	2-supp	/chem/R2.i/052504i.b/rr6230.d
25-MAY-2004 21:11	1-main	/chem/R2.i/052504i.b/rr6223.d

Continuing Calibration

27-MAY-2004 16:04	2-supp	/chem/R2.i/052704.b/rr6281.d
27-MAY-2004 15:39	1-main	/chem/R2.i/052704.b/rr6280.d

Data File: /chem/R2.i/052704.b/rr6279.d

Date : 27-MAY-2004 15:26

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,

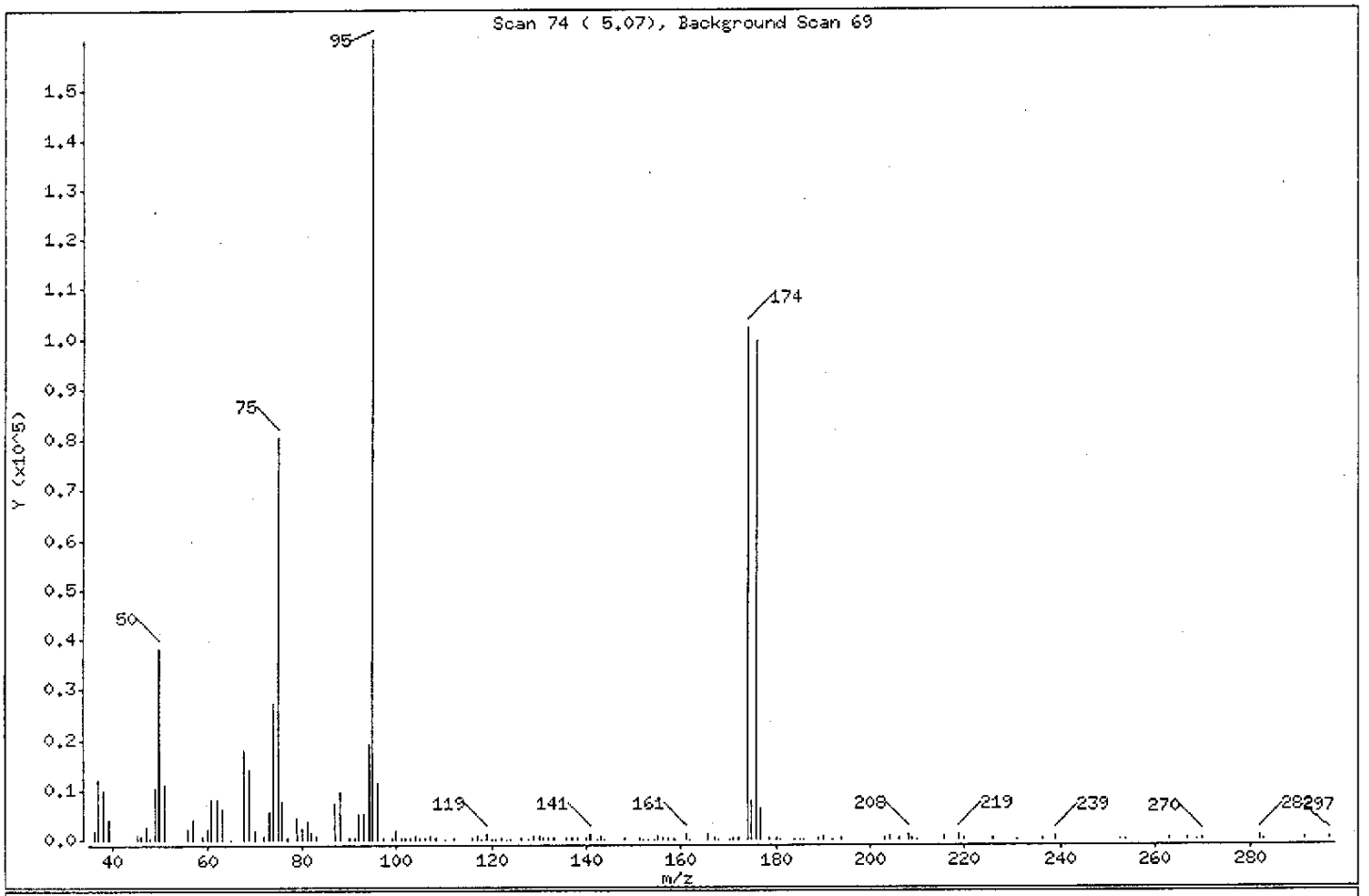
Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

Column diameter: 0.32

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	23.99
75	30.00 - 60.00% of mass 95	50.27
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	63.87
175	5.00 - 9.00% of mass 174	4.94 (7.73)
176	95.00 - 101.00% of mass 174	62.27 (97.50)
177	5.00 - 9.00% of mass 176	3.93 (6.31)

Gm 5/27

Data File: /chem/R2.i/052704.b/rr6279.d

Date : 27-MAY-2004 15:26

Client ID: BFB

Instrument: R2.i

Sample Info: BFB,,

Volume Injected (uL): 2.0

Operator: meierg

Column phase: HP624

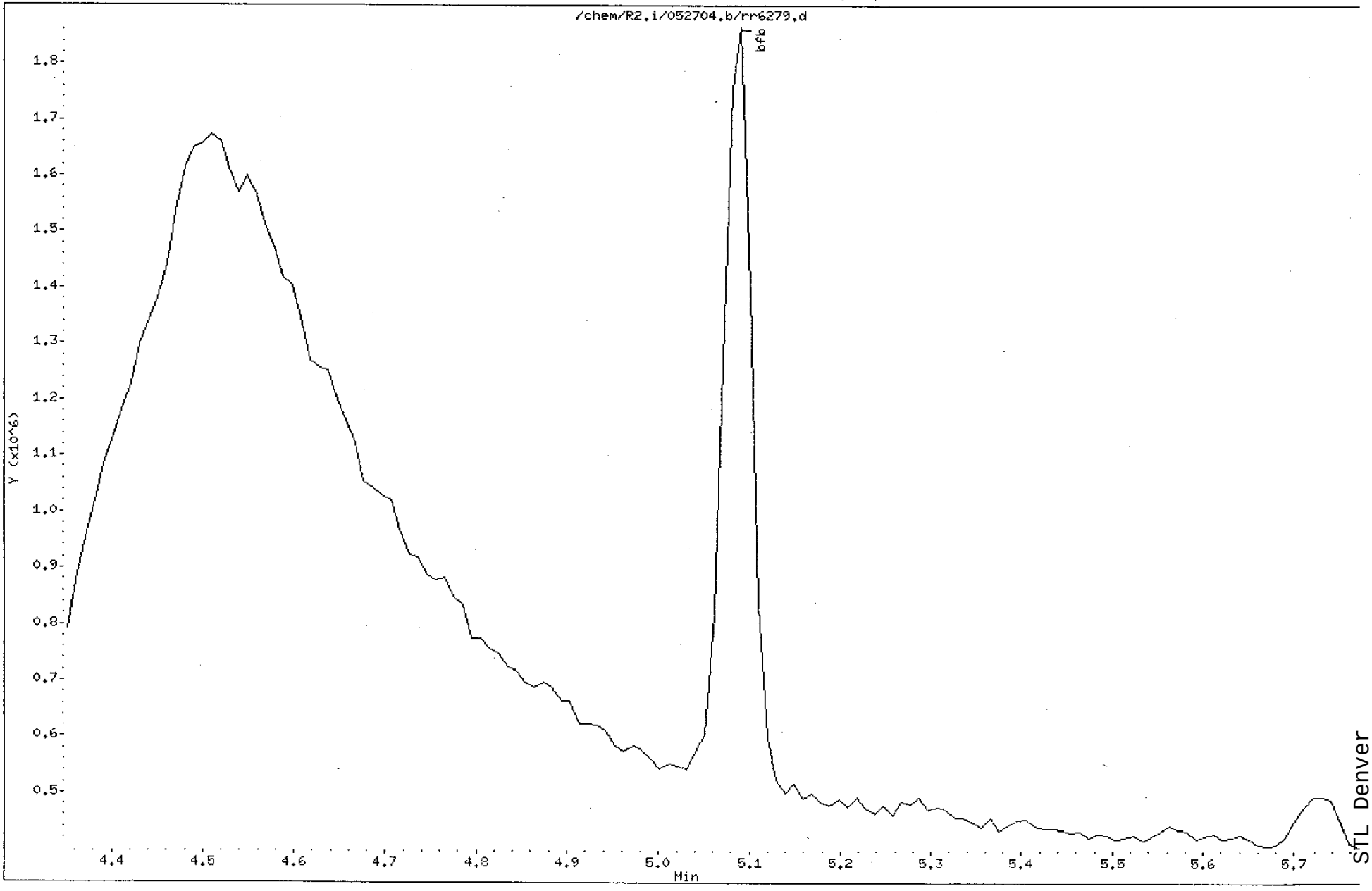
Column diameter: 0.32

Data File: rr6279.d
Spectrum: Scan 74 (5.07), Background Scan 69
Location of Maximum: 94.95
Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.85	1788	87.85	9425	130.90	264	180.10	266
36.95	12002	89.85	293	131.80	386	180.90	119
37.95	9776	90.95	420	132.90	457	183.80	106
38.95	4017	91.95	5222	135.90	523	184.90	130
45.00	1048	92.85	5302	136.80	343	185.90	54
46.00	568	93.95	19120	137.95	319	188.90	210
46.90	2444	94.95	159744	139.95	293	189.90	716
48.00	311	95.95	11280	140.85	1107	191.95	73
48.90	10310	96.95	257	142.05	180	193.95	246
49.90	38320	98.90	463	142.85	779	202.95	279
50.90	11066	99.90	1886	143.85	102	204.30	719
55.90	2061	100.80	390	147.85	468	205.90	350
56.90	4029	101.90	219	151.10	450	207.90	1086
59.05	612	102.80	396	151.90	136	208.90	260
59.95	2373	103.90	861	153.00	160	209.80	37
60.95	8008	104.90	510	154.00	30	215.60	589
61.95	8246	105.80	461	154.90	657	218.85	992
62.95	6322	106.90	692	156.00	406	219.85	267
64.85	174	108.40	534	157.00	453	225.95	287
67.85	17880	110.00	84	158.10	426	230.90	33
68.85	14024	111.95	189	158.80	149	236.40	258
69.95	1787	115.95	252	161.00	1130	239.00	595
71.90	673	116.95	874	161.90	141	252.85	119
73.00	5467	117.95	139	165.65	1029	253.75	56
73.90	27256	118.95	951	167.25	490	263.00	253
74.90	80320	119.95	107	167.95	127	266.90	252
75.90	7547	120.75	27	170.05	133	268.90	155
76.90	348	121.85	394	170.85	285	270.00	261
78.80	4305	123.05	94	172.05	266	281.95	675
79.90	2325	123.80	177	173.85	102048	282.95	20
80.90	3812	126.00	243	174.85	7890	291.60	265
81.90	1333	127.90	173	175.85	99496	297.15	368
83.00	739	129.00	685	176.75	6280		
86.85	7525	129.90	784	178.60	224		

Data File: /chem/R2.i/052704.b/rr6279.d
Date : 27-MAY-2004 15:26
Client ID: BFB
Sample Info: BFB,,
Volume Injected (uL): 2.0
Column phase: HP624

Instrument: R2.i
Operator: meierg
Column diameter: 0.32



CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER

Injection Date: 27-MAY-2004 15:39
Lab Sample ID: MAIN010
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
83	Xylene (total)	30.0000	31.7639	5.9	50.0
85	1,2-Dichloroethene (total)	20.0000	20.2559	1.3	50.0
64	dichlorodifluoromethane	10.0000	9.0767	9.2	50.0
1	Chloromethane	10.0000	8.4174	15.8	50.0
4	Vinyl Chloride	10.0000	8.5648	14.4	20.0
2	Bromomethane	10.0000	5.0127	49.9	50.0
5	Chloroethane	10.0000	8.9586	10.4	50.0
11	Trichlorofluoromethane	10.0000	8.6378	13.6	50.0
3	Ethanol	500.0000	529.5658	5.9	50.0
8	Acrolein	100.0000	103.0934	3.1	50.0
7	Acetone	40.0000	39.9425	0.1	50.0
12	1,1-Dichloroethene	10.0000	10.1324	1.3	20.0
21	Iodomethane	10.0000	9.0307	9.7	50.0
68	Acetonitrile	100.0000	105.3960	5.4	50.0
86	tert-Butyl alcohol	200.0000	203.5011	1.8	50.0
6	Methylene Chloride	10.0000	9.9129	0.9	50.0
9	Acrylonitrile	100.0000	100.8451	0.8	50.0
0	trans-1,2-Dichloroethene	10.0000	10.0353	0.4	50.0
84	Isopropyl ether	50.0000	48.3330	3.3	50.0
15	1,1-Dichloroethane	10.0000	9.5196	4.8	50.0
69	Chloroprene	10.0000	10.1303	1.3	50.0
20	2-Butanone	40.0000	42.5388	6.3	50.0
70	Propionitrile	100.0000	102.0227	2.0	50.0
0	cis-1,2-Dichloroethene	10.0000	10.2206	2.2	50.0
93	2,2-Dichloropropane	10.0000	10.8666	8.7	50.0
72	Methacrylonitrile	100.0000	102.5232	2.5	50.0
13	Bromochloromethane	10.0000	10.2860	2.9	50.0
17	Chloroform	10.0000	10.3202	3.2	20.0
22	1,1,1-Trichloroethane	10.0000	10.6133	6.1	50.0
71	Isobutanol	200.0000	220.0799	10.0	50.0
94	1,1-Dichloropropene	10.0000	10.2388	2.4	50.0
23	Carbon Tetrachloride	10.0000	9.9130	0.9	50.0
16	1,2-Dichloroethane	10.0000	10.5852	5.9	50.0
30	Benzene	10.0000	10.2705	2.7	50.0
88	n-Butanol	200.0000	207.7217	3.9	50.0
29	Trichloroethene	10.0000	10.5588	5.6	50.0
26	1,2-Dichloropropane	10.0000	9.8733	1.3	20.0
57	1,4-Dioxane	500.0000	502.0476	0.4	50.0
34	Dibromomethane	10.0000	10.0770	0.8	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER

Injection Date: 27-MAY-2004 15:39
Lab Sample ID: MAIN010
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
25	Bromodichloromethane	10.0000	10.2634	2.6	50.0
28	cis-1,3-Dichloropropene	10.0000	10.3807	3.8	50.0
38	4-Methyl-2-pentanone	40.0000	42.1034	5.3	50.0
45	Toluene	10.0000	10.6179	6.2	20.0
31	trans-1,3-Dichloropropene	10.0000	10.3121	3.1	50.0
32	1,1,2-Trichloroethane	10.0000	10.4070	4.1	50.0
43	2-Hexanone	40.0000	42.3026	5.8	50.0
109	1,3-Dichloropropane	10.0000	10.4937	4.9	50.0
42	Tetrachloroethene	10.0000	10.0105	0.1	50.0
36	Dibromochloromethane	10.0000	10.4020	4.0	50.0
58	1,2-Dibromoethane	10.0000	10.3260	3.3	50.0
92	1-Chlorohexane	10.0000	10.0203	0.2	50.0
46	Chlorobenzene	10.0000	10.2502	2.5	50.0
74	1,1,1,2-Tetrachloroethane	10.0000	10.1733	1.7	50.0
47	Ethylbenzene	10.0000	10.3705	3.7	20.0
0	m and p-Xylene	20.0000	21.2438	6.2	50.0
0	o-Xylene	10.0000	10.5201	5.2	50.0
49	Styrene	10.0000	10.6527	6.5	50.0
37	Bromoform	10.0000	10.2406	2.4	50.0
79	isopropyl benzene	10.0000	10.2800	2.8	50.0
76	Cyclohexanone	400.0000	341.8136	14.5	50.0
40	1,1,2,2-Tetrachloroethane	10.0000	10.5858	5.9	50.0
50	1,2,3-Trichloropropane	10.0000	9.7288	2.7	50.0
95	Bromobenzene	10.0000	9.8560	1.4	50.0
96	n-Propylbenzene	10.0000	10.0350	0.3	50.0
97	2-Chlorotoluene	10.0000	9.6112	3.9	50.0
98	1,3,5-Trimethylbenzene	10.0000	9.4807	5.2	50.0
99	4-Chlorotoluene	10.0000	9.6418	3.6	50.0
100	tert-Butylbenzene	10.0000	9.4258	5.7	50.0
101	1,2,4-Trimethylbenzene	10.0000	9.5592	4.4	50.0
102	sec-Butylbenzene	10.0000	9.3500	6.5	50.0
103	4-Isopropyltoluene	10.0000	9.7349	2.7	50.0
61	m-Dichlorobenzene	10.0000	9.8185	1.8	50.0
62	p-dichlorobenzene	10.0000	10.1358	1.4	50.0
104	n-Butylbenzene	10.0000	9.6814	3.2	50.0
63	o-Dichlorobenzene	10.0000	9.9443	0.6	50.0
75	1,2-Dibromo-3-chloropropane	10.0000	9.1362	8.6	50.0
105	1,2,4-Trichlorobenzene	10.0000	10.0101	0.1	50.0
106	Hexachlorobutadiene	10.0000	9.3415	6.6	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER

Injection Date: 27-MAY-2004 15:39
Lab Sample ID: MAIN010
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
107 Napthalene	10.0000	9.3641	6.4	50.0
108 1,2,3-Trichlorobenzene	10.0000	9.6780	3.2	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 27-MAY-2004 15:39
Init. Calibration Date(s): 05/25/4 05/26/4
Init. Calibration Times: 19:05 00:31
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
M	1 1,2-Dichloroethene (total)	0.264	0.267	0.010	-1.3	50.0
M	2 Xylene (total)	5.845	6.189	0.010	-5.9	50.0
	3 dichlorodifluoromethane	0.924	0.838	0.010	9.2	50.0
	5 Chloromethane	0.443	0.373	0.100	15.8	50.0
	6 Vinyl Chloride	0.420	0.359	0.020	14.4	20.0
	8 Bromomethane	0.566	0.284	0.010	49.9	50.0
	9 Chloroethane	0.595	0.533	0.010	10.4	50.0
	11 Trichlorofluoromethane	1.037	0.895	0.010	13.6	50.0
	12 Ethanol	0.002	0.003	0.000	-5.9	50.0
	16 Acrolein	0.032	0.033	0.001	-3.1	50.0
	19 1,1-Dichloroethene	0.361	0.366	0.020	-1.3	20.0
	18 Acetone	0.044	0.044	0.001	0.1	50.0
	21 Iodomethane	0.585	0.528	0.010	9.7	50.0
	22 Acetonitrile	0.016	0.017	0.000	-5.4	50.0
	27 Methylene Chloride	0.305	0.302	0.010	0.9	50.0
	26 tert-Butyl alcohol	0.009	0.009	0.001	-1.8	50.0
	28 Acrylonitrile	0.033	0.033	0.001	-0.8	50.0
	30 trans-1,2-Dichloroethene	0.266	0.267	0.010	-0.4	50.0
	34 1,1-Dichloroethane	0.456	0.434	0.100	4.8	50.0
	33 Isopropyl ether	0.131	0.127	0.010	3.3	50.0
	35 Chloroprene	0.390	0.395	0.010	-1.3	50.0
	40 cis-1,2-Dichloroethene	0.261	0.267	0.010	-2.2	50.0
	37 2-Butanone	0.038	0.041	0.010	-6.3	50.0
	41 2,2-Dichloropropane	0.427	0.464	0.010	-8.7	50.0
	39 Propionitrile	0.010	0.010	0.001	-2.0	50.0
	42 Methacrylonitrile	0.065	0.067	0.010	-2.5	50.0
	43 Bromochloromethane	0.105	0.108	0.010	-2.9	50.0
	44 Chloroform	0.513	0.530	0.020	-3.2	20.0
	47 1,1,1-Trichloroethane	0.489	0.519	0.010	-6.1	50.0
	50 1,1-Dichloropropene	0.380	0.389	0.010	-2.4	50.0
	51 Carbon Tetrachloride	0.438	0.435	0.010	0.9	50.0
	48 Isobutanol	0.002	0.003	0.000	-10.0	50.0
	54 Benzene	0.902	0.926	0.010	-2.7	50.0
	53 1,2-Dichloroethane	0.296	0.313	0.010	-5.9	50.0
	57 n-Butanol	0.002	0.002	0.000	-3.9	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 27-MAY-2004 15:39
Init. Calibration Date(s): 05/25/4 05/26/4
Init. Calibration Times: 19:05 00:31
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
58	Trichloroethene	0.275	0.290	0.010	-5.6	50.0
61	1,2-Dichloropropane	0.240	0.237	0.020	1.3	20.0
64	Dibromomethane	0.153	0.154	0.010	-0.8	50.0
63	1,4-Dioxane	0.001	0.001	0.000	-0.4	50.0
65	Bromodichloromethane	0.390	0.401	0.010	-2.6	50.0
68	cis-1,3-Dichloropropene	1.496	1.553	0.010	-3.8	50.0
69	4-Methyl-2-pentanone	0.406	0.428	0.010	-5.3	50.0
71	Toluene	4.131	4.387	0.020	-6.2	20.0
72	trans-1,3-Dichloropropene	1.231	1.269	0.010	-3.1	50.0
74	1,1,2-Trichloroethane	0.604	0.628	0.010	-4.1	50.0
76	1,3-Dichloropropane	1.002	1.052	0.010	-4.9	50.0
77	Tetrachloroethene	1.043	1.044	0.010	-0.1	50.0
75	2-Hexanone	0.291	0.307	0.010	-5.8	50.0
78	Dibromochloromethane	1.021	1.062	0.010	-4.0	50.0
80	1,2-Dibromoethane	0.728	0.751	0.010	-3.3	50.0
81	1-Chlorohexane	1.895	1.899	0.010	-0.2	50.0
83	Chlorobenzene	2.984	3.059	0.300	-2.5	50.0
84	1,1,1,2-Tetrachloroethane	1.099	1.119	0.010	-1.7	50.0
85	Ethylbenzene	1.592	1.651	0.020	-3.7	20.0
86	m and p-Xylene	1.947	2.068	0.010	-6.2	50.0
87	o-Xylene	1.951	2.053	0.010	-5.2	50.0
88	Styrene	3.201	3.410	0.010	-6.5	50.0
89	Bromoform	0.647	0.663	0.101	-2.4	50.0
90	isopropyl benzene	5.691	5.850	0.010	-2.8	50.0
92	Cyclohexanone	0.022	0.019	0.001	14.5	50.0
94	1,1,2,2-Tetrachloroethane	0.838	0.887	0.300	-5.9	50.0
97	Bromobenzene	0.876	0.863	0.010	1.4	50.0
96	1,2,3-Trichloropropane	0.111	0.108	0.010	2.7	50.0
98	n-Propylbenzene	0.864	0.867	0.010	-0.3	50.0
99	2-Chlorotoluene	0.808	0.776	0.010	3.9	50.0
100	1,3,5-Trimethylbenzene	2.897	2.747	0.010	5.2	50.0
101	4-Chlorotoluene	0.813	0.784	0.010	3.6	50.0
102	tert-Butylbenzene	2.344	2.210	0.010	5.7	50.0
103	1,2,4-Trimethylbenzene	2.815	2.691	0.010	4.4	50.0
104	sec-Butylbenzene	0.594	0.556	0.010	6.5	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 27-MAY-2004 15:39
Init. Calibration Date(s): 05/25/4 05/26/4
Init. Calibration Times: 19:05 00:31
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
106 m-Dichlorobenzene	1.560	1.531	0.010	1.8	50.0
105 4-Isopropyltoluene	2.891	2.815	0.010	2.7	50.0
108 p-dichlorobenzene	1.495	1.515	0.010	-1.4	50.0
110 n-Butylbenzene	2.968	2.873	0.010	3.2	50.0
111 o-Dichlorobenzene	1.276	1.269	0.010	0.6	50.0
112 1,2-Dibromo-3-chloropropane	0.077	0.071	0.010	8.6	50.0
113 1,2,4-Trichlorobenzene	0.703	0.703	0.010	-0.1	50.0
114 Hexachlorobutadiene	0.525	0.490	0.010	6.6	50.0
115 Napthalene	0.707	0.662	0.010	6.4	50.0
116 1,2,3-Trichlorobenzene	0.549	0.531	0.010	3.2	50.0

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6280.d
Lab Smp Id: MAIN010 Client Smp ID: MAIN010
Inj Date : 27-MAY-2004 15:39
Operator : meierg Inst ID: R2.i
Smp Info : MAIN010,,067/083-04
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56	Fluorobenzene	96	8.648	8.642	(1.000)	1234618	10.0000	
* 82	Chlorobenzene-d5	119	11.580	11.584	(1.000)	321484	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.186	14.190	(1.000)	547631	10.0000	
M 1	1,2-Dichloroethene (total)	96				659192	20.0000	20.2559
M 2	Xylene (total)	106				1989630	10.0000	31.7639
3	dichlorodifluoromethane	85	4.360	4.360	(0.504)	1035037	10.0000	9.07666
5	Chloromethane	50	4.665	4.665	(0.539)	460302	10.0000	8.41736
6	Vinyl Chloride	62	4.851	4.851	(0.561)	443768	10.0000	8.56476
8	Bromomethane	94	5.442	5.442	(0.629)	350490	10.0000	5.01271
9	Chloroethane	64	5.589	5.589	(0.646)	658186	10.0000	8.95864
11	Trichlorofluoromethane	101	5.943	5.943	(0.687)	1105498	10.0000	8.63784
12	Ethanol	45	6.012	6.012	(0.695)	161173	500.000	529.566
16	Acrolein	56	6.347	6.347	(0.734)	406230	100.000	103.093
19	1,1-Dichloroethene	96	6.484	6.484	(0.750)	452109	10.0000	10.1324
18	Acetone	43	6.465	6.465	(0.748)	217208	40.0000	39.9425
21	Iodomethane	142	6.652	6.652	(0.769)	652401	10.0000	9.03070

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
22 Acetonitrile	41	6.691	6.691	(0.774)	206758	100.000	105.396
27 Methylene Chloride	84	6.848	6.848	(0.792)	372798	10.0000	9.91295
26 tert-Butyl alcohol	59	6.829	6.829	(0.790)	233436	200.000	203.501
28 Acrylonitrile	53	6.986	6.986	(0.808)	411904	100.000	100.845
30 trans-1,2-Dichloroethene	96	7.055	7.055	(0.816)	329775	10.0000	10.0353
34 1,1-Dichloroethane	63	7.340	7.340	(0.849)	535994	10.0000	9.51963
33 Isopropyl ether	87	7.330	7.330	(0.848)	782856	50.0000	48.3330(Q)
35 Chloroprene	53	7.409	7.409	(0.857)	487256	10.0000	10.1303
40 cis-1,2-Dichloroethene	96	7.743	7.743	(0.895)	329417	10.0000	10.2206
37 2-Butanone	43	7.704	7.704	(0.891)	200460	40.0000	42.5388
41 2,2-Dichloropropane	77	7.763	7.763	(0.898)	573476	10.0000	10.8666
39 Propionitrile	54	7.743	7.743	(0.895)	127168	100.000	102.023
42 Methacrylonitrile	41	7.871	7.871	(0.910)	821250	100.000	102.523
43 Bromochloromethane	128	7.930	7.930	(0.917)	133748	10.0000	10.2860
44 Chloroform	83	7.950	7.950	(0.919)	653977	10.0000	10.3202
47 1,1,1-Trichloroethane	97	8.156	8.156	(0.943)	640480	10.0000	10.6133
50 1,1-Dichloropropene	75	8.275	8.275	(0.957)	479936	10.0000	10.2388
51 Carbon Tetrachloride	117	8.304	8.304	(0.960)	536541	10.0000	9.91298
48 Isobutanol	41	8.176	8.176	(0.945)	66819	200.000	220.080
54 Benzene	78	8.452	8.452	(0.977)	1143792	10.0000	10.2705
53 1,2-Dichloroethane	62	8.422	8.422	(0.974)	386358	10.0000	10.5852
57 n-Butanol	56	8.707	8.707	(1.007)	42678	200.000	207.722
58 Trichloroethene	130	8.963	8.963	(1.036)	358640	10.0000	10.5588
61 1,2-Dichloropropane	63	9.160	9.160	(1.059)	292287	10.0000	9.87333
64 Dibromomethane	93	9.268	9.268	(1.072)	190504	10.0000	10.0770
63 1,4-Dioxane	88	9.239	9.239	(1.068)	57067	500.000	502.048
65 Bromodichloromethane	83	9.376	9.376	(1.084)	494563	10.0000	10.2634
68 cis-1,3-Dichloropropene	75	9.780	9.780	(0.845)	499161	10.0000	10.3807
69 4-Methyl-2-pentanone	43	9.868	9.868	(0.852)	550122	40.0000	42.1034
71 Toluene	91	10.153	10.153	(0.877)	1410232	10.0000	10.6179
72 trans-1,3-Dichloropropene	75	10.291	10.291	(0.889)	407955	10.0000	10.3121
74 1,1,2-Trichloroethane	97	10.507	10.507	(0.907)	202023	10.0000	10.4070
76 1,3-Dichloropropane	76	10.694	10.694	(0.924)	338042	10.0000	10.4937
77 Tetrachloroethene	164	10.734	10.734	(0.927)	335718	10.0000	10.0105
75 2-Hexanone	43	10.694	10.694	(0.924)	395189	40.0000	42.3026
78 Dibromochloromethane	129	10.950	10.950	(0.946)	341455	10.0000	10.4020
80 1,2-Dibromoethane	107	11.117	11.117	(0.960)	241528	10.0000	10.3260
81 1-Chlorohexane	91	11.501	11.501	(0.993)	610339	10.0000	10.0203
83 Chlorobenzene	112	11.609	11.609	(1.003)	983278	10.0000	10.2502
84 1,1,1,2-Tetrachloroethane	131	11.668	11.668	(1.008)	359582	10.0000	10.1733
85 Ethylbenzene	106	11.688	11.688	(1.009)	530762	10.0000	10.3705
86 m and p-Xylene	106	11.806	11.806	(1.020)	1329647	20.0000	21.2438
87 o-Xylene	106	12.239	12.239	(1.057)	659983	10.0000	10.5201
88 Styrene	104	12.248	12.248	(1.058)	1096114	10.0000	10.6527
89 Bromoform	173	12.485	12.485	(1.078)	213131	10.0000	10.2406
90 isopropyl benzene	105	12.612	12.612	(1.089)	1880730	10.0000	10.2800
92 Cyclohexanone	55	12.740	12.740	(1.100)	246762	400.000	341.814

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
94 1,1,2,2-Tetrachloroethane	83	12.898	12.898	(1.114)	285116	10.0000	10.5858
97 Bromobenzene	156	13.026	13.026	(0.918)	472756	10.0000	9.85600
96 1,2,3-Trichloropropane	110	12.986	12.986	(0.915)	59119	10.0000	9.72882
98 n-Propylbenzene	120	13.075	13.075	(0.922)	474927	10.0000	10.0350
99 2-Chlorotoluene	126	13.222	13.222	(0.932)	425049	10.0000	9.61119
100 1,3,5-Trimethylbenzene	105	13.242	13.242	(0.933)	1504140	10.0000	9.48074
101 4-Chlorotoluene	126	13.331	13.331	(0.940)	429457	10.0000	9.64177
102 tert-Butylbenzene	119	13.655	13.655	(0.963)	1210111	10.0000	9.42579
103 1,2,4-Trimethylbenzene	105	13.704	13.704	(0.966)	1473697	10.0000	9.55918
104 sec-Butylbenzene	134	13.921	13.921	(0.981)	304220	10.0000	9.34996
106 m-Dichlorobenzene	146	14.117	14.117	(0.995)	838653	10.0000	9.81847
105 4-Isopropyltoluene	119	14.068	14.068	(0.992)	1541403	10.0000	9.73495
108 p-dichlorobenzene	146	14.216	14.216	(1.002)	829798	10.0000	10.1358
110 n-Butylbenzene	91	14.599	14.599	(1.029)	1573328	10.0000	9.68145
111 o-Dichlorobenzene	146	14.727	14.727	(1.038)	694896	10.0000	9.94426
112 1,2-Dibromo-3-chloropropane	157	15.799	15.799	(1.114)	38705	10.0000	9.13620
113 1,2,4-Trichlorobenzene	180	17.245	17.245	(1.216)	385106	10.0000	10.0101
114 Hexachlorobutadiene	225	17.541	17.541	(1.236)	268446	10.0000	9.34154
115 Napthalene	128	17.767	17.767	(1.252)	362721	10.0000	9.36408
116 1,2,3-Trichlorobenzene	180	18.268	18.268	(1.288)	290736	10.0000	9.67798

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/R2.i/052704.b/rr6280.d
Report Date: 05/27/2004

Internal Standard Check Report

Instrument ID: R2.i
Lab File ID: rr6280.d
Analysis Type: WATER

Injection Date: 27-MAY-2004 15:39
Lab Sample ID: MAIN010
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	1181127	1234618	8.638	8.648	104.5
Chlorobenzene-d5	309128	321484	11.579	11.580	104.0
1,4-Dichlorobenzene-d4	483986	547631	14.176	14.186	113.2

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6280.d
Lab Smp Id: MAIN010
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1539
Client Smp ID: MAIN010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1234618	617309	2469236	1234618	0.00
82 Chlorobenzene-d5	321484	160742	642968	321484	0.00
107 1,4-Dichlorobenze	547631	273816	1095262	547631	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.65	8.15	9.15	8.65	0.00
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.00
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.00

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

Data File: /chem/R2.i/052704.b/rr6280.d

Date : 27-MAY-2004 15:39

Client ID: MAIN010

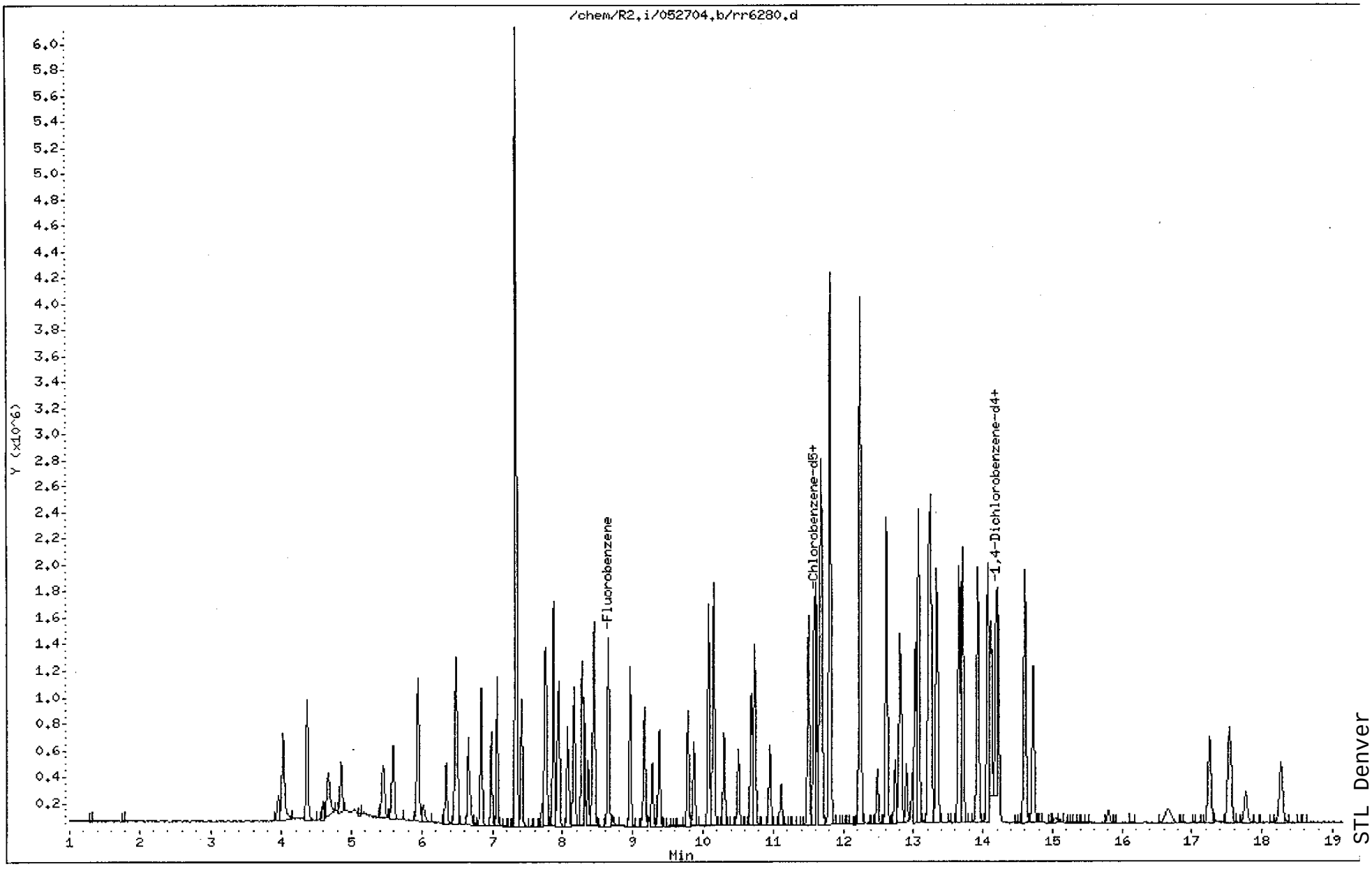
Sample Info: MAIN010,,067/083-04

Column phase: HP624

Instrument: R2.i

Operator: meierg

Column diameter: 0.32



CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: R2.i
Lab File ID: rr6281.d
Analysis Type: WATER

Injection Date: 27-MAY-2004 16:04
Lab Sample ID: SUPP010
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
122	dichlorotetrafluoroethane	10.0000	9.7369	2.6	50.0
110	Ethylene Oxide	1250.0000	1407.1361	12.6	50.0
87	Dichlorofluoromethane	10.0000	10.2037	2.0	50.0
129	1,2-dichloro-1,1,2-trifluoroeth	10.0000	9.9833	0.2	50.0
77	Ethyl Ether	10.0000	10.8967	9.0	50.0
130	2,2-dichloro-1,1,1-trifluoroeth	10.0000	9.9619	0.4	50.0
65	Trichlorotrifluoroethane	10.0000	9.9832	0.2	50.0
131	2-Propanol	200.0000	205.5524	2.8	50.0
124	Methyl acetate	50.0000	55.1529	10.3	50.0
10	Carbon Disulfide	10.0000	9.8750	1.3	50.0
67	Allyl Chloride	10.0000	9.7127	2.9	50.0
53	Methyl t-butyl ether	10.0000	11.2237	12.2	50.0
54	Hexane	10.0000	10.2314	2.3	50.0
24	Vinyl acetate	20.0000	23.5117	17.6	50.0
125	ETBE	50.0000	53.1677	6.3	50.0
78	Ethyl Acetate	20.0000	22.1517	10.8	50.0
56	Tetrahydrofuran	20.0000	22.5511	12.8	50.0
89	Dibromofluoromethane	10.0000	11.0380	10.4	50.0
115	Cyclohexane	10.0000	9.3575	6.4	50.0
303	1,2-Dichloroethane-d4	10.0000	11.0077	10.1	50.0
126	TAME	50.0000	55.3242	10.6	50.0
116	2-Pentanone	40.0000	44.4325	11.1	50.0
73	Methyl Methacrylate	20.0000	22.9361	14.7	50.0
127	Methyl cyclohexane	10.0000	9.5335	4.7	50.0
82	2-nitropropane	10.0000	11.3671	13.7	50.0
35	2-Chloroethyl vinyl ether	10.0000	9.6902	3.1	50.0
301	Toluene-d8	10.0000	10.0982	1.0	50.0
41	Ethyl methacrylate	20.0000	21.5420	7.7	50.0
128	Tetrahydrothiophene	10.0000	10.9693	9.7	50.0
117	c-1,4-Dichloro-2-butene	10.0000	9.8860	1.1	50.0
302	Bromofluorobenzene	10.0000	10.2570	2.6	50.0
60	t-1,4-Dichloro-2-butene	10.0000	9.4216	5.8	50.0
123	1,2,3-Trimethylbenzene	10.0000	9.3840	6.2	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: R2.i
Lab File ID: rr6281.d
Analysis Type: WATER
Lab Sample ID: SUPP010
Quant Type: ISTD

Injection Date: 27-MAY-2004 16:04
Init. Calibration Date(s): 05/25/4 05/26/4
Init. Calibration Times: 19:05 00:31
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

			MIN		MAX
COMPOUND	RRF	RF10	RRF	%D	%D
$ 46 Dibromofluoromethane	0.332	0.366	0.010	-10.4	50.0
$ 52 1,2-Dichloroethane-d4	0.263	0.290	0.010	-10.1	50.0
$ 70 Toluene-d8	3.630	3.666	0.010	-1.0	50.0
$ 93 Bromofluorobenzene	1.743	1.788	0.010	-2.6	50.0
4 dichlorotetrafluoroethane	0.519	0.505	0.010	2.6	50.0
7 Ethylene Oxide	0.022	0.025	0.001	-12.6	50.0
10 Dichlorofluoromethane	1.414	1.443	0.010	-2.0	50.0
13 1,2-dichloro-1,1,2-trifluor	0.455	0.454	0.010	0.2	50.0
14 Ethyl Ether	0.252	0.275	0.010	-9.0	50.0
15 2,2-dichloro-1,1,1-trifluor	0.809	0.806	0.010	0.4	50.0
17 Trichlorotrifluoroethane	0.339	0.338	0.010	0.2	50.0
20 2-Propanol	0.009	0.009	0.001	-2.8	50.0
23 Methyl acetate	0.104	0.115	0.010	-10.3	50.0
24 Carbon Disulfide	1.367	1.349	0.010	1.3	50.0
25 Allyl Chloride	0.531	0.515	0.010	2.9	50.0
29 Methyl t-butyl ether	0.410	0.460	0.010	-12.2	50.0
31 Hexane	0.334	0.342	0.010	-2.3	50.0
32 Vinyl acetate	0.229	0.270	0.010	-17.6	50.0
36 ETBE	0.525	0.559	0.010	-6.3	50.0
38 Ethyl Acetate	0.082	0.091	0.010	-10.8	50.0
45 Tetrahydrofuran	0.020	0.023	0.003	-12.8	50.0
49 Cyclohexane	0.397	0.371	0.010	6.4	50.0
55 TAME	0.425	0.470	0.010	-10.6	50.0
59 2-Pentanone	0.074	0.083	0.010	-11.1	50.0
60 Methyl Methacrylate	0.026	0.030	0.010	-14.7	50.0
62 Methyl cyclohexane	0.419	0.399	0.010	4.7	50.0
66 2-nitropropane	0.129	0.147	0.010	-13.7	50.0
67 2-Chloroethyl vinyl ether	0.152	0.147	0.001	3.1	50.0
73 Ethyl methacrylate	0.623	0.671	0.010	-7.7	50.0
79 Tetrahydrothiophene	0.077	0.085	0.010	-9.7	50.0
91 c-1,4-Dichloro-2-butene	0.184	0.182	0.010	1.1	50.0
95 t-1,4-Dichloro-2-butene	0.127	0.120	0.010	5.8	50.0
109 1,2,3-Trimethylbenzene	2.695	2.529	0.010	6.2	50.0

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6281.d
Lab Smp Id: SUPP010 Client Smp ID: SUPP010
Inj Date : 27-MAY-2004 16:04
Operator : meierg Inst ID: R2.i
Smp Info : SUPP010,,011/052-04
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 56 Fluorobenzene	96	8.642	8.642	(1.000)	1117002	10.0000	
* 82 Chlorobenzene-d5	119	11.584	11.584	(1.000)	318643	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.190	14.190	(1.000)	494708	10.0000	
$ 46 Dibromofluoromethane	111	8.072	8.072	(0.934)	409012	10.0000	11.0380
$ 52 1,2-Dichloroethane-d4	65	8.367	8.367	(0.968)	323769	10.0000	11.0077
$ 70 Toluene-d8	98	10.088	10.088	(0.871)	1168057	10.0000	10.0982
$ 93 Bromofluorobenzene	95	12.813	12.813	(1.106)	569611	10.0000	10.2570
4 dichlorotetrafluoroethane	85	4.590	4.590	(0.531)	564123	10.0000	9.73693
7 Ethylene Oxide	43	5.387	5.387	(0.623)	3430335	1250.00	1407.14(Q)
10 Dichlorofluoromethane	67	5.810	5.810	(0.672)	1611764	10.0000	10.2037
13 1,2-dichloro-1,1,2-trifluoroet	117	6.174	6.174	(0.714)	506835	10.0000	9.98328
14 Ethyl Ether	59	6.213	6.213	(0.719)	307306	10.0000	10.8967
15 2,2-dichloro-1,1,1-trifluoroet	83	6.223	6.223	(0.720)	899807	10.0000	9.96193
17 Trichlorotrifluoroethane	151	6.459	6.459	(0.747)	377735	10.0000	9.98318
20 2-Propanol	45	6.508	6.508	(0.753)	208037	200.000	205.552
23 Methyl acetate	43	6.724	6.724	(0.778)	643721	50.0000	55.1529

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24 Carbon Disulfide	76	6.754	6.754	(0.781)	1507342	10.0000	9.87495
25 Allyl Chloride	41	6.764	6.764	(0.783)	575642	10.0000	9.71268
29 Methyl t-butyl ether	73	7.029	7.029	(0.813)	514147	10.0000	11.2237
31 Hexane	57	7.236	7.236	(0.837)	381625	10.0000	10.2314
32 Vinyl acetate	43	7.315	7.315	(0.846)	602492	20.0000	23.5117
36 ETBE	59	7.580	7.580	(0.877)	3119325	50.0000	53.1677
38 Ethyl Acetate	43	7.718	7.718	(0.893)	203945	20.0000	22.1517
45 Tetrahydrofuran	42	7.974	7.974	(0.923)	51576	20.0000	22.5511
49 Cyclohexane	56	8.239	8.239	(0.953)	414945	10.0000	9.35748
55 TAME	73	8.465	8.465	(0.980)	2623434	50.0000	55.3242
59 2-Pentanone	43	9.016	9.016	(1.043)	369113	40.0000	44.4325
60 Methyl Methacrylate	100	9.144	9.144	(1.058)	67106	20.0000	22.9361
62 Methyl cyclohexane	55	9.184	9.184	(1.063)	445934	10.0000	9.53346
66 2-nitropropane	41	9.538	9.538	(0.823)	46784	10.0000	11.3671
67 2-Chloroethyl vinyl ether	63	9.577	9.577	(0.827)	46875	10.0000	9.69025
73 Ethyl methacrylate	69	10.315	10.315	(0.890)	427605	20.0000	21.5420
79 Tetrahydrothiophene	60	11.003	11.003	(1.273)	94682	10.0000	10.9693
91 c-1,4-Dichloro-2-butene	53	12.646	12.646	(1.092)	57853	10.0000	9.88601
95 t-1,4-Dichloro-2-butene	53	12.951	12.951	(0.913)	59295	10.0000	9.42159
109 1,2,3-Trimethylbenzene	105	14.249	14.249	(1.004)	1250925	10.0000	9.38401

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Internal Standard Check Report

Instrument ID: R2.i
Lab File ID: rr6281.d
Analysis Type: WATER

Injection Date: 27-MAY-2004 16:04
Lab Sample ID: SUPP010
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	1149959	1117002	8.633	8.642	97.1
Chlorobenzene-d5	302802	318643	11.574	11.584	105.2
1,4-Dichlorobenzene-d4	475530	494708	14.181	14.190	104.0

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6281.d
Lab Smp Id: SUPP010
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1539
Client Smp ID: SUPP010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1234618	617309	2469236	1117002	-9.53
82 Chlorobenzene-d5	321484	160742	642968	318643	-0.88
107 1,4-Dichlorobenze	547631	273816	1095262	494708	-9.66

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.65	8.15	9.15	8.64	-0.07
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.03
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.03

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

Data File: /chem/R2.i/052704.b/rr6281.d

Date : 27-MAY-2004 16:04

Client ID: SUPP010

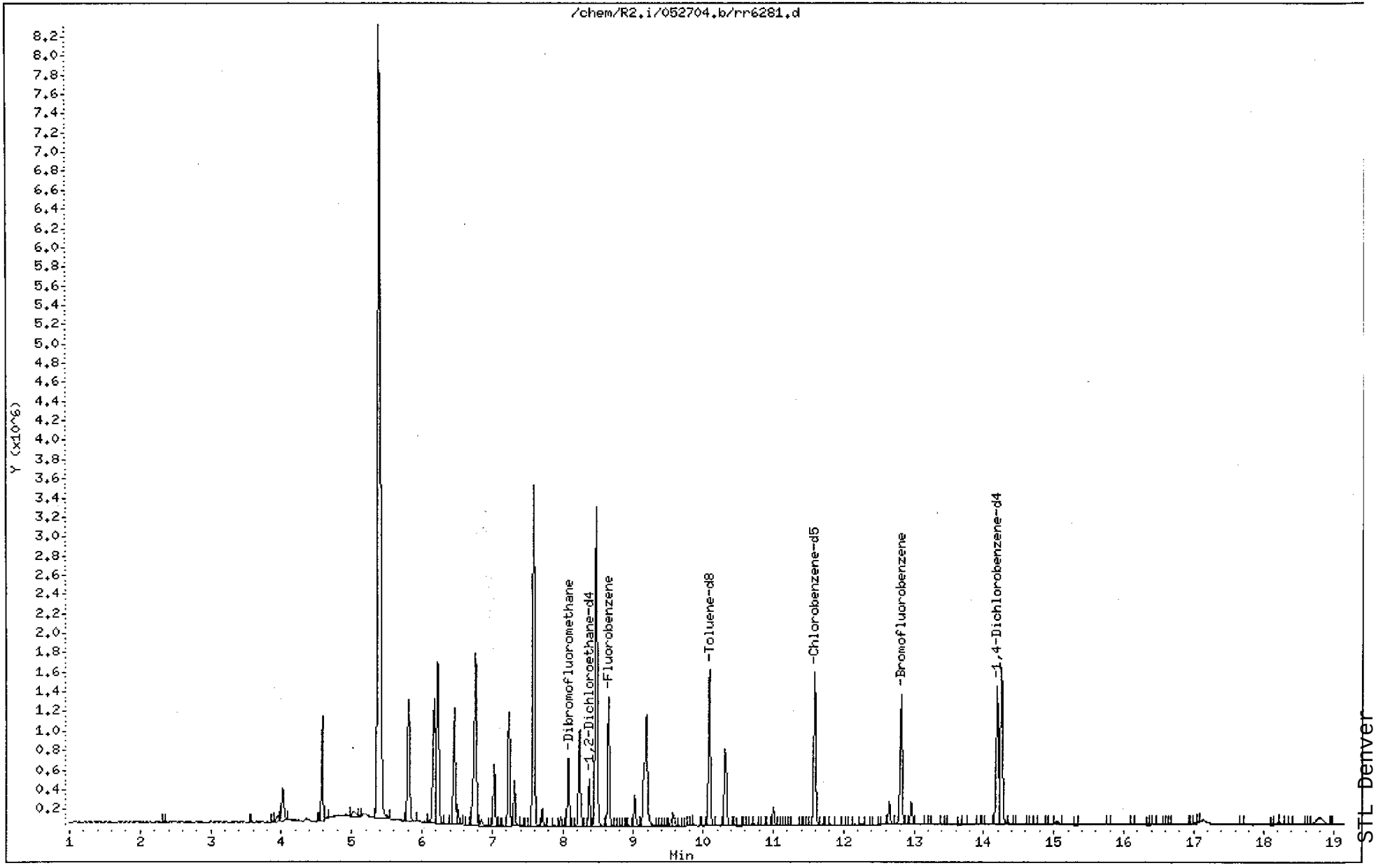
Sample Info: SUPP010,,011/052-04

Column phase: HP624

Instrument: R2.i

Operator: meierg

Column diameter: 0.32



GC/MS VOLATILE
SAMPLE DATA

SEVERN TRENT STL

LCS SAMPLE
Data File : /chem/R2.i/052704.b/rr6282.d
Samp Info : LCS,,109-04
Inj Date : 27-MAY-2004 16:29
Sample Amt : 20mL

Sample #	Sample #	Sample #	Sample #	Sample #

Compound	Concentration Spiked	Measured	%Recovery Meas.	Min	Max
1,1-Dichloroethene	10.0000	11.1003	111	67	125
Benzene	10.0000	11.0042	110	75	116
Trichloroethene	10.0000	11.0414	110	80	123
Toluene	10.0000	10.4528	105	74	115
Chlorobenzene	10.0000	10.2695	103	77	117

100.0 Percent of recoveries are within control limits.

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6282.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 27-MAY-2004 16:29
Operator : meierg Inst ID: R2.i
Smp Info : LCS,,109-04
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: dcs.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 56 Fluorobenzene	96	8.643	8.642	(1.000)	1195453	10.0000	
* 82 Chlorobenzene-d5	119	11.584	11.584	(1.000)	327439	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	14.191	14.190	(1.000)	520277	10.0000	
$ 46 Dibromofluoromethane	111	8.072	8.072	(0.934)	414169	10.4437	10.4437
$ 52 1,2-Dichloroethane-d4	65	8.368	8.367	(0.968)	313776	9.96787	9.96786
$ 70 Toluene-d8	98	10.089	10.088	(0.871)	1161791	9.77418	9.77418
$ 93 Bromofluorobenzene	95	12.814	12.813	(1.106)	590784	10.3524	10.3524
19 1,1-Dichloroethene	96	6.489	6.484	(0.751)	479585	11.1003	11.1003
54 Benzene	78	8.456	8.452	(0.978)	1186627	11.0042	11.0042
58 Trichloroethene	130	8.968	8.963	(1.038)	363134	11.0414	11.0414
71 Toluene	91	10.158	10.153	(0.877)	1414026	10.4528	10.4528
83 Chlorobenzene	112	11.614	11.609	(1.003)	1003381	10.2695	10.2695

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6282.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1195453	7.02
82 Chlorobenzene-d5	318643	159322	637286	327439	2.76
107 1,4-Dichlorobenze	494708	247354	989416	520277	5.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.01
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.00
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.00

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

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RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: dcs.spk
Sublist File: dcs.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Client SDG: 052704
Fraction: VOA
Client Smp ID: LCS
Operator: meierg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
19 1,1-Dichloroethene	10.0000	11.1003	111.00	67-125
54 Benzene	10.0000	11.0042	110.04	75-116
58 Trichloroethene	10.0000	11.0414	110.41	80-123
71 Toluene	10.0000	10.4528	104.53	74-115
83 Chlorobenzene	10.0000	10.2695	102.70	77-117

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.4437	104.44	76-116
$ 52 1,2-Dichloroethane	10.0000	9.96786	99.68	59-129
$ 70 Toluene-d8	10.0000	9.77418	97.74	76-116
$ 93 Bromofluorobenzene	10.0000	10.3524	103.52	79-119

Data File: /chem/R2.i/052704.b/rr6282.d

Date : 27-MAY-2004 16:29

Client ID: LCS

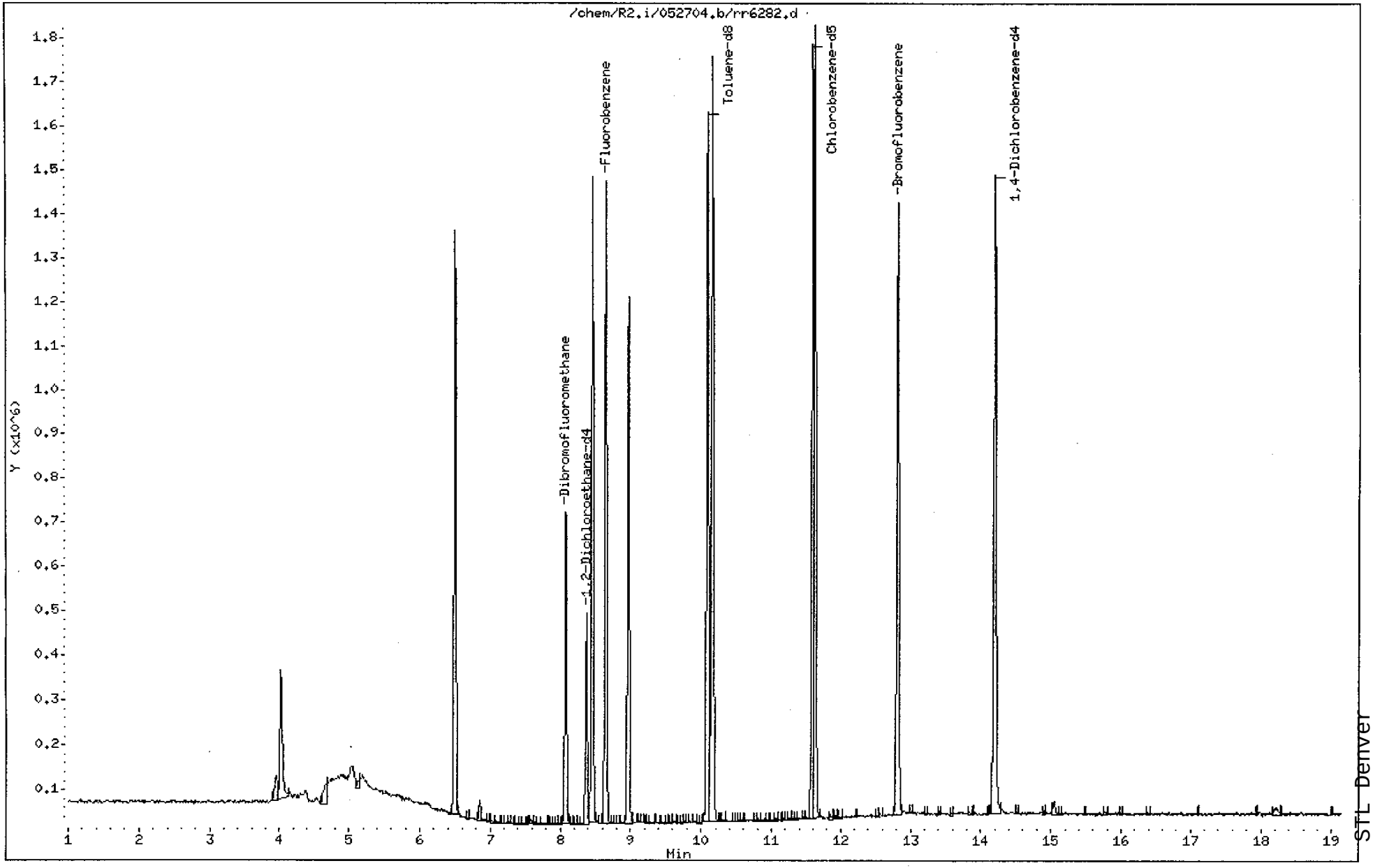
Sample Info: LCS,,109-04

Instrument: R2.i

Operator: meierg

Column phase: HP624

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6283.d
Lab Smp Id: VBLK Client Smp ID: VBLK
Inj Date : 27-MAY-2004 16:54
Operator : meierg Inst ID: R2.i
Smp Info : VBLK
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.649	8.642	(1.000)	1191135	10.0000	
*	82 Chlorobenzene-d5	119	11.580	11.584	(1.000)	324805	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.186	14.190	(1.000)	495852	10.0000	
$	46 Dibromofluoromethane	111	8.078	8.072	(0.934)	405424	10.2603	10.2603
$	52 1,2-Dichloroethane-d4	65	8.363	8.367	(0.967)	322741	10.2898	10.2898
$	70 Toluene-d8	98	10.085	10.088	(0.871)	1173538	9.95307	9.95307
$	93 Bromofluorobenzene	95	12.809	12.813	(1.106)	551898	9.74946	9.74946
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59.00	Compound Not Detected.					
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.848	6.848	(0.792)	18440	0.50823	0.508232(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78.00	Compound Not Detected.					
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
61 1,2-Dichloropropane	63.00	Compound Not Detected.					
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88.00	Compound Not Detected.					
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91.00	Compound Not Detected.					
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6283.d
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: VBLK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1191135	6.64
82 Chlorobenzene-d5	318643	159322	637286	324805	1.93
107 1,4-Dichlorobenze	494708	247354	989416	495852	0.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.65	0.07
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	-0.03
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	-0.03

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

STL Denver

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: VBLK
Level: LOW
Data Type: MS DATA
SpikeList File: dcs.spk
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Client SDG: 052704
Fraction: VOA
Client Smp ID: VBLK
Operator: meierg
SampleType: BLANK
Quant Type: ISTD

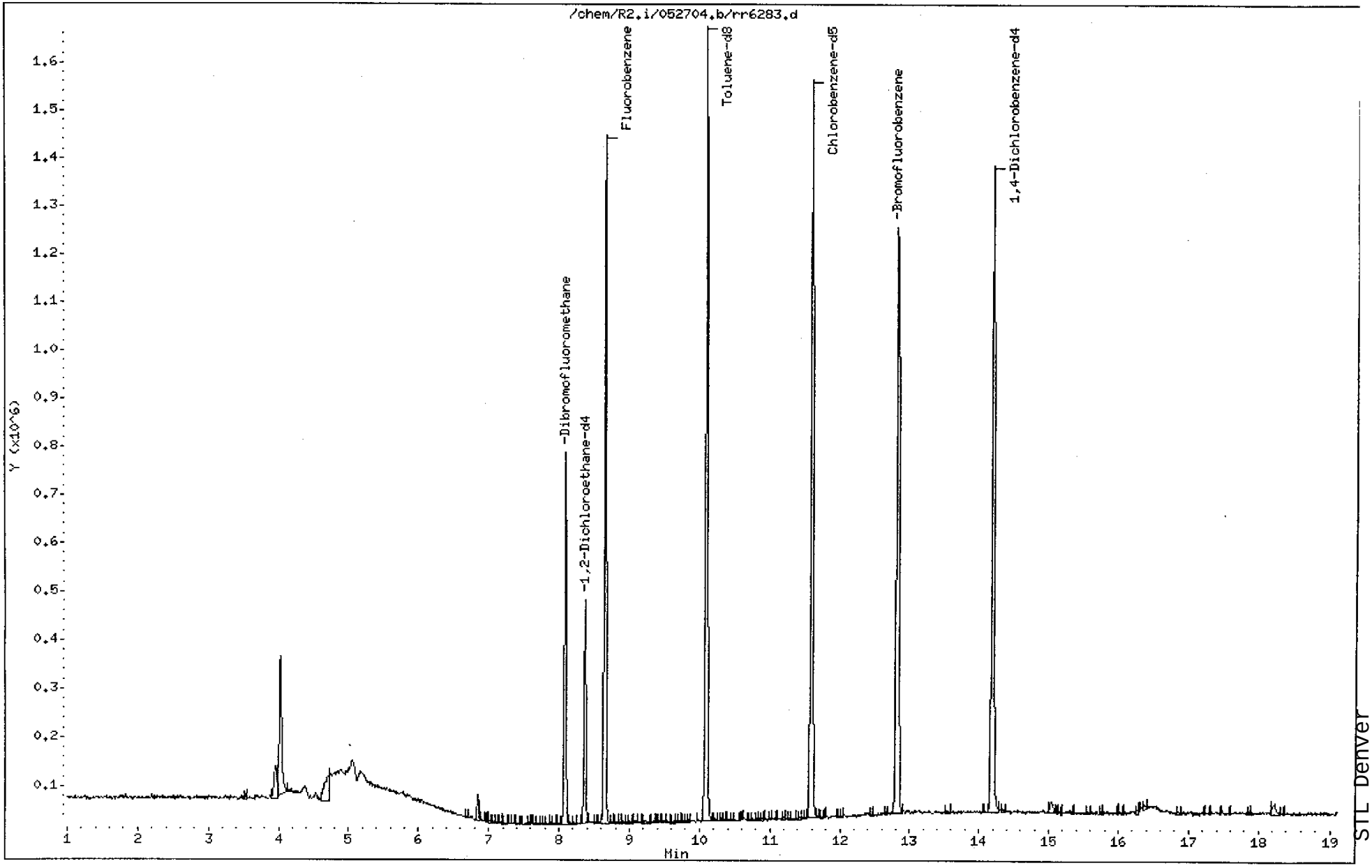
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.2603	102.60	76-116
$ 52 1,2-Dichloroethane	10.0000	10.2898	102.90	59-129
$ 70 Toluene-d8	10.0000	9.95307	99.53	76-116
$ 93 Bromofluorobenzene	10.0000	9.74946	97.49	74-114

Data File: /chem/R2.i/052704.b/rr6283.d
Date : 27-MAY-2004 16:54
Client ID: VBLK
Sample Info: VBLK

Column phase: HP624

Instrument: R2.i

Operator: meierg
Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6283.d

Date : 27-MAY-2004 16:54

Client ID: VBLK

Instrument: R2.i

Sample Info: VBLK

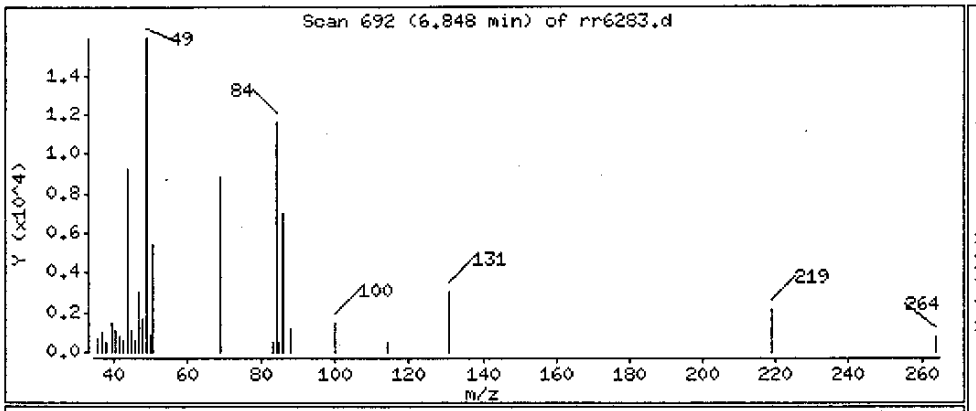
Operator: meierg

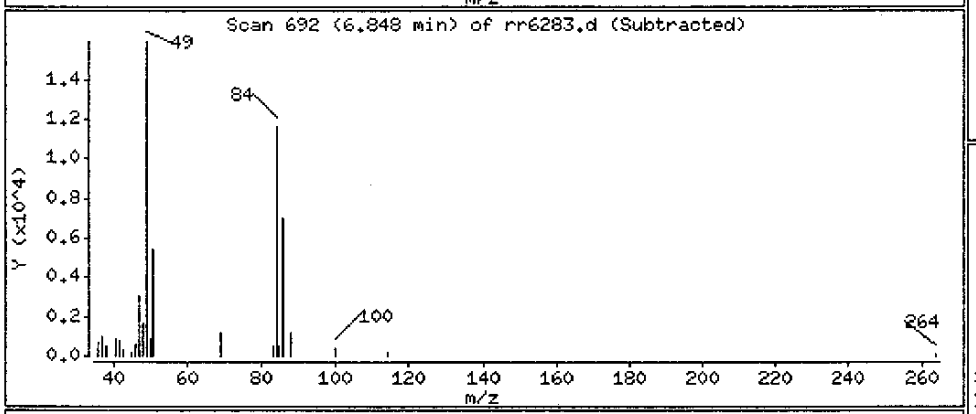
Column phase: HP624

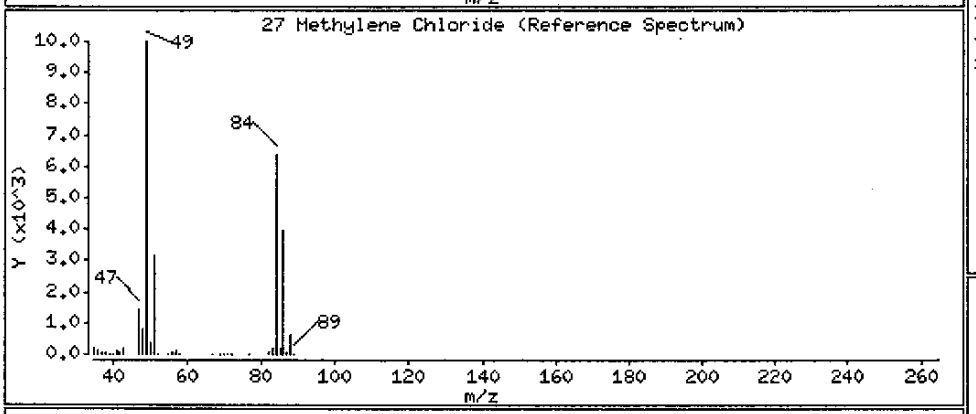
Column diameter: 0.32

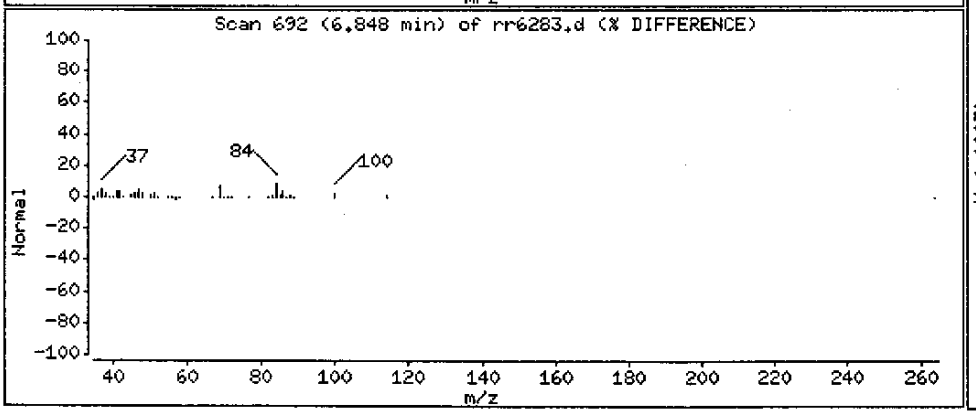
27 Methylene Chloride

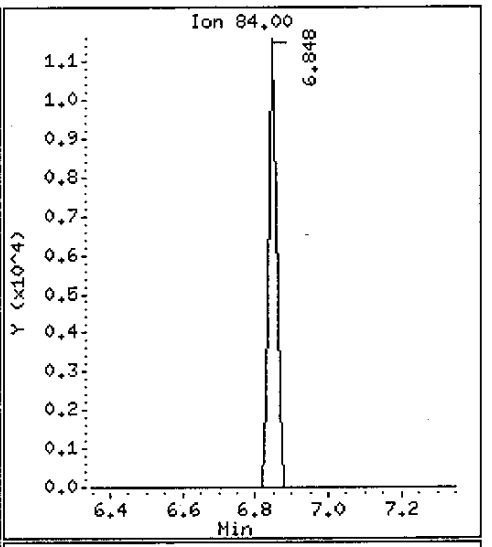
Concentration: 0.508232 ug/L

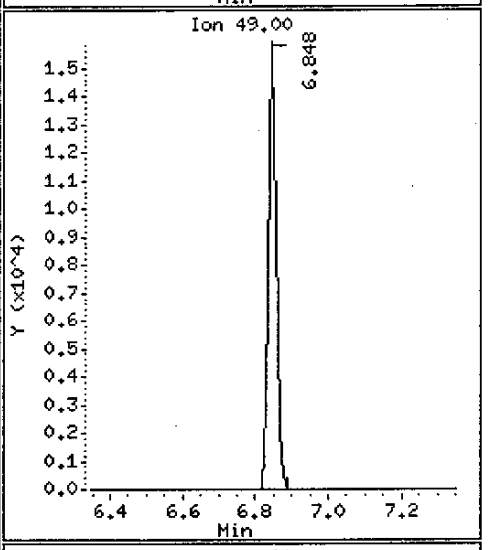


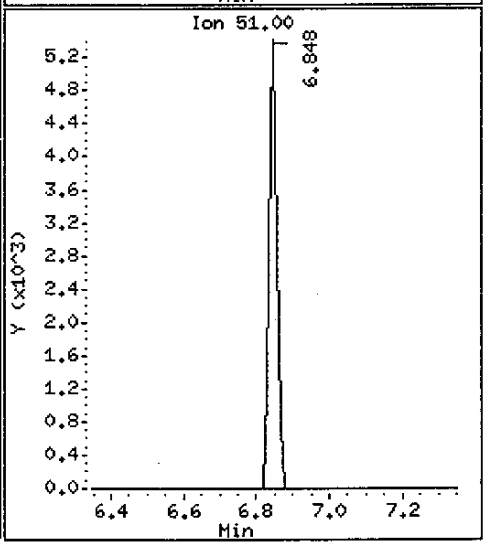












STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6284.d
Lab Smp Id: GGTEE1AA Client Smp ID: 01-MW-06
Inj Date : 27-MAY-2004 17:19
Operator : meierg Inst ID: R2.i
Smp Info : GGTEE1AA,,D4E210325-01
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.646	8.642	(1.000)	1158064	10.0000	
*	82 Chlorobenzene-d5	119	11.588	11.584	(1.000)	303946	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.194	14.190	(1.000)	428572	10.0000	
$	46 Dibromofluoromethane	111	8.076	8.072	(0.934)	381405	9.92805	9.92804
$	52 1,2-Dichloroethane-d4	65	8.371	8.367	(0.968)	291233	9.55043	9.55043
$	70 Toluene-d8	98	10.083	10.088	(0.870)	1105823	10.0224	10.0224
$	93 Bromofluorobenzene	95	12.817	12.813	(1.106)	522633	9.86608	9.86608
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59	6.217	6.213	(0.719)	5024	0.17183	0.171828(a)
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.846	6.848	(0.792)	13140	0.37250	0.372499(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78.00	Compound Not Detected.					
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
61 1,2-Dichloropropane	63.00	Compound Not Detected.					
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.237	9.239	(1.068)	4088	38.3417	38.3416(a)
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91.00	Compound Not Detected.					
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6284.d
Lab Smp Id: GGTEE1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-06
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1158064	3.68
82 Chlorobenzene-d5	318643	159322	637286	303946	-4.61
107 1,4-Dichlorobenze	494708	247354	989416	428572	-13.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.65	0.05
82 Chlorobenzene-d5	11.58	11.08	12.08	11.59	0.03
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.03

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTEE1AA
Client Smp ID: 01-MW-06
Level: LOW
Operator: meierg
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs.spk
Quant Type: ISTD
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	9.92804	99.28	76-116
$ 52 1,2-Dichloroethane	10.0000	9.55043	95.50	59-129
$ 70 Toluene-d8	10.0000	10.0224	100.22	76-116
$ 93 Bromofluorobenzene	10.0000	9.86608	98.66	74-114

Data File: /chem/R2.i/052704.b/rr6284.d

Page 7

Date : 27-MAY-2004 17:19

Client ID: 01-MW-06

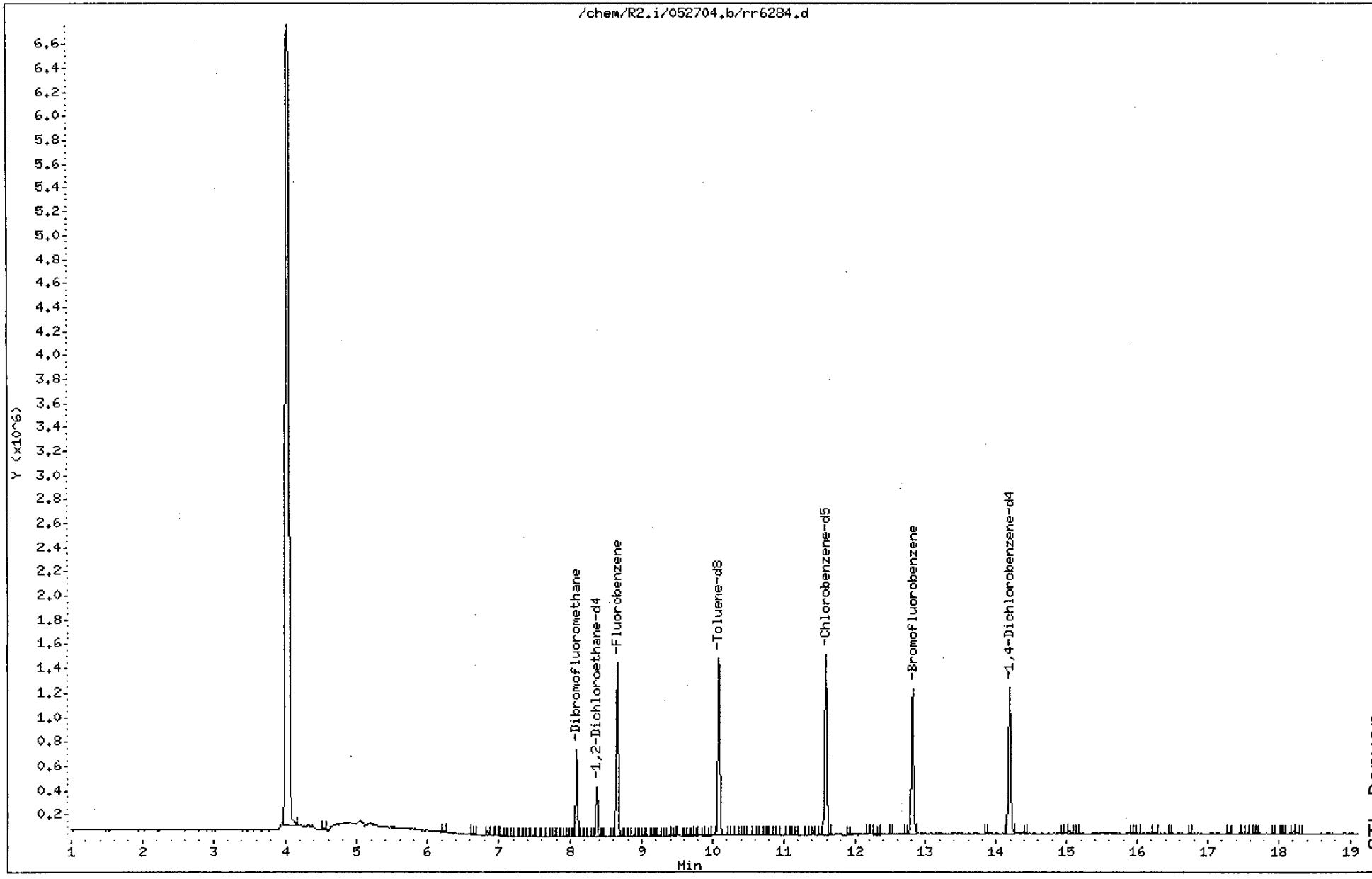
Instrument: R2.i

Sample Info: GGTEE1AA,,D4E210325-01

Operator: meierg

Column phase: HP624

Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6284.d

Date : 27-MAY-2004 17:19

Client ID: 01-MW-06

Instrument: R2.i

Sample Info: GGTEE1AA,,D4E210325-01

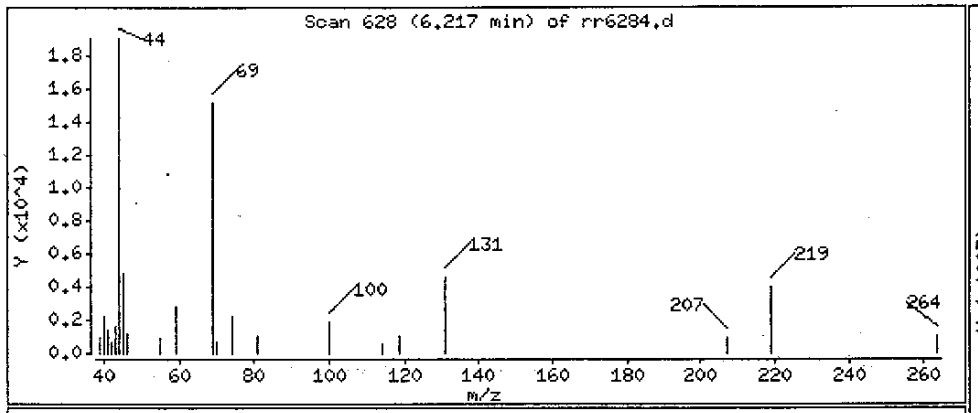
Operator: meierg

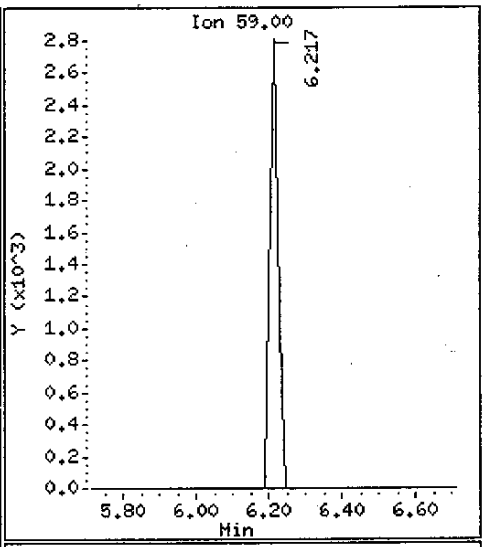
Column phase: HP624

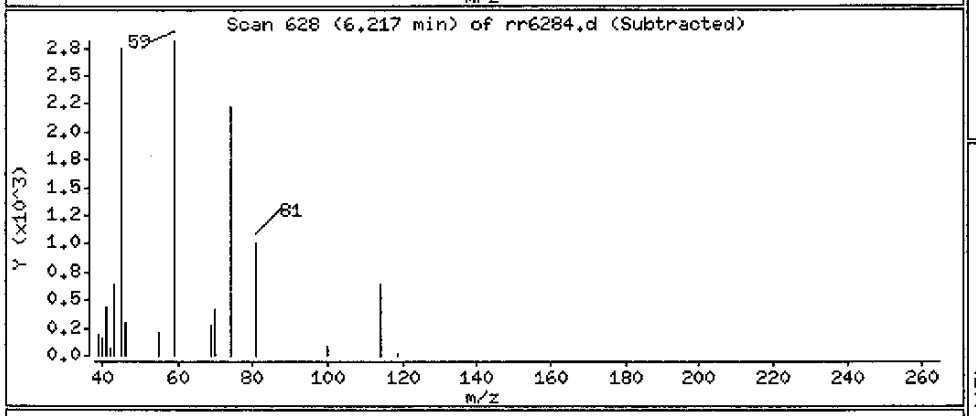
Column diameter: 0.32

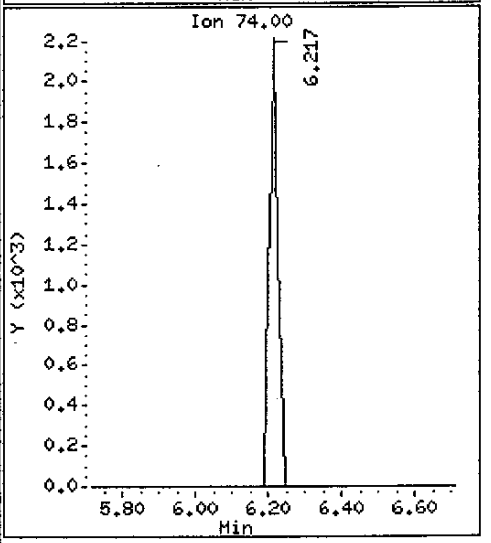
14 Ethyl Ether

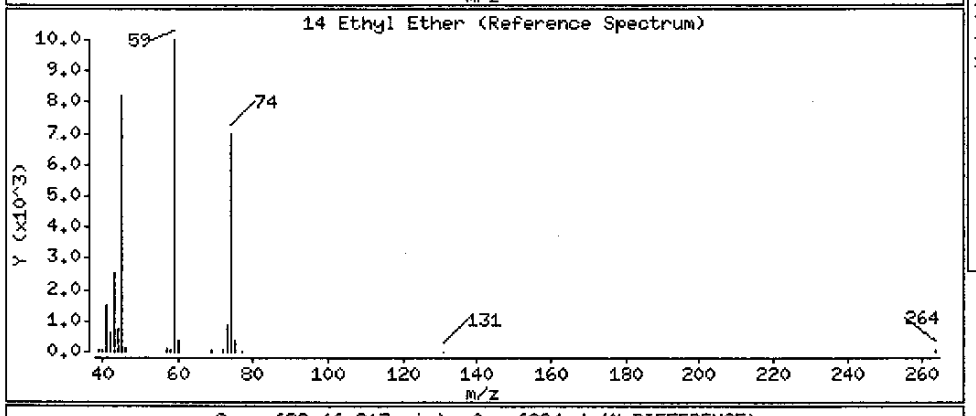
Concentration: 0.171828 ug/L

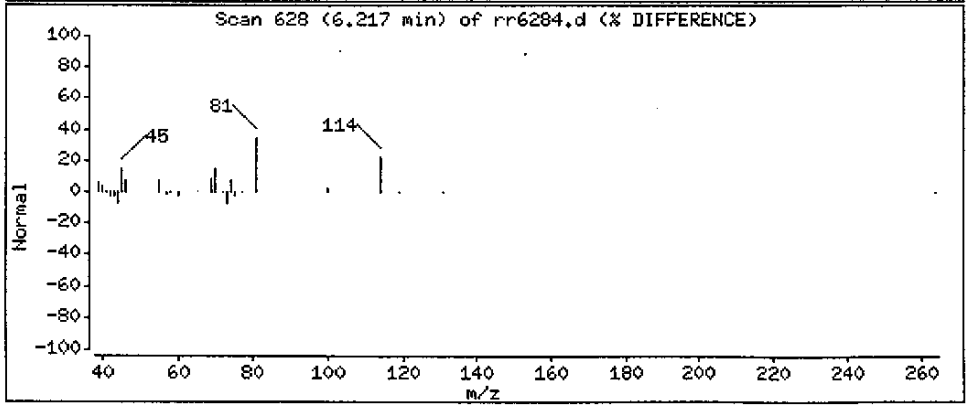












Data File: /chem/R2.i/052704.b/rr6284.d

Date : 27-MAY-2004 17:19

Client ID: 01-MW-06

Instrument: R2.i

Sample Info: GCTEE1AA,,D4E210325-01

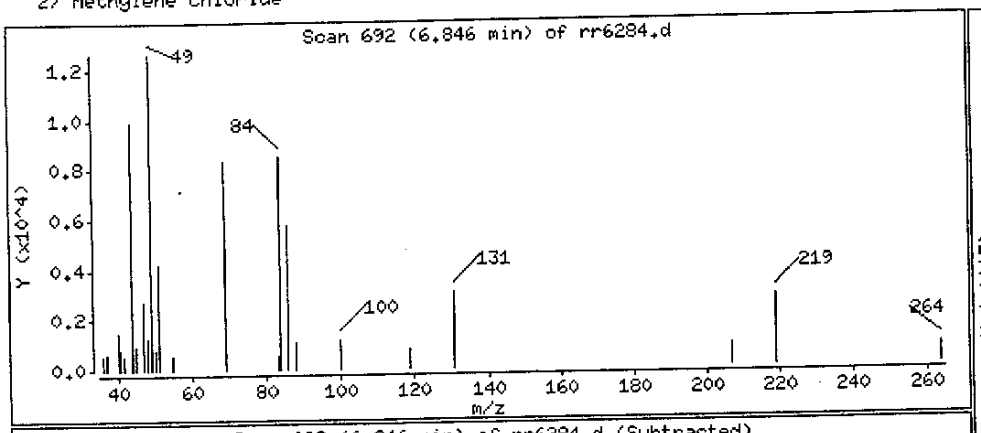
Operator: meierg

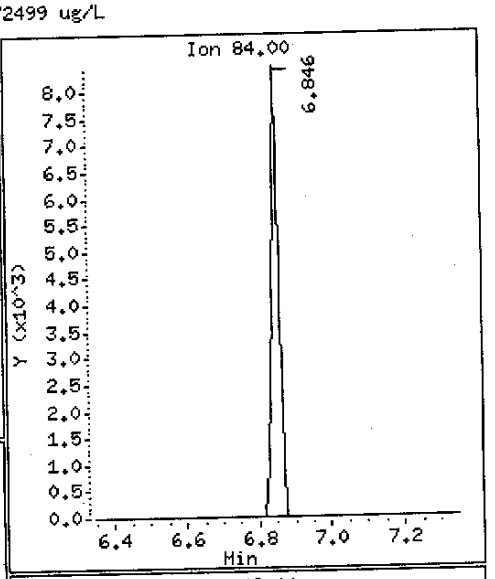
Column phase: HP624

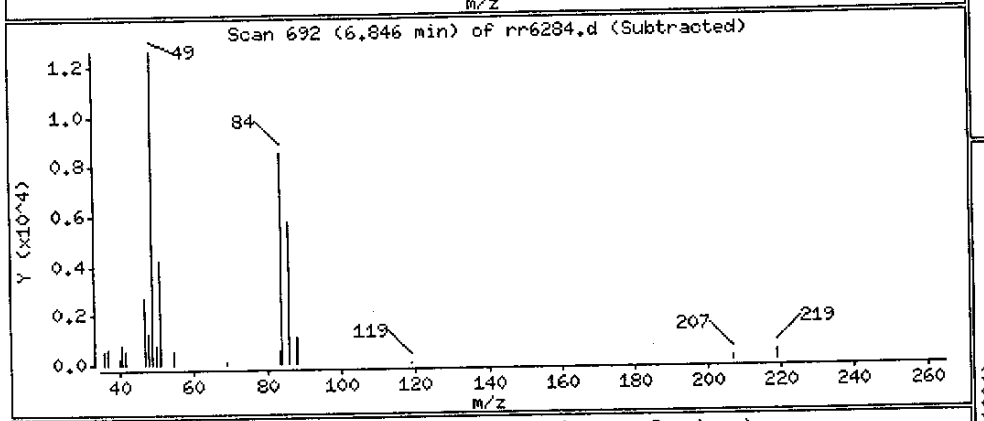
Column diameter: 0.32

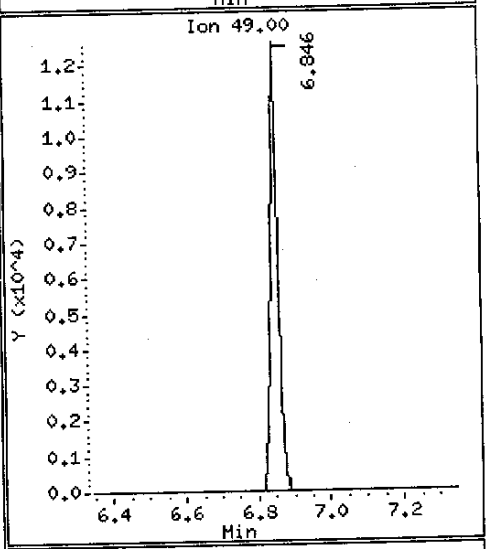
27 Methylene Chloride

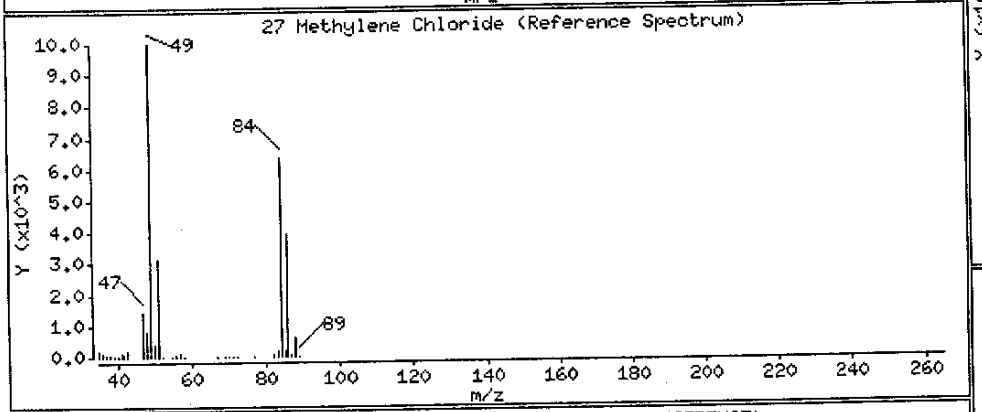
Concentration: 0.372499 ug/L

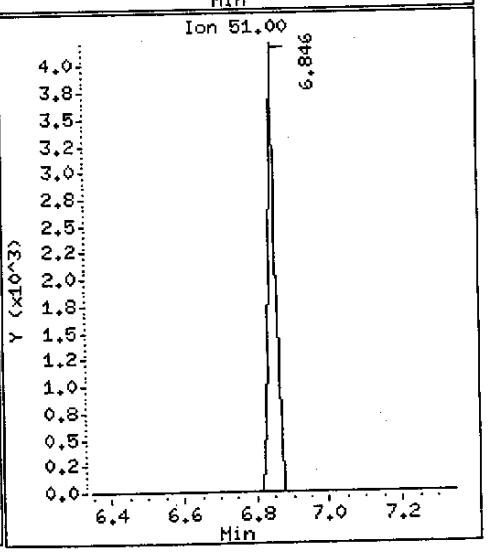


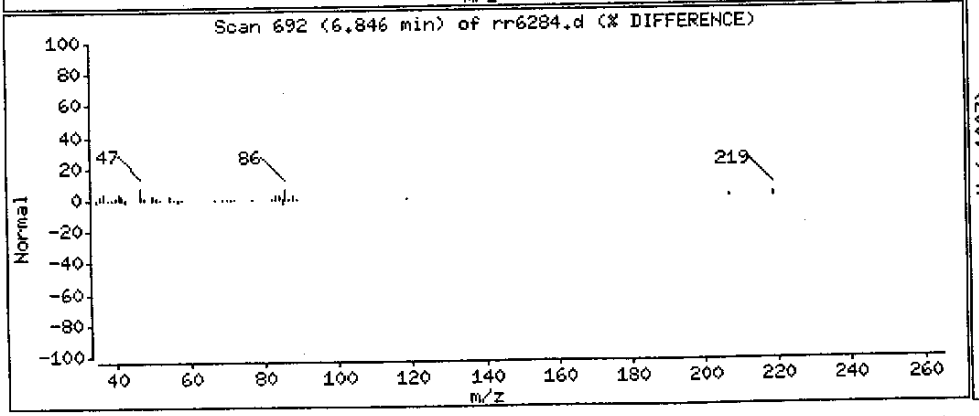












Data File: /chem/R2.i/052704.b/rr6284.d

Date : 27-MAY-2004 17:19

Client ID: 01-MW-06

Instrument: R2.i

Sample Info: GGTEE1AA,,D4E210325-01

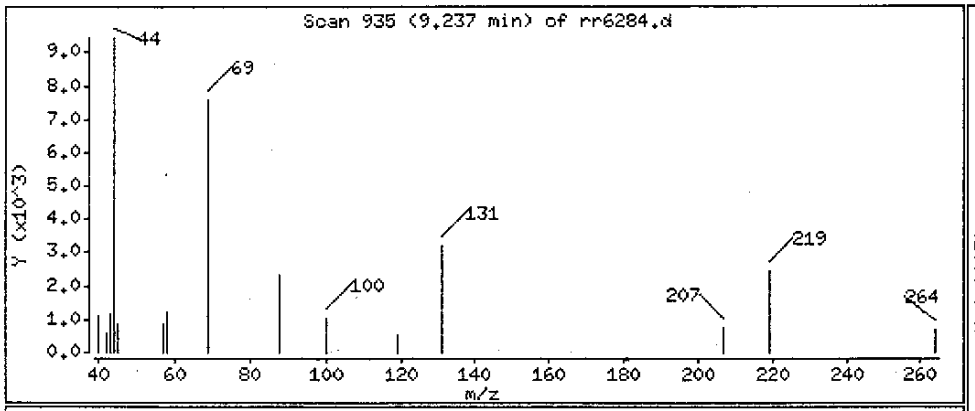
Operator: meierg

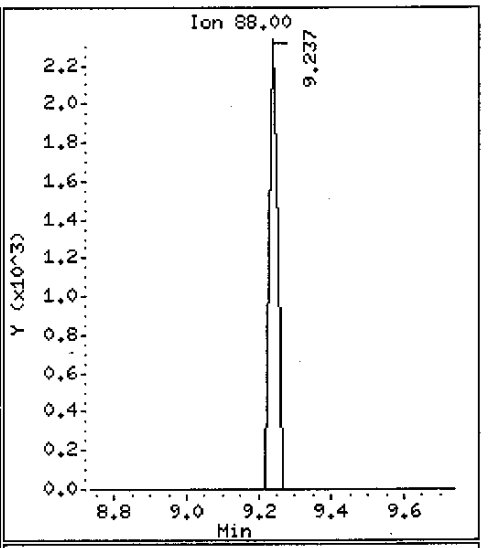
Column phase: HP624

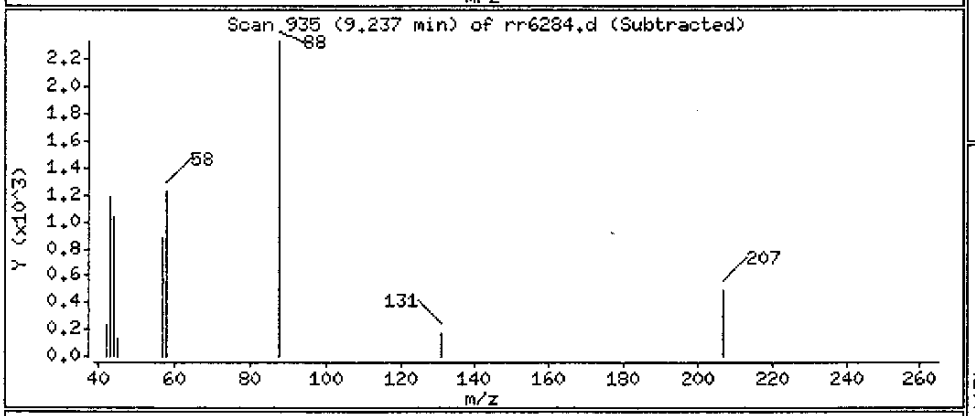
Column diameter: 0.32

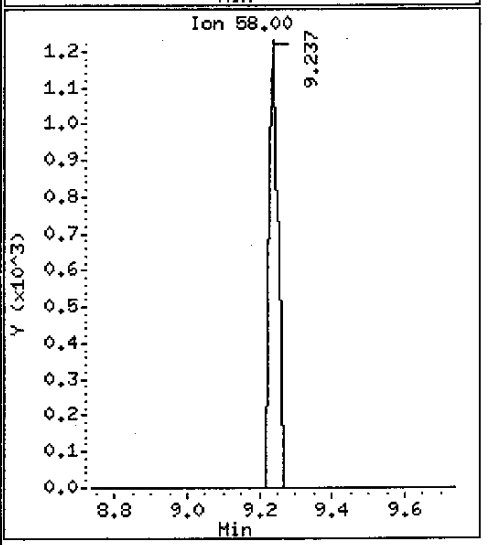
63 1,4-Dioxane

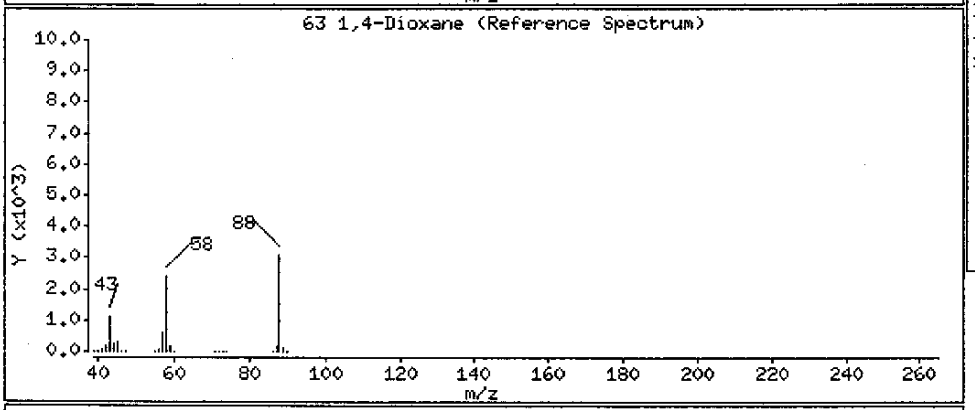
Concentration: 38.3416 ug/L

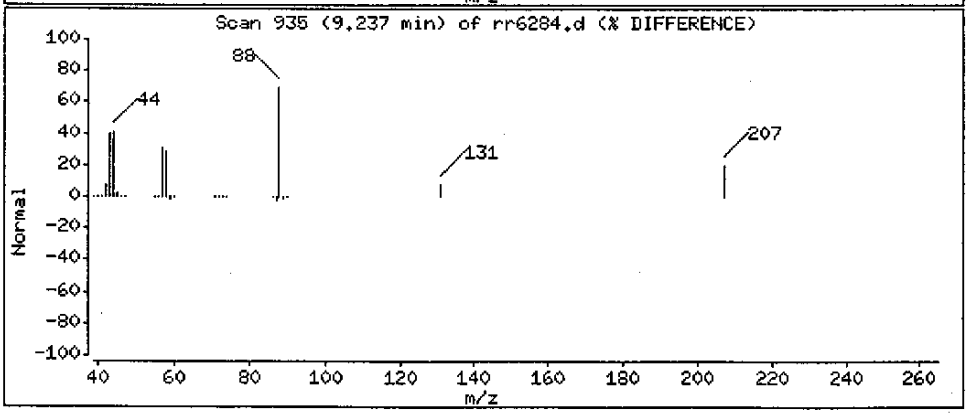












Matrix Spike Report

UNSPIKED SAMPLE
Data File : /chem/R2.i/052704.b/rr6284.d
Samp Info : GGTEE1AA,,D4E210325-01
Inj Date : 27-MAY-2004 17:19
Sample Amt : 20mL

SPIKE SAMPLE
Data File : /chem/R2.i/052704.b/rr6285.d
Samp Info : GGTEE1AG,,D4E210325-01MS
Inj Date : 27-MAY-2004 17:44
Sample Amt : 20mL

SPIKE DUPLICATE SAMPLE
Data File : /chem/R2.i/052704.b/rr6286.d
Samp Info : GGTEE1AH,,D4E210325-01MSD
Inj Date : 27-MAY-2004 18:10
Sample Amt : 20mL

	Concentration				%Recovery					RPD	
	Sample	MS		MSD		Measured		Limits			
	Measured	Spiked	Measured	Spiked	Measured	MS	MSD	Min	Max	Mes	Max
1,1-Dichloroethene											
	0.0000	10.0000	11.2362	10.0000	11.3452	112	113	67	125	1	20
Trichloroethene											
	0.0000	10.0000	10.9187	10.0000	11.2373	109	112	80	123	3	20
Benzene											
	0.0000	10.0000	10.9553	10.0000	11.2703	110	113	75	116	3	20
Toluene											
	0.0000	10.0000	10.7674	10.0000	11.0255	108	110	74	115	2	20
Chlorobenzene											
	0.0000	10.0000	10.8334	10.0000	11.2023	108	112	77	117	3	20

100.0 Percent of recoveries are within control limits.
100.0 Percent of RPD values are within control limits.

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6285.d
Lab Smp Id: GGTEE1AG Client Smp ID: 01-MW-06
Inj Date : 27-MAY-2004 17:44
Operator : meierg Inst ID: R2.i
Smp Info : GGTEE1AG,,D4E210325-01MS
Misc Info : rr6284.d
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.649	8.642	(1.000)	1204832	10.0000	
*	82 Chlorobenzene-d5	119	11.580	11.584	(1.000)	320651	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.197	14.190	(1.000)	485413	10.0000	
$	46 Dibromofluoromethane	111	8.078	8.072	(0.934)	422268	10.5651	10.5650
$	52 1,2-Dichloroethane-d4	65	8.364	8.367	(0.967)	315583	9.94723	9.94723
$	70 Toluene-d8	98	10.085	10.088	(0.871)	1164318	10.0028	10.0028
$	93 Bromofluorobenzene	95	12.810	12.813	(1.106)	559059	10.0039	10.0039
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59	6.209	6.213	(0.718)	3287	0.10806	0.108056(a)
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96	6.495	6.484	(0.751)	489265	11.2362	11.2362
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.849	6.848	(0.792)	14601	0.39785	0.397849(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78	8.452	8.452	(0.977)	1190624	10.9553	10.9553
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130	8.964	8.963	(1.036)	361916	10.9187	10.9187
61 1,2-Dichloropropane	63.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.249	9.239	(1.069)	3472	31.3001	31.3001(a)
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91	10.154	10.153	(0.877)	1426393	10.7674	10.7674
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112	11.620	11.609	(1.003)	1036531	10.8334	10.8334
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					
111 o-Dichlorobenzene	146.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6285.d
Lab Smp Id: GGTEE1AG
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info: rr6284.d

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-06
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1204832	7.86
82 Chlorobenzene-d5	318643	159322	637286	320651	0.63
107 1,4-Dichlorobenze	494708	247354	989416	485413	-1.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.65	0.07
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	-0.03
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.20	0.05

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Sample Matrix: LIQUID
Lab Smp Id: GGTEE1AG
Level: LOW
Data Type: MS DATA
SpikeList File: dcs.spk
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info: rr6284.d

Client SDG: D4E210325
Fraction: VOA
Client Smp ID: 01-MW-06
Operator: meierg
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
19 1,1-Dichloroethene	10.0000	11.2362	112.36	67-125
54 Benzene	10.0000	10.9553	109.55	75-116
58 Trichloroethene	10.0000	10.9187	109.19	80-123
71 Toluene	10.0000	10.7674	107.67	74-115
83 Chlorobenzene	10.0000	10.8334	108.33	77-117

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.5650	105.65	76-116
$ 52 1,2-Dichloroethane	10.0000	9.94723	99.47	59-129
$ 70 Toluene-d8	10.0000	10.0028	100.03	76-116
$ 93 Bromofluorobenzene	10.0000	10.0039	100.04	74-114

Data File: /chem/R2.i/052704.b/rr6285.d

Date : 27-MAY-2004 17:44

Client ID: 01-MW-06

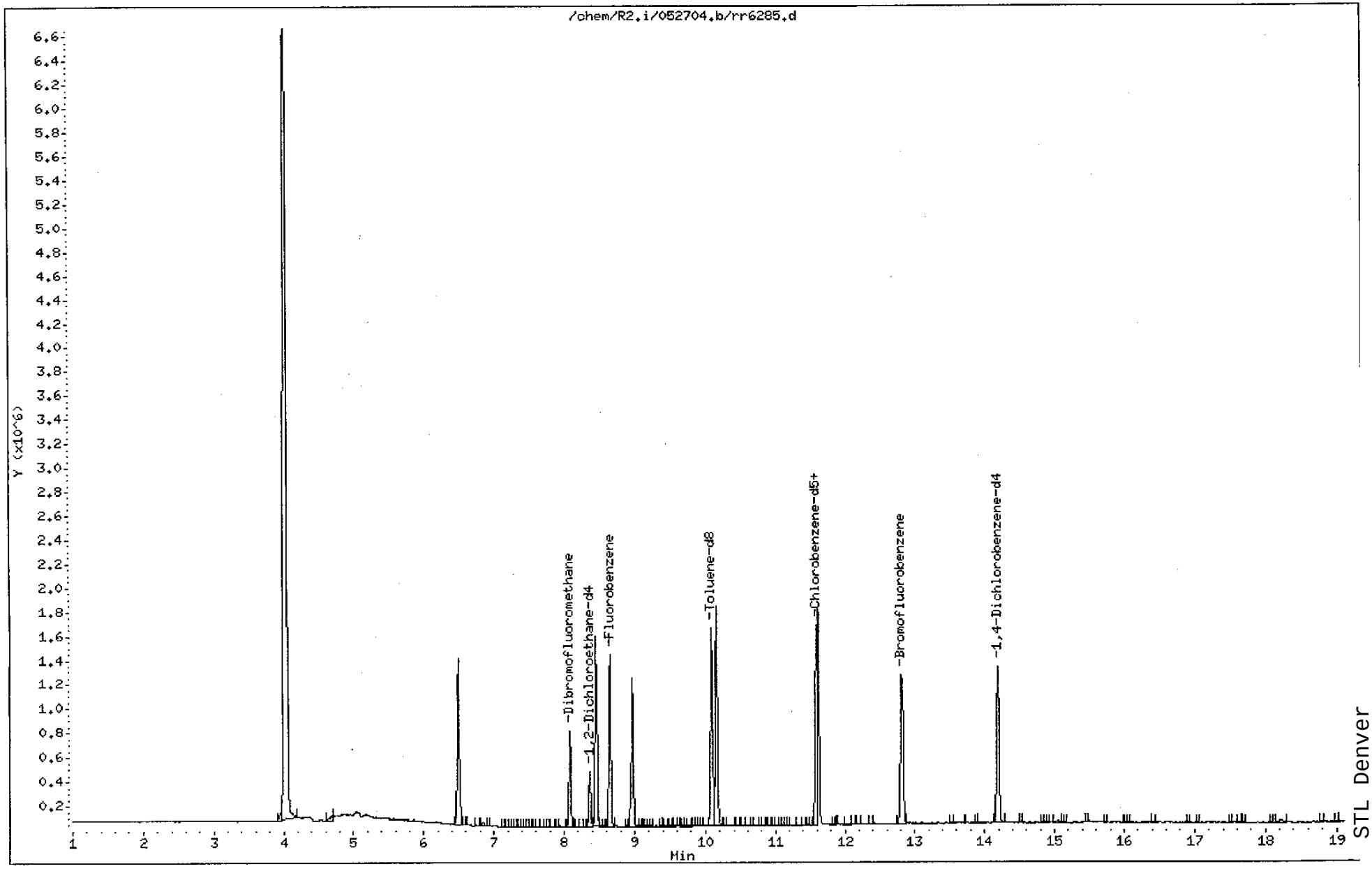
Sample Info: GGTEE1AG,,D4E210325-01MS

Column phase: HP624

Instrument: R2.i

Operator: meierg

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6286.d
Lab Smp Id: GGTEE1AH Client Smp ID: 01-MW-06
Inj Date : 27-MAY-2004 18:10
Operator : meierg Inst ID: R2.i
Smp Info : GGTEE1AH,,D4E210325-01MSD
Misc Info : rr6285.d
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 56	Fluorobenzene	96	8.642	8.642	(1.000)	1178018	10.0000	
* 82	Chlorobenzene-d5	119	11.584	11.584	(1.000)	312775	10.0000	
* 107	1,4-Dichlorobenzene-d4	152	14.190	14.190	(1.000)	494533	10.0000	
$ 46	Dibromofluoromethane	111	8.082	8.072	(0.935)	411932	10.5410	10.5410
$ 52	1,2-Dichloroethane-d4	65	8.367	8.367	(0.968)	311071	10.0282	10.0282
$ 70	Toluene-d8	98	10.088	10.088	(0.871)	1164066	10.2525	10.2525
$ 93	Bromofluorobenzene	95	12.813	12.813	(1.106)	574038	10.5306	10.5306
M 1	1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M 2	Xylene (total)	106.00	Compound Not Detected.					
3	dichlorodifluoromethane	85.00	Compound Not Detected.					
4	dichlorotetrafluoroethane	85.00	Compound Not Detected.					
5	Chloromethane	50.00	Compound Not Detected.					
6	Vinyl Chloride	62.00	Compound Not Detected.					
7	Ethylene Oxide	43.00	Compound Not Detected.					
8	Bromomethane	94.00	Compound Not Detected.					
9	Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59.00	Compound Not Detected.					
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96	6.498	6.484	(0.752)	483018	11.3453	11.3452
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.852	6.848	(0.793)	15842	0.44149	0.441489(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78	8.456	8.452	(0.978)	1197597	11.2703	11.2703
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130	8.967	8.963	(1.038)	364186	11.2373	11.2373
61 1,2-Dichloropropane	63.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.242	9.239	(1.069)	3611	33.2942	33.2942(a)
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91	10.157	10.153	(0.877)	1424706	11.0255	11.0255
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112	11.623	11.609	(1.003)	1045500	11.2023	11.2023
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					
111 o-Dichlorobenzene	146.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

Data File: /chem/R2.i/052704.b/rr6286.d
Report Date: 27-May-2004 23:14

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6286.d
Lab Smp Id: GGTEE1AH
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info: rr6285.d

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-06
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1178018	5.46
82 Chlorobenzene-d5	318643	159322	637286	312775	-1.84
107 1,4-Dichlorobenze	494708	247354	989416	494533	-0.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.00
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.00
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.00

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTEE1AH
Client Smp ID: 01-MW-06
Level: LOW
Operator: meierg
Data Type: MS DATA
SampleType: MSD
SpikeList File: dcs.spk
Quant Type: ISTD
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info: rr6285.d

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
19	1,1-Dichloroethene	10.0000	11.3452	113.45	67-125
54	Benzene	10.0000	11.2703	112.70	75-116
58	Trichloroethene	10.0000	11.2373	112.37	80-123
71	Toluene	10.0000	11.0255	110.26	74-115
83	Chlorobenzene	10.0000	11.2023	112.02	77-117

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46	Dibromofluorometha	10.0000	10.5410	105.41	76-116
$ 52	1,2-Dichloroethane	10.0000	10.0282	100.28	59-129
$ 70	Toluene-d8	10.0000	10.2525	102.52	76-116
$ 93	Bromofluorobenzene	10.0000	10.5306	105.31	74-114

Data File: /chem/R2.i/052704.b/rr6286.d

Date : 27-MAY-2004 18:10

Client ID: 01-MW-06

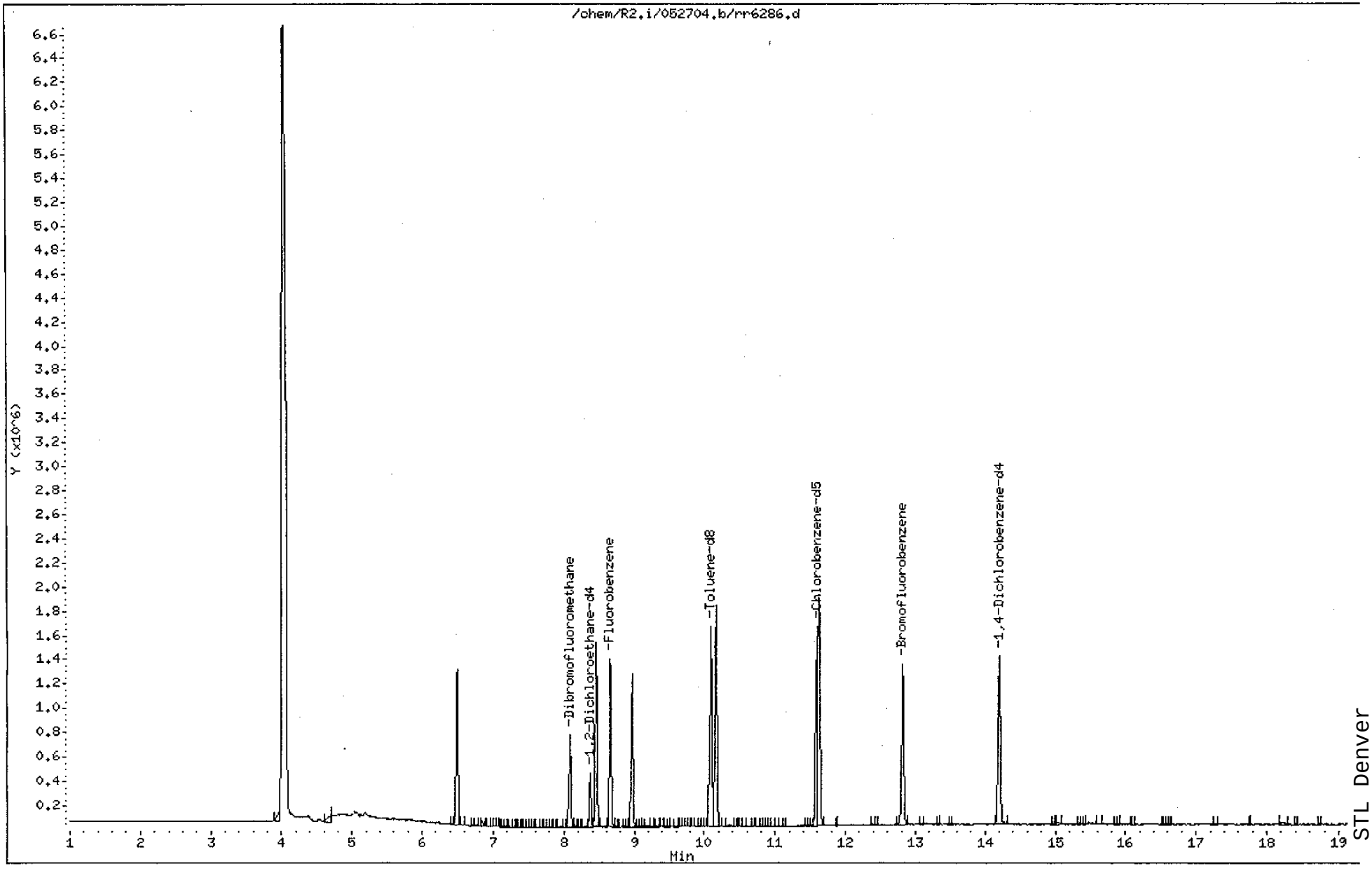
Instrument: R2.i

Sample Info: GGTEE1AH,,D4E210325-01MSD

Operator: meierg

Column phase: HP624

Column diameter: 0.32



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6287.d
Lab Smp Id: GGTE31AA Client Smp ID: 01-MW-12
Inj Date : 27-MAY-2004 18:35
Operator : meierg Inst ID: R2.i
Smp Info : GGTE31AA,,D4E210325-02
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.644	8.642	(1.000)	974671	10.0000	
*	82 Chlorobenzene-d5	119	11.585	11.584	(1.000)	253634	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.191	14.190	(1.000)	405875	10.0000	
$	46 Dibromofluoromethane	111	8.083	8.072	(0.935)	345071	10.6724	10.6724
$	52 1,2-Dichloroethane-d4	65	8.368	8.367	(0.968)	288557	11.2432	11.2432
$	70 Toluene-d8	98	10.090	10.088	(0.871)	962813	10.4572	10.4572
$	93 Bromofluorobenzene	95	12.814	12.813	(1.106)	471262	10.6610	10.6610
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106				75812	1.53445	1.53445
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59	6.214	6.213	(0.719)	234611	9.53382	9.53382
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43	6.470	6.465	(0.749)	63327	14.7510	14.7510
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.853	6.848	(0.793)	13135	0.44242	0.442419(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42	7.985	7.974	(0.924)	4116	2.06249	2.06249(a)
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78	8.457	8.452	(0.978)	21042	0.23933	0.239334(a)
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
61 1,2-Dichloropropane	63.00	Compound Not Detected.					
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.244	9.239	(1.069)	8547	95.2463	95.2463(a)
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91	10.158	10.153	(0.877)	71615	0.68344	0.683444(a)
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112	11.614	11.609	(1.003)	174310	2.30319	2.30318
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106	11.693	11.688	(1.009)	11645	0.28840	0.288398(a)
86 m and p-Xylene	106	11.811	11.806	(1.020)	58295	1.18054	1.18054
87 o-Xylene	106	12.244	12.239	(1.057)	17517	0.35391	0.353914(a)
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105	12.618	12.612	(1.089)	27604	0.19124	0.191245(a)
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120	13.080	13.075	(0.922)	7038	0.20065	0.200648(aQ)
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105	13.257	13.242	(0.934)	31496	0.26786	0.267858(a)
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105	13.709	13.704	(0.966)	90749	0.79424	0.794236(aQ)
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105	14.250	14.249	(1.004)	23304	0.21308	0.213081(a)
110 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6287.d
Lab Smp Id: GGTE31AA
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-12
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	974671	-12.74
82 Chlorobenzene-d5	318643	159322	637286	253634	-20.40
107 1,4-Dichlorobenze	494708	247354	989416	405875	-17.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.01
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.01
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.01

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTE31AA
Client Smp ID: 01-MW-12
Level: LOW
Operator: meierg
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs.spk
Quant Type: ISTD
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.6724	106.72	76-116
$ 52 1,2-Dichloroethane	10.0000	11.2432	112.43	59-129
$ 70 Toluene-d8	10.0000	10.4572	104.57	76-116
$ 93 Bromofluorobenzene	10.0000	10.6610	106.61	74-114

Data File: /chem/R2.i/052704.b/rr6287.d

Page 7

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

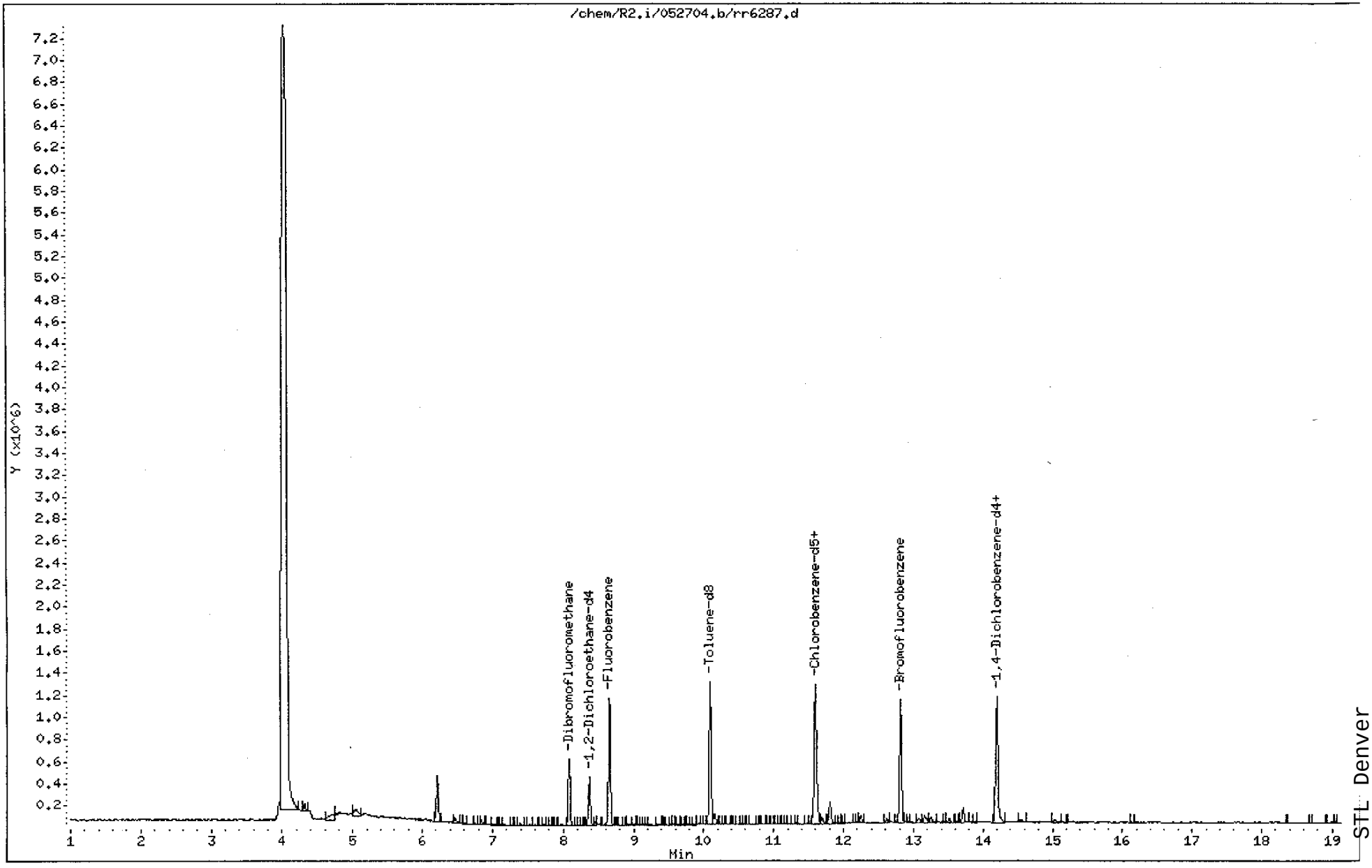
Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

Operator: meierg

Column phase: HP624

Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

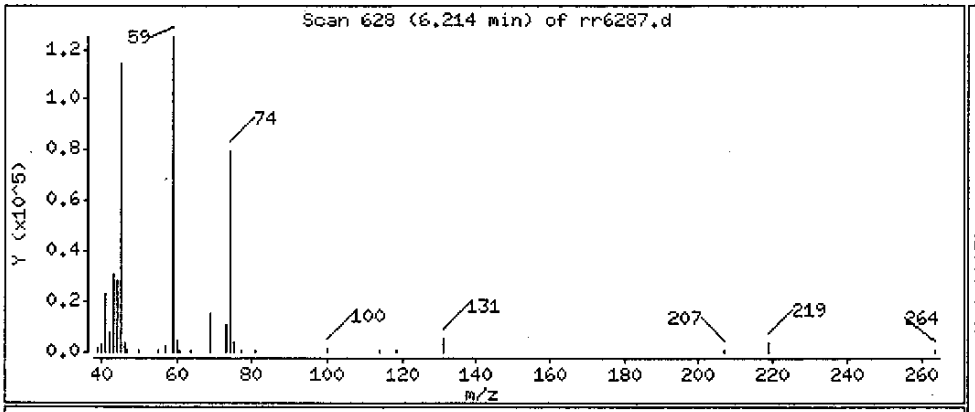
Operator: meierg

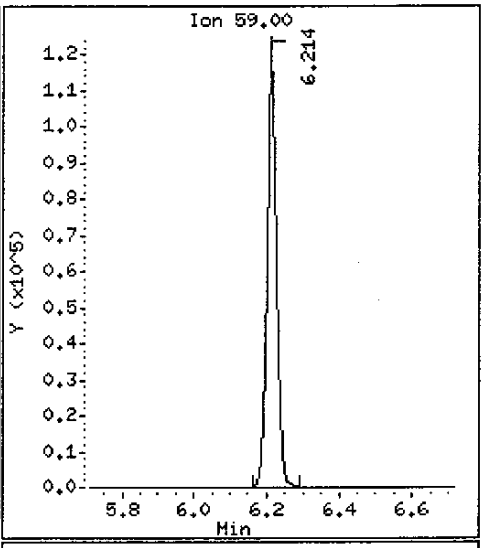
Column phase: HP624

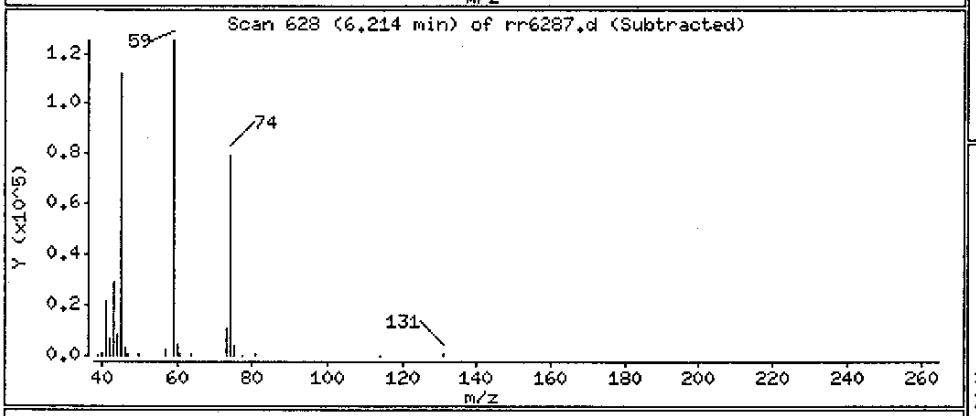
Column diameter: 0.32

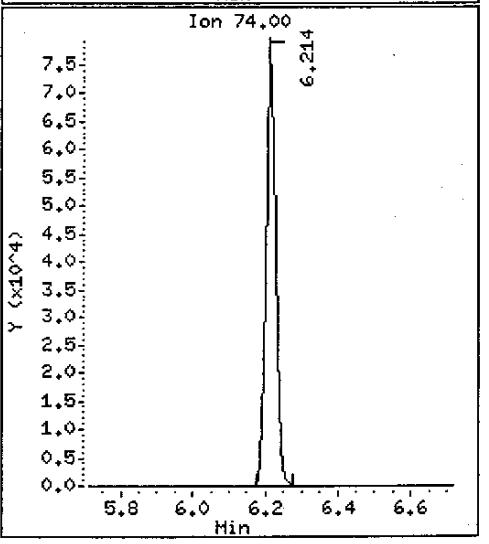
14 Ethyl Ether

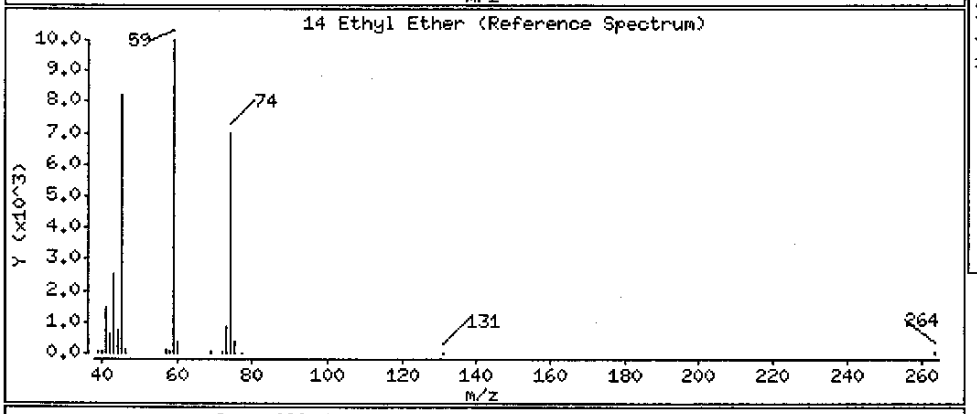
Concentration: 9.53382 ug/L

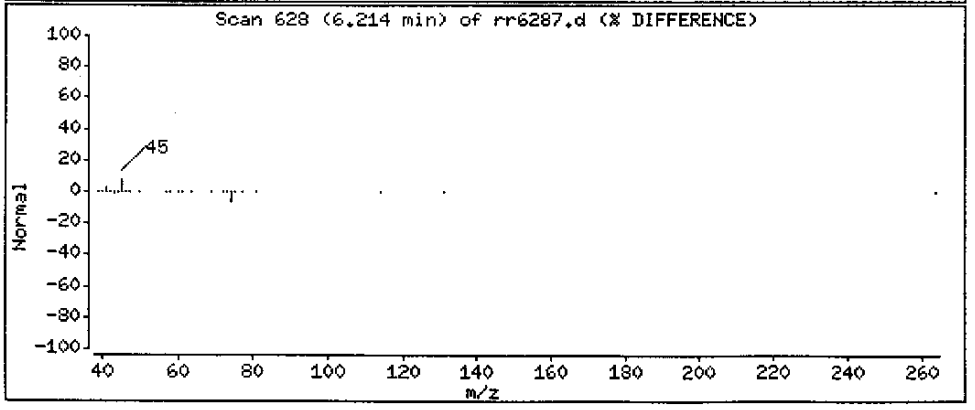












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: CGTE31AA,,D4E210325-02

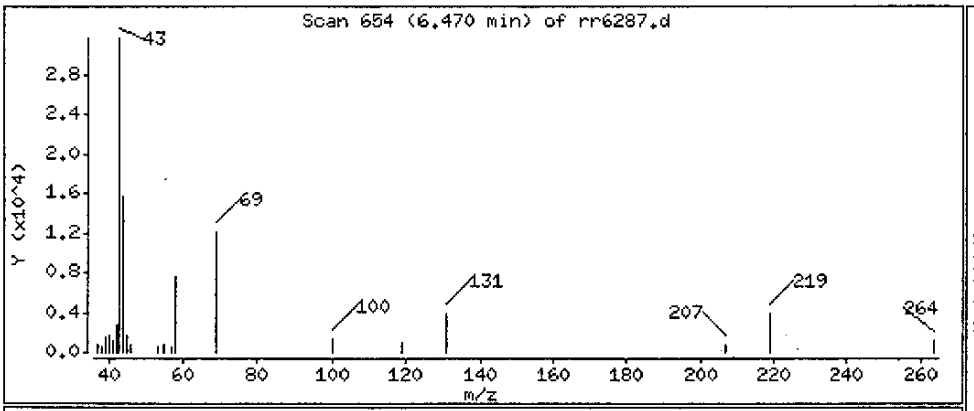
Operator: meierg

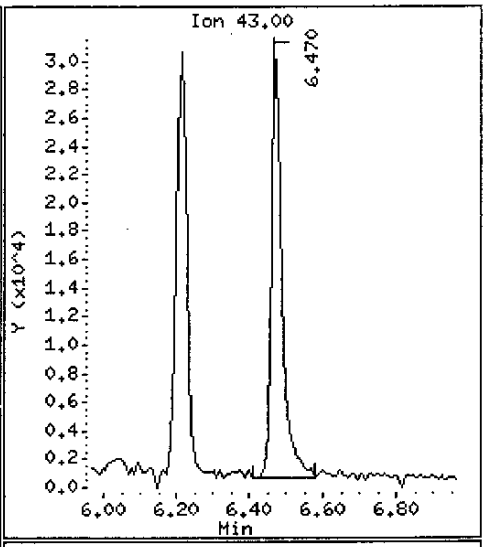
Column phase: HP624

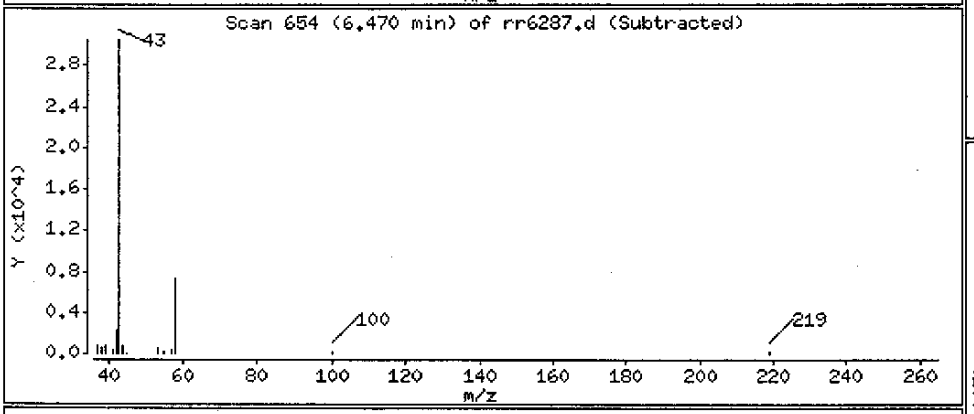
Column diameter: 0.32

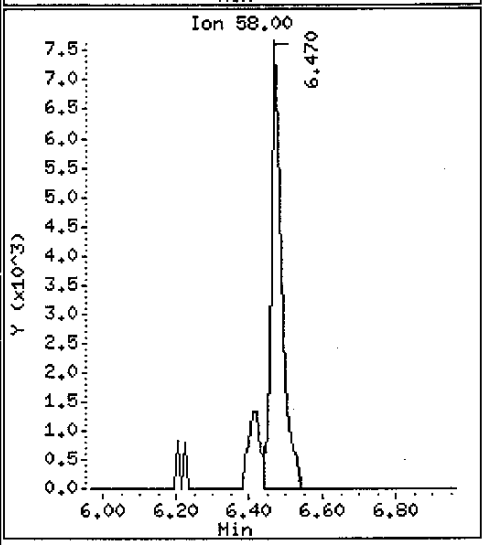
18 Acetone

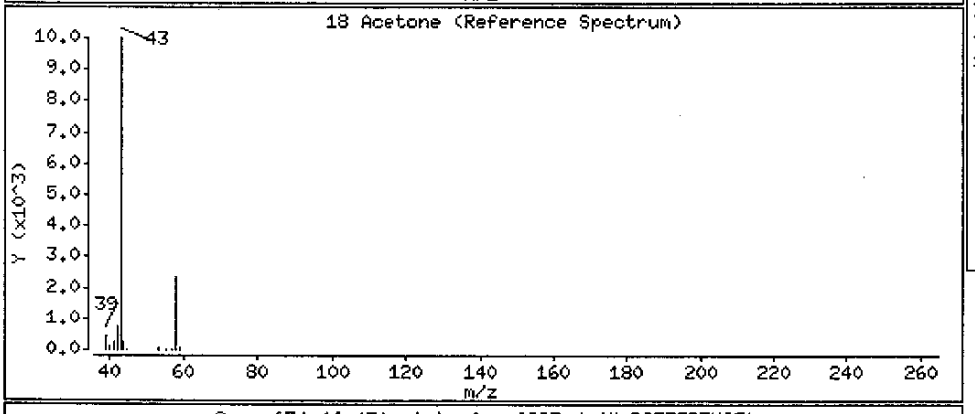
Concentration: 14.7510 ug/L

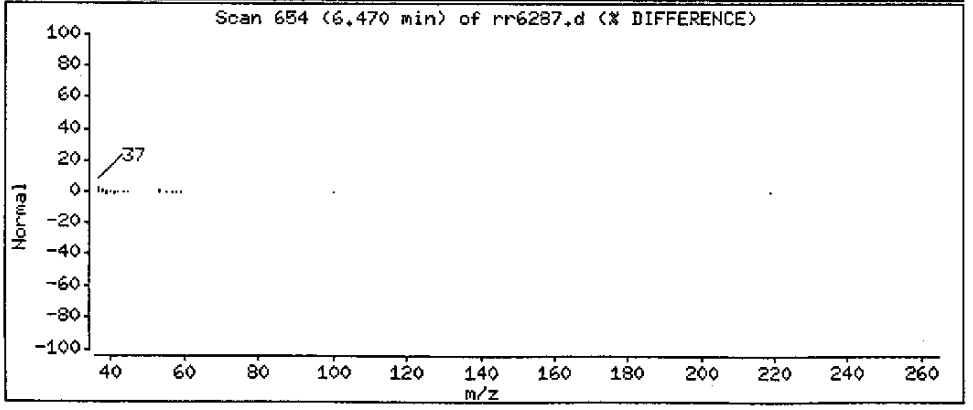












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

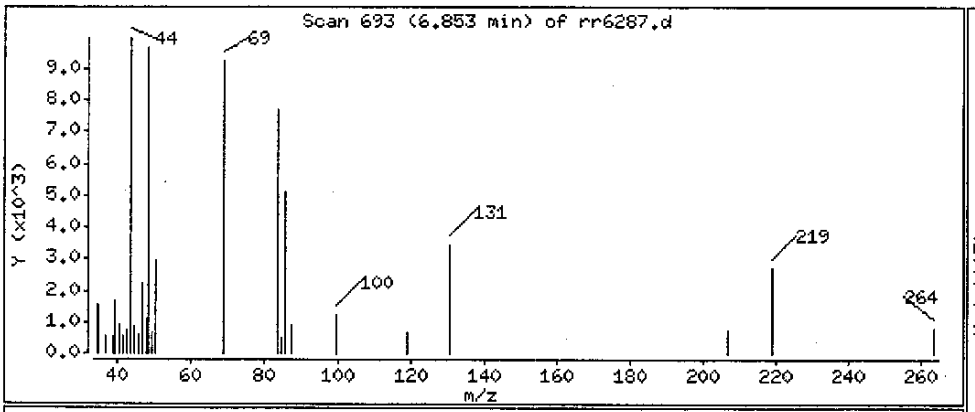
Operator: meierg

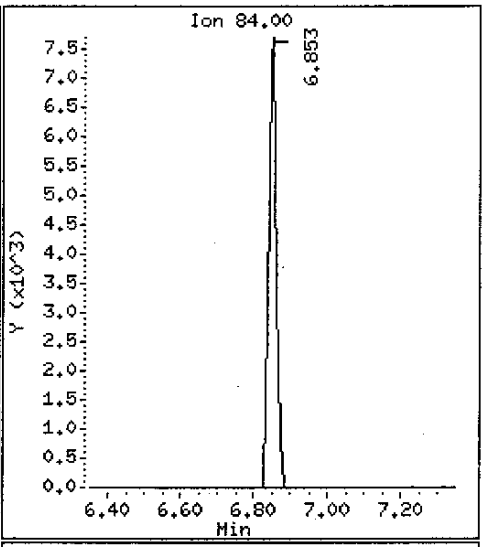
Column phase: HP624

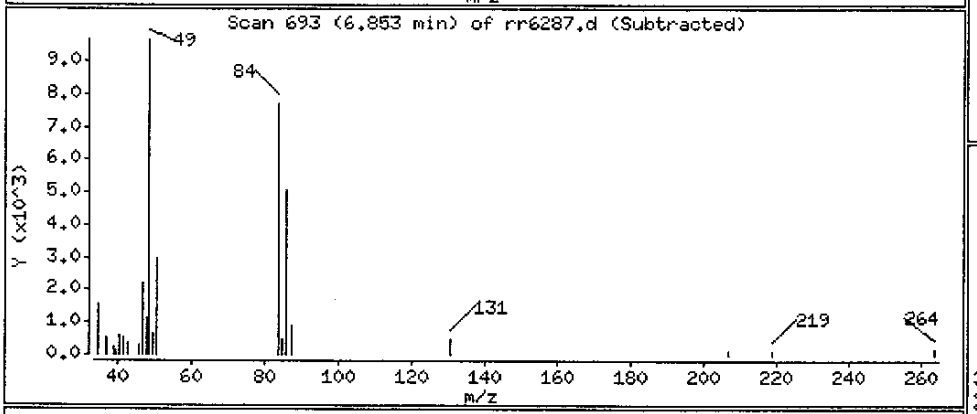
Column diameter: 0.32

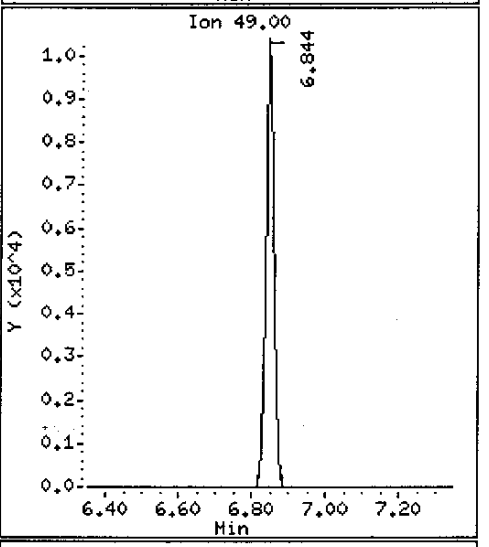
27 Methylene Chloride

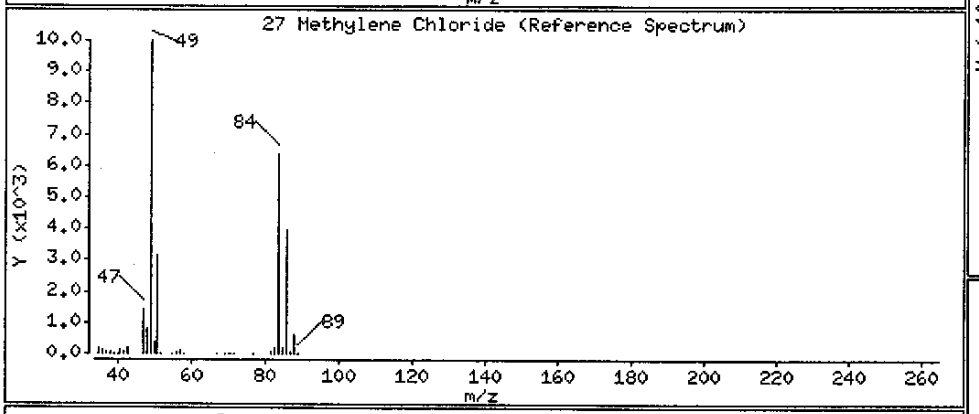
Concentration: 0.442419 ug/L

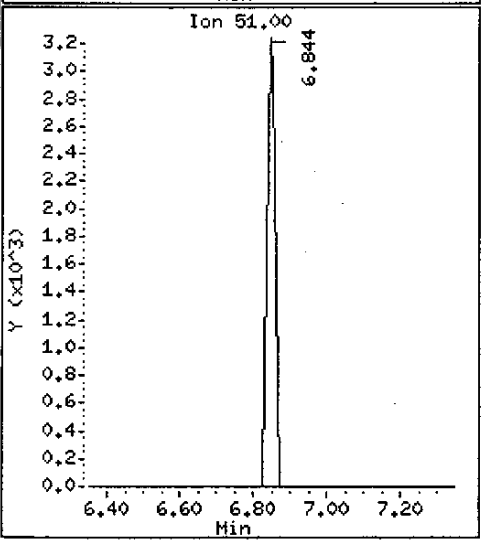


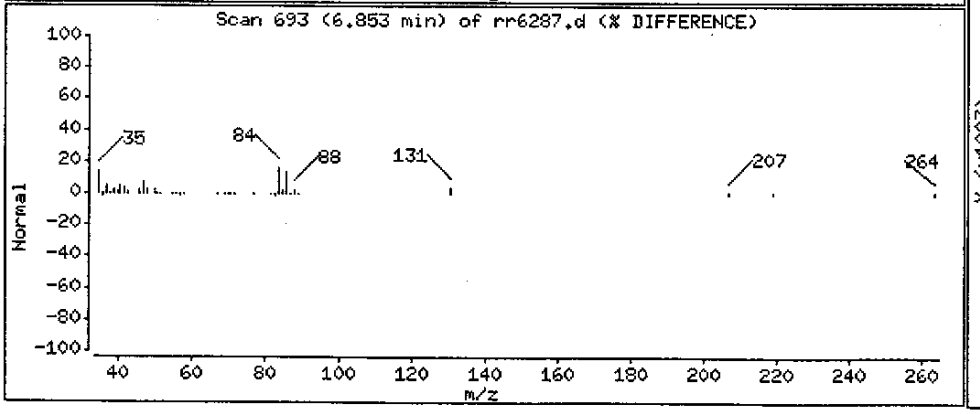












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

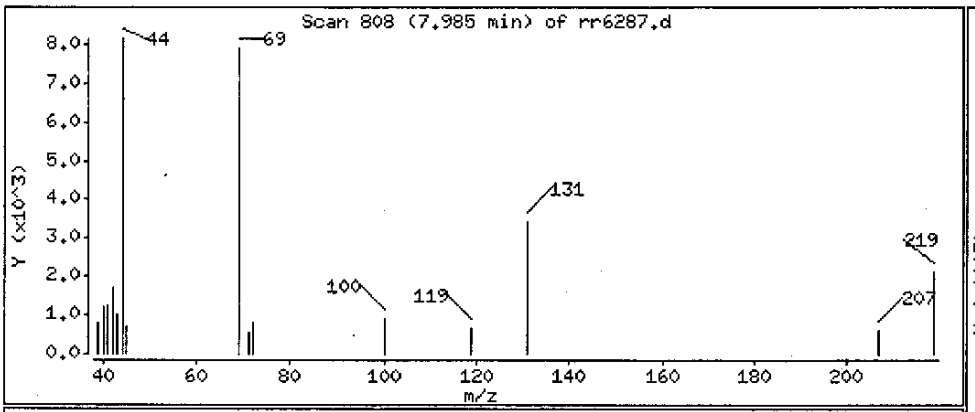
Operator: meierg

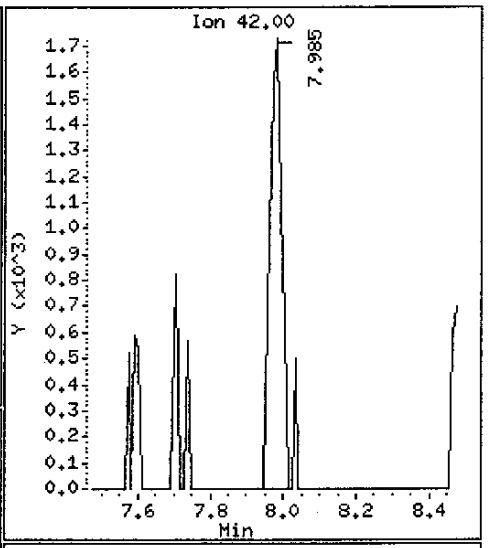
Column phase: HP624

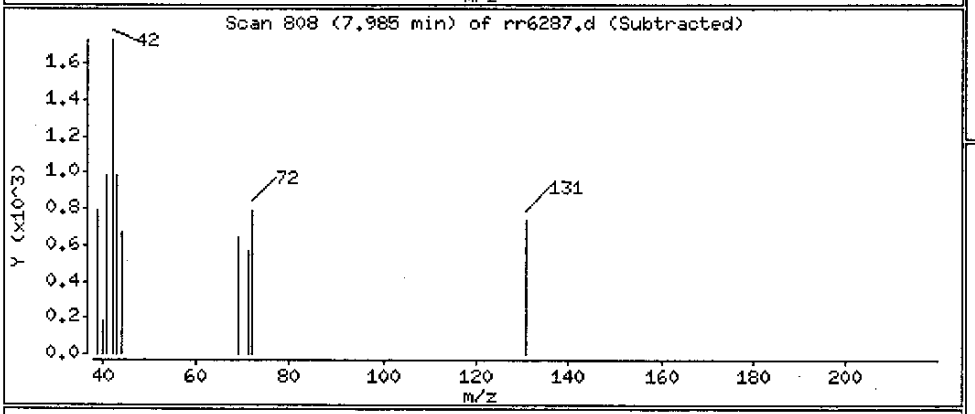
Column diameter: 0.32

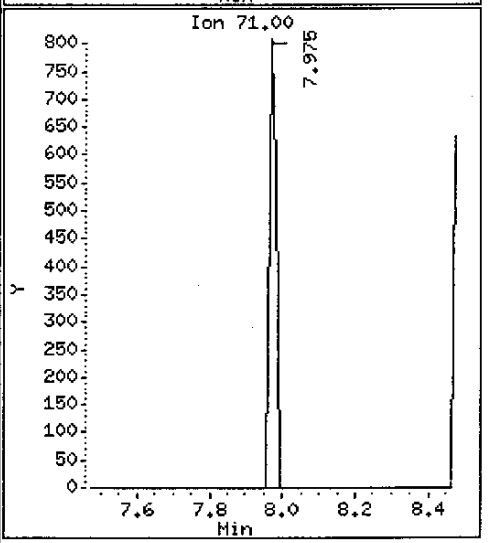
45 Tetrahydrofuran

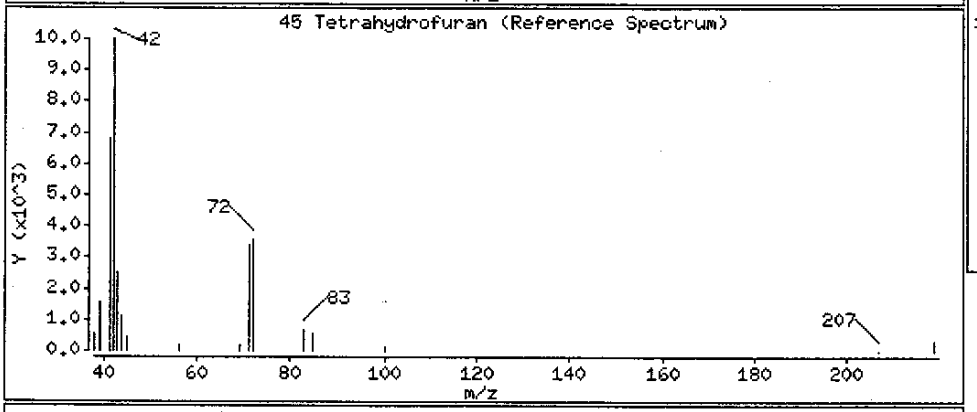
Concentration: 2.06249 ug/L

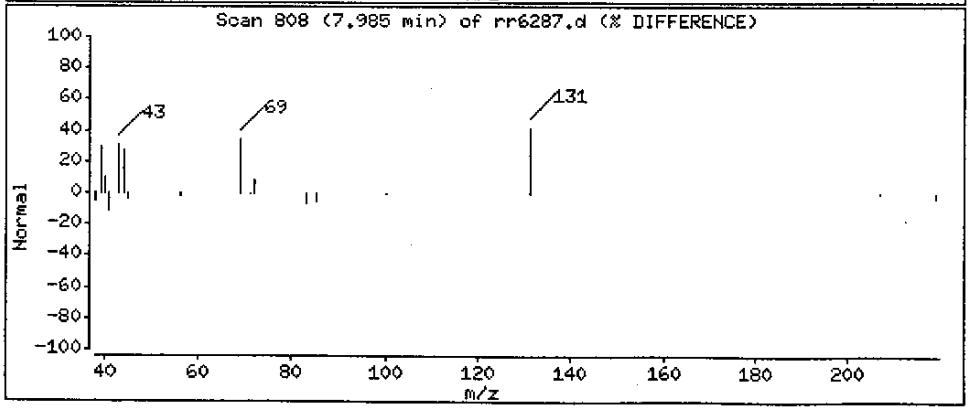












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

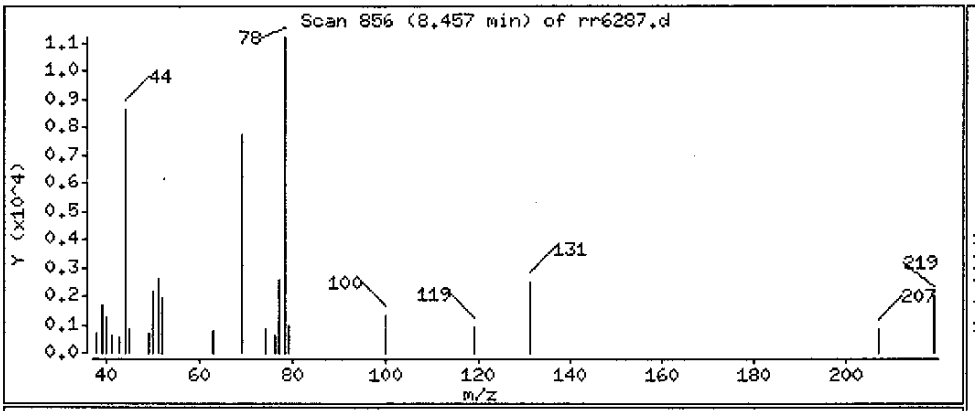
Operator: meierg

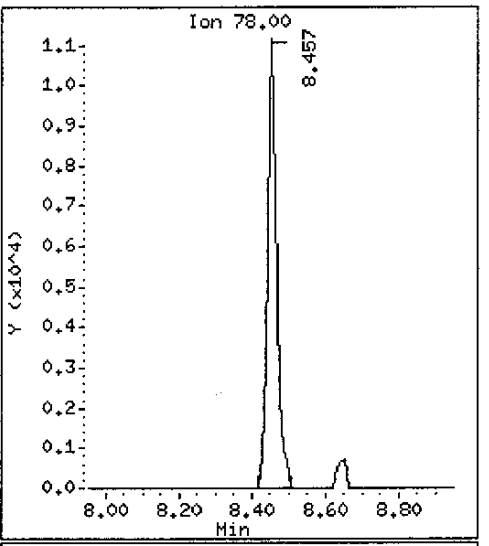
Column phase: HP624

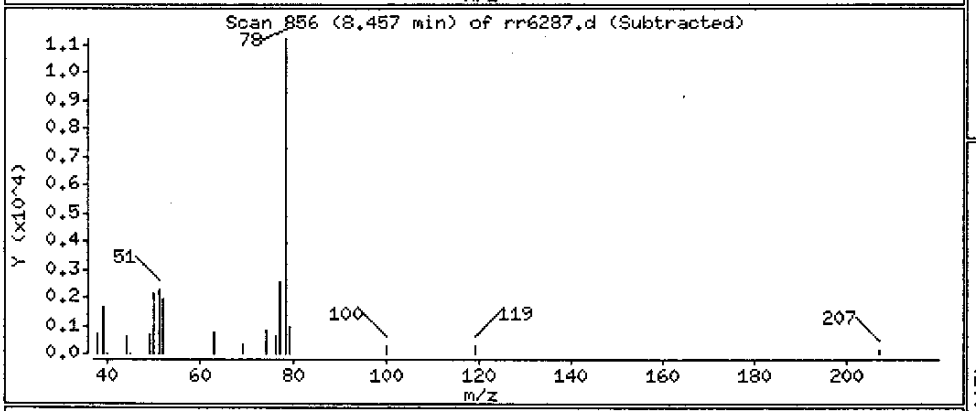
Column diameter: 0.32

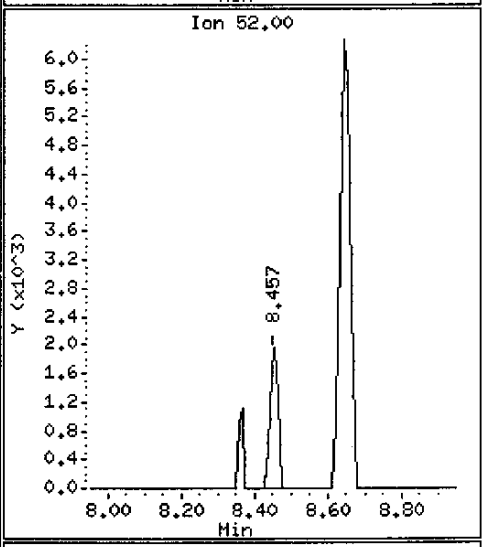
54 Benzene

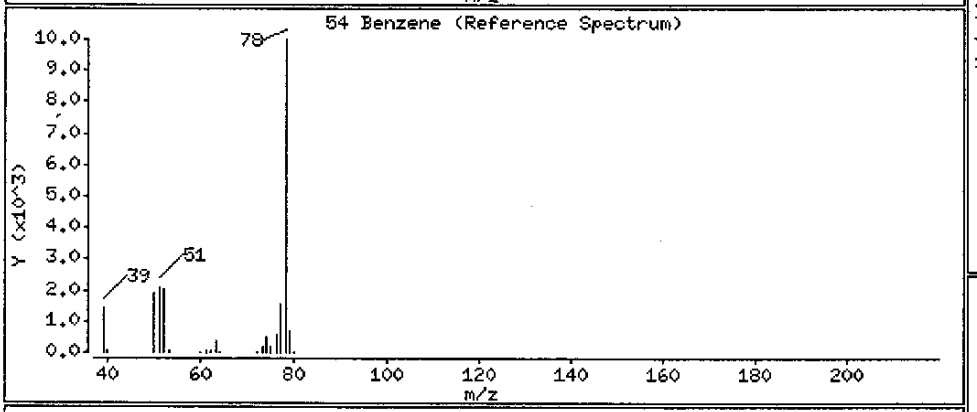
Concentration: 0.239334 ug/L

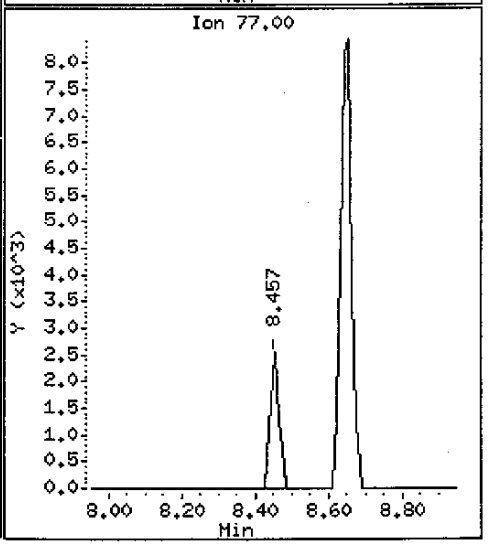


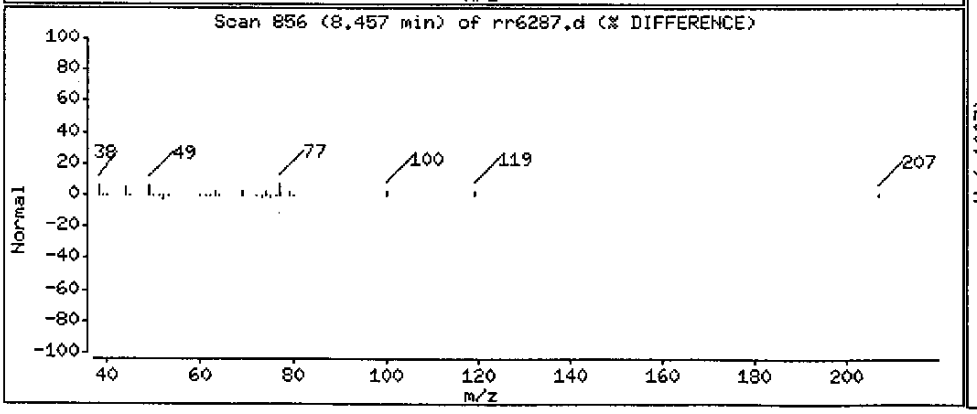












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

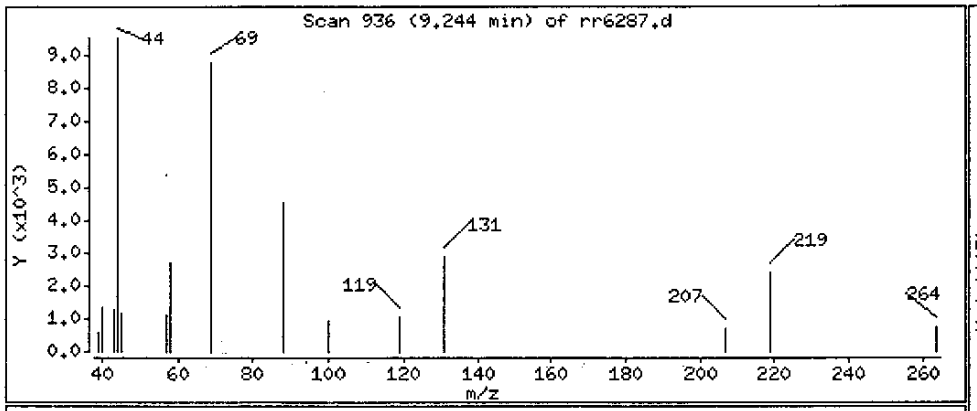
Operator: meierg

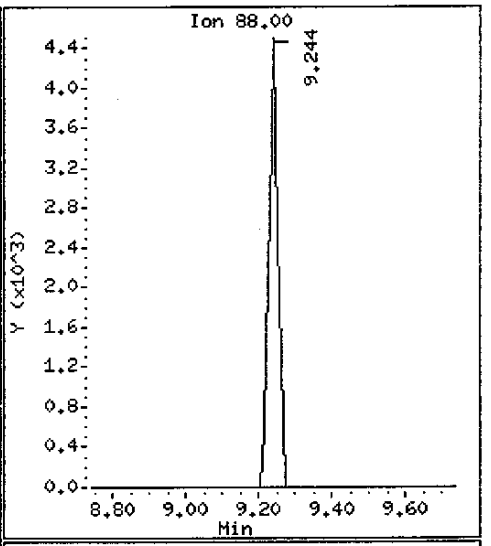
Column phase: HP624

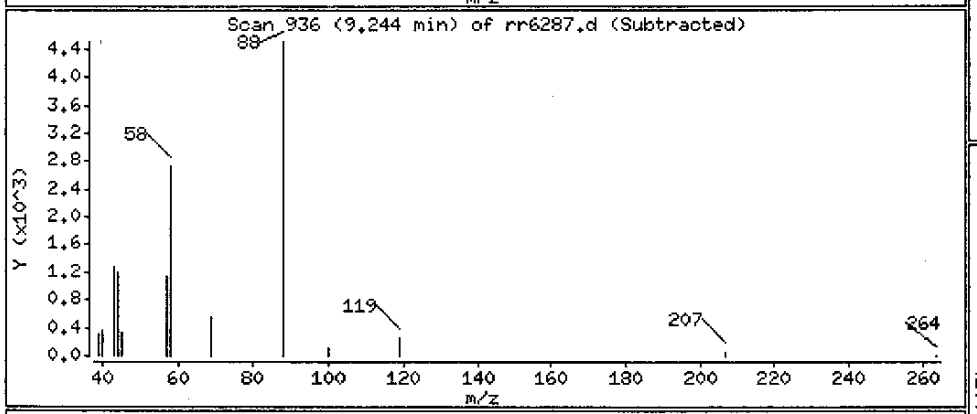
Column diameter: 0.32

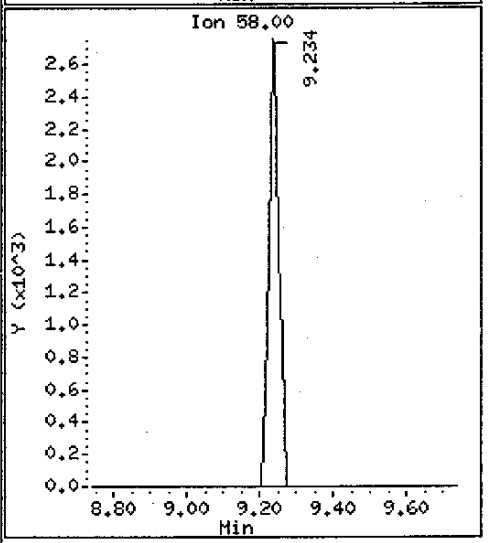
63 1,4-Dioxane

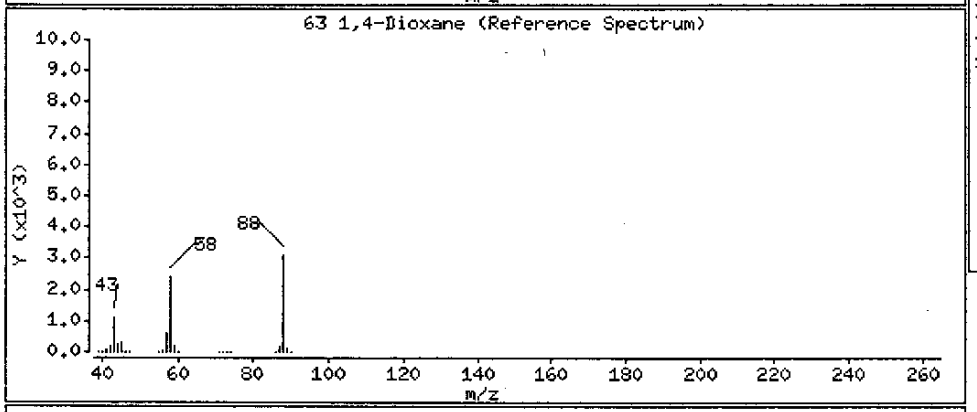
Concentration: 95.2463 ug/L

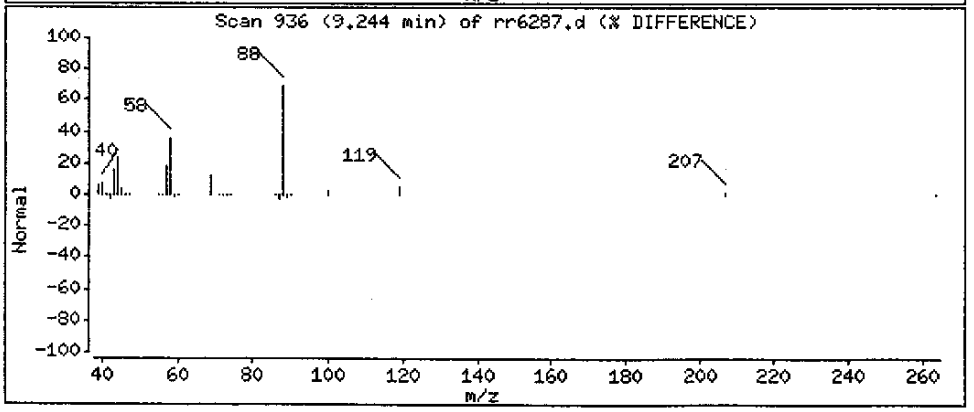












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

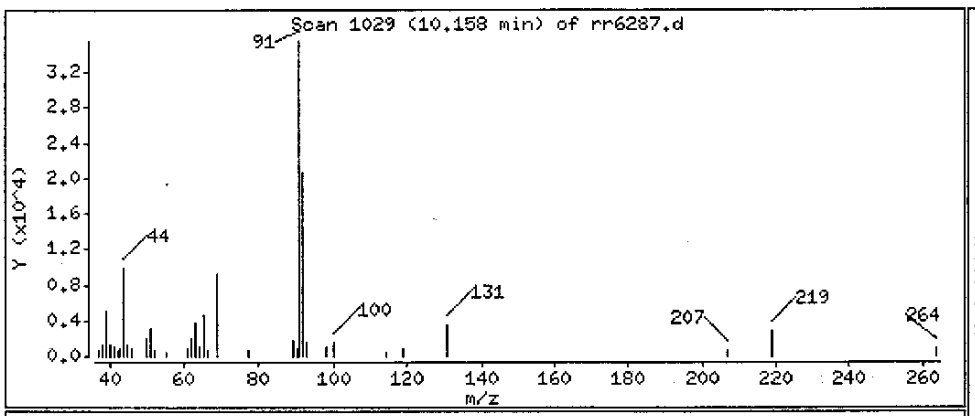
Operator: meierg

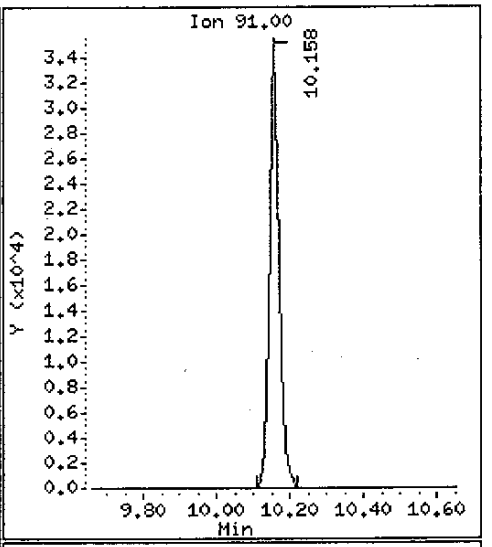
Column phase: HP624

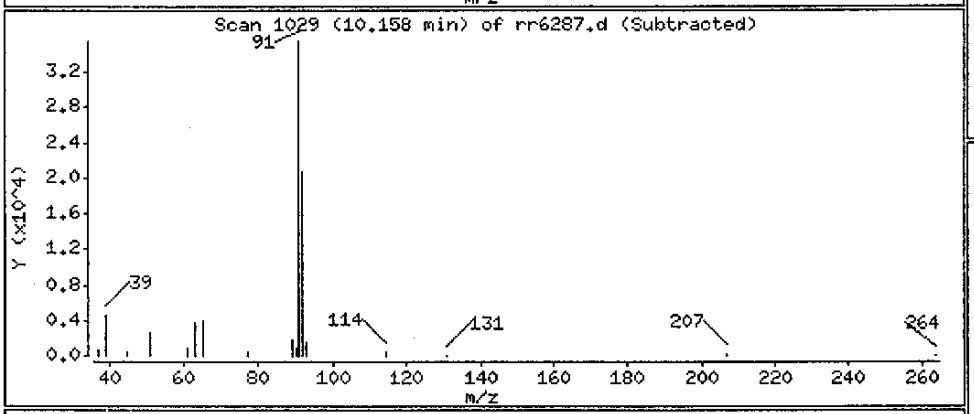
Column diameter: 0.32

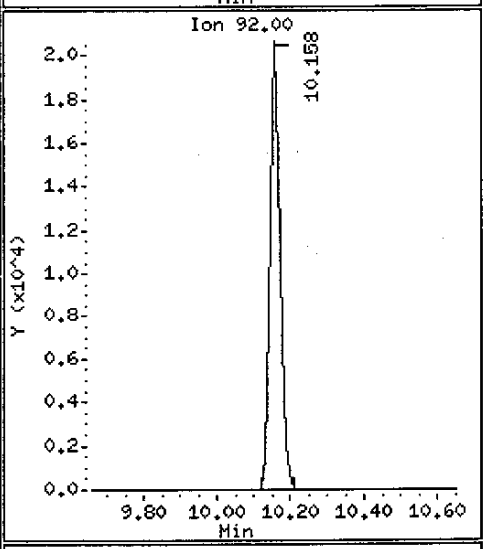
71 Toluene

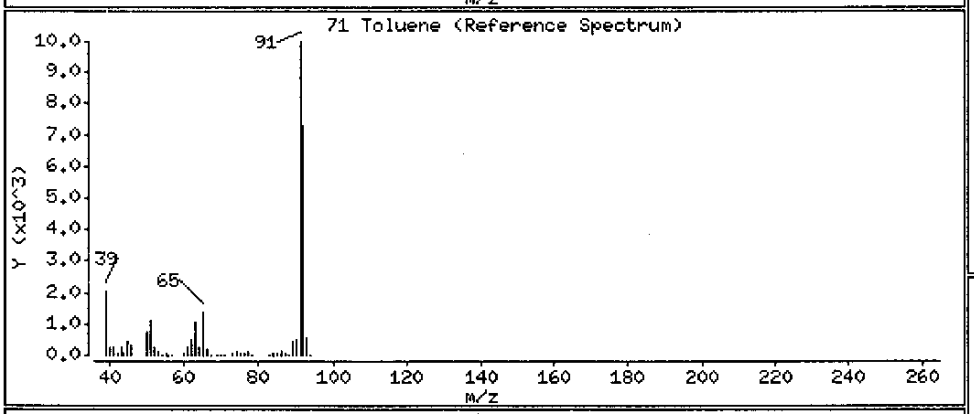
Concentration: 0.683444 ug/L

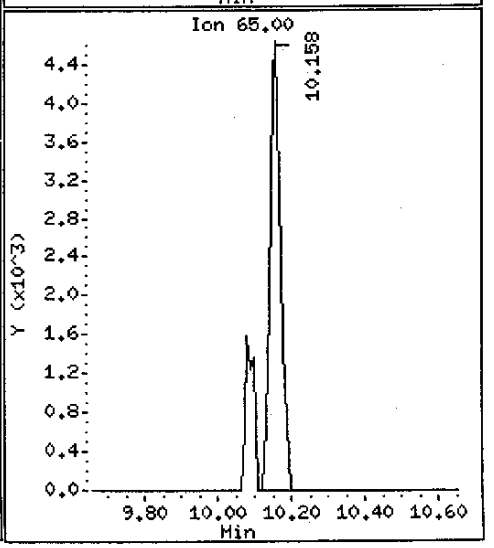


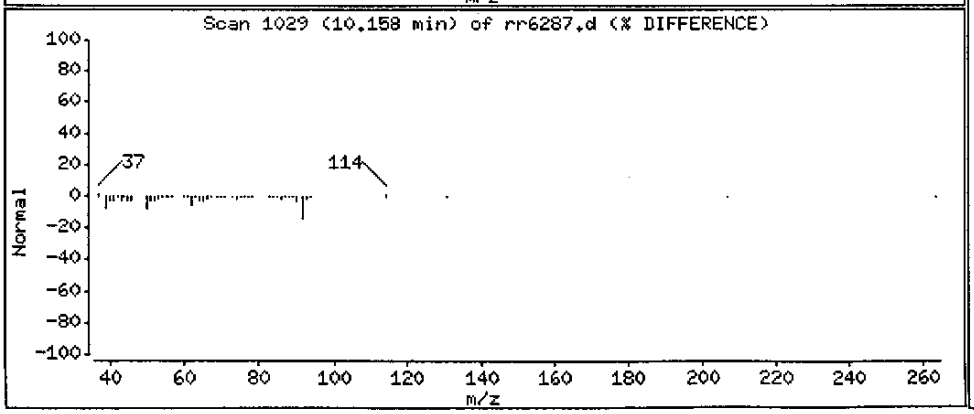












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

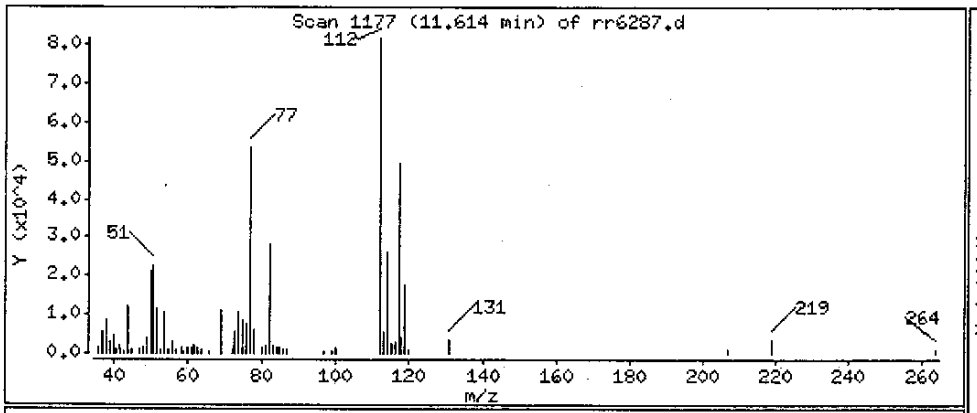
Operator: meierg

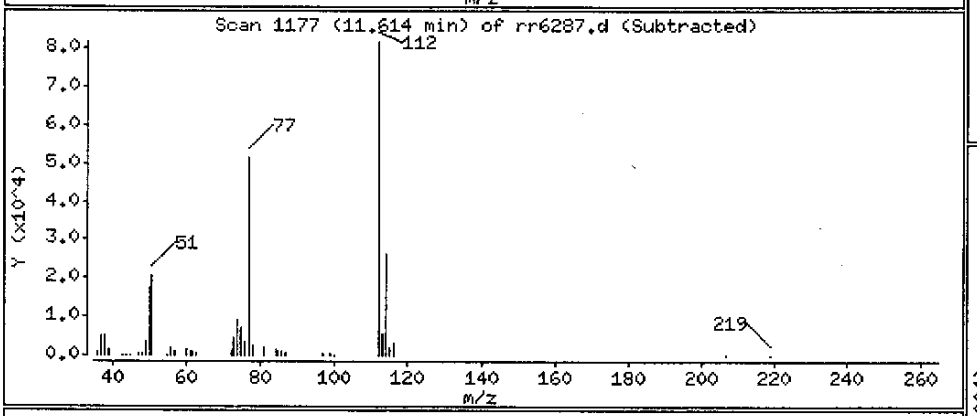
Column phase: HP624

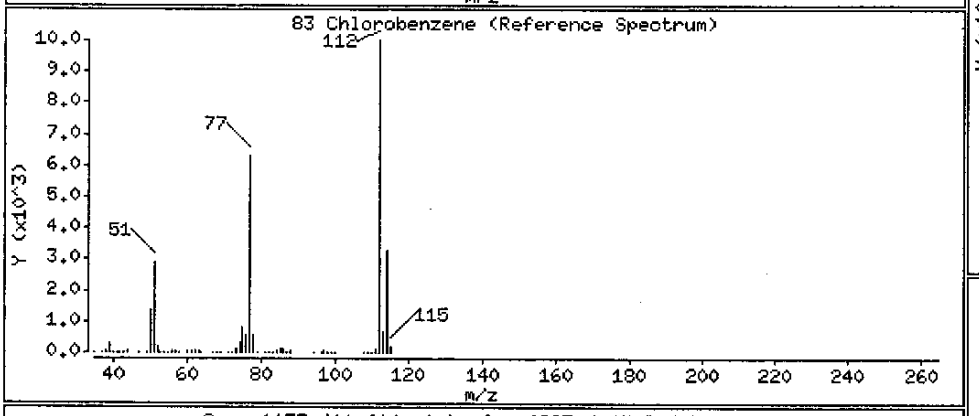
Column diameter: 0.32

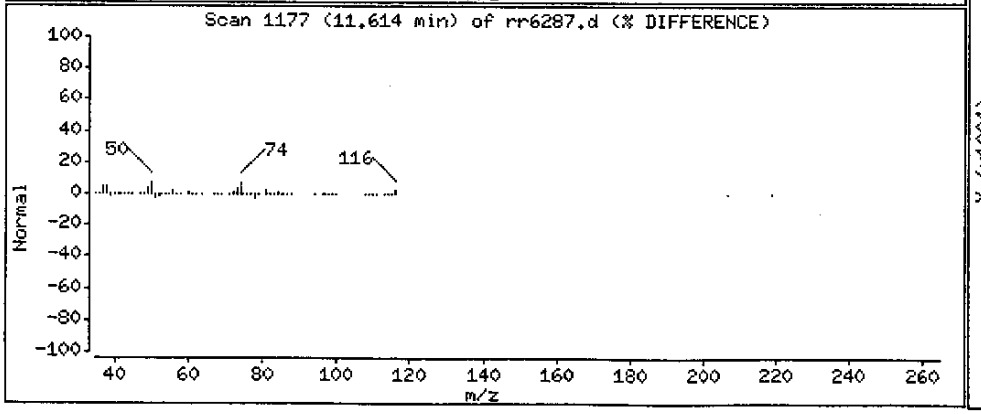
83 Chlorobenzene

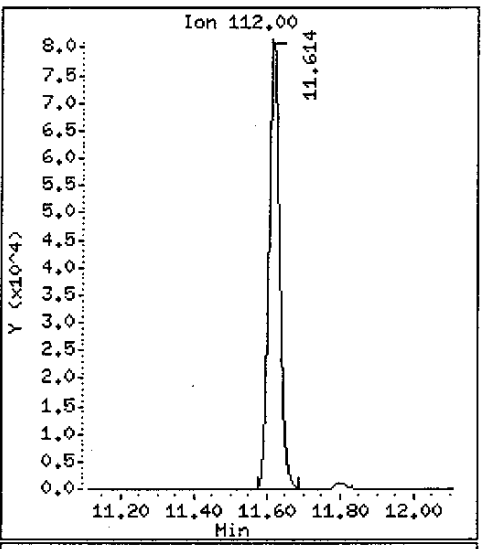
Concentration: 2.30318 ug/L

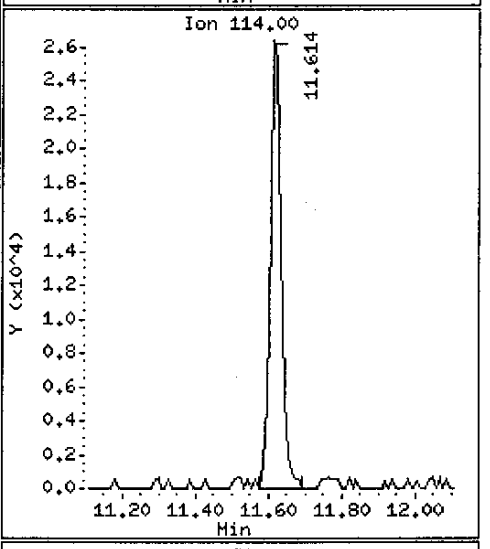


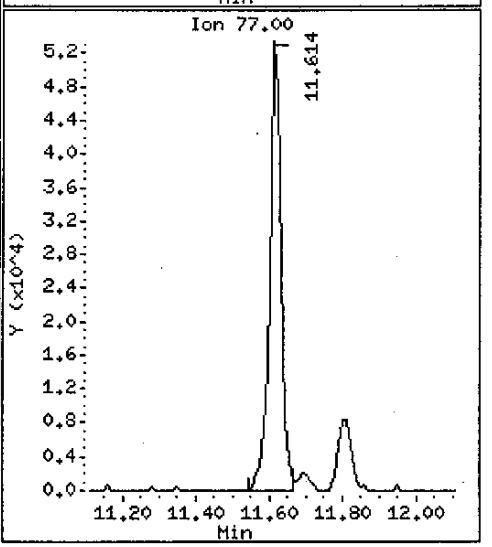












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

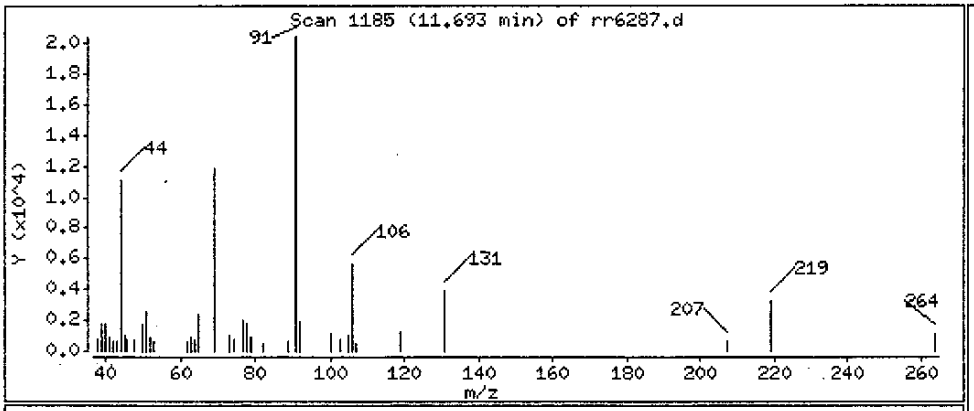
Operator: meierg

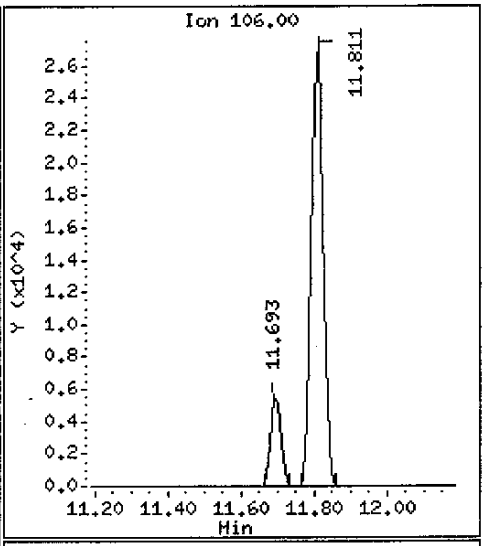
Column phase: HP624

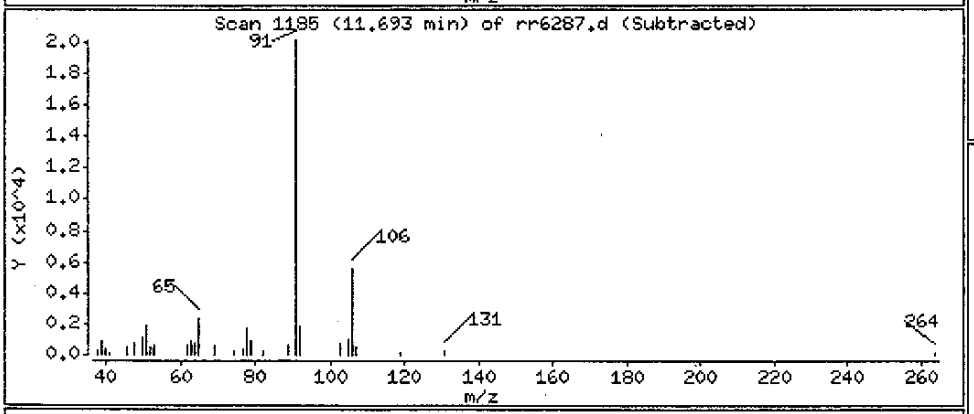
Column diameter: 0.32

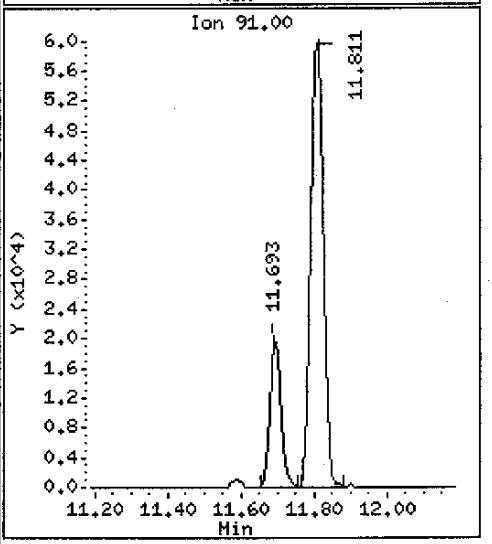
85 Ethylbenzene

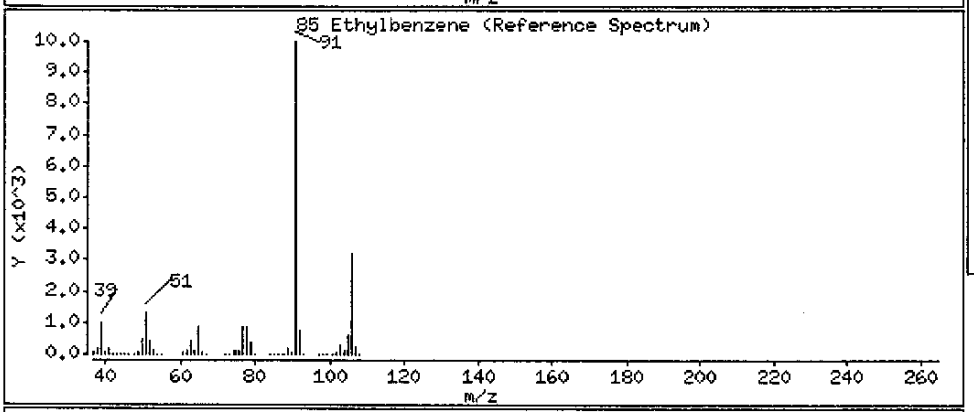
Concentration: 0.288398 ug/L

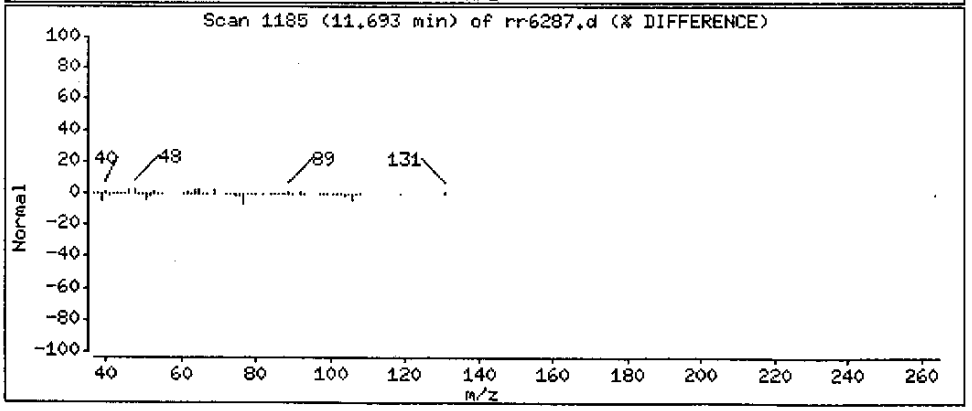












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

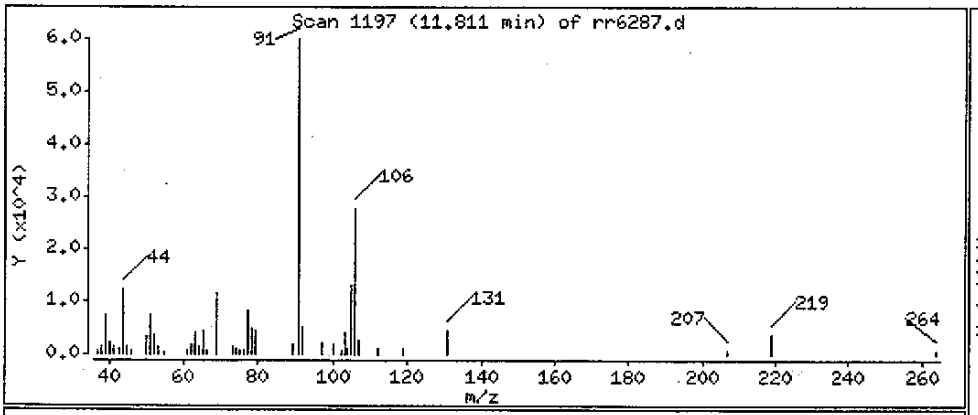
Operator: meierg

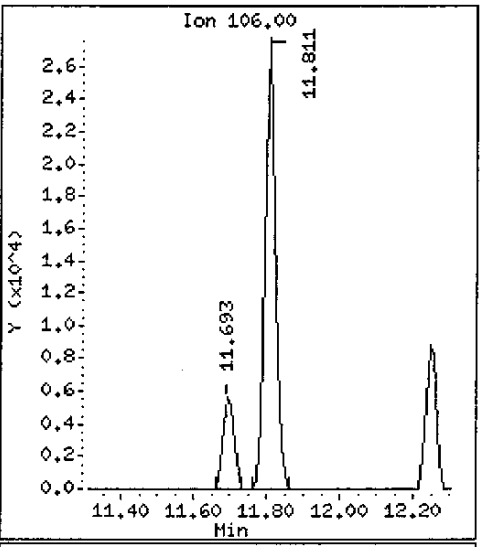
Column phase: HP624

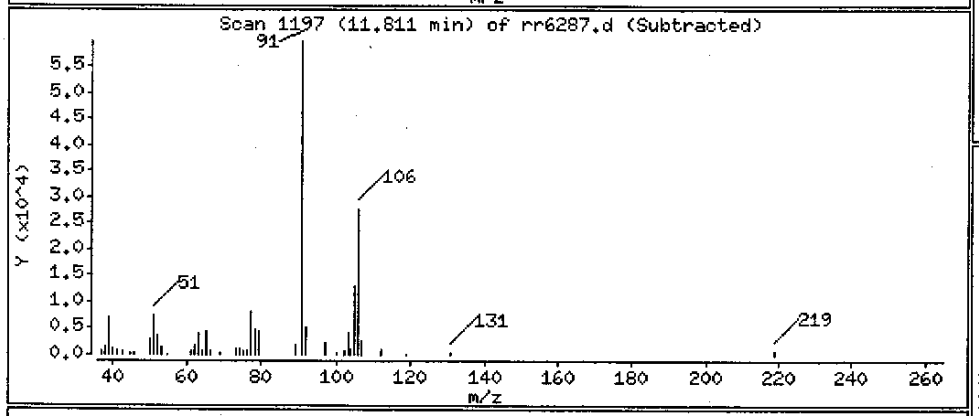
Column diameter: 0.32

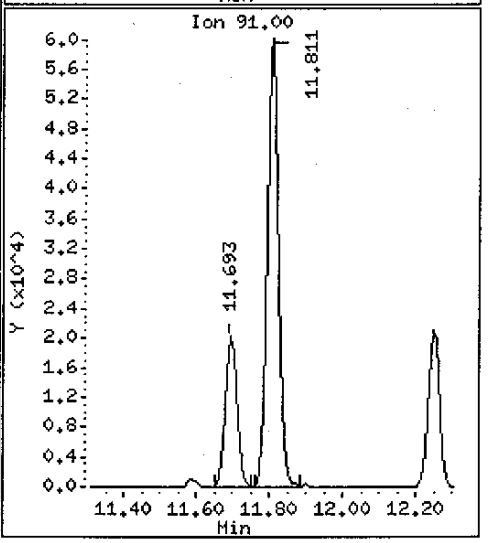
86 m and p-Xylene

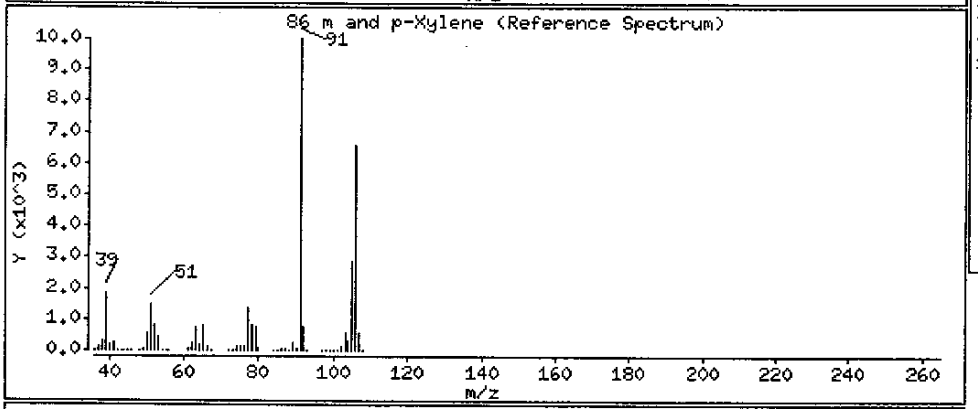
Concentration: 1.18054 ug/L

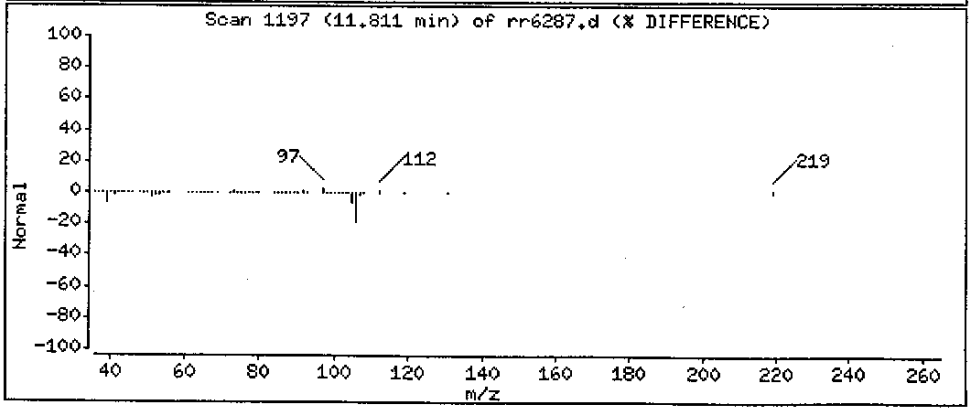












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

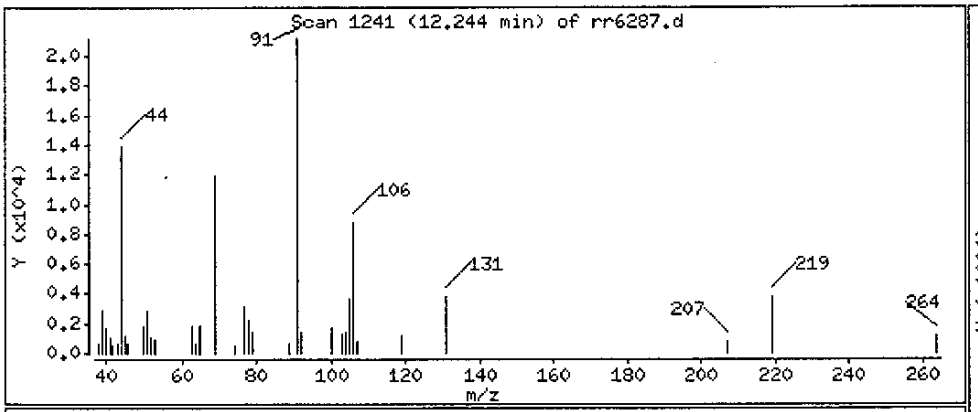
Operator: meierg

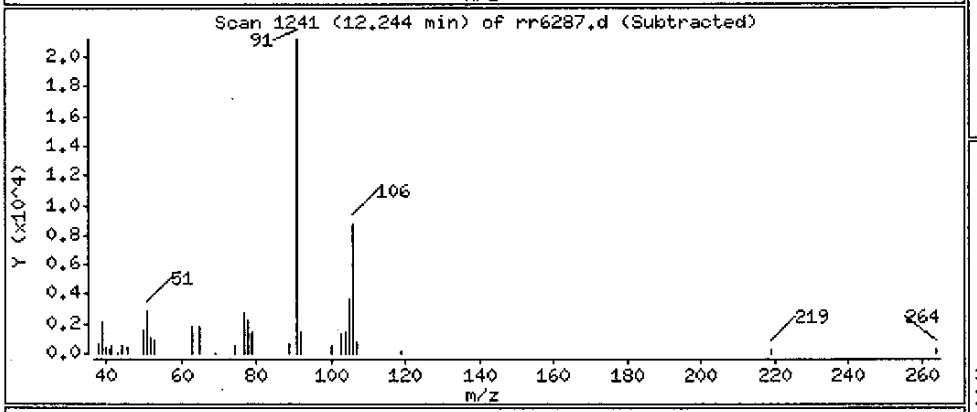
Column phase: HP624

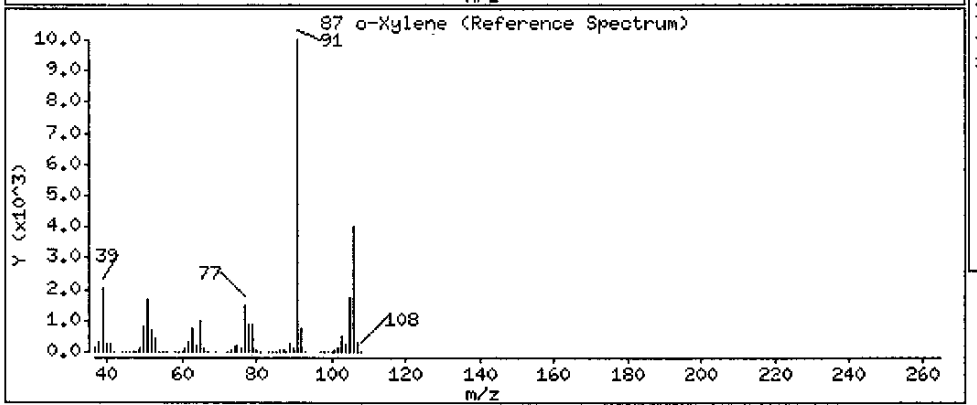
Column diameter: 0.32

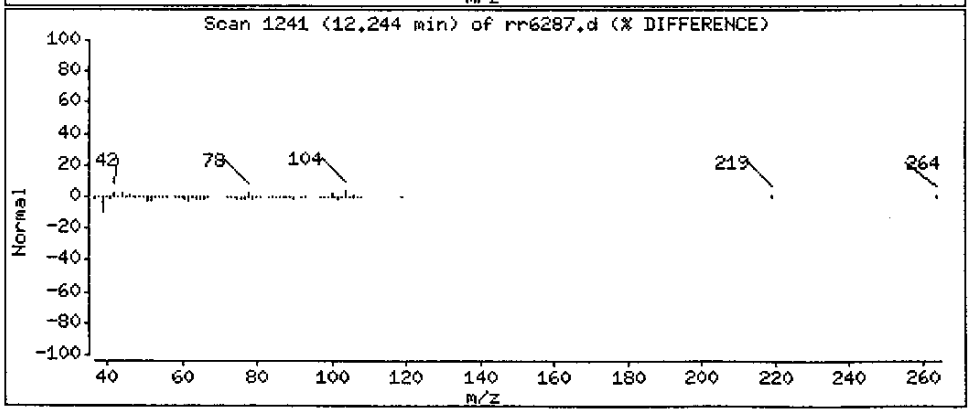
87 o-Xylene

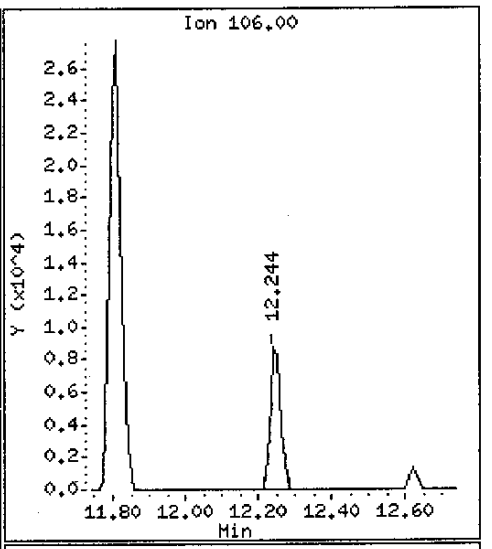
Concentration: 0.353914 ug/L

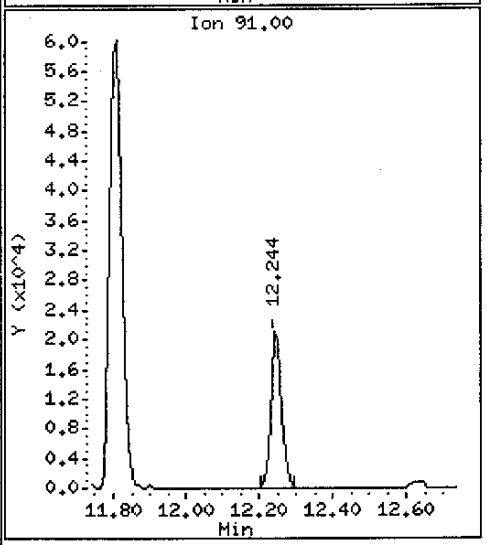












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GCTE31AA,,D4E210325-02

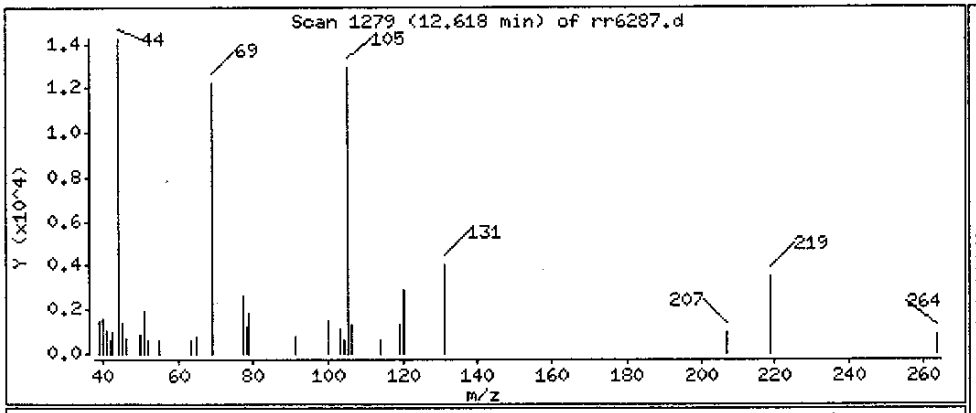
Operator: meierg

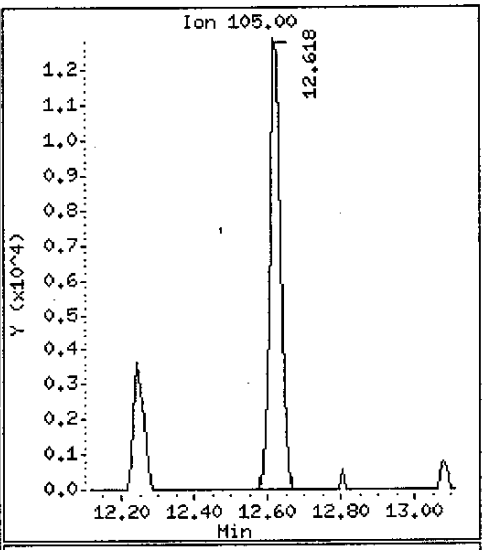
Column phase: HP624

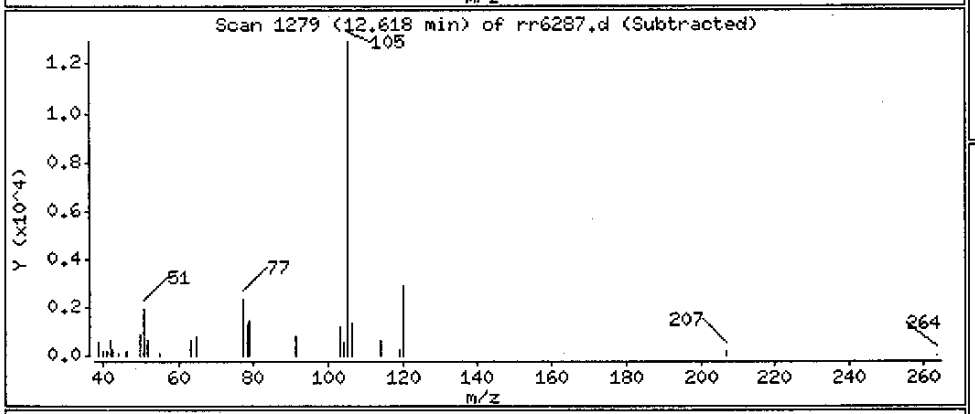
Column diameter: 0.32

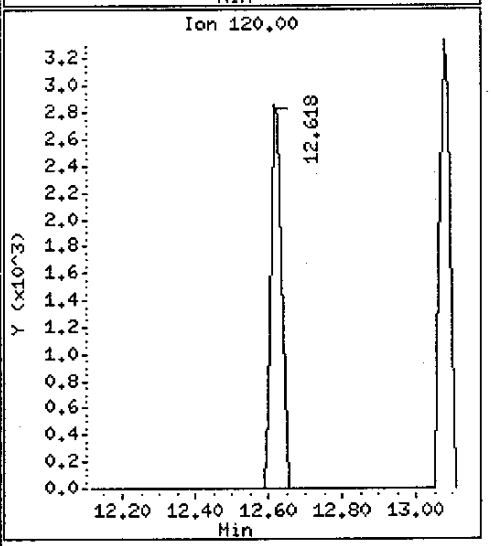
90 isopropyl benzene

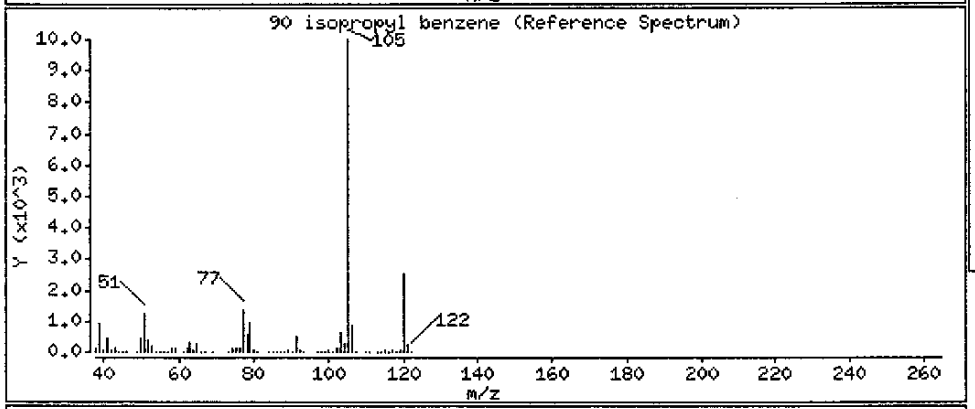
Concentration: 0.191245 ug/L

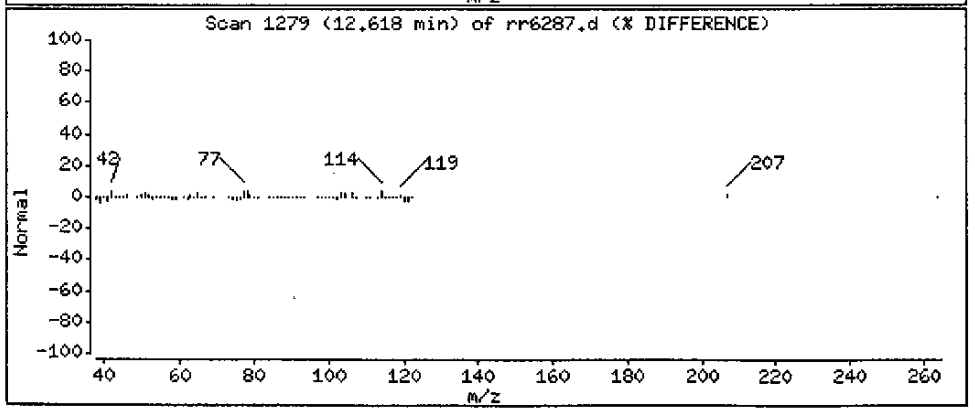












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

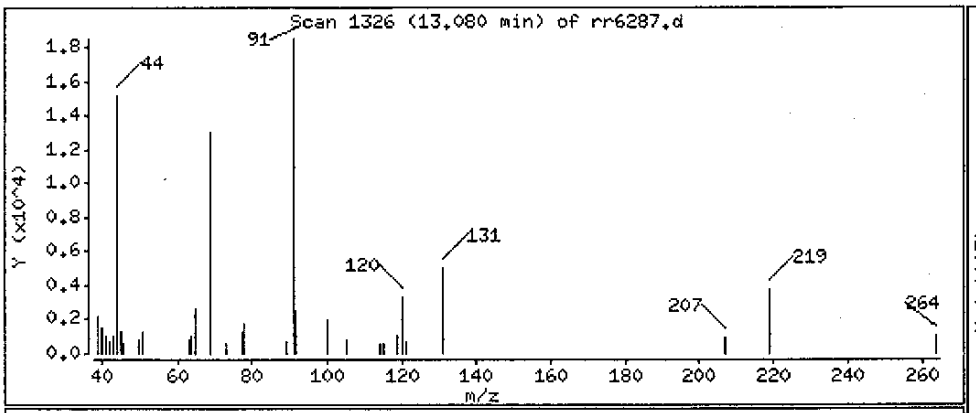
Operator: meierg

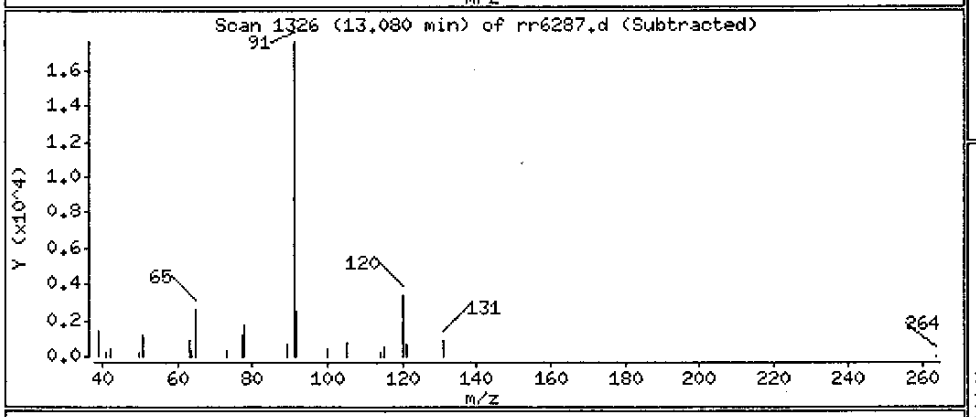
Column phase: HP624

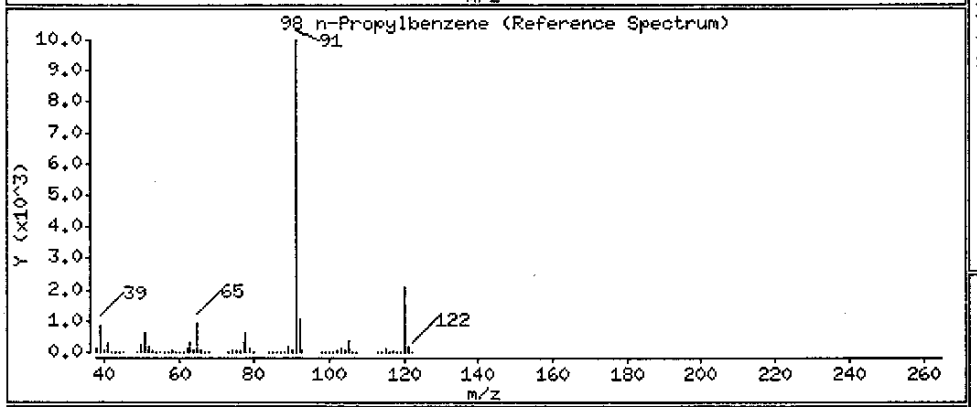
Column diameter: 0.32

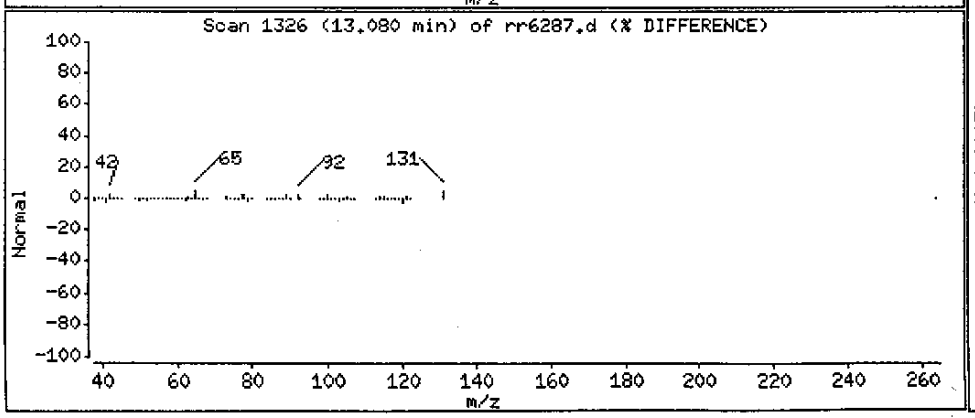
98 n-Propylbenzene

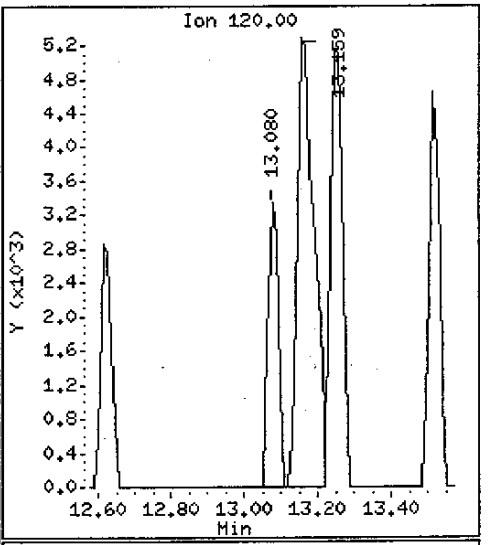
Concentration: 0.200648 ug/L

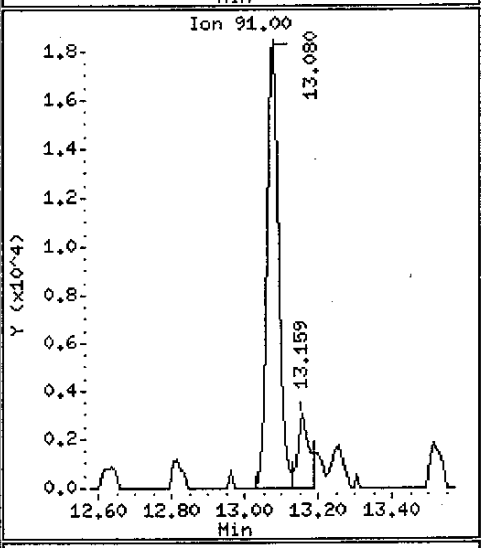


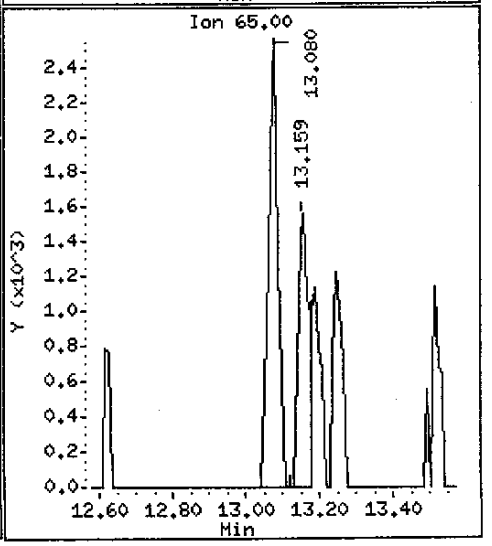












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

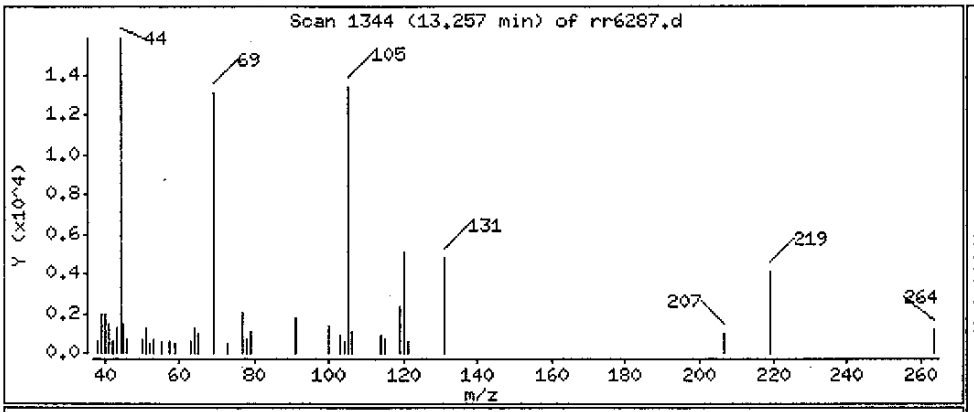
Operator: meierg

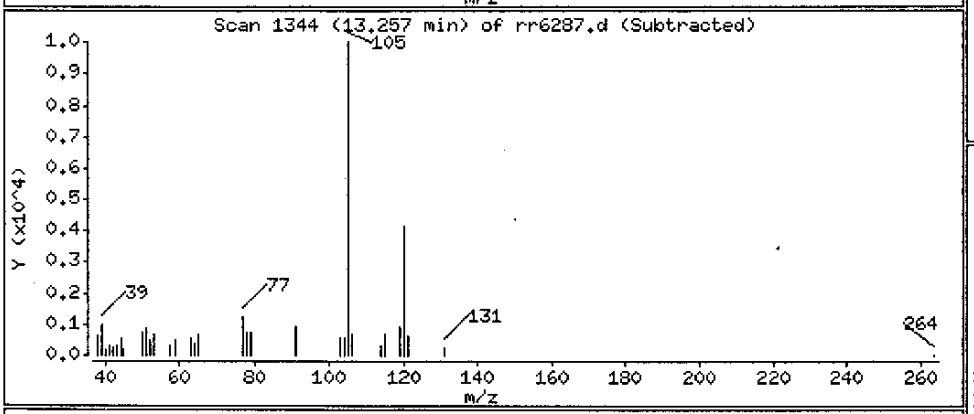
Column phase: HP624

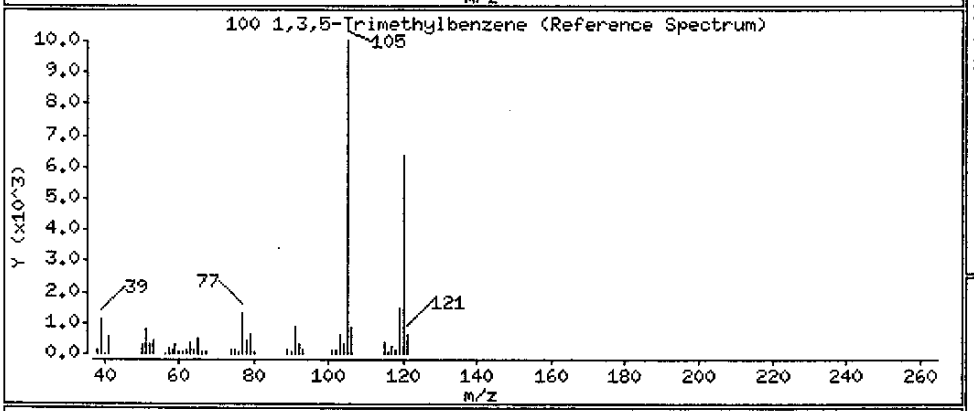
Column diameter: 0.32

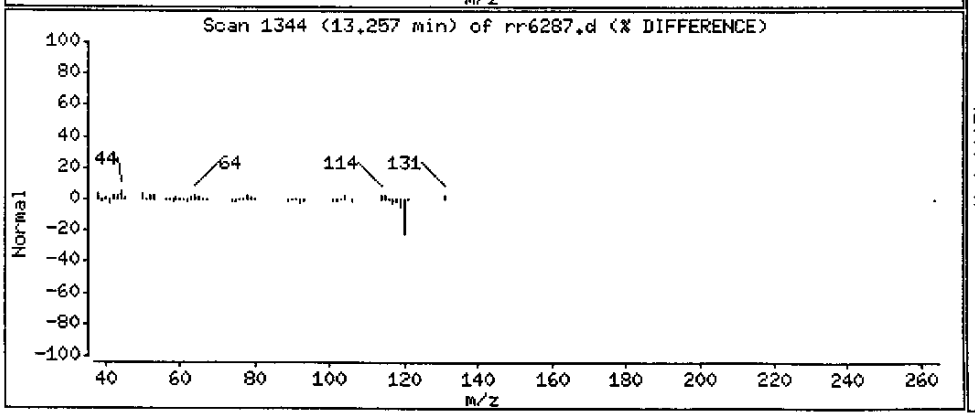
100 1,3,5-Trimethylbenzene

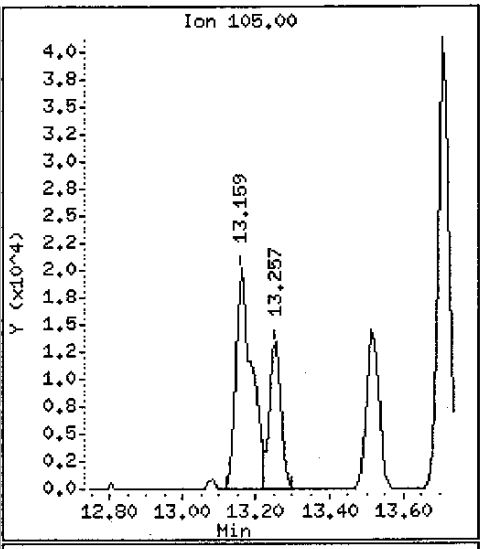
Concentration: 0.267858 ug/L

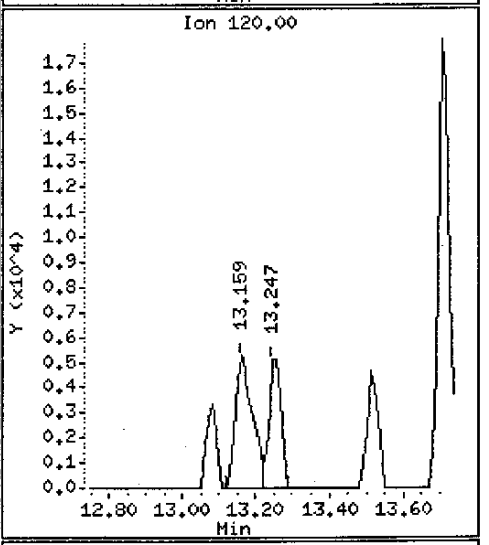


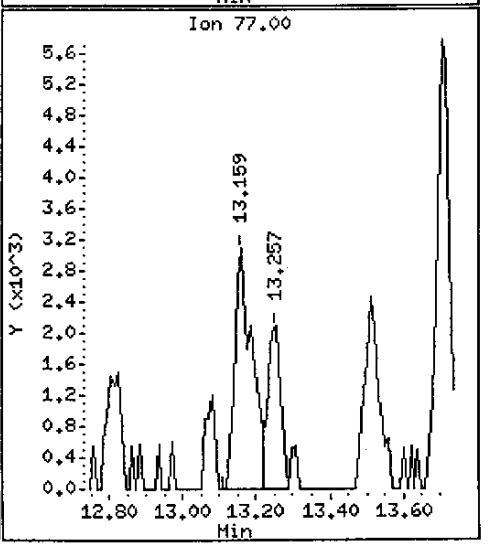












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

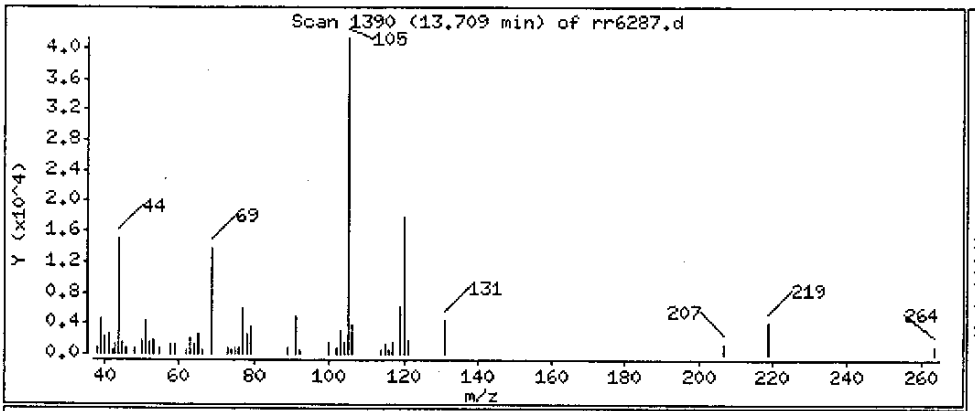
Operator: meierg

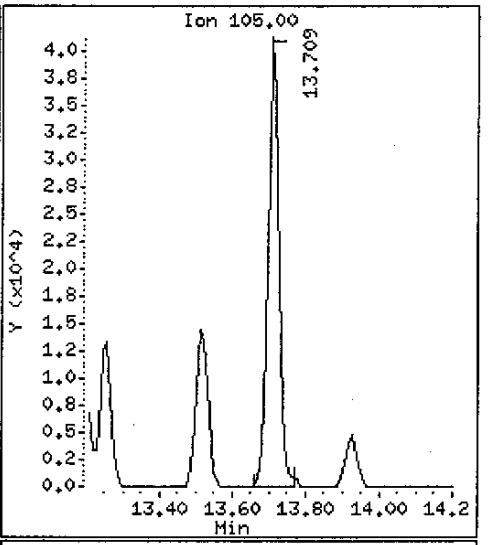
Column phase: HP624

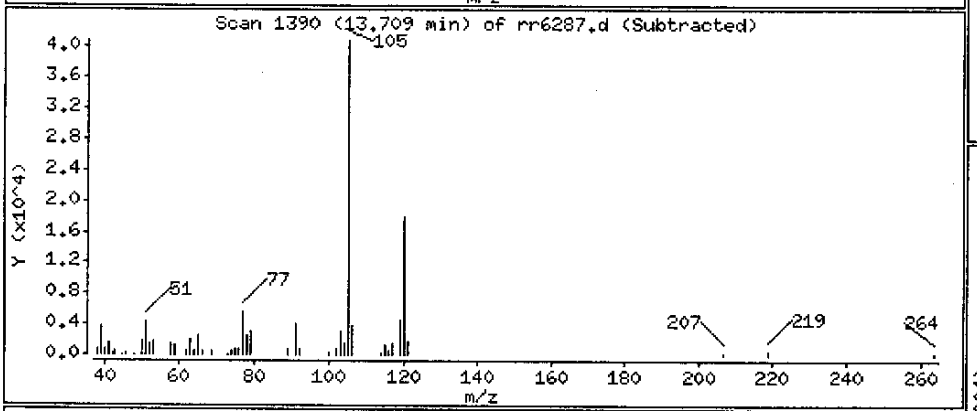
Column diameter: 0.32

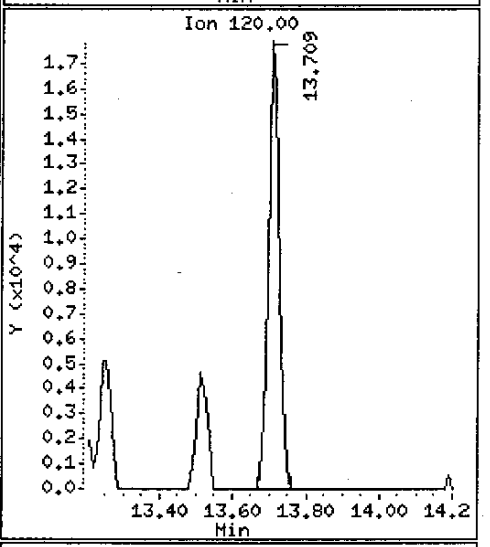
103 1,2,4-Trimethylbenzene

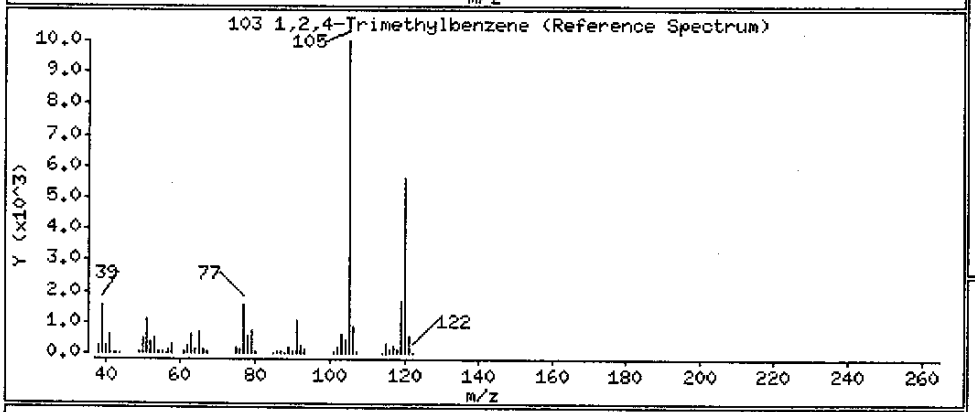
Concentration: 0.794236 ug/L

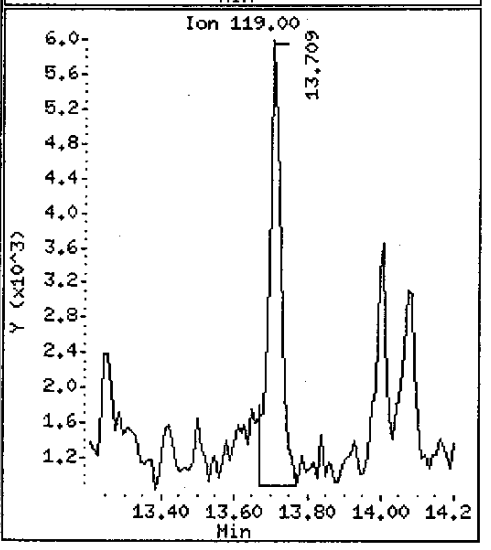


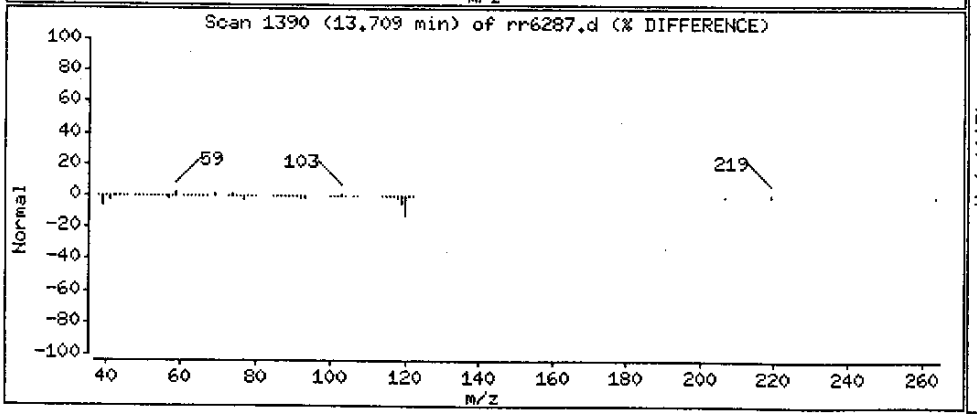












Data File: /chem/R2.i/052704.b/rr6287.d

Date : 27-MAY-2004 18:35

Client ID: 01-MW-12

Instrument: R2.i

Sample Info: GGTE31AA,,D4E210325-02

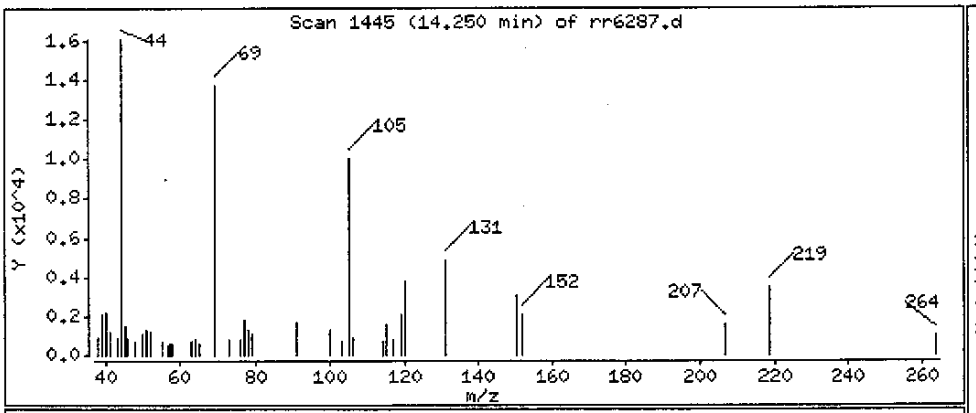
Operator: meierg

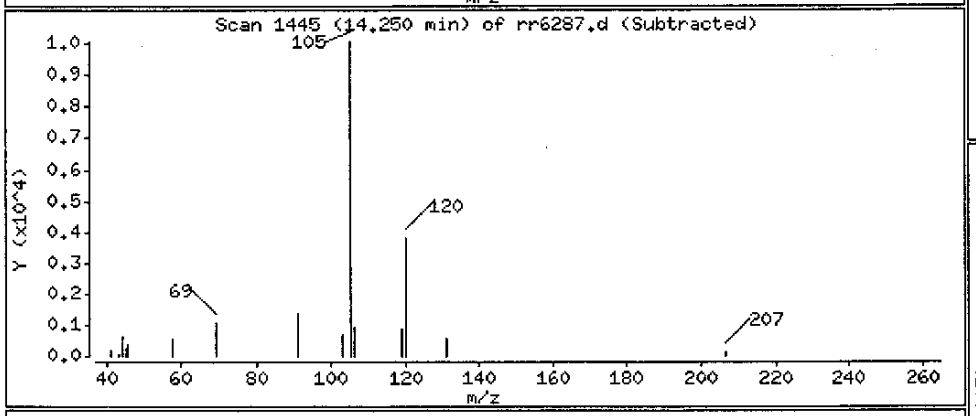
Column phase: HP624

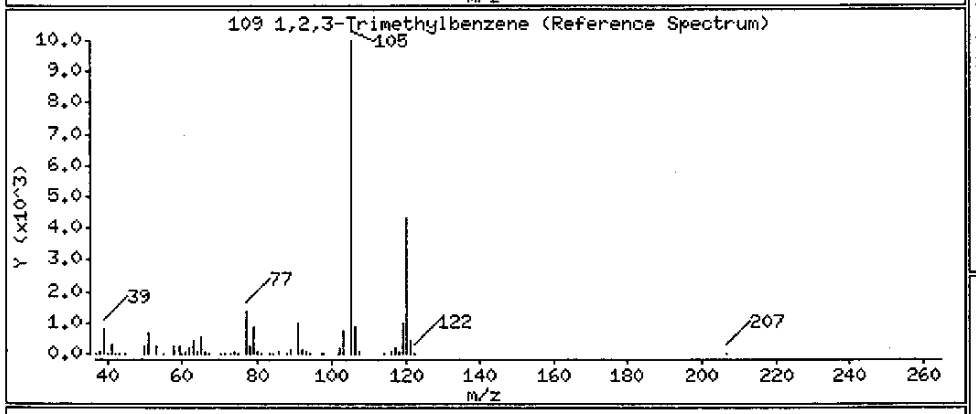
Column diameter: 0.32

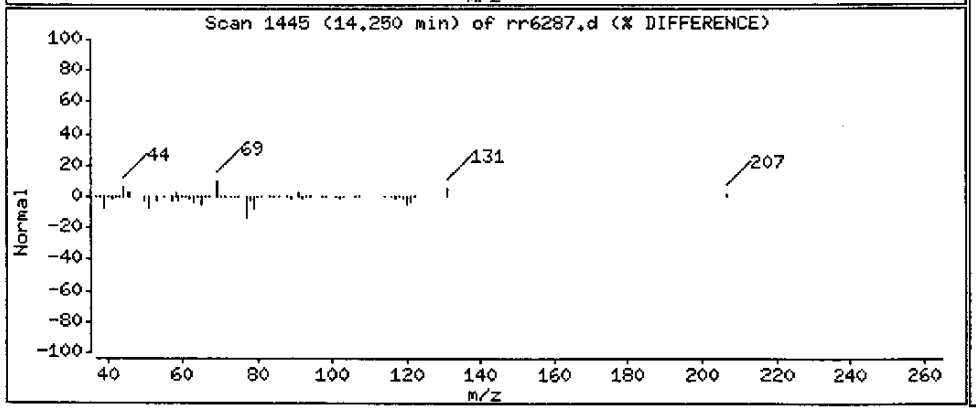
109 1,2,3-Trimethylbenzene

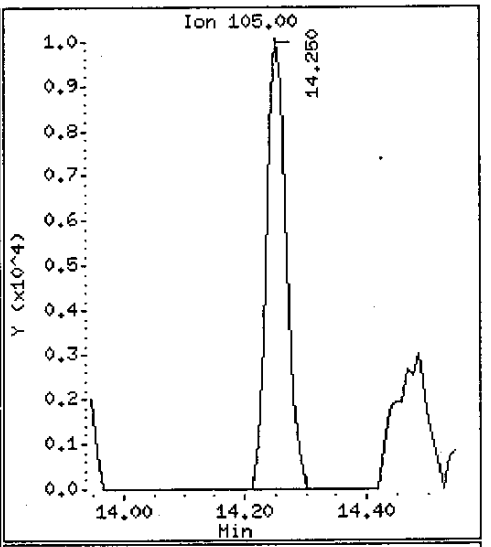
Concentration: 0.213081 ug/L

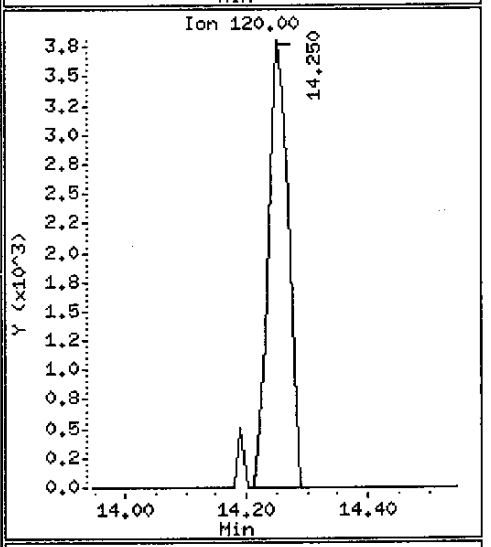


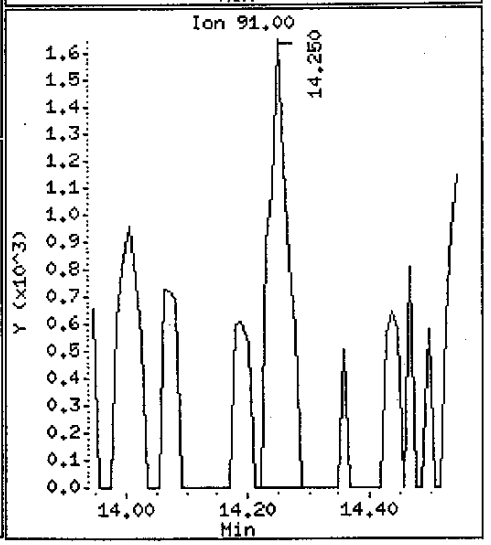












STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6288.d
Lab Smp Id: GGTE61AA Client Smp ID: 01-MW-04
Inj Date : 27-MAY-2004 19:00
Operator : meierg Inst ID: R2.i
Smp Info : GGTE61AA,,D4E210325-03
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.653	8.642	(1.000)	1175858	10.0000	
*	82 Chlorobenzene-d5	119	11.584	11.584	(1.000)	316177	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.191	14.190	(1.000)	499754	10.0000	
$	46 Dibromofluoromethane	111	8.082	8.072	(0.934)	412874	10.5846	10.5846
$	52 1,2-Dichloroethane-d4	65	8.367	8.367	(0.967)	318261	10.2788	10.2788
$	70 Toluene-d8	98	10.089	10.088	(0.871)	1157110	10.0815	10.0815
$	93 Bromofluorobenzene	95	12.813	12.813	(1.106)	554434	10.0615	10.0615
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59	6.223	6.213	(0.719)	11341	0.38201	0.382008(a)
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.852	6.848	(0.792)	15017	0.41927	0.419266(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78.00	Compound Not Detected.					
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
61 1,2-Dichloropropane	63.00	Compound Not Detected.					
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.243	9.239	(1.068)	96081	887.514	887.514
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91	10.158	10.153	(0.877)	13843	0.10598	0.105976(a)
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6288.d
Lab Smp Id: GGTE61AA
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-04
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1175858	5.27
82 Chlorobenzene-d5	318643	159322	637286	316177	-0.77
107 1,4-Dichlorobenze	494708	247354	989416	499754	1.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.65	0.12
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.00
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.00

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTE61AA
Client Smp ID: 01-MW-04
Level: LOW
Operator: meierg
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs.spk
Quant Type: ISTD
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.5846	105.85	76-116
$ 52 1,2-Dichloroethane	10.0000	10.2788	102.79	59-129
$ 70 Toluene-d8	10.0000	10.0815	100.82	76-116
$ 93 Bromofluorobenzene	10.0000	10.0615	100.62	74-114

Data File: /chem/R2.i/052704.b/rr6288.d

Page 7

Date : 27-MAY-2004 19:00

Client ID: 01-MW-04

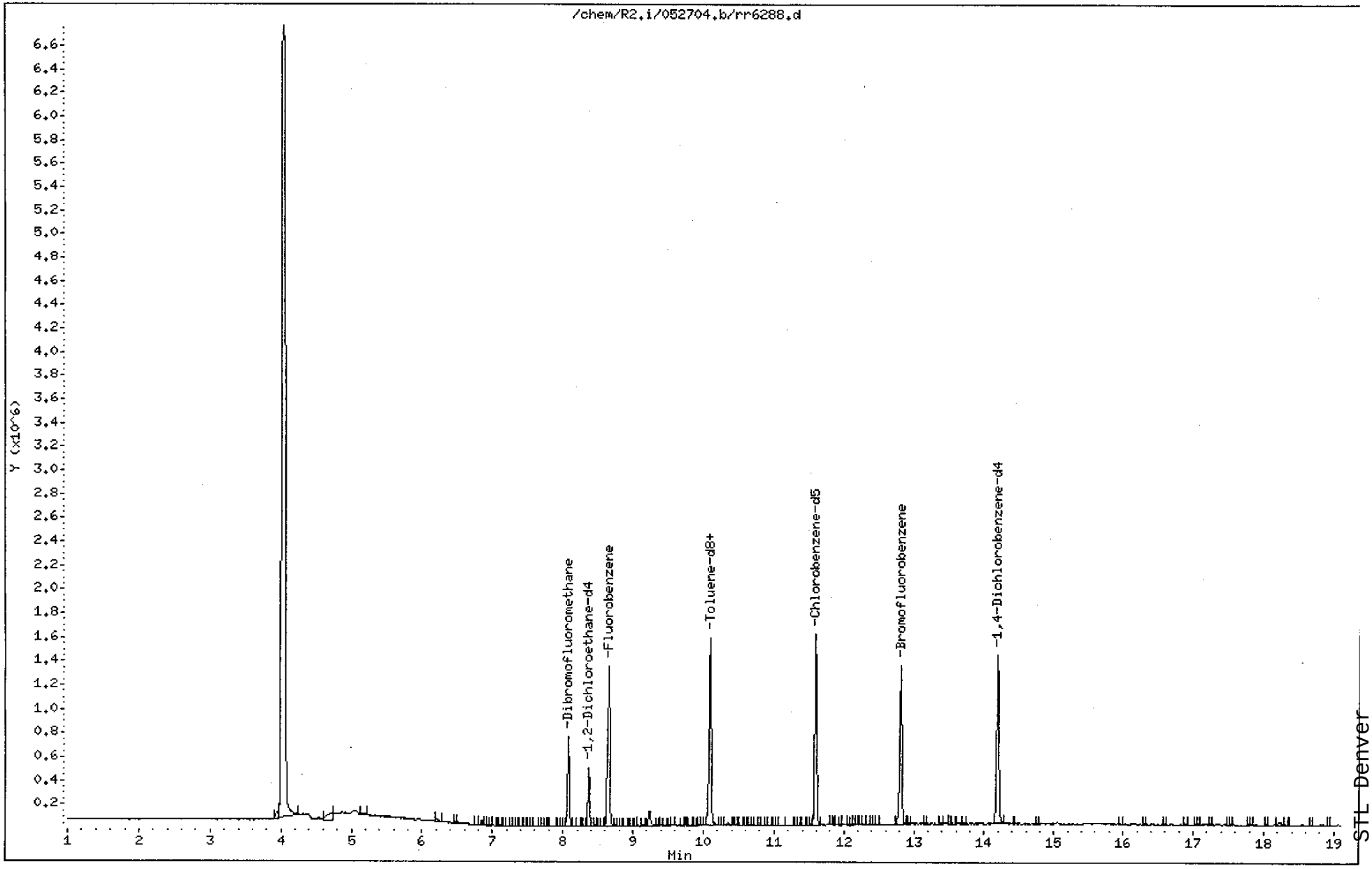
Instrument: R2.i

Sample Info: GGTE61AA,,D4E210325-03

Operator: meierg

Column phase: HP624

Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6288.d

Date : 27-MAY-2004 19:00

Client ID: 01-MW-04

Instrument: R2.i

Sample Info: GGTE61AA,,D4E210325-03

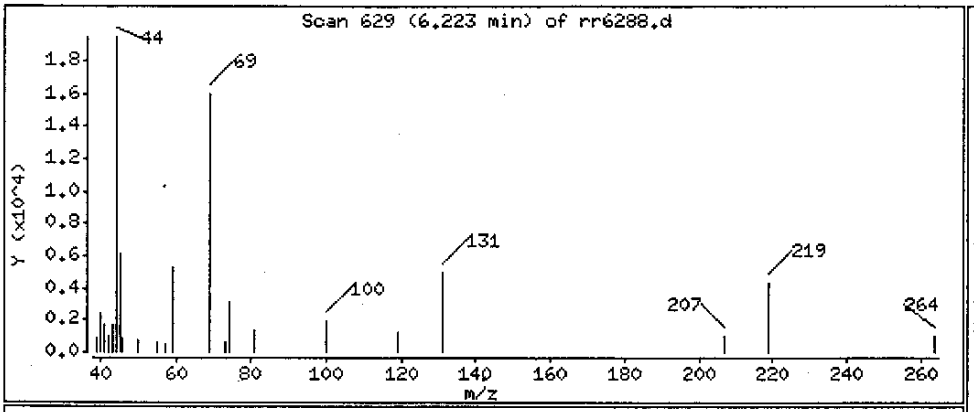
Operator: meierg

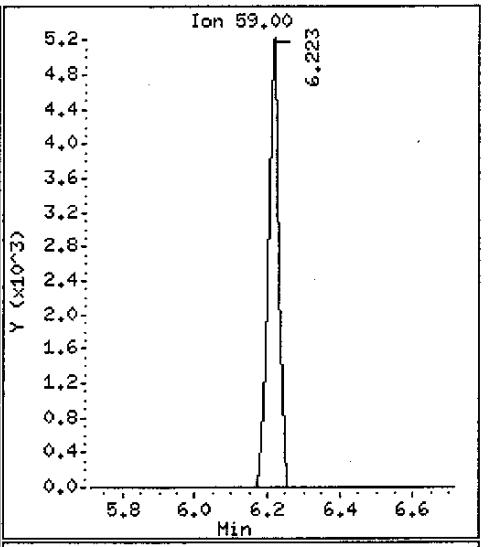
Column phase: HP624

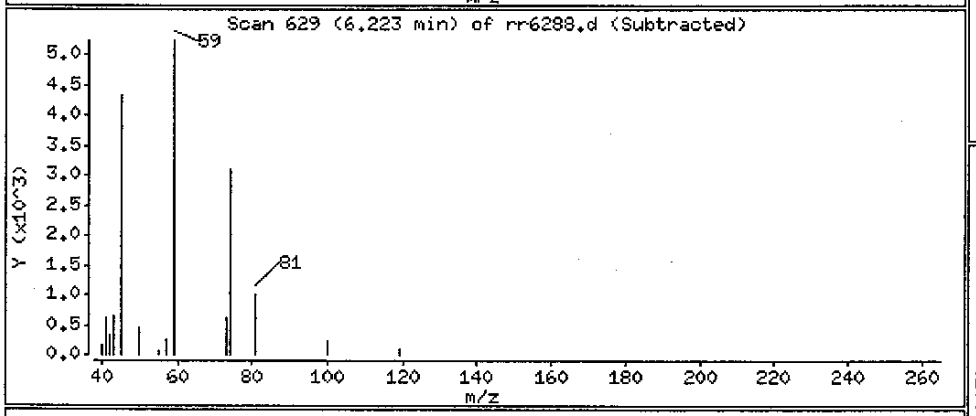
Column diameter: 0.32

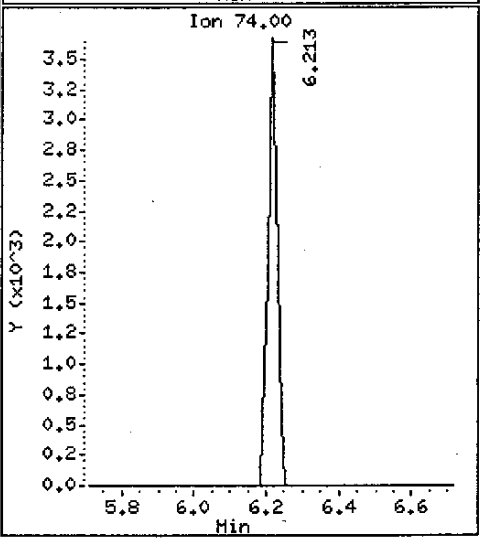
14 Ethyl Ether

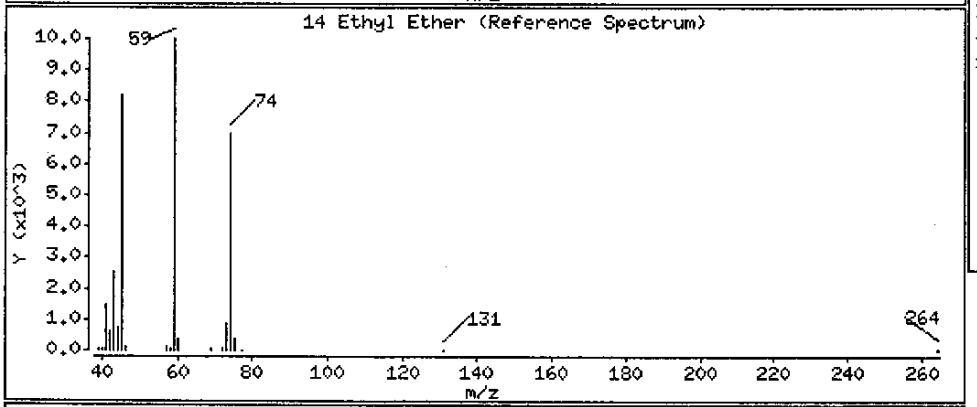
Concentration: 0.382008 ug/L

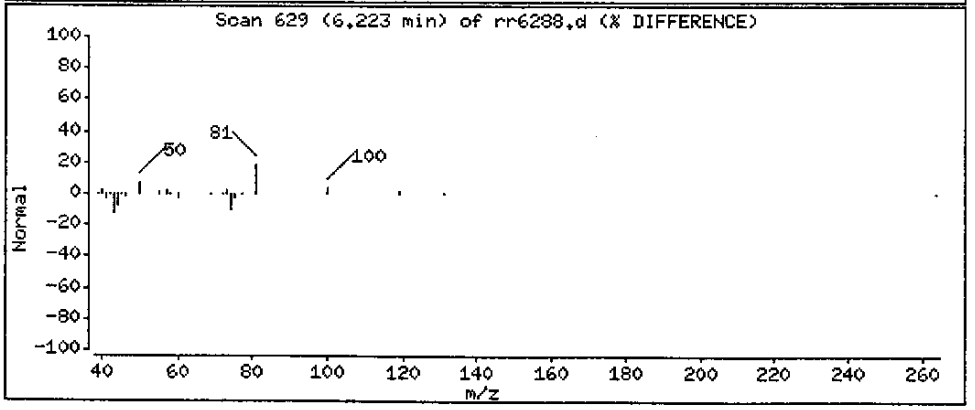












Data File: /chem/R2.i/052704.b/rr6288.d

Date : 27-MAY-2004 19:00

Client ID: 01-MW-04

Instrument: R2.i

Sample Info: GGTE61AA,,D4E210325-03

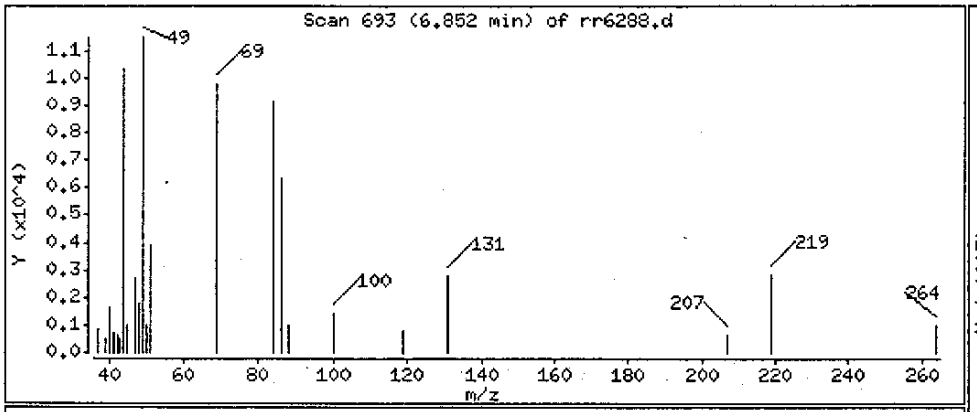
Operator: meierg

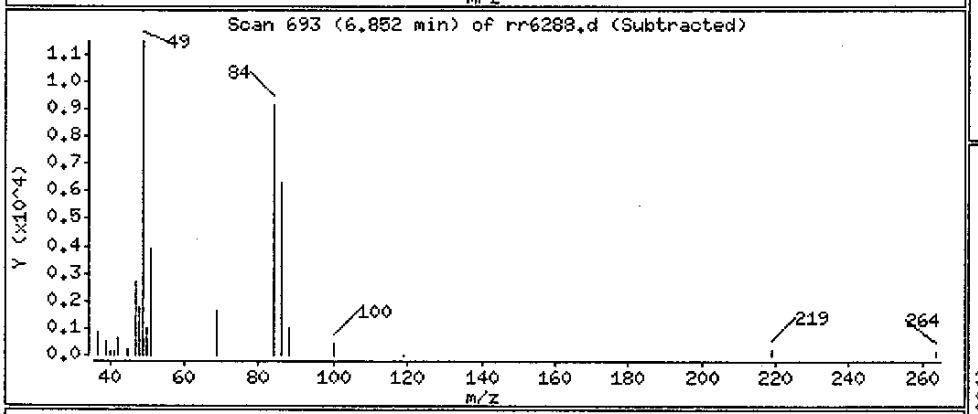
Column phase: HP624

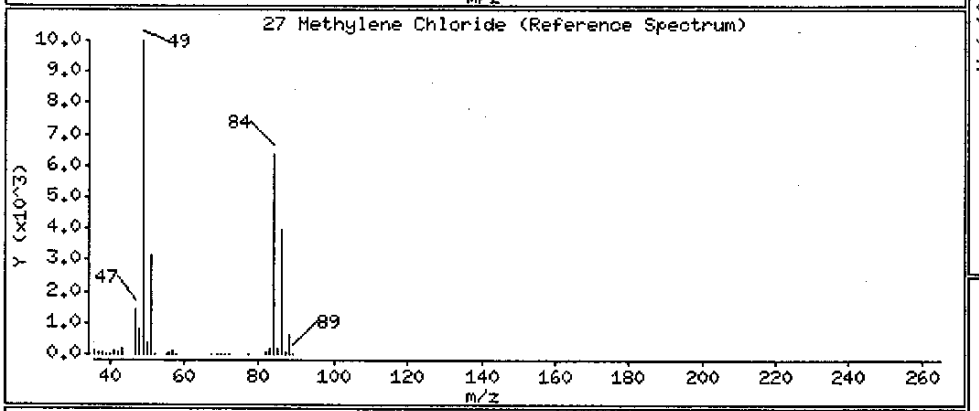
Column diameter: 0.32

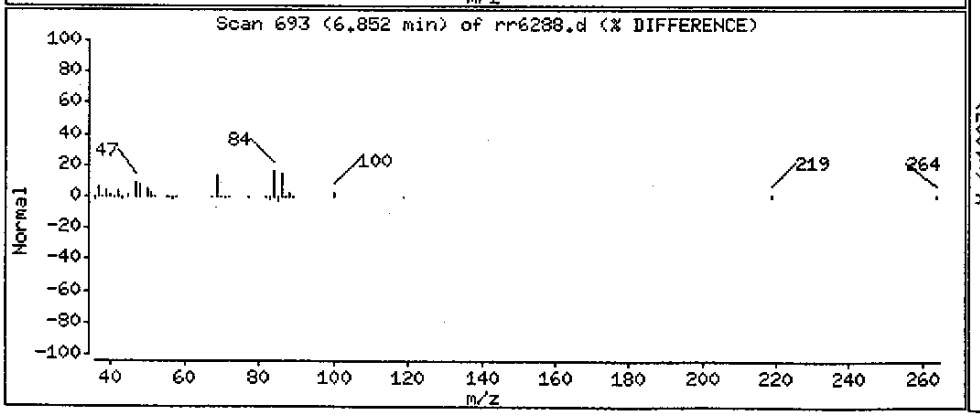
27 Methylene Chloride

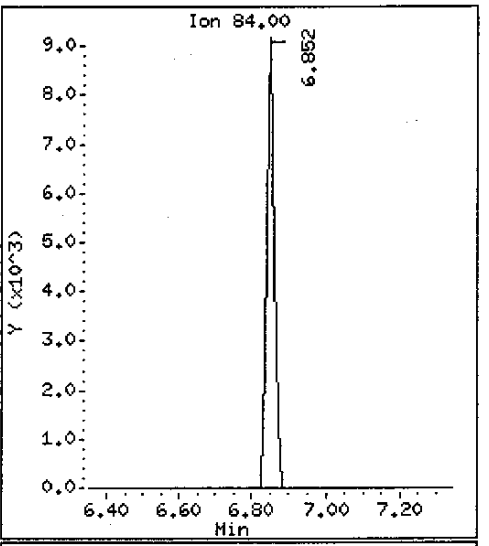
Concentration: 0.419266 ug/L

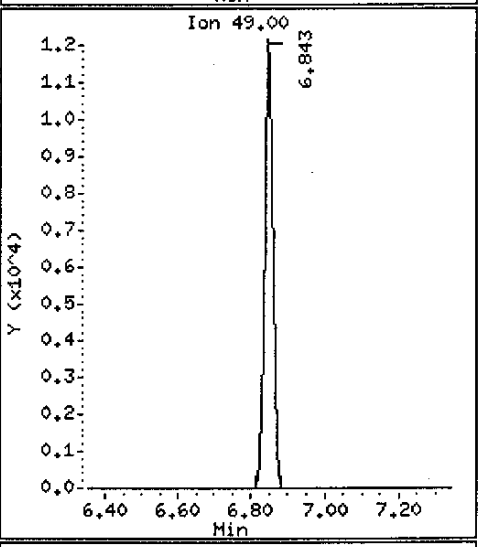


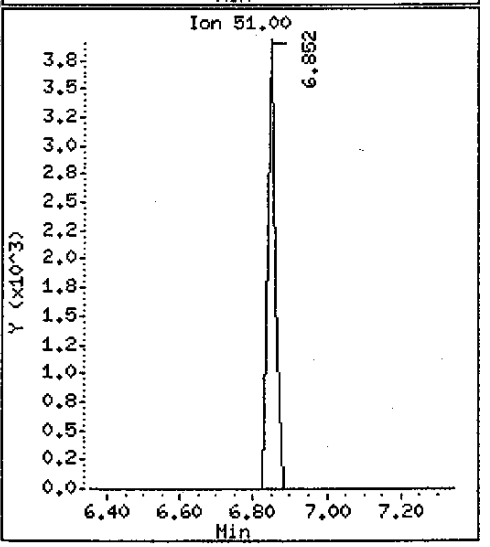












Data File: /chem/R2.i/052704.b/rr6288.d

Date : 27-MAY-2004 19:00

Client ID: 01-MW-04

Instrument: R2.i

Sample Info: GGTE61AA,,D4E210325-03

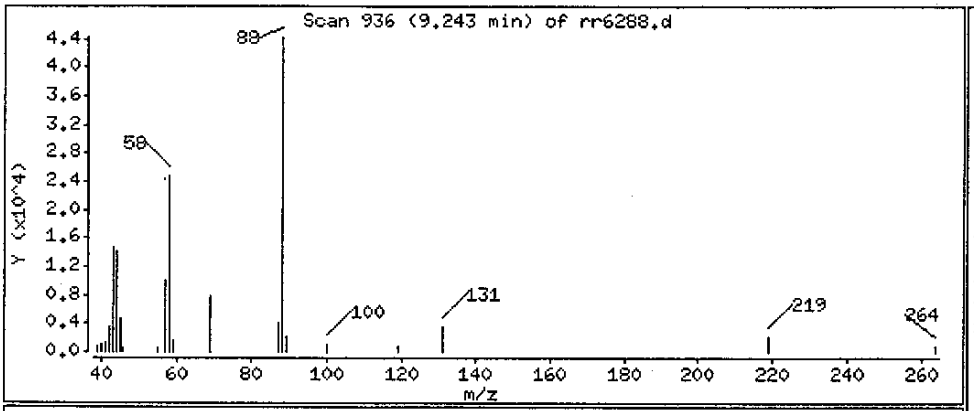
Operator: meierg

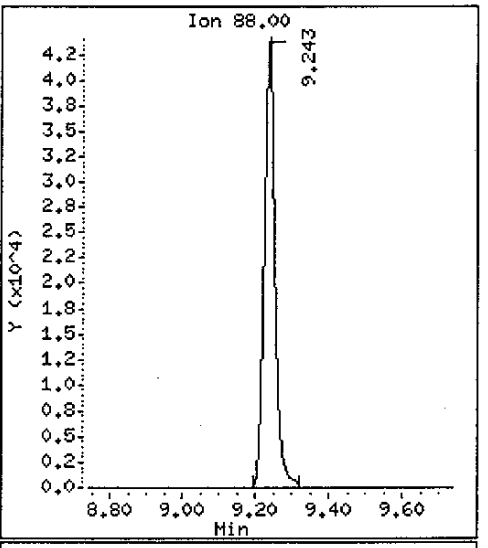
Column phase: HP624

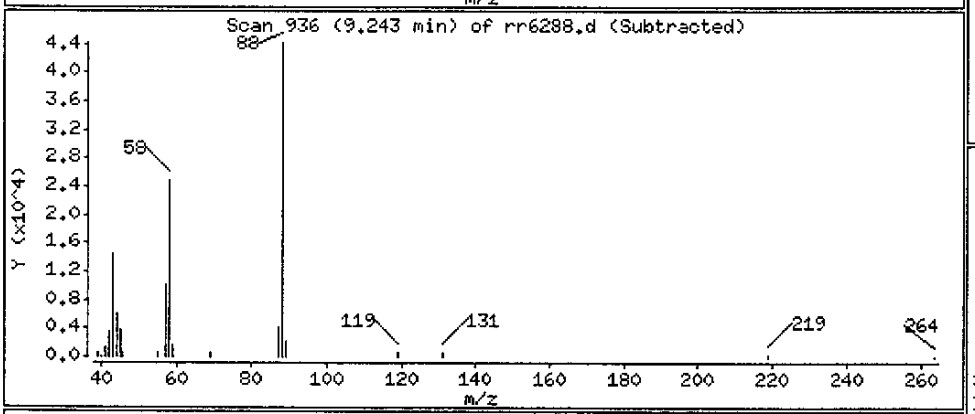
Column diameter: 0.32

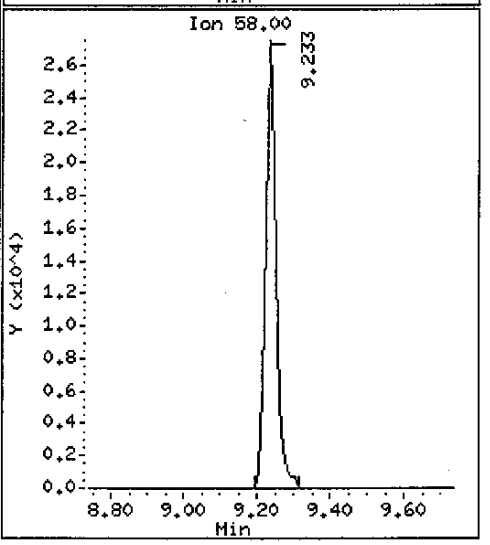
63 1,4-Dioxane

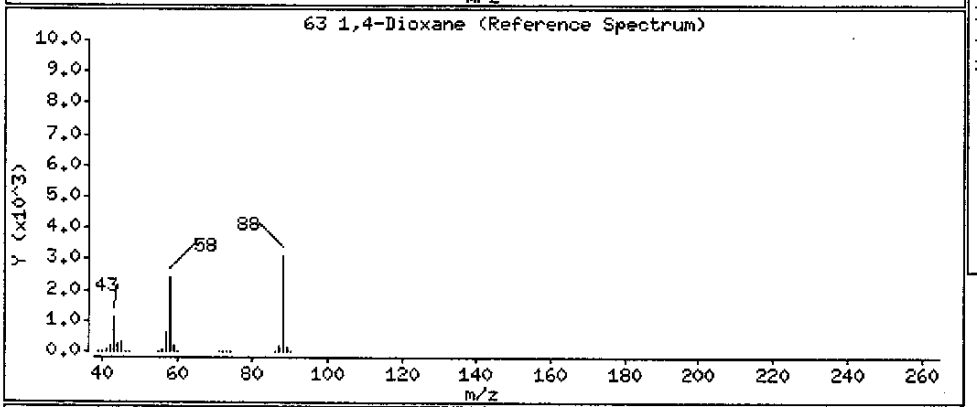
Concentration: 887.514 ug/L

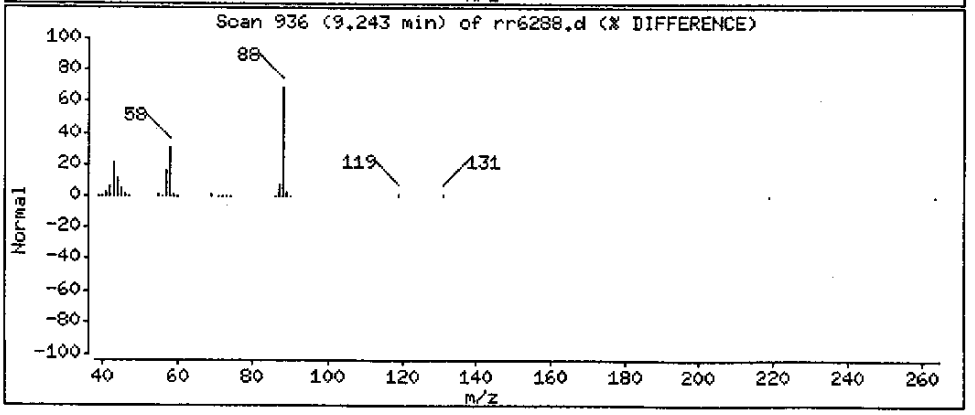












Data File: /chem/R2.i/052704.b/rr6288.d

Date : 27-MAY-2004 19:00

Client ID: 01-MW-04

Instrument: R2.i

Sample Info: GCTE61AA,,D4E210325-03

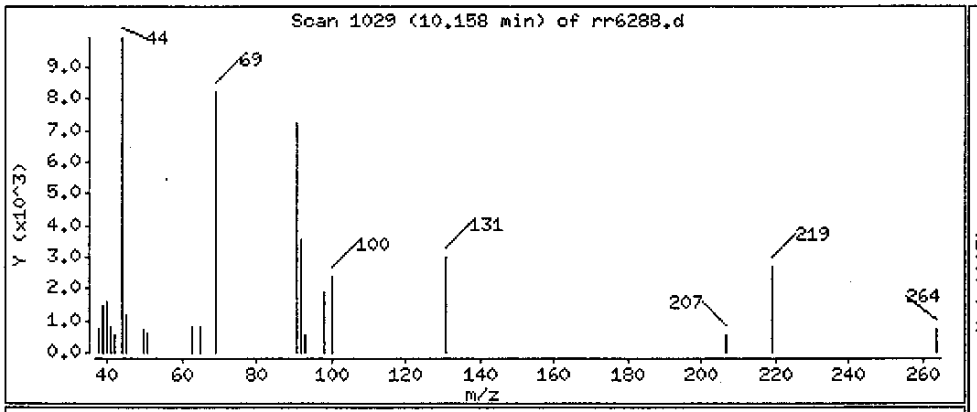
Operator: meierg

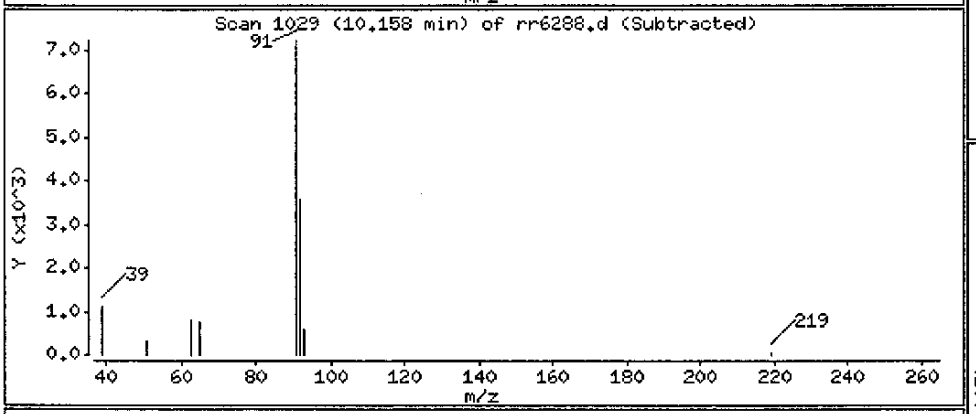
Column phase: HP624

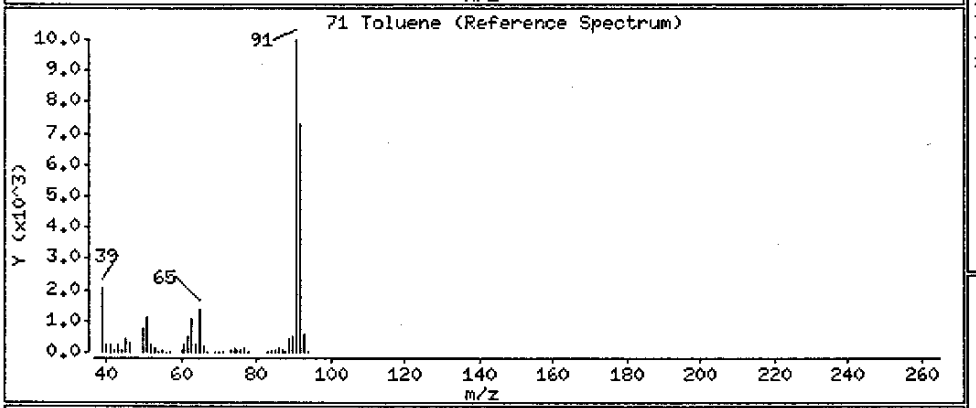
Column diameter: 0.32

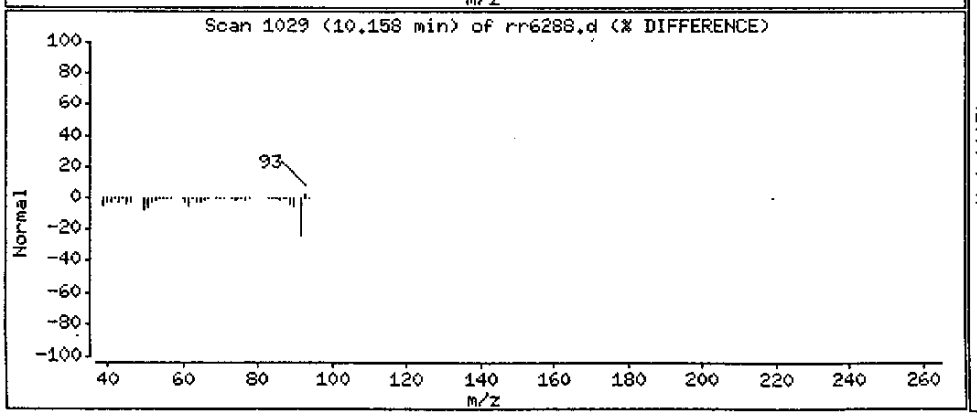
71 Toluene

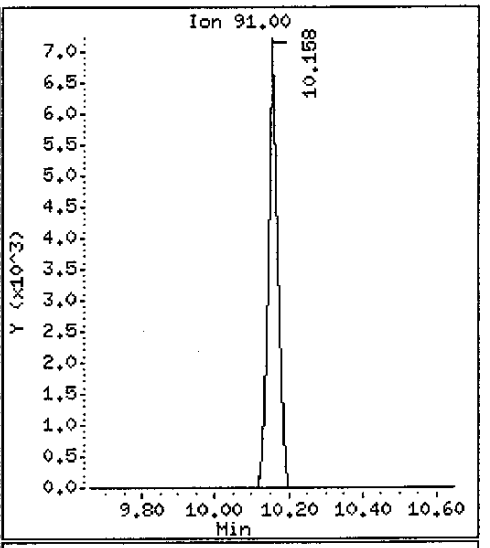
Concentration: 0.105976 ug/L

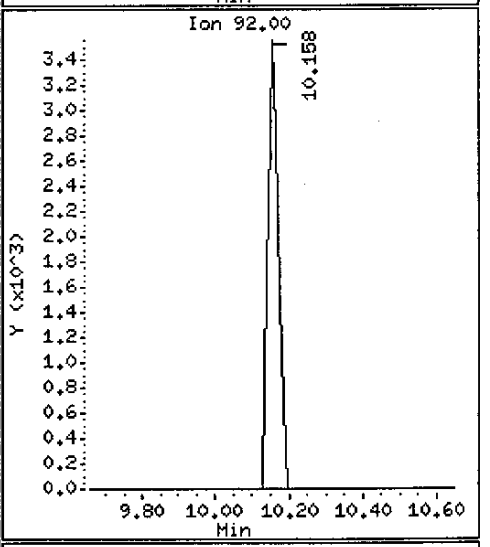


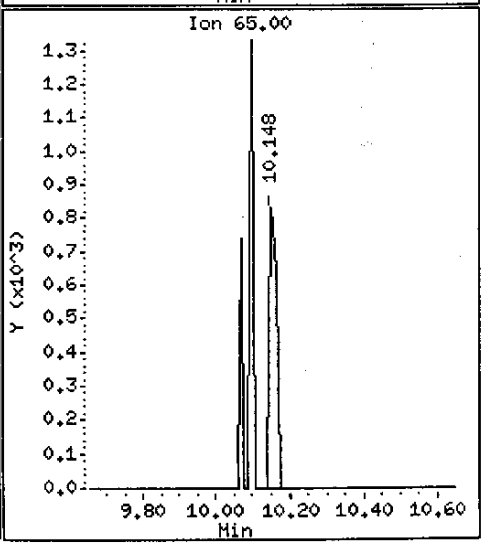












STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6306.d
Lab Smp Id: GGTE71AA Client Smp ID: 01-MW-07
Inj Date : 28-MAY-2004 02:31
Operator : meierg Inst ID: R2.i
Smp Info : GGTE71AA,,D4E210325-04
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.644	8.642	(1.000)	1135461	10.0000	
*	82 Chlorobenzene-d5	119	11.575	11.584	(1.000)	300098	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.182	14.190	(1.000)	447982	10.0000	
$	46 Dibromofluoromethane	111	8.073	8.072	(0.934)	377053	10.0101	10.0101
$	52 1,2-Dichloroethane-d4	65	8.358	8.367	(0.967)	293671	9.82209	9.82209
$	70 Toluene-d8	98	10.080	10.088	(0.871)	1099444	10.0924	10.0924
$	93 Bromofluorobenzene	95	12.805	12.813	(1.106)	513610	9.82007	9.82007
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67	5.791	5.810	(0.670)	30941	0.19270	0.192695(a)
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59.00	Compound Not Detected.					
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.844	6.848	(0.792)	18083	0.52283	0.522830(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78.00	Compound Not Detected.					
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
61 1,2-Dichloropropane	63.00	Compound Not Detected.					
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.224	9.239	(1.067)	280235	2680.67	2680.66
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91.00	Compound Not Detected.					
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6306.d
Lab Smp Id: GGTE71AA
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-07
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1135461	1.65
82 Chlorobenzene-d5	318643	159322	637286	300098	-5.82
107 1,4-Dichlorobenze	494708	247354	989416	447982	-9.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.01
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	-0.07
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.18	-0.06

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Sample Matrix: LIQUID
Lab Smp Id: GGTE71AA
Level: LOW
Data Type: MS DATA
SpikeList File: dcs.spk
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Client SDG: D4E210325
Fraction: VOA
Client Smp ID: 01-MW-07
Operator: meierg
SampleType: SAMPLE
Quant Type: ISTD

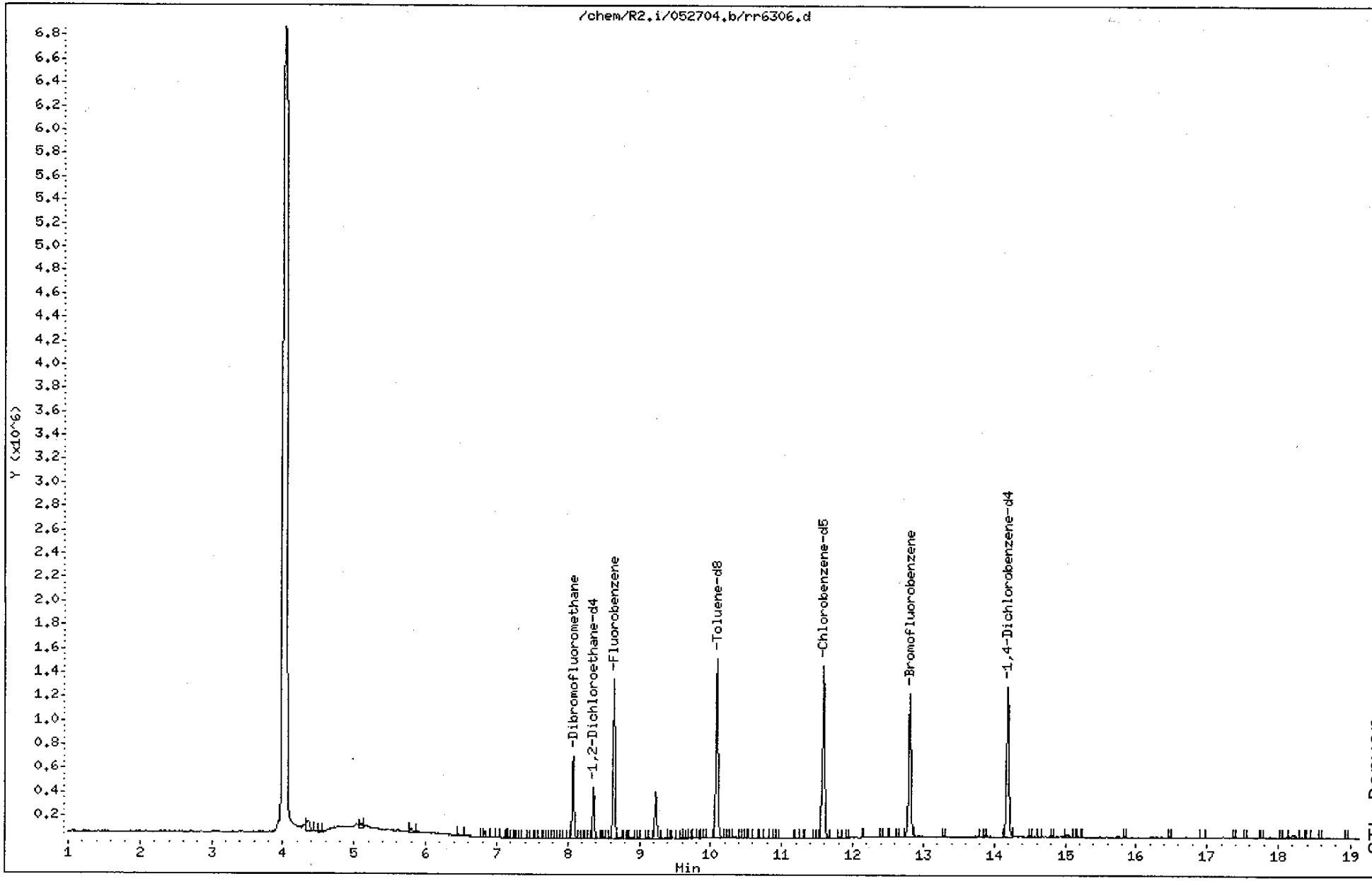
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.0101	100.10	76-116
$ 52 1,2-Dichloroethane	10.0000	9.82209	98.22	59-129
$ 70 Toluene-d8	10.0000	10.0924	100.92	76-116
$ 93 Bromofluorobenzene	10.0000	9.82007	98.20	74-114

Data File: /chem/R2.i/052704.b/rr6306.d
Date : 28-MAY-2004 02:31
Client ID: 01-MW-07
Sample Info: GGTE71AA,,D4E210325-04

Column phase: HP624

Instrument: R2.i

Operator: meierg
Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6306.d

Date : 28-MAY-2004 02:31

Client ID: 01-MW-07

Instrument: R2.i

Sample Info: GGTE71AA,,D4E210325-04

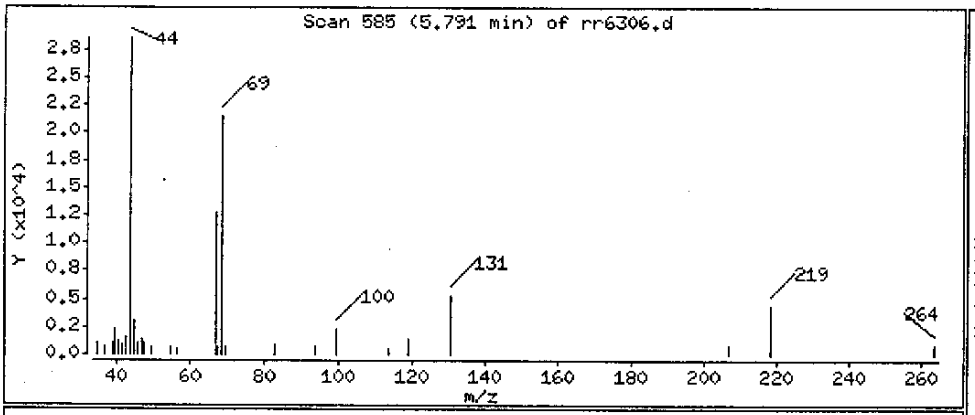
Operator: meierg

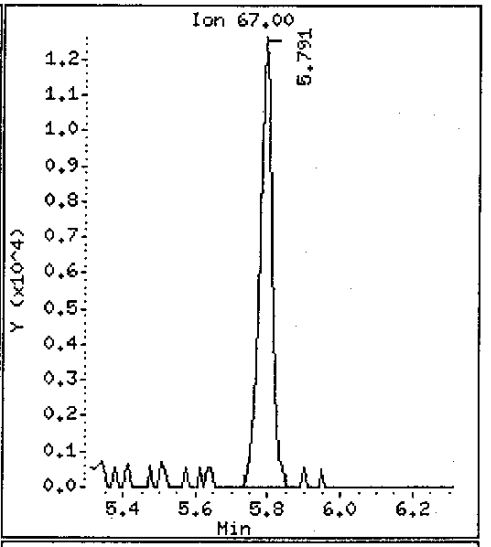
Column phase: HP624

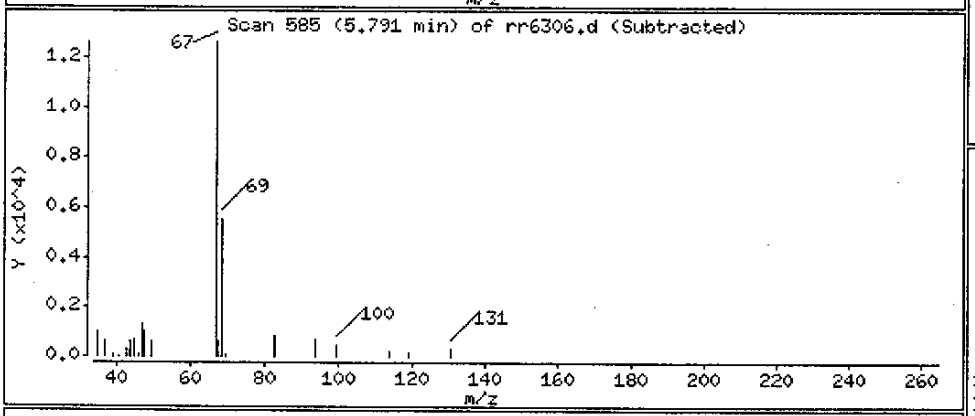
Column diameter: 0.32

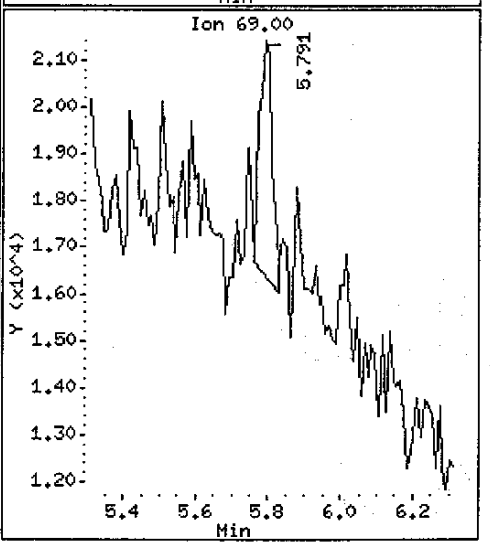
10 Dichlorofluoromethane

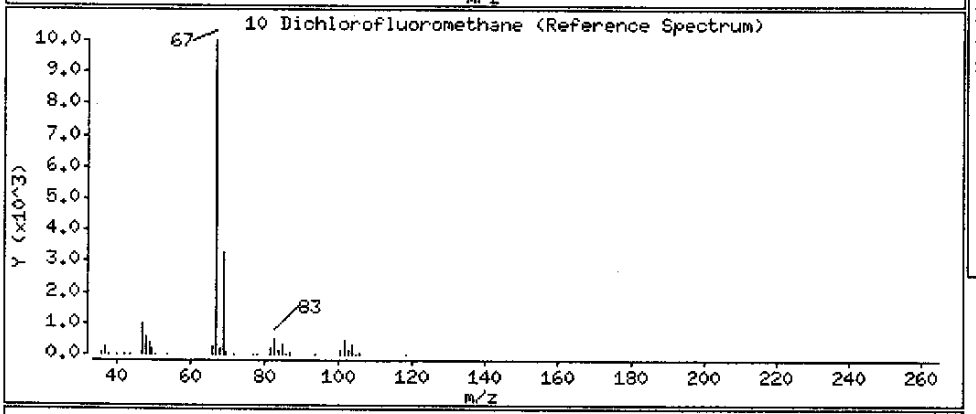
Concentration: 0.192695 ug/L

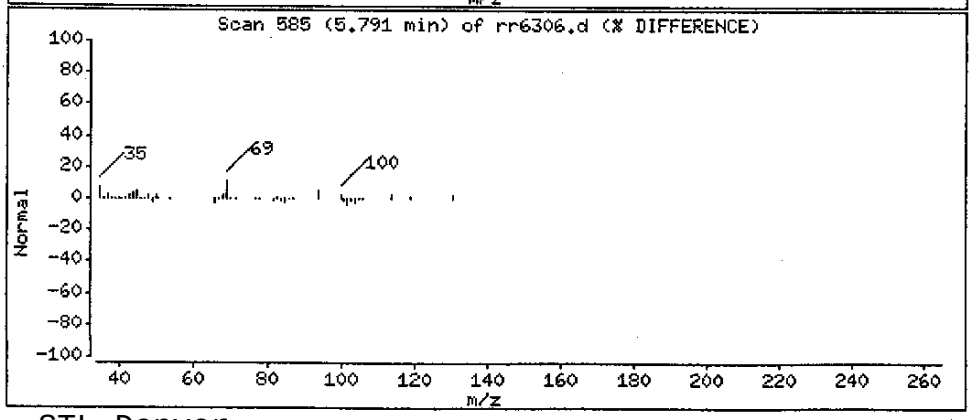












Data File: /chem/R2.i/052704.b/rr6306.d

Date : 28-MAY-2004 02:31

Client ID: 01-MW-07

Instrument: R2.i

Sample Info: GGTE71AA,,D4E210325-04

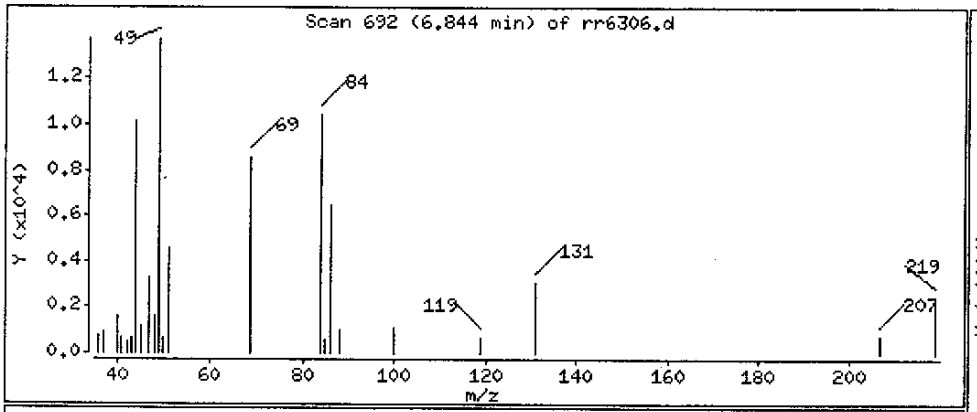
Operator: meierg

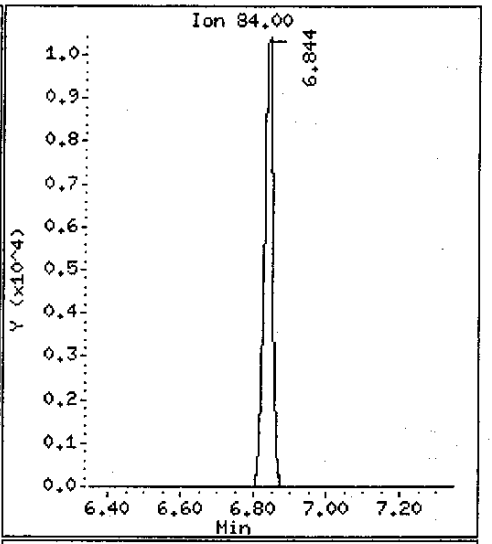
Column phase: HP624

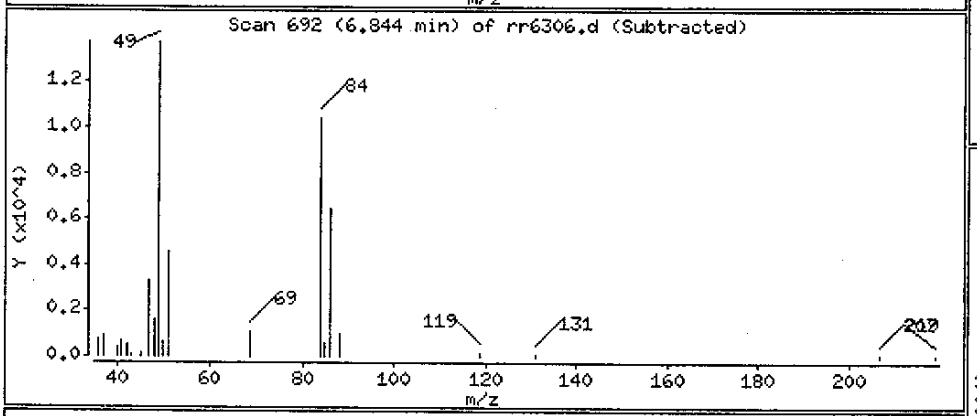
Column diameter: 0.32

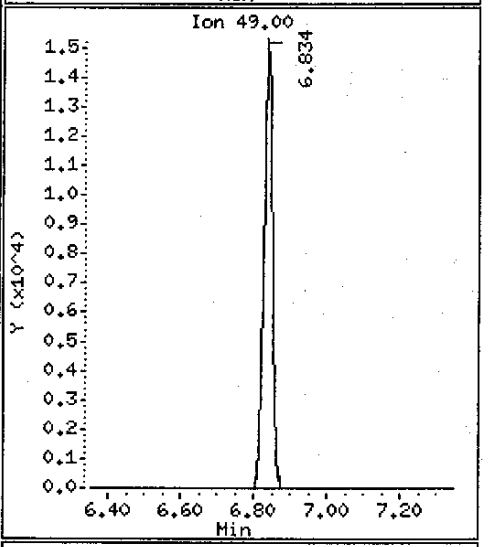
27 Methylene Chloride

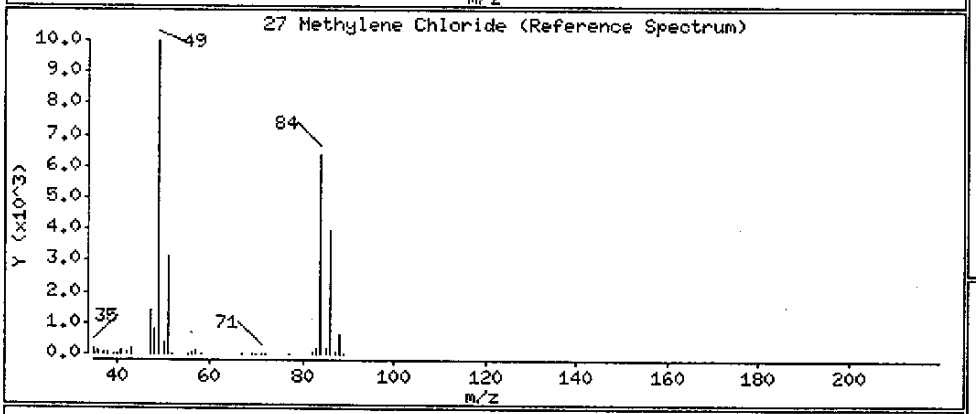
Concentration: 0.522830 ug/L

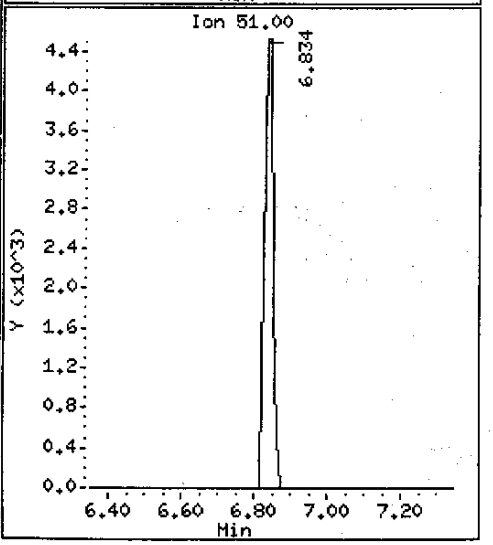


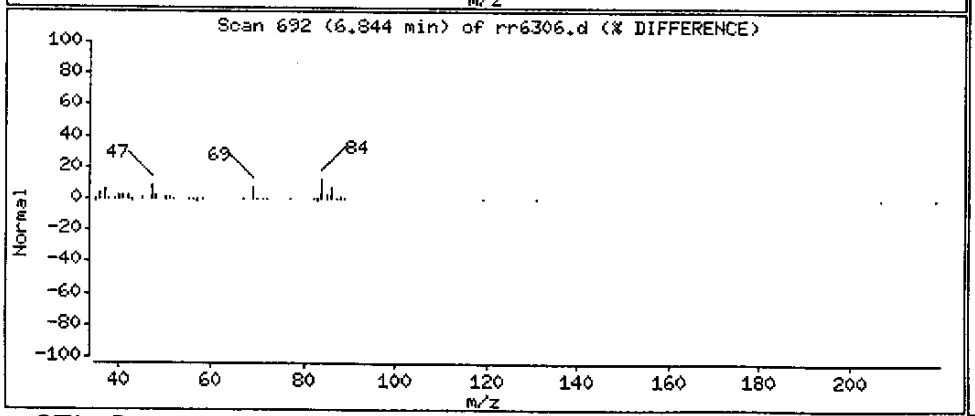












Data File: /chem/R2.i/052704.b/rr6306.d

Date : 28-MAY-2004 02:31

Client ID: 01-MW-07

Instrument: R2.i

Sample Info: GGTE71AA,,D4E210325-04

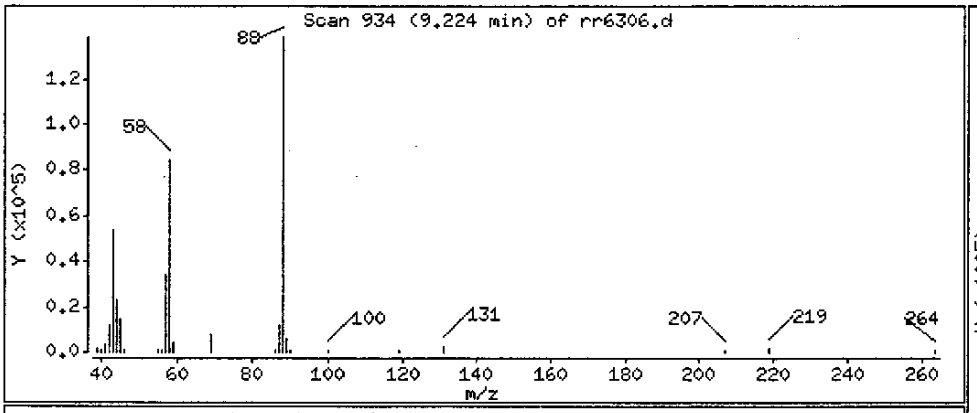
Operator: meierg

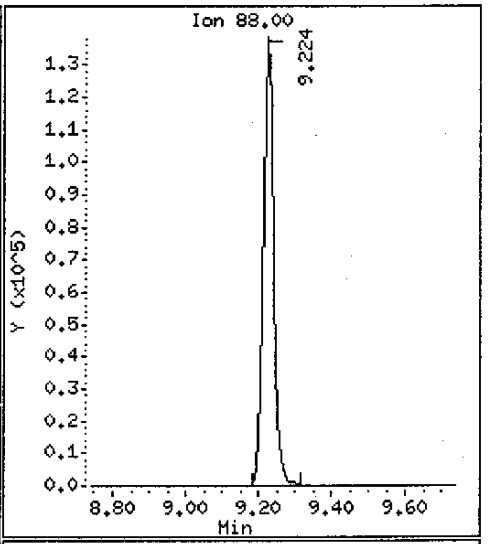
Column phase: HP624

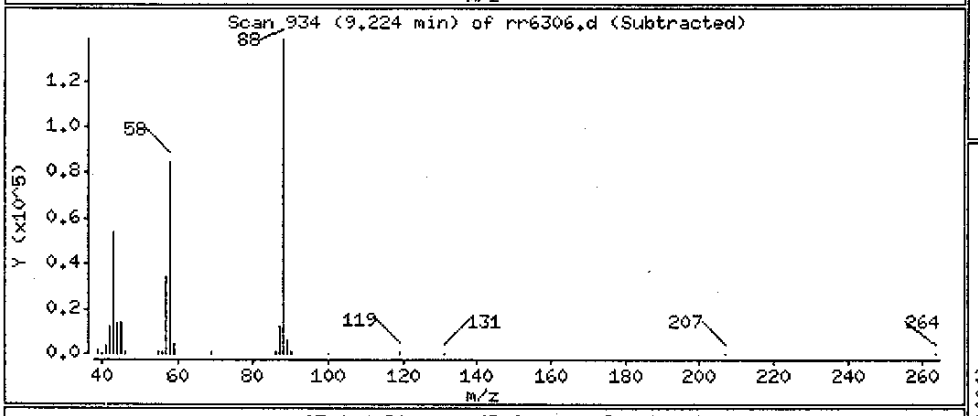
Column diameter: 0.32

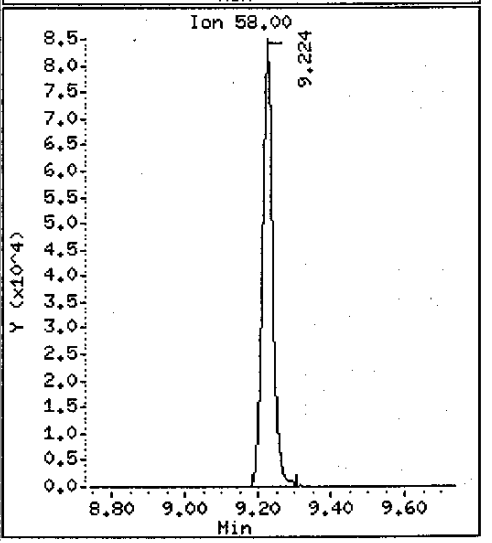
63 1,4-Dioxane

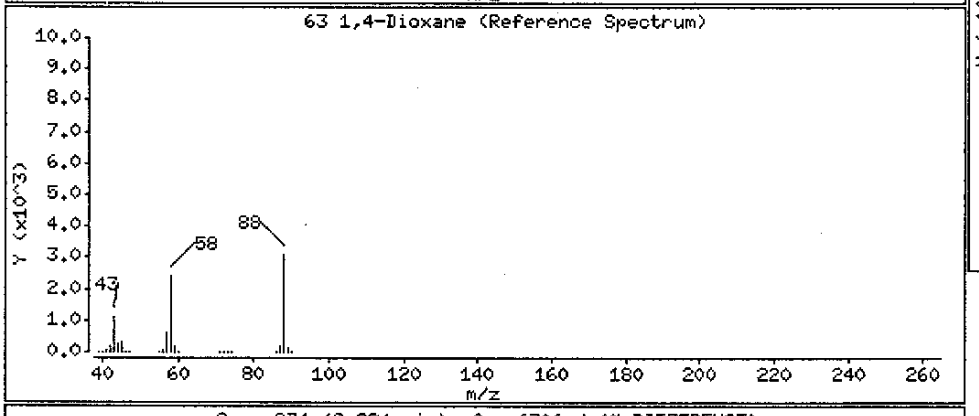
Concentration: 2680.66 ug/L

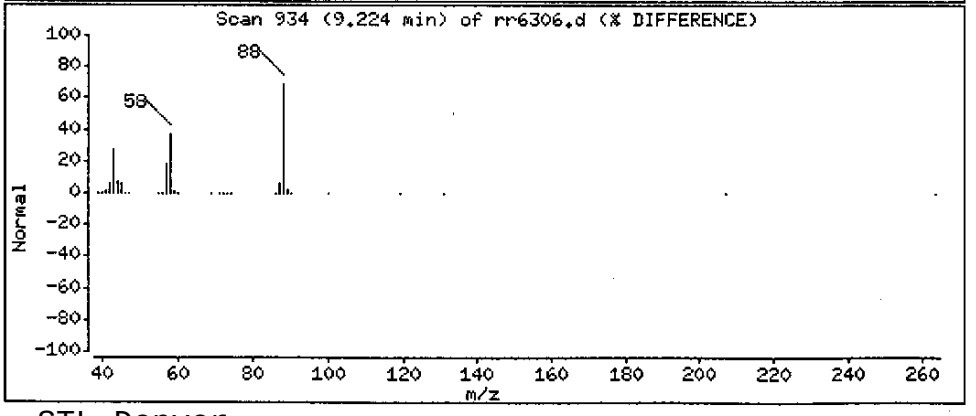












STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6290.d
Lab Smp Id: GGTFE1AA Client Smp ID: 01-MW-02
Inj Date : 27-MAY-2004 19:51
Operator : meierg Inst ID: R2.i
Smp Info : GGTFE1AA,,D4E210325-05
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.643	8.642	(1.000)	1106004	10.0000	
*	82 Chlorobenzene-d5	119	11.584	11.584	(1.000)	300929	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.191	14.190	(1.000)	456252	10.0000	
$	46 Dibromofluoromethane	111	8.082	8.072	(0.935)	389759	10.6231	10.6230
$	52 1,2-Dichloroethane-d4	65	8.368	8.367	(0.968)	307391	10.5548	10.5548
$	70 Toluene-d8	98	10.089	10.088	(0.871)	1106653	10.1305	10.1305
$	93 Bromofluorobenzene	95	12.814	12.813	(1.106)	524518	10.0009	10.0009
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59.00	Compound Not Detected.					
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43.00	Compound Not Detected.					
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76.00	Compound Not Detected.					
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.853	6.848	(0.793)	11862	0.35210	0.352098(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78.00	Compound Not Detected.					
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
61 1,2-Dichloropropane	63.00	Compound Not Detected.					
60 Methyl Methacrylate	100.00	Compound Not Detected.					
62 Methyl cyclohexane	55.00	Compound Not Detected.					
64 Dibromomethane	93.00	Compound Not Detected.					
63 1,4-Dioxane	88	9.243	9.239	(1.069)	5688	55.8593	55.8593(a)
65 Bromodichloromethane	83.00	Compound Not Detected.					
66 2-nitropropane	41.00	Compound Not Detected.					
67 2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68 cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69 4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71 Toluene	91	10.158	10.153	(0.877)	19383	0.15591	0.155906(a)
72 trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73 Ethyl methacrylate	69.00	Compound Not Detected.					
74 1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76 1,3-Dichloropropane	76.00	Compound Not Detected.					
77 Tetrachloroethene	164.00	Compound Not Detected.					
75 2-Hexanone	43.00	Compound Not Detected.					
78 Dibromochloromethane	129.00	Compound Not Detected.					
79 Tetrahydrothiophene	60.00	Compound Not Detected.					
80 1,2-Dibromoethane	107.00	Compound Not Detected.					
81 1-Chlorohexane	91.00	Compound Not Detected.					
83 Chlorobenzene	112.00	Compound Not Detected.					
84 1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85 Ethylbenzene	106.00	Compound Not Detected.					
86 m and p-Xylene	106.00	Compound Not Detected.					
87 o-Xylene	106.00	Compound Not Detected.					
88 Styrene	104.00	Compound Not Detected.					
89 Bromoform	173.00	Compound Not Detected.					
90 isopropyl benzene	105.00	Compound Not Detected.					
91 c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92 Cyclohexanone	55.00	Compound Not Detected.					
94 1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95 t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97 Bromobenzene	156.00	Compound Not Detected.					
96 1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98 n-Propylbenzene	120.00	Compound Not Detected.					
99 2-Chlorotoluene	126.00	Compound Not Detected.					
100 1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101 4-Chlorotoluene	126.00	Compound Not Detected.					
102 tert-Butylbenzene	119.00	Compound Not Detected.					
103 1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104 sec-Butylbenzene	134.00	Compound Not Detected.					
106 m-Dichlorobenzene	146.00	Compound Not Detected.					
105 4-Isopropyltoluene	119.00	Compound Not Detected.					
108 p-dichlorobenzene	146.00	Compound Not Detected.					
109 1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110 n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6290.d
Lab Smp Id: GGTFE1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-02
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1106004	-0.98
82 Chlorobenzene-d5	318643	159322	637286	300929	-5.56
107 1,4-Dichlorobenze	494708	247354	989416	456252	-7.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.01
82 Chlorobenzene-d5	11.58	11.08	12.08	11.58	0.01
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.00

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Sample Matrix: LIQUID
Lab Smp Id: GGTFE1AA
Level: LOW
Data Type: MS DATA
SpikeList File: dcs.spk
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Client SDG: D4E210325
Fraction: VOA
Client Smp ID: 01-MW-02
Operator: meierg
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.6230	106.23	76-116
$ 52 1,2-Dichloroethane	10.0000	10.5548	105.55	59-129
$ 70 Toluene-d8	10.0000	10.1305	101.30	76-116
$ 93 Bromofluorobenzene	10.0000	10.0009	100.01	74-114

Data File: /chem/R2.i/052704.b/rr6290.d

Date : 27-MAY-2004 19:51

Client ID: 01-MW-02

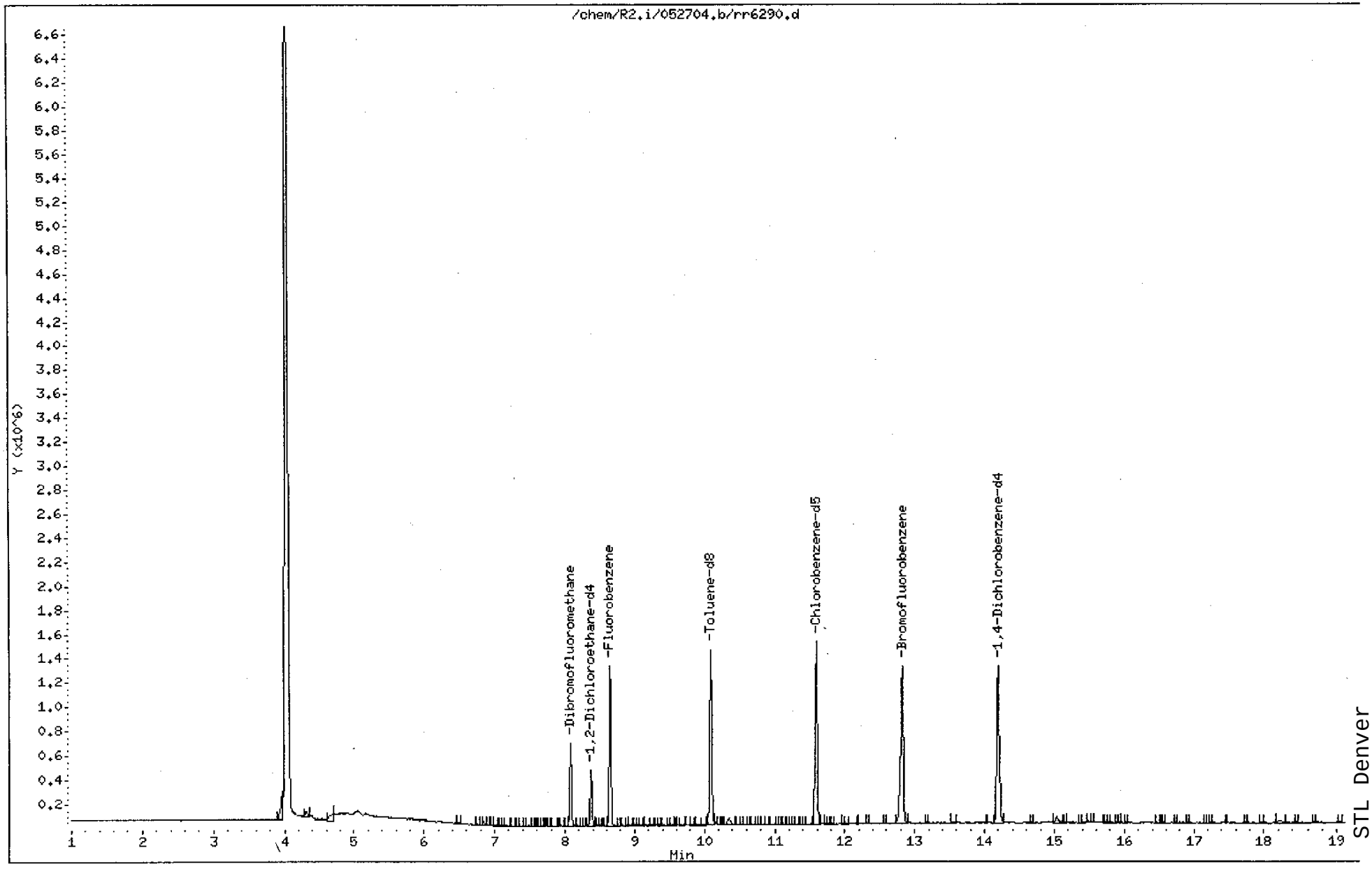
Sample Info: GGTFE1AA,,D4E210325-05

Column phase: HP624

Instrument: R2.i

Operator: meierg

Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6290.d

Date : 27-MAY-2004 19:51

Client ID: 01-MW-02

Instrument: R2.i

Sample Info: GGTFE1AA,,D4E210325-05

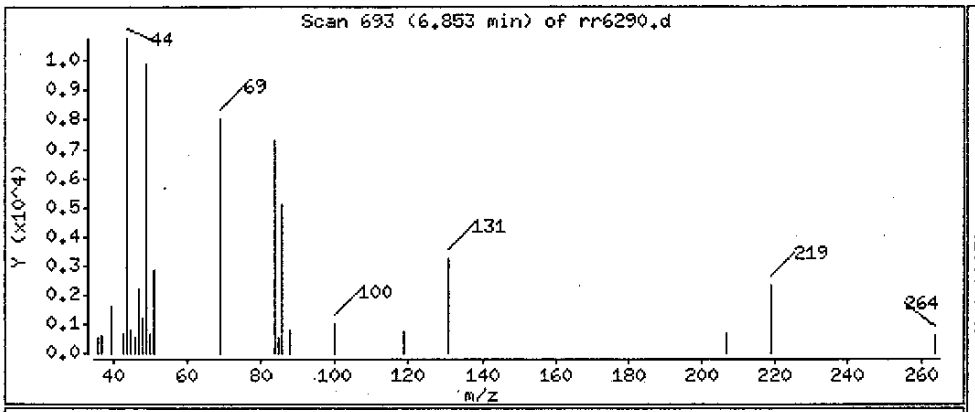
Operator: meierg

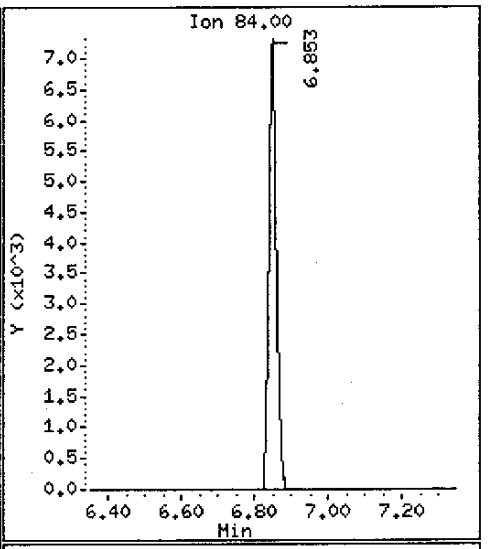
Column phase: HP624

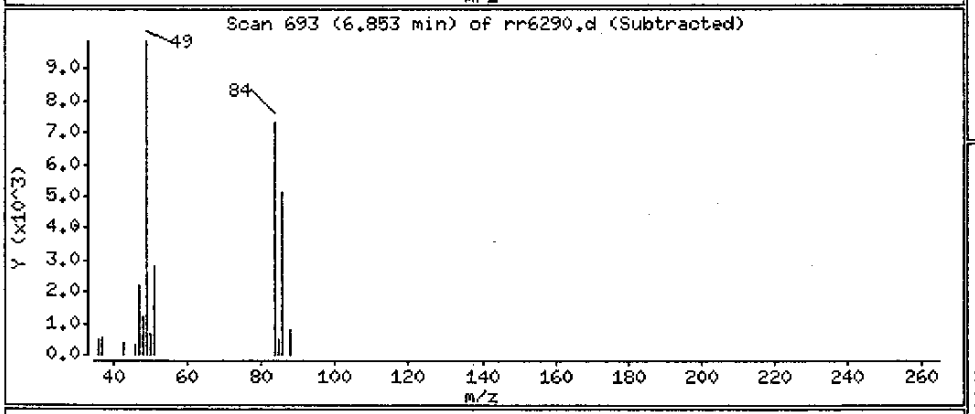
Column diameter: 0.32

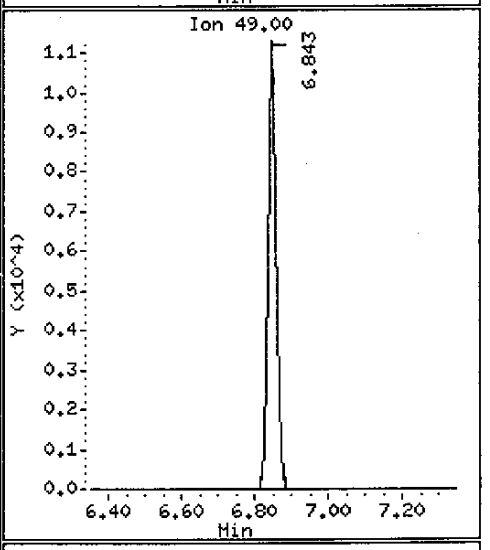
27 Methylene Chloride

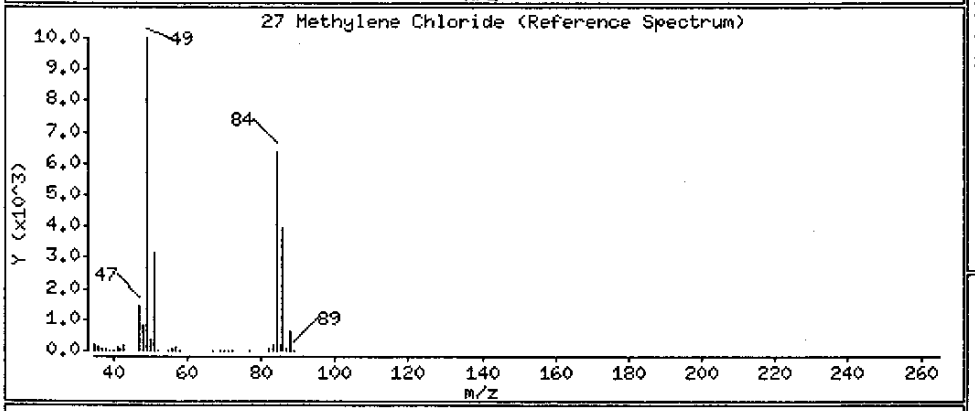
Concentration: 0.352098 ug/L

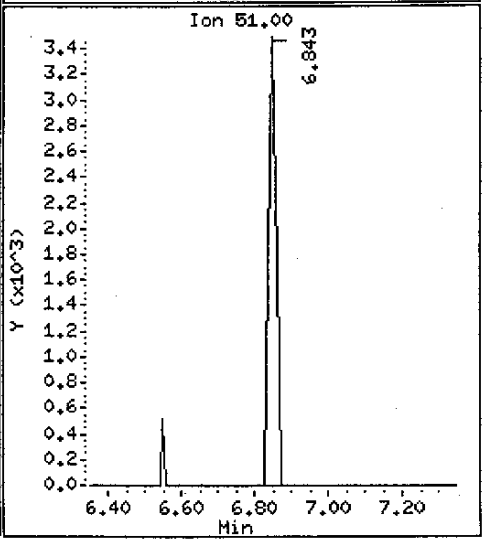


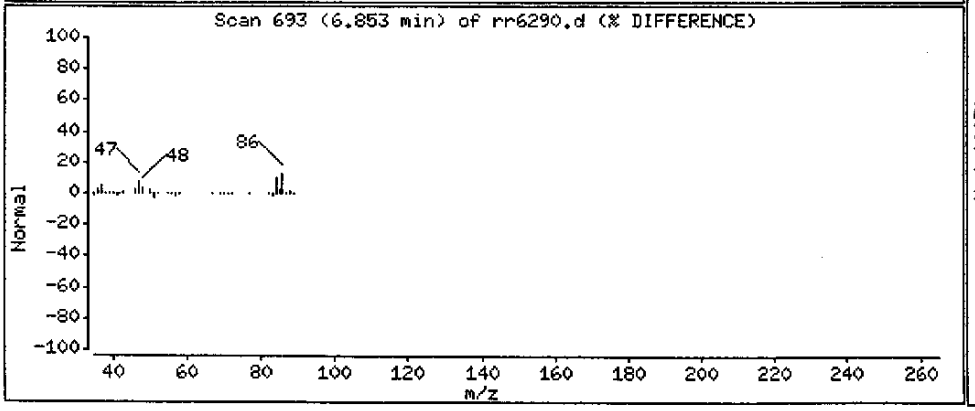












Data File: /chem/R2.i/052704.b/rr6290.d

Date : 27-MAY-2004 19:51

Client ID: 01-MW-02

Instrument: R2.i

Sample Info: GGTFE1AA,,D4E210325-05

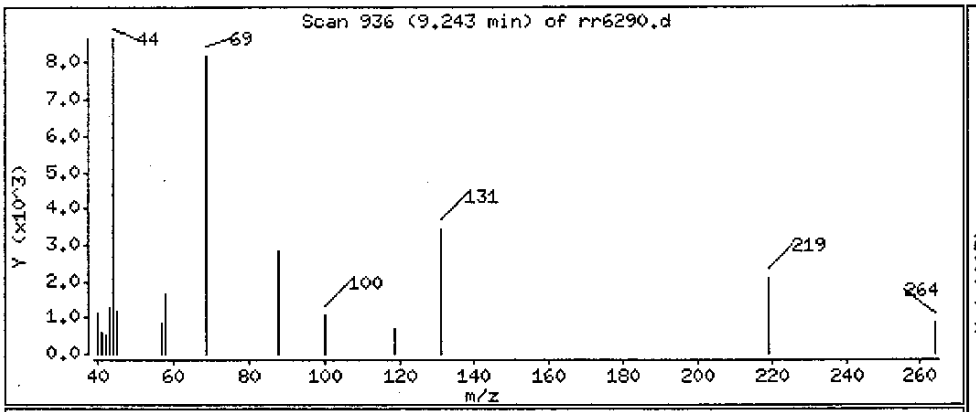
Operator: meierg

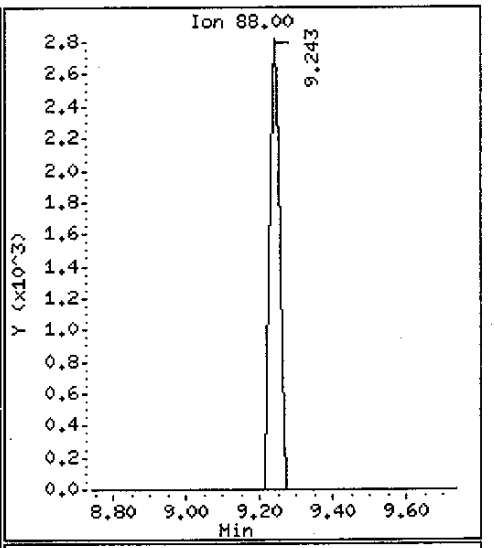
Column phase: HP624

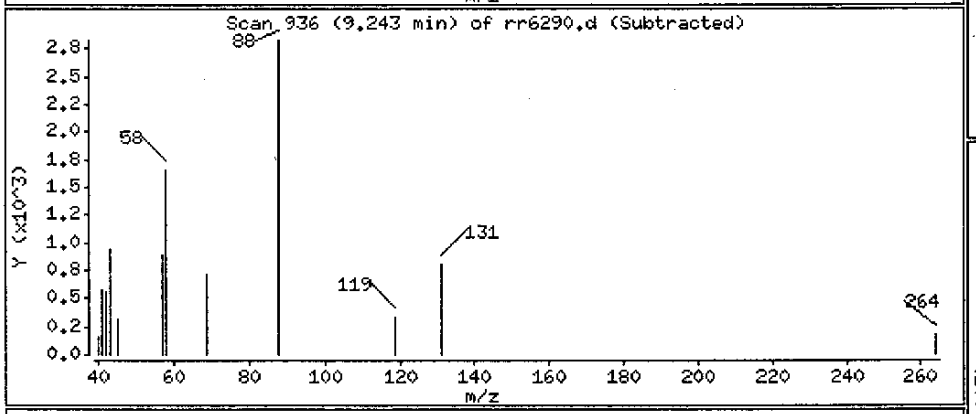
Column diameter: 0.32

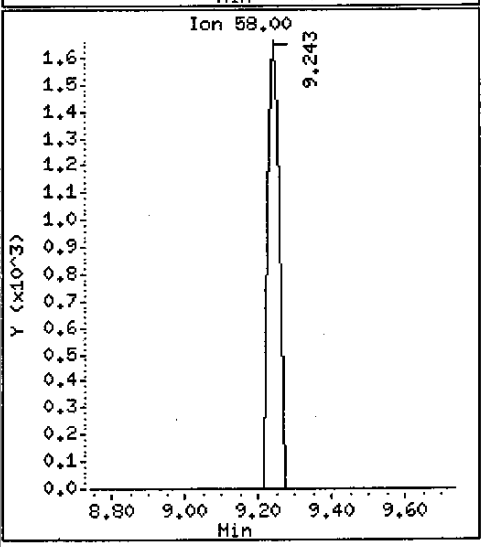
63 1,4-Dioxane

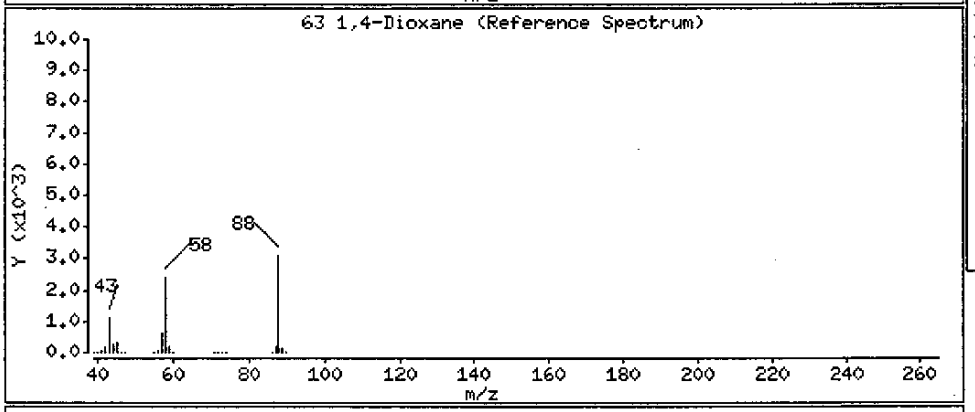
Concentration: 55.8593 ug/L

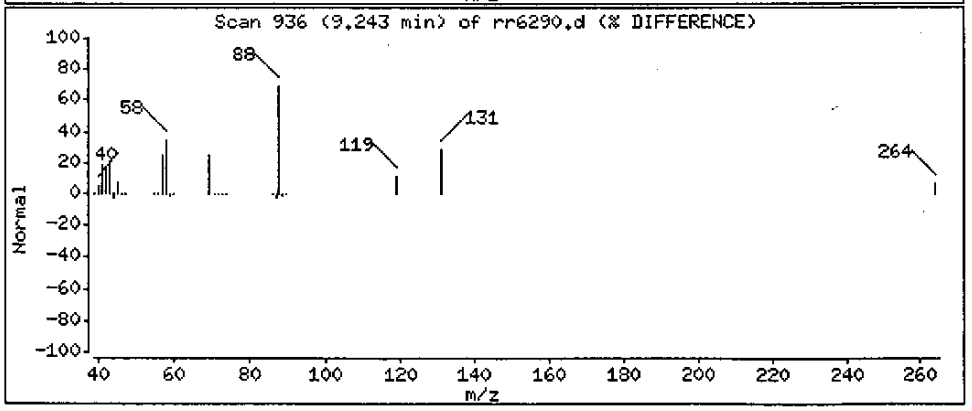












Data File: /chem/R2.i/052704.b/rr6290.d

Date : 27-MAY-2004 19:51

Client ID: 01-MW-02

Instrument: R2.i

Sample Info: GGTFE1AA,,D4E210325-05

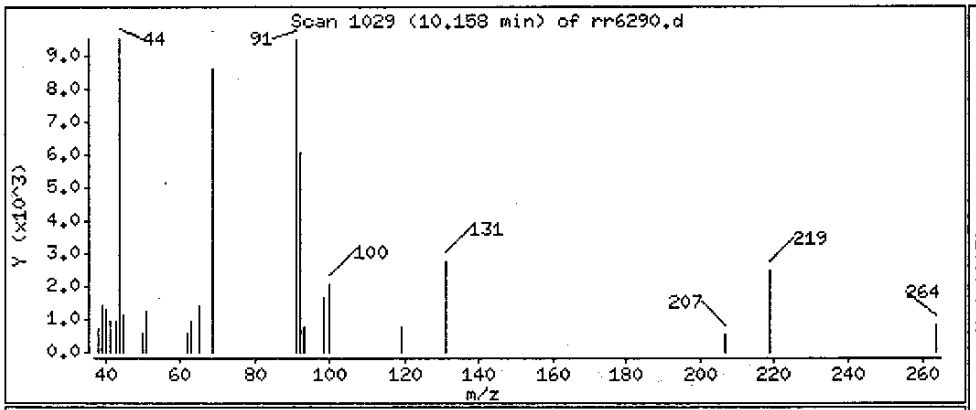
Operator: meierg

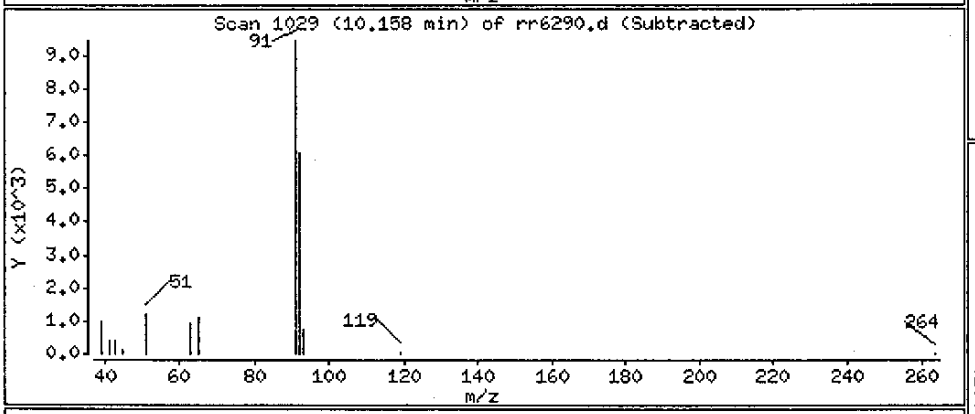
Column phase: HP624

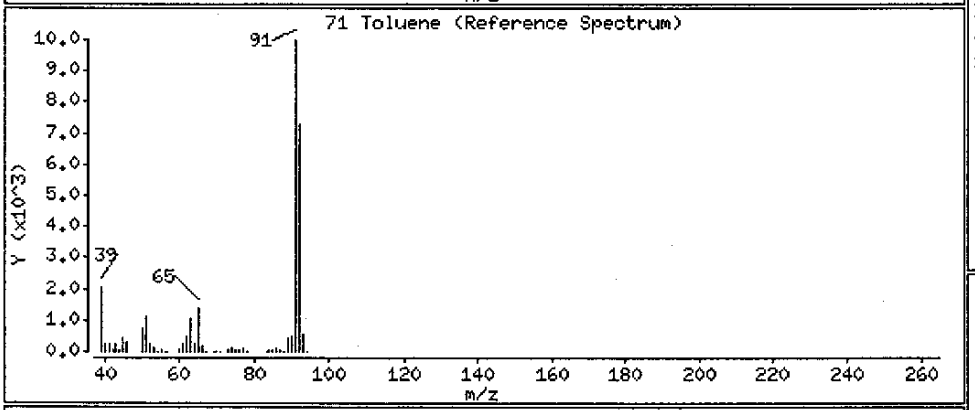
Column diameter: 0.32

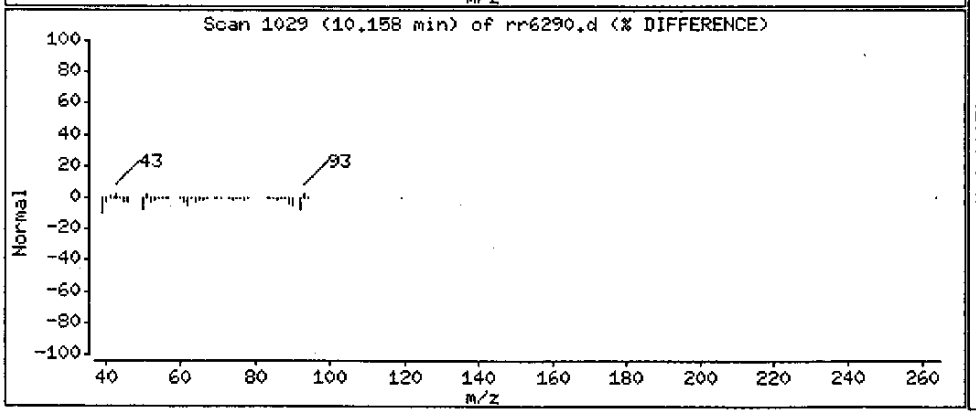
71 Toluene

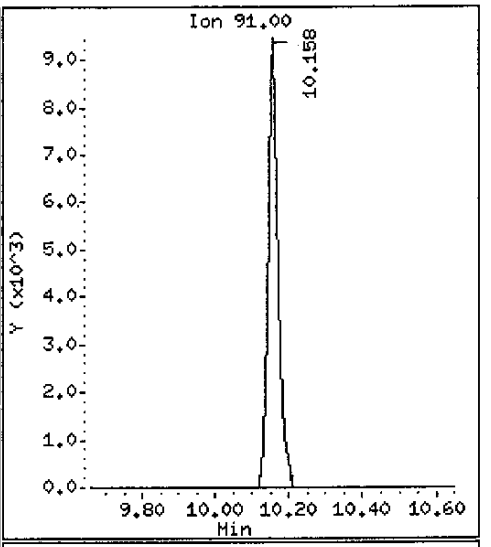
Concentration: 0.155906 ug/L

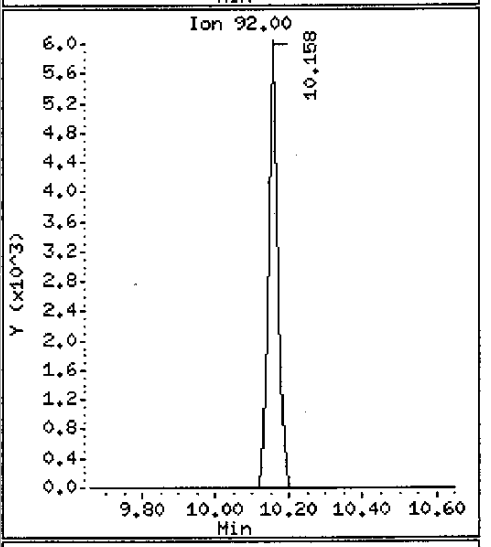


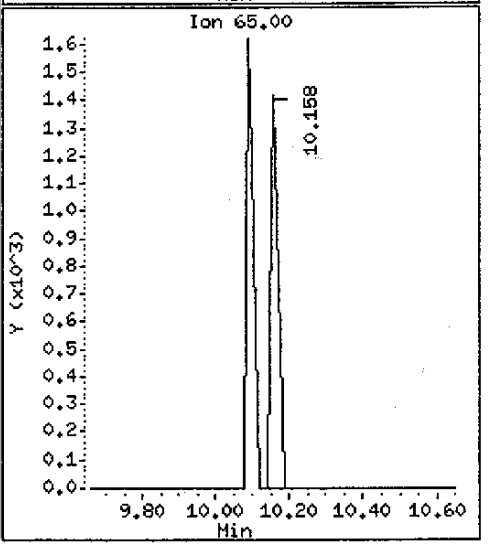












STL Denver

VOLATILE REPORT SW-846

Data file : /chem/R2.i/052704.b/rr6291.d
Lab Smp Id: GGTFH1AA Client Smp ID: 01-MW-03
Inj Date : 27-MAY-2004 20:16
Operator : meierg Inst ID: R2.i
Smp Info : GGTFH1AA,,D4E210325-06
Misc Info :
Comment : SOP # CORP-MS-0002 20ml Analysis
Method : /chem/R2.i/052704.b/R2-20ml-h2o.m
Meth Date : 27-May-2004 17:49 meierg Quant Type: ISTD
Cal Date : 26-MAY-2004 00:31 Cal File: rr6230.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: QK-01.sub
Target Version: 3.40
Processing Host: chemsv02

Concentration Formula: Amt * DF * Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	final purge volume (mL)
Vs	20.000	vlm of sample added to purge vessel (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	56 Fluorobenzene	96	8.645	8.642	(1.000)	1082553	10.0000	
*	82 Chlorobenzene-d5	119	11.586	11.584	(1.000)	305137	10.0000	
*	107 1,4-Dichlorobenzene-d4	152	14.193	14.190	(1.000)	466441	10.0000	
$	46 Dibromofluoromethane	111	8.074	8.072	(0.934)	391186	10.8929	10.8929
$	52 1,2-Dichloroethane-d4	65	8.369	8.367	(0.968)	308151	10.8101	10.8101
$	70 Toluene-d8	98	10.091	10.088	(0.871)	1080060	9.75070	9.75070
$	93 Bromofluorobenzene	95	12.815	12.813	(1.106)	534648	10.0535	10.0535
M	1 1,2-Dichloroethene (total)	96.00	Compound Not Detected.					
M	2 Xylene (total)	106.00	Compound Not Detected.					
	3 dichlorodifluoromethane	85.00	Compound Not Detected.					
	4 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
	5 Chloromethane	50.00	Compound Not Detected.					
	6 Vinyl Chloride	62.00	Compound Not Detected.					
	7 Ethylene Oxide	43.00	Compound Not Detected.					
	8 Bromomethane	94.00	Compound Not Detected.					
	9 Chloroethane	64.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
10 Dichlorofluoromethane	67.00	Compound Not Detected.					
11 Trichlorofluoromethane	101.00	Compound Not Detected.					
12 Ethanol	45.00	Compound Not Detected.					
13 1,2-dichloro-1,1,2-trifluoroet	117.00	Compound Not Detected.					
15 2,2-dichloro-1,1,1-trifluoroet	83.00	Compound Not Detected.					
14 Ethyl Ether	59.00	Compound Not Detected.					
16 Acrolein	56.00	Compound Not Detected.					
20 2-Propanol	45.00	Compound Not Detected.					
19 1,1-Dichloroethene	96.00	Compound Not Detected.					
17 Trichlorotrifluoroethane	151.00	Compound Not Detected.					
18 Acetone	43	6.481	6.465	(0.750)	18191	3.81504	3.81504(a)
21 Iodomethane	142.00	Compound Not Detected.					
24 Carbon Disulfide	76	6.746	6.754	(0.780)	18394	0.12434	0.124338(a)
22 Acetonitrile	41.00	Compound Not Detected.					
25 Allyl Chloride	41.00	Compound Not Detected.					
23 Methyl acetate	43.00	Compound Not Detected.					
27 Methylene Chloride	84	6.845	6.848	(0.792)	14220	0.43123	0.431233(a)
26 tert-Butyl alcohol	59.00	Compound Not Detected.					
28 Acrylonitrile	53.00	Compound Not Detected.					
29 Methyl t-butyl ether	73.00	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96.00	Compound Not Detected.					
31 Hexane	57.00	Compound Not Detected.					
34 1,1-Dichloroethane	63.00	Compound Not Detected.					
32 Vinyl acetate	43.00	Compound Not Detected.					
33 Isopropyl ether	87.00	Compound Not Detected.					
35 Chloroprene	53.00	Compound Not Detected.					
36 ETBE	59.00	Compound Not Detected.					
40 cis-1,2-Dichloroethene	96.00	Compound Not Detected.					
37 2-Butanone	43.00	Compound Not Detected.					
41 2,2-Dichloropropane	77.00	Compound Not Detected.					
39 Propionitrile	54.00	Compound Not Detected.					
38 Ethyl Acetate	43.00	Compound Not Detected.					
42 Methacrylonitrile	41.00	Compound Not Detected.					
43 Bromochloromethane	128.00	Compound Not Detected.					
45 Tetrahydrofuran	42.00	Compound Not Detected.					
44 Chloroform	83.00	Compound Not Detected.					
47 1,1,1-Trichloroethane	97.00	Compound Not Detected.					
50 1,1-Dichloropropene	75.00	Compound Not Detected.					
51 Carbon Tetrachloride	117.00	Compound Not Detected.					
49 Cyclohexane	56.00	Compound Not Detected.					
48 Isobutanol	41.00	Compound Not Detected.					
55 TAME	73.00	Compound Not Detected.					
54 Benzene	78.00	Compound Not Detected.					
53 1,2-Dichloroethane	62.00	Compound Not Detected.					
57 n-Butanol	56.00	Compound Not Detected.					
59 2-Pentanone	43.00	Compound Not Detected.					
58 Trichloroethene	130.00	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
61	1,2-Dichloropropane	63.00	Compound Not Detected.					
60	Methyl Methacrylate	100.00	Compound Not Detected.					
62	Methyl cyclohexane	55.00	Compound Not Detected.					
64	Dibromomethane	93.00	Compound Not Detected.					
63	1,4-Dioxane	88	9.235	9.239	(1.068)	5905	59.2466	59.2466(a)
65	Bromodichloromethane	83.00	Compound Not Detected.					
66	2-nitropropane	41.00	Compound Not Detected.					
67	2-Chloroethyl vinyl ether	63.00	Compound Not Detected.					
68	cis-1,3-Dichloropropene	75.00	Compound Not Detected.					
69	4-Methyl-2-pentanone	43.00	Compound Not Detected.					
71	Toluene	91	10.150	10.153	(0.876)	47251	0.37482	0.374820(a)
72	trans-1,3-Dichloropropene	75.00	Compound Not Detected.					
73	Ethyl methacrylate	69.00	Compound Not Detected.					
74	1,1,2-Trichloroethane	97.00	Compound Not Detected.					
76	1,3-Dichloropropane	76.00	Compound Not Detected.					
77	Tetrachloroethene	164.00	Compound Not Detected.					
75	2-Hexanone	43.00	Compound Not Detected.					
78	Dibromochloromethane	129.00	Compound Not Detected.					
79	Tetrahydrothiophene	60.00	Compound Not Detected.					
80	1,2-Dibromoethane	107.00	Compound Not Detected.					
81	1-Chlorohexane	91.00	Compound Not Detected.					
83	Chlorobenzene	112.00	Compound Not Detected.					
84	1,1,1,2-Tetrachloroethane	131.00	Compound Not Detected.					
85	Ethylbenzene	106.00	Compound Not Detected.					
86	m and p-Xylene	106.00	Compound Not Detected.					
87	o-Xylene	106.00	Compound Not Detected.					
88	Styrene	104.00	Compound Not Detected.					
89	Bromoform	173.00	Compound Not Detected.					
90	isopropyl benzene	105.00	Compound Not Detected.					
91	c-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
92	Cyclohexanone	55.00	Compound Not Detected.					
94	1,1,2,2-Tetrachloroethane	83.00	Compound Not Detected.					
95	t-1,4-Dichloro-2-butene	53.00	Compound Not Detected.					
97	Bromobenzene	156.00	Compound Not Detected.					
96	1,2,3-Trichloropropane	110.00	Compound Not Detected.					
98	n-Propylbenzene	120.00	Compound Not Detected.					
99	2-Chlorotoluene	126.00	Compound Not Detected.					
100	1,3,5-Trimethylbenzene	105.00	Compound Not Detected.					
101	4-Chlorotoluene	126.00	Compound Not Detected.					
102	tert-Butylbenzene	119.00	Compound Not Detected.					
103	1,2,4-Trimethylbenzene	105.00	Compound Not Detected.					
104	sec-Butylbenzene	134.00	Compound Not Detected.					
106	m-Dichlorobenzene	146.00	Compound Not Detected.					
105	4-Isopropyltoluene	119.00	Compound Not Detected.					
108	p-dichlorobenzene	146.00	Compound Not Detected.					
109	1,2,3-Trimethylbenzene	105.00	Compound Not Detected.					
110	n-Butylbenzene	91.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
111 o-Dichlorobenzene	146.00	Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00	Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00	Compound Not Detected.					
114 Hexachlorobutadiene	225.00	Compound Not Detected.					
115 Napthalene	128.00	Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00	Compound Not Detected.					

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: R2.i
Lab File ID: rr6291.d
Lab Smp Id: GGTFH1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: meierg
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

Calibration Date: 05/27/4
Calibration Time: 1604
Client Smp ID: 01-MW-03
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	1117002	558501	2234004	1082553	-3.08
82 Chlorobenzene-d5	318643	159322	637286	305137	-4.24
107 1,4-Dichlorobenze	494708	247354	989416	466441	-5.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
56 Fluorobenzene	8.64	8.14	9.14	8.64	0.03
82 Chlorobenzene-d5	11.58	11.08	12.08	11.59	0.02
107 1,4-Dichlorobenze	14.19	13.69	14.69	14.19	0.02

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

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services
Client SDG: D4E210325
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: GGTFH1AA
Client Smp ID: 01-MW-03
Level: LOW
Operator: meierg
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: dcs.spk
Quant Type: ISTD
Sublist File: QK-01.sub
Method File: /chem/R2.i/052704.b/R2-20ml-h2o.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 46 Dibromofluorometha	10.0000	10.8929	108.93	76-116
$ 52 1,2-Dichloroethane	10.0000	10.8101	108.10	59-129
$ 70 Toluene-d8	10.0000	9.75070	97.51	76-116
$ 93 Bromofluorobenzene	10.0000	10.0535	100.54	74-114

Data File: /chem/R2.i/052704.b/rr6291.d

Date : 27-MAY-2004 20:16

Client ID: 01-MW-03

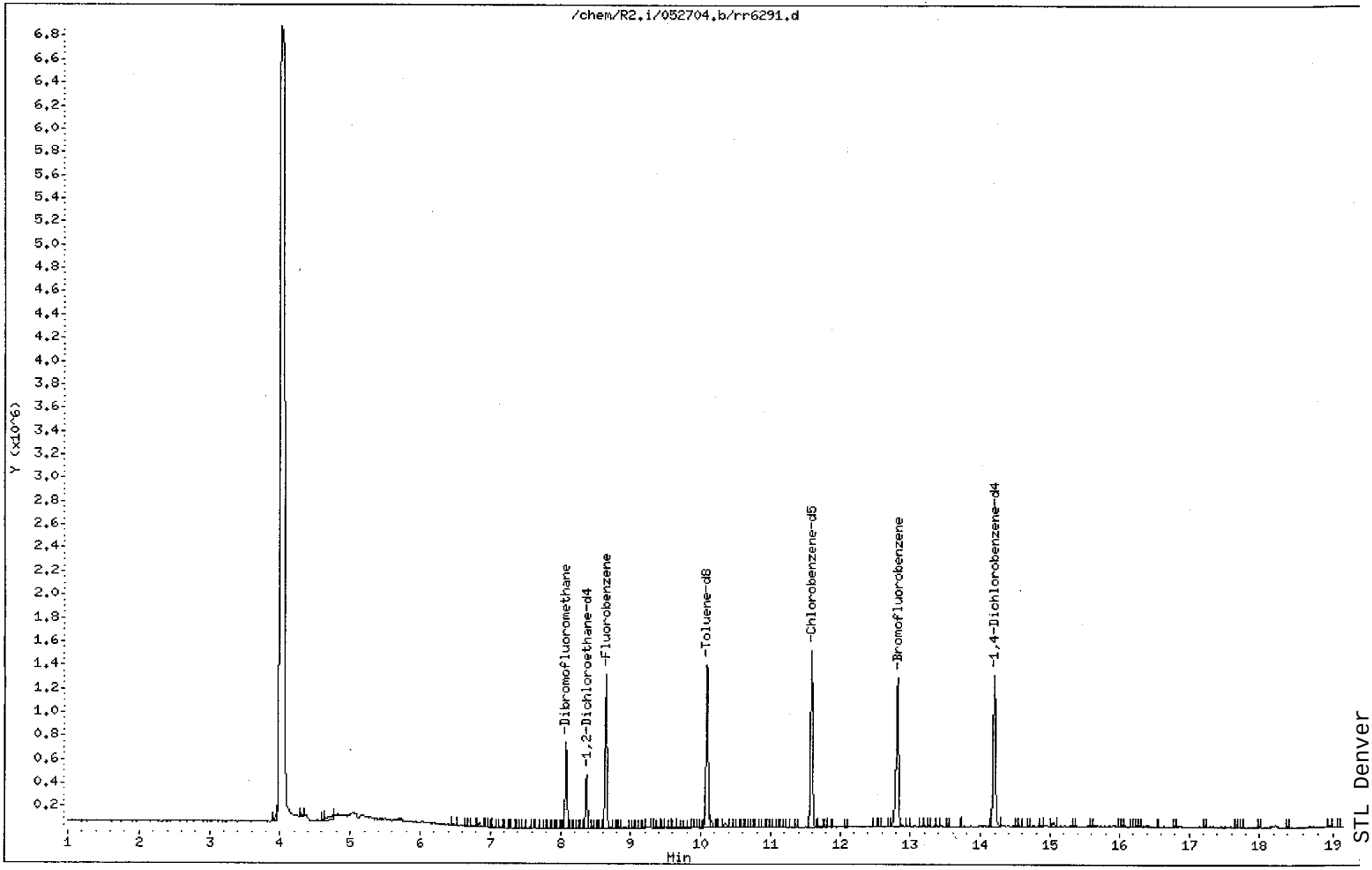
Sample Info: GGTFH1AA,,D4E210325-06

Column phase: HP624

Instrument: R2.i

Operator: meierg

Column diameter: 0.32



Data File: /chem/R2.i/052704.b/rr6291.d

Date : 27-MAY-2004 20:16

Client ID: 01-MW-03

Instrument: R2.i

Sample Info: GGTFH1AA,,D4E210325-06

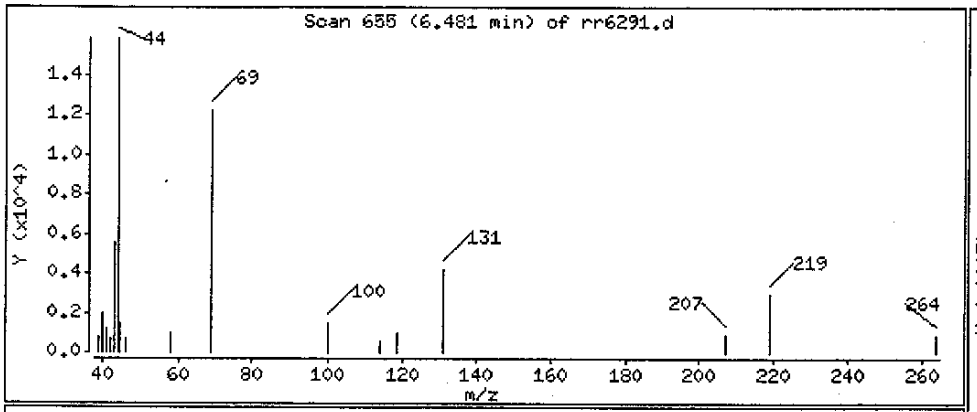
Operator: meierg

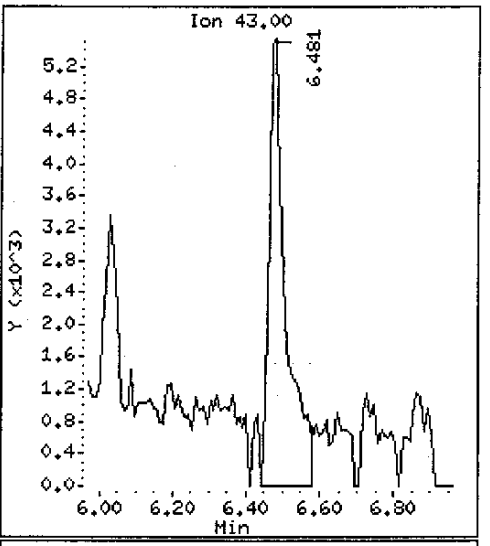
Column phase: HP624

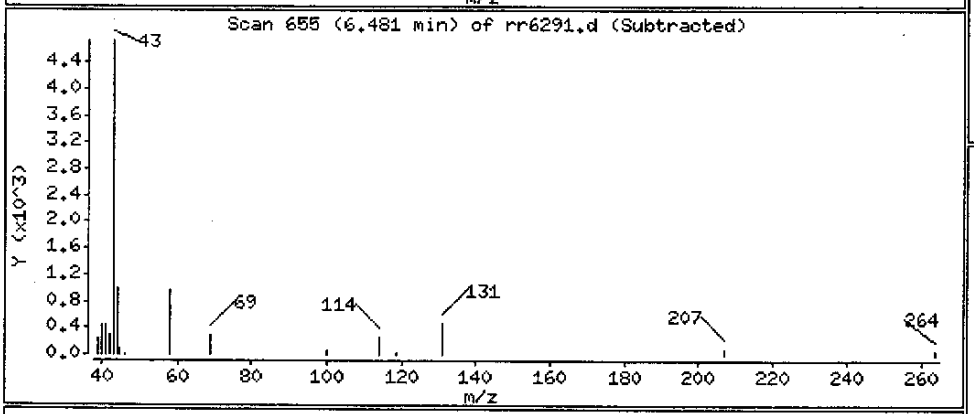
Column diameter: 0.32

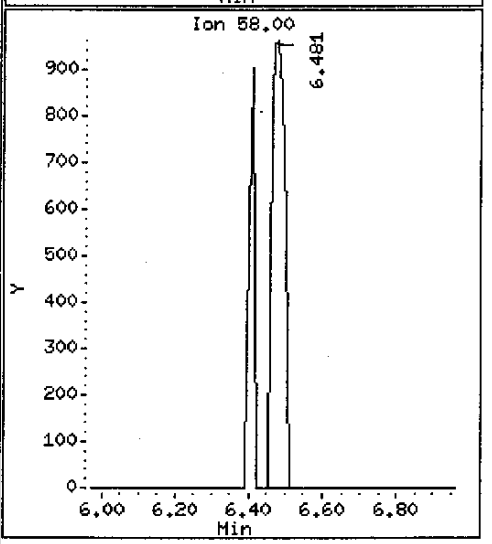
18 Acetone

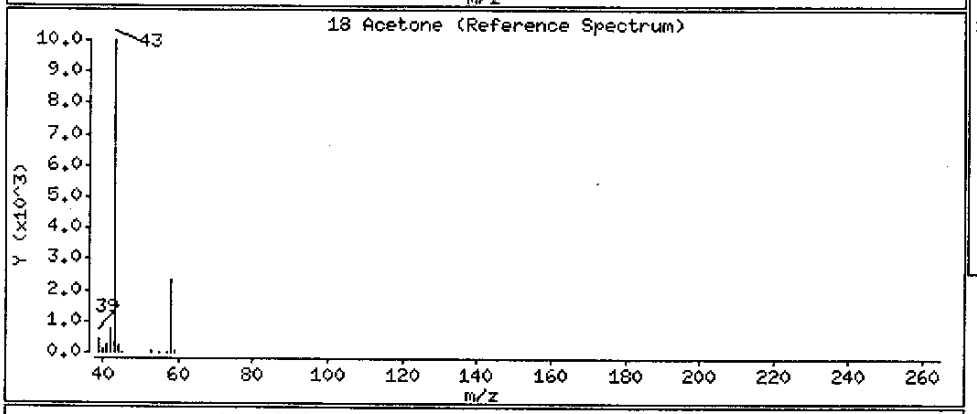
Concentration: 3.81504 ug/L

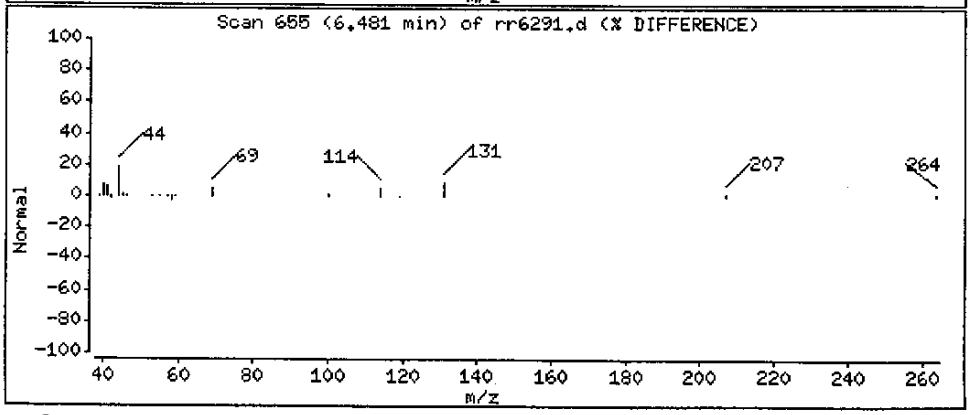












Data File: /chem/R2.i/052704.b/rr6291.d

Date : 27-MAY-2004 20:16

Client ID: 01-MW-03

Instrument: R2.i

Sample Info: GGTFH1AA,,D4E210325-06

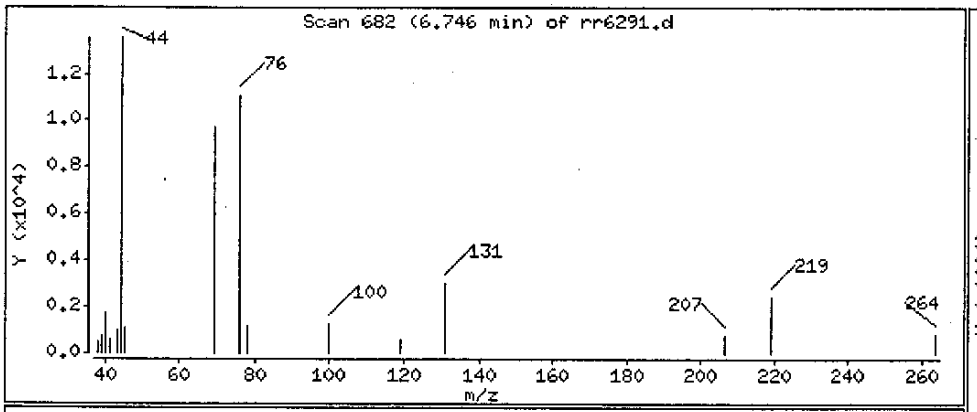
Operator: meierg

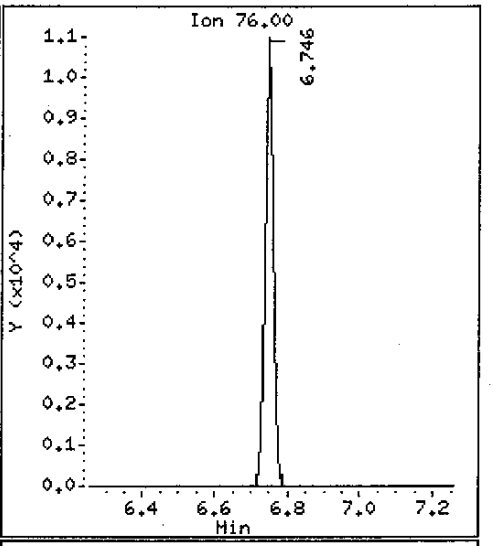
Column phase: HP624

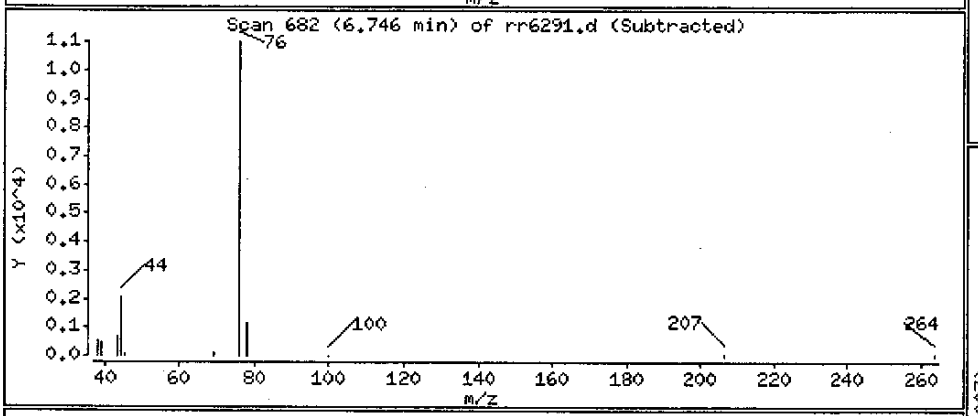
Column diameter: 0.32

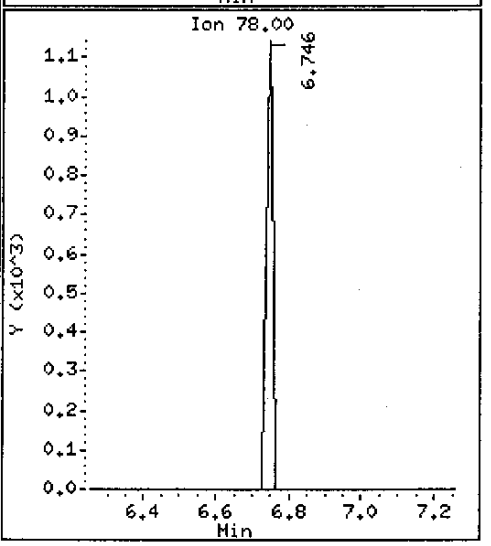
24 Carbon Disulfide

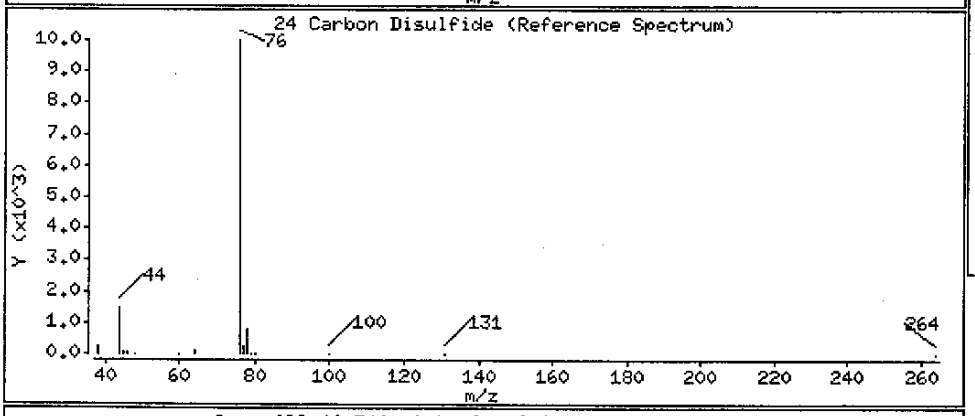
Concentration: 0.124338 ug/L

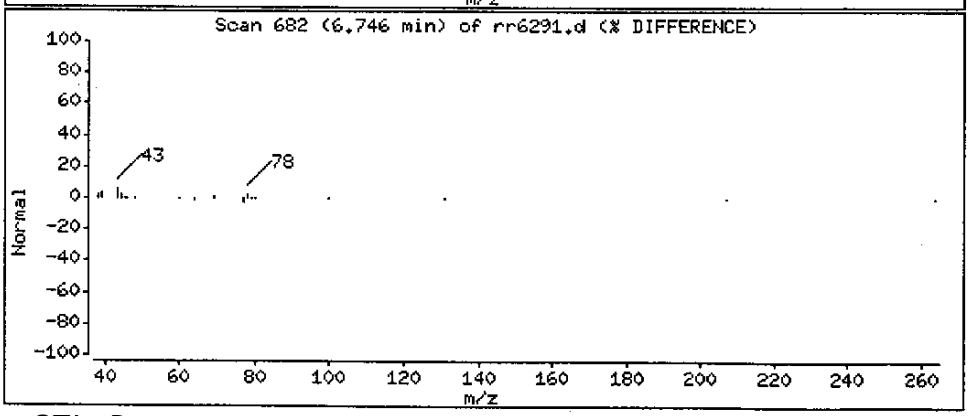












Data File: /chem/R2.i/052704.b/rr6291.d

Date : 27-MAY-2004 20:16

Client ID: 01-MW-03

Instrument: R2.i

Sample Info: GGTFH1AA,,D4E210325-06

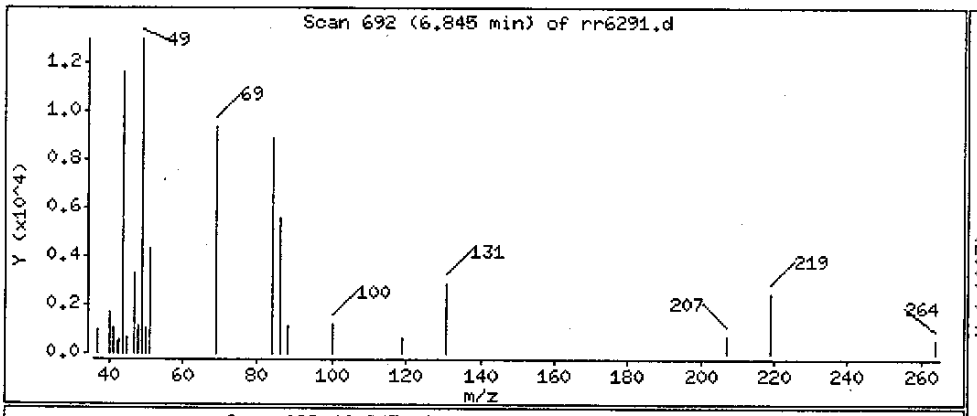
Operator: meierg

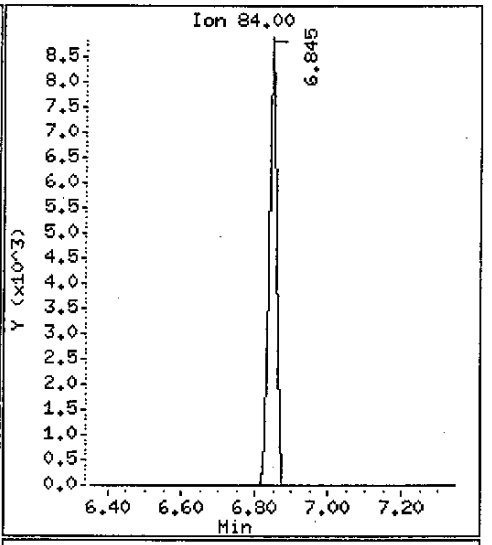
Column phase: HP624

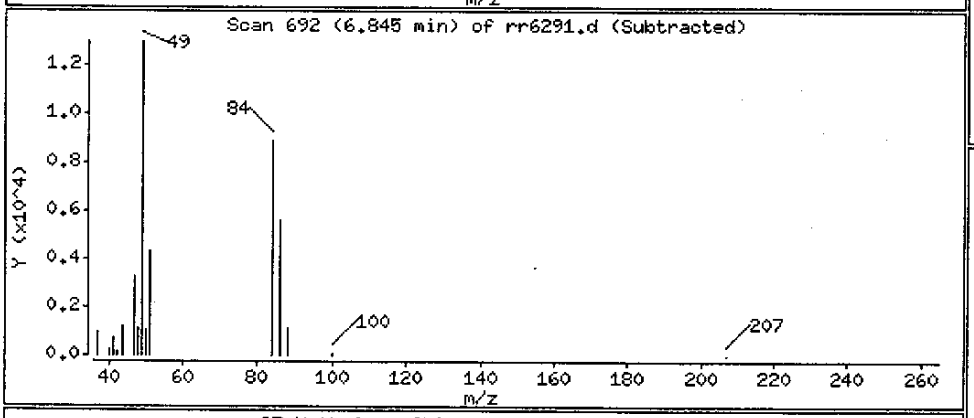
Column diameter: 0.32

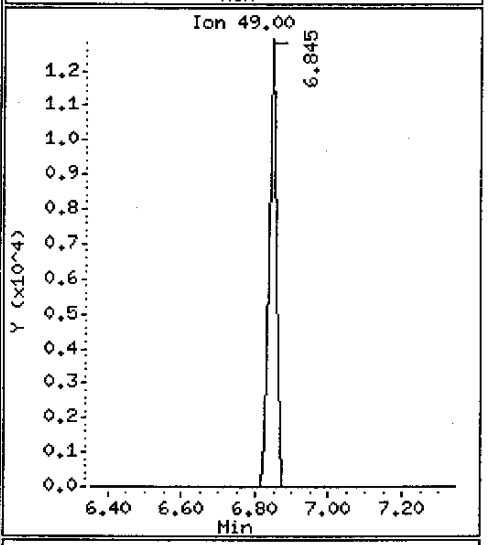
27 Methylene Chloride

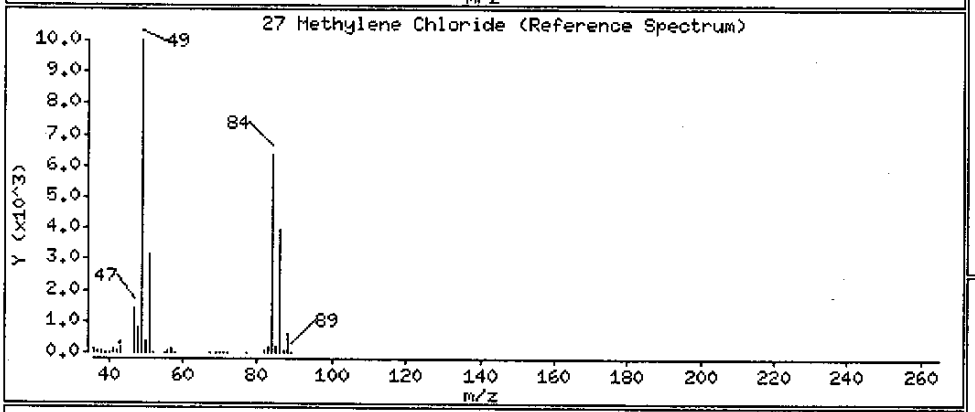
Concentration: 0.431233 ug/L

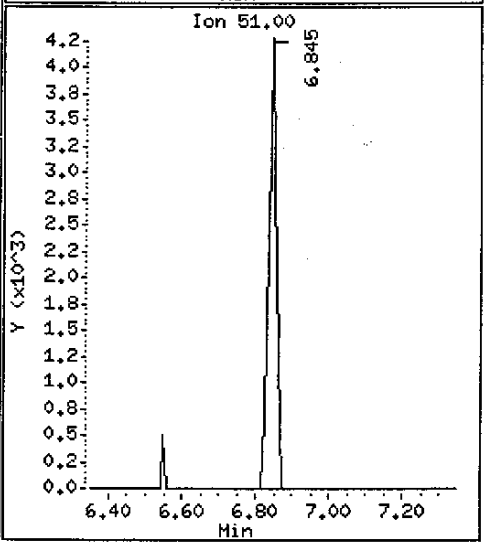


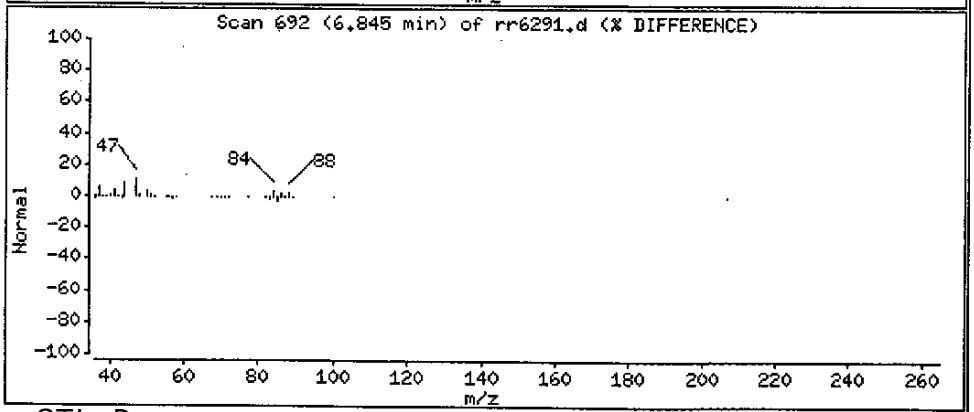












Data File: /chem/R2.i/052704.b/rr6291.d

Date : 27-MAY-2004 20:16

Client ID: 01-MW-03

Instrument: R2.i

Sample Info: GGTFH1AA,,D4E210325-06

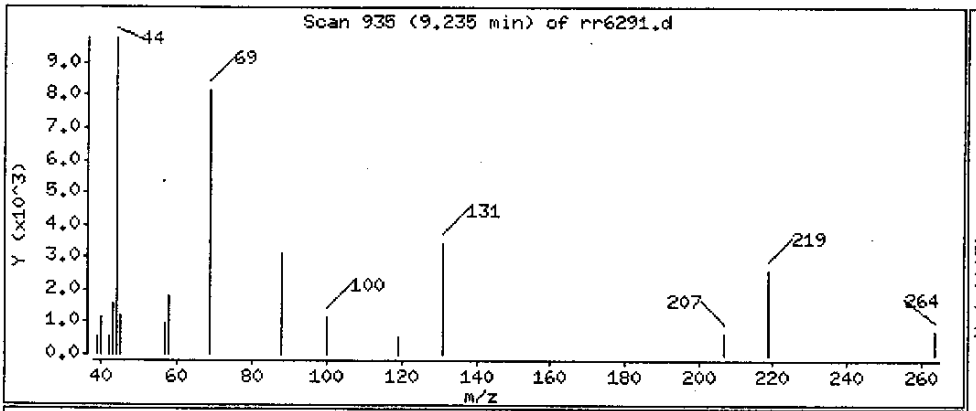
Operator: meierg

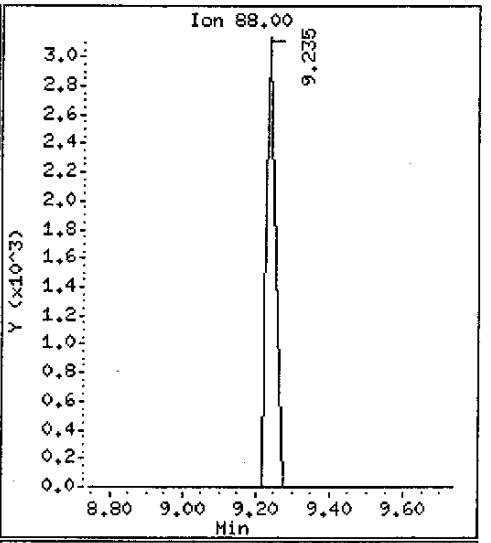
Column phase: HP624

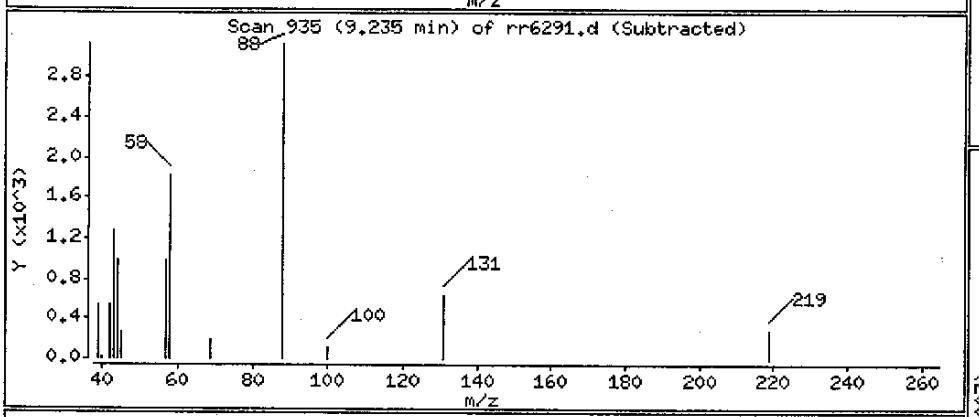
Column diameter: 0.32

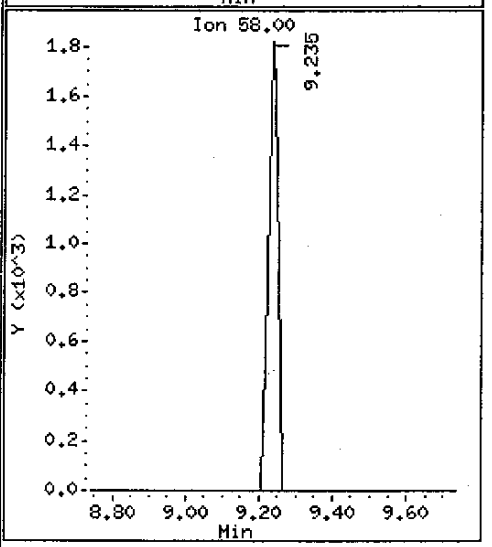
63 1,4-Dioxane

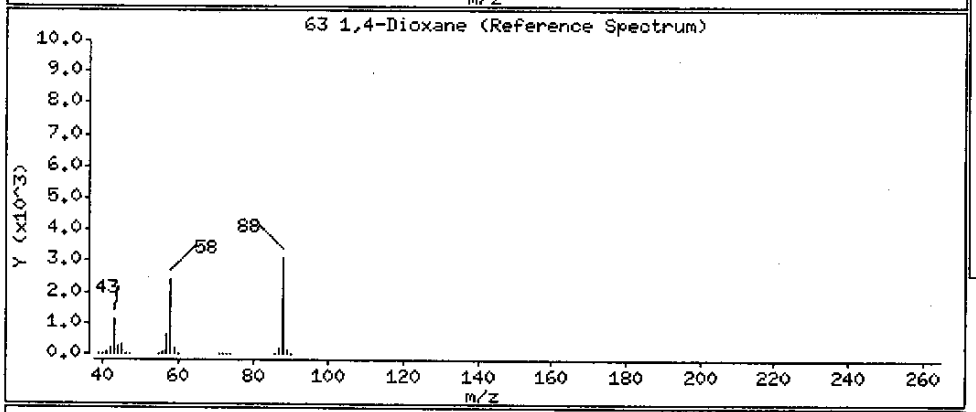
Concentration: 59.2466 ug/L

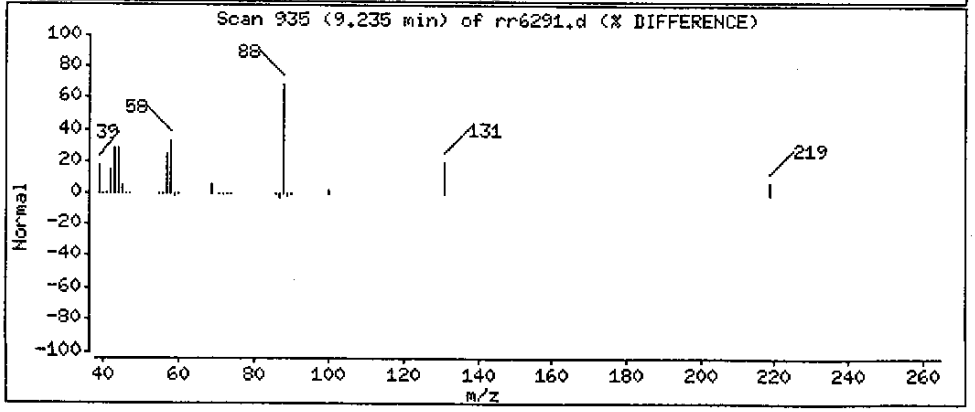












Data File: /chem/R2.i/052704.b/rr6291.d

Date : 27-MAY-2004 20:16

Client ID: 01-MW-03

Instrument: R2.i

Sample Info: CGTFH1AA,,D4E210325-06

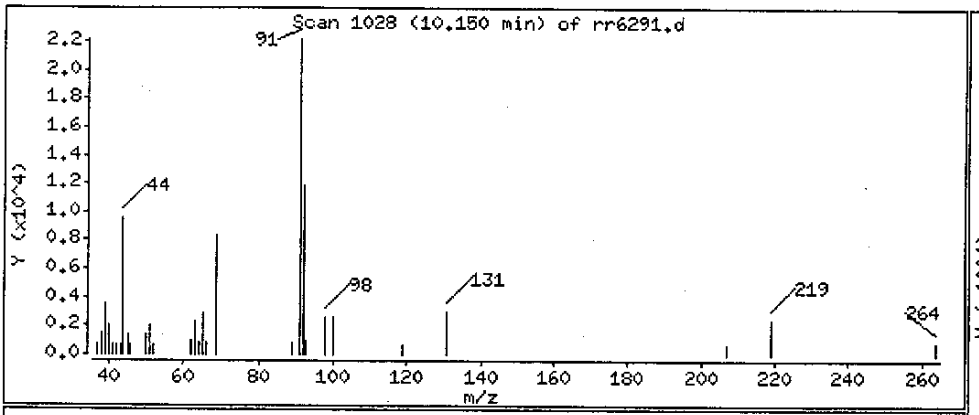
Operator: meierg

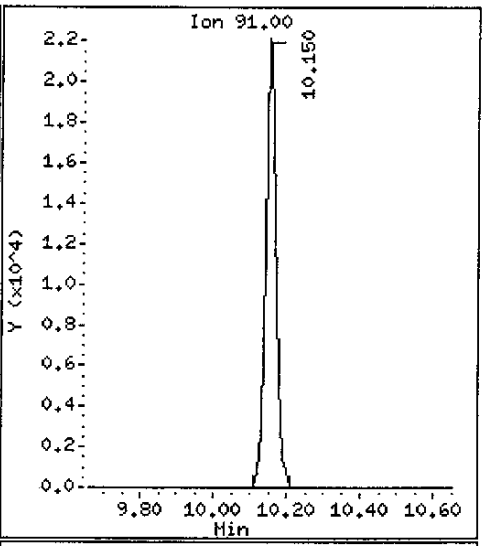
Column phase: HP624

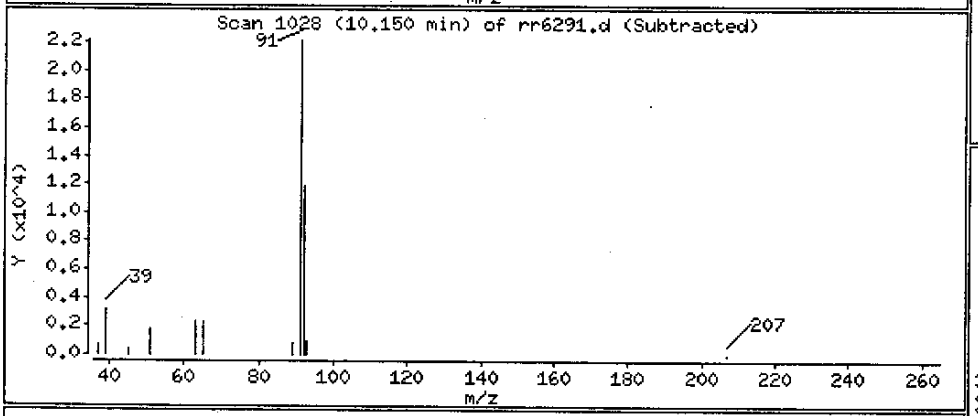
Column diameter: 0.32

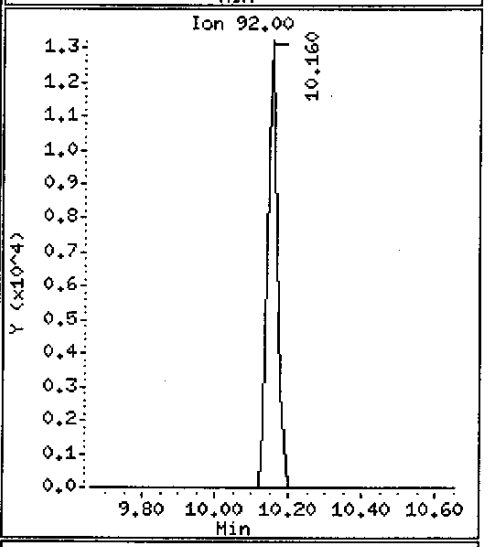
71 Toluene

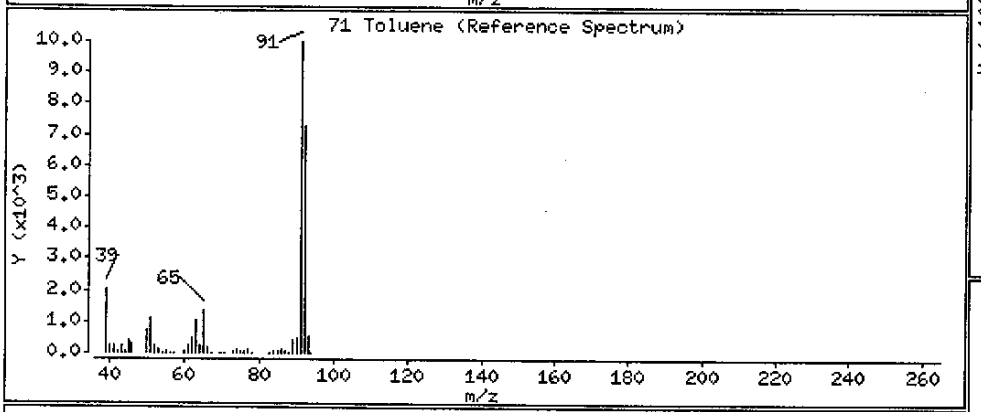
Concentration: 0.374820 ug/L

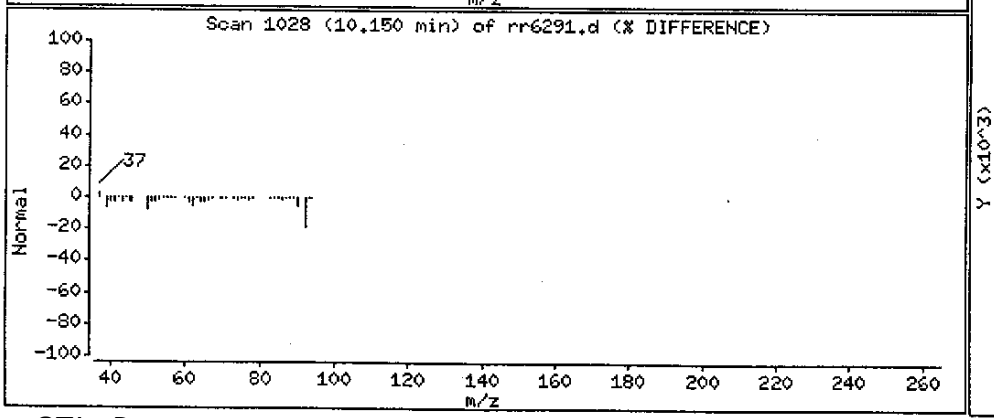


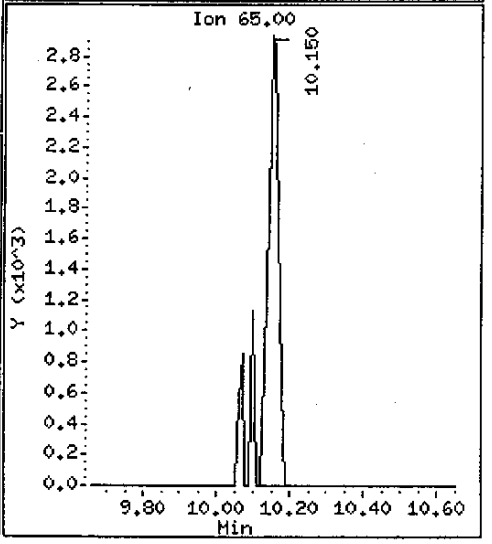












Semivolatile GC/MS

Supporting Documentation

Sample Sequence, Chromatograms/Mass Spectra

SEVERN TRENT STL

Lot ID: DHEZ10325

Client: Cabrera Services

Method: 8270C

Associated Samples: 1-6, 8, 9

Batch #(s): 4145234

I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.

Signature/Date: _____

GC/MS SEMIVOLATILE ORGANIC EXTRACTION LOG SHEETS

SEVERN TRENT STL

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/27/04
Time: 23:26:35

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
-	-	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			Y	Y	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGr
_ Bench Sheet Copied per COC

Extractionist: 006091 Jon Laviolette

Concentrationist: 002862 Janel Motichka
009005 Tamera Ashcraft

Reviewer/Date: ASHCRAFT / 5/27/04

QC BATCH: 4145234

PREP DATE: 5/24/04 11:00
COMP DATE: 5/27/04 18:45

Base/Neutrals and Acids (8270C)
LIQ/LIQ, CONT (A/B/N) - Acid->Base

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
5/27/04	6/03/04	D4E210201-001 GGQ0H-1-AQ	R	49	QL	WATER	**985mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/27/04	6/03/04	D4E210201-002 GGQ26-1-A3	R	49	QL	WATER	**986mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/27/04	6/03/04	D4E210201-003 GGQ3X-1-A3	R	49	QL	WATER	**1022mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/27/04	6/03/04	D4E210201-004 GGQ32-1-A3	R	49	QL	WATER	**961mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/27/04	6/02/04	D4E210241-001 GGRKW-1-AQ	R	49	QL	WATER	**998mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/26/04	6/10/04	D4E210325-001 GGTEE-1-AC	D	49	QL	WATER	**990mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/26/04	6/10/04	D4E210325-002 GGTE3-1-AC	D	49	QL	WATER	**978mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/27/04
Time: 23:26:35

QC BATCH: 4145234

PREP DATE: 5/24/04 11:00
COMP DATE: 5/27/04 18:45

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
5/26/04	6/10/04	D4E210325-003 **GGTE6-1-AC**	D	49	QL	WATER	**1024mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/26/04	6/10/04	D4E210325-004 **GGTE7-1-AC**	D	49	QL	WATER	**969mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/26/04	6/10/04	D4E210325-005 **GGTFE-1-AC**	D	49	QL	WATER	**1025mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/26/04	6/10/04	D4E210325-006 **GGTFH-1-AC**	D	49	QL	WATER	**1051mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/27/04	6/10/04	D4E210325-008 **GGTFX-1-AC**	D	49	QL	WATER	**1011mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/27/04	6/10/04	D4E210325-009 **GGTF3-1-AC**	D	49	QL	WATER	**948mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	5/31/04	D4E210431-016 **GGVD2-1-AT**	R	49	QL	WATER	**1055mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	5/31/04	D4E210431-017 **GGVD3-1-AT**	R	49	QL	WATER	**1049mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	5/31/04	D4E210431-018 **GGVD4-1-AT**	R	49	QL	WATER	**1056mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	6/02/04	D4E210434-002 **GGVEL-1-AC**	R	49	QL	WATER	**961mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/27/04
Time: 23:26:35

QC BATCH: 4145234

PREP DATE: 5/24/04 11:00
COMP DATE: 5/27/04 18:45

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
5/28/04	6/02/04	D4E210434-003 **GGVEM-1-AC**	R	49	QL	WATER	**974mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	6/02/04	D4E210434-004 **GGVEP-1-AC**	R	49	QL	WATER	**919mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	0/00/00	D4E240000-234 **GGXHG-1-AAB**		49	QL	WATER	**1000mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	0/00/00	D4E240000-234 **GGXHG-1-ACC**		49	QL	WATER	**1000mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1528 1.0ML 5-10-04 BNA1530 1.0ML 5-12-04
COMMENTS:															
5/28/04	0/00/00	D4E240000-234 **GGXHG-1-ADL**	R	49	QL	WATER	**1000mL** 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1528 1.0ML 5-10-04 BNA1530 1.0ML 5-12-04
COMMENTS:															

DEN-OP-0005 MECL2:Y52E39 ACID:236-37-N BASE:4041-21 H2O:ELGA
S/S:JL W:AIS NA2SO4:Y31626 BATH TEMP: 84C

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 22

GC/MS SEMIVOLATILE
INSTRUMENT
LOG SHEETS

SEVERN
TRENT

STL

STL Denver

GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625) DEN-MS-0002 (8270C SIM)

Maint: Removed RtD column, replaced normal MS-5, New autotune, Changed septa, liner, oring, Trimmed 6" column 05-27-04

Instrument K 5973 MSD

IS: MSBNA 1377

Target Batch 052904.b

Lot # / Sample	W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
Rinse MH	—	—	0.5 µL	5/29/04	MH	K3362	NA	NA	NA		
DFTPP	BNA 1512	25 ng OC				63				Hit	
HSL_Test	↓ 1509	5 ng/µL				64				adj emv	
DFTPP	↓ 1512	25 ng OC				65				hit 2 8:25 ←	
HSL_0005	BNA 1489	5 ng				66	✓	NA		OK	
HSL_0010		10				67	✓			OK	
HSL_0020		20				68	✓			OK	
HSL_0050		50				69	✓			OK	
HSL_0080		80				70	✓			OK	
HSL_0120		120				71	✓			OK	
HSL_0160		160				72	✓			OK	
HSL_0200		200				73	✓			OK	
HSL_0100-SSV	BNA 1346	100				74	✓			OK	
MSV_0010	BNA 1402	10			CEH	75	✓			OK	
MSV_0020		20				76	✓			OK	
MSV_0050		50				77	✓			OK	
MSV_0080		80				78	✓			OK	
MSV_0120		120				79	✓			OK	
MSV_0160		160				80	✓			OK	
MSV_0200		200				81	✓			OK	
MSV_0100-SSV	BNA 1407	100	↓	↓	↓	82	✓	↓	↓	OK	44139
DYE15000-139	BLANK 1	100ml	100µL	✓	✓	↓ 83					

STL Denver

GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625) DEN-MS-0002 (8270C SIM) Instrument K

Maint: Removed RtD column, replaced normal MS-5, New autotune, Changed septa, liner, oring, Trimmed 6" column, 05-Sep-04 5973 MSD

Target Batch 052904,b MS: MSBNA 1377

Lot # / Sample		W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
Rinse	MH			0.5 mL	5/29/04	DKA	K3362	NA	NA	NA	Hit	
DFTPP		BNA 1512	25 ng OC				63					
HSL_Test		" 1509	5 ng/µL				64				adj emv	
DFTPP		" 1512	25 ng OC				65	↓	✓		Init @ 8:25 ←	
HSL_0005		BNA 1509	5 ng				66	✓	NA		OK	
HSL_0010			10				67	✓			OK	
HSL_0020			20				68	✓			OK	
HSL_0050			50				69	✓			OK	
HSL_0080			80				70	✓			OK	
HSL_0120			120				71	✓			OK	
HSL_0160			160				72	✓			OK	
HSL_0200		✓	200				73	✓			OK	
HSL_0100-SSV		BNA 1346	100			↓	74	✓			OK	
AHS_0010		BNA 1402	10			DKA	75	✓			OK	
AHS_0020			20				76	✓			OK	
AHS_0050			50				77	✓			OK	
AHS_0080			80				78	✓			OK	
AHS_0120			120				79	✓			OK	
AHS_0160			160				80	✓			OK	
AHS_0200		✓	200				81	✓			OK	
AHS_0100-SSV	✓	BNA 1417	100 ✓	✓		✓	82	✓	✓		OK	
BYE5000-139	BL	66058N	1mL	100mL	100%	✓	↓ 83			✓		4141139

STL Denver

GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625) DEN-MS-0002 (8270C SIM)

Maint. - replaced septa, liner & gold seal, clipped 1/3" column. Baked JMP 6/1/04

Instrument K

IS: MSBNA 1377 5973 MSD

Target Batch 060204.b

Lot # / Sample		W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
RINSE				0.5mL	6/2/04	JMP	K3464					
DFTPP	—	BNA1512	25ngs OC				K3465	N/A	N/A	N/A	hit @ 17:03	
HSL_0080	—	BNA1509	80ngs/mL	↓	↓		66	✓	✓	✓	OK	
AP9_0080	—	BNA1406	↓				67	✓	✓	✓	OK	
D4E240000-234	BLK	GGXHG1AA	1000mL	100%			68	✓	✓	✓	OK	4145234
↓	LCS	1AC	↓	↓			69	✓	✓	✓	OK	↓
↓	LCSD	1AD	↓	↓			70	✓	✓	✓	OK	4140117
D4E180414	006	GG6DW1AC	947mL	20x			71	✓	DIL OUT	✓	OK	SV=10mls
↓	007	GG6DX1AC	987mL	5x			72	✓	DIL OUT	✓	OK	↓
D4E210201	001	GGQQH1AQ	985mL	100%			73	✓	✓	✓	OK	4145234
↓	002	GGQQ61A3	986mL				74	✓	✓	✓	OK	
↓	003	GGQ3X1A3	1022mL				75	✓	✓	✓	OK	
↓	004	GGQ321A3	961mL				76	✓	✓	✓	OK	
D4E210241	001	GGKKW1AQ	998mL				77	✓	✓	✓	OK	
D4E210325	001	GGTEE1AC	990mL				78	✓	✓	✓	OK	
↓	002	GGTE31AC	978mL				79	✓	✓	✓	OK	
↓	003	GGTE61AC	1024mL				80	✓	✓	✓	OK	
↓	004	GGTE71AC	969mL				81	✓	✓	✓	OK	
↓	005	GGTPE1AC	1025mL				82	✓	✓	✓	OK	
↓	006	GGTPH1AC	1051mL		6/3/04		83	✓	✓	✓	OK	
↓	008	GGTFX1AC	1011mL				84	✓	✓	✓	OK	
↓	009	GGFF31AC	948mL	↓	↓	↓	85	✓	✓	✓	OK	↓

STL Denver

GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625) DEN-MS-0002 (8270C SIM) Instrument K

Target Batch 060204.6 Cont. IS: MSBNA 1377 5973 MSD

Lot # / Sample		W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
D4E210431	016	G6VD21AT	1055mL	100%	6/3/04	JMP	X3486	✓	3 ✓	✓		414523
	017	G6VD31AT	1049mL				87	✓	✓	✓	ave	
	018	G6VD41AT	1056mL				88	✓	✓	✓	ave	
D4E210434	002	G6VEL1AC	961mL				89	✓	✓	✓	ave	
	003	G6VEM1AC	974mL				90	✓	✓	✓	ave	
	004	G6VEP1AC	919mL				91	✓	✓	✓	ave	03:07 ←
RINSES				0.5mL			92-95					

JMP 6/3/04

GC/MS SEMIVOLATILE STANDARD DATA

SEVERN TRENT STL

GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: KOS2904,b

Check Method Used: Analysis ☑ 625 ☑ 8270 ☑ Other SV HSL (non-AFCEE)

☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration			B/b		
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Sufficient number of calibration points used?	✓			✓	
4. Reasons for removal of points documented?	✓			✓	some points removed below RL.
5. %RSD or correlation coefficient within method limits?	✓			✓	
6. If RRF used for ICAL, were all compounds within 15% RSD?	✓			✓	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Standards traceability properly documented?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	
12. ~~2nd source~~ ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	✓			✓	see below

>15% RSD Atrazine 81.6%

2nd Source Dibenz(a,h)anthracene 1
Aniline 60%
Atrazine 307%

1st Level Reviewer: MK Date: 05-31-04

2nd Level Reviewer: B/b Date: 6.1.04

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

Instrument: K.i

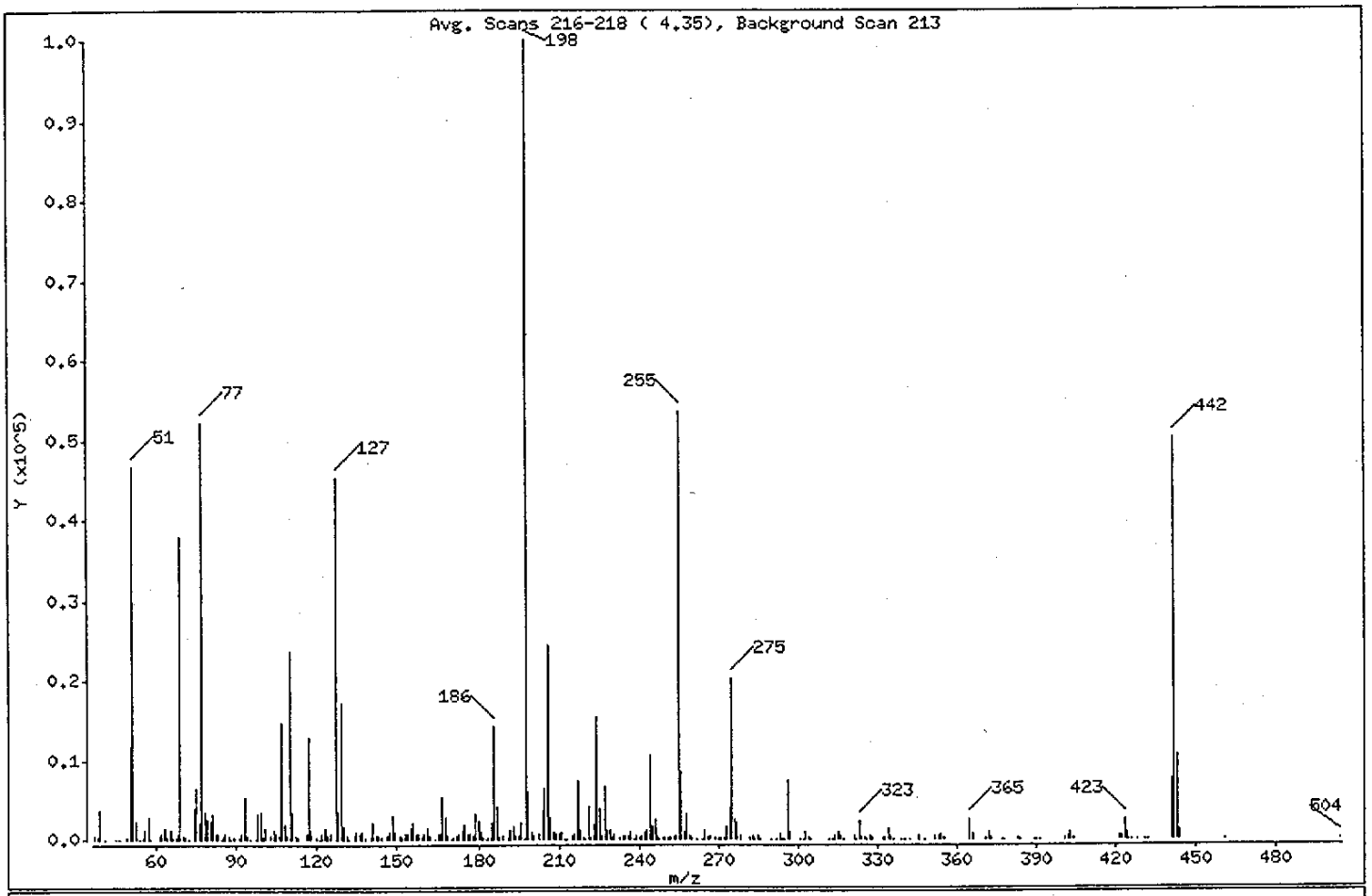
Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.64
68	Less than 2.00% of mass 69	0.71 (1.87)
69	Mass 69 relative abundance	37.86
70	Less than 2.00% of mass 69	0.39 (1.03)
127	40.00 - 60.00% of mass 198	45.32
197	Less than 1.00% of mass 198	0.04
199	5.00 - 9.00% of mass 198	6.06
275	10.00 - 30.00% of mass 198	20.14
365	Greater than 1.00% of mass 198	2.63
441	Present, but less than mass 443	7.57
442	40.00 - 100.00% of mass 198	50.07
443	17.00 - 23.00% of mass 442	10.61 (21.19)

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

Data File: k3365.d

Spectrum: Avg. Scans 216-218 (4.35), Background Scan 213

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	357	127.00	45368	207.00	2876	292.00	67
38.00	344	128.00	3408	208.00	839	293.00	617
39.00	3651	129.00	17208	209.00	640	294.00	65
41.00	115	130.00	1713	210.00	651	295.00	66
45.00	65	131.00	407	211.00	1025	296.00	7465
46.00	51	132.00	16	212.00	101	297.00	939
49.00	128	134.00	530	213.00	103	301.00	54
50.00	11666	135.00	858	215.00	359	302.00	92
51.00	46680	136.00	799	216.00	775	303.00	983
52.00	2241	137.00	889	217.00	7434	304.00	323
54.00	56	138.00	214	218.00	1056	305.00	52
55.00	153	140.00	323	219.00	152	312.00	55
56.00	1118	141.00	2028	220.00	67	313.00	57
57.00	2767	142.00	568	221.00	4065	314.00	448
58.00	35	143.00	460	222.00	217	315.00	1009
61.00	521	144.00	140	223.00	1772	316.00	547
62.00	630	146.00	402	224.00	15422	317.00	68
63.00	1373	147.00	870	225.00	3861	321.00	372
64.00	212	148.00	2998	226.00	519	322.00	95
65.00	1165	149.00	807	227.00	6635	323.00	2219
66.00	195	151.00	398	228.00	1102	324.00	309
67.00	127	152.00	167	229.00	1218	325.00	135
68.00	707	153.00	633	230.00	253	326.00	50
69.00	37896	154.00	576	231.00	667	327.00	471
70.00	389	155.00	1375	233.00	142	328.00	322
71.00	185	156.00	2113	234.00	378	332.00	155
72.00	73	157.00	647	235.00	498	333.00	253
74.00	3866	158.00	684	236.00	388	334.00	1314
75.00	6449	159.00	128	237.00	936	335.00	486
76.00	2074	160.00	756	238.00	79	336.00	63
77.00	52216	161.00	1428	239.00	436	339.00	54
78.00	3454	162.00	390	240.00	186	340.00	87
79.00	2633	164.00	53	241.00	418	342.00	86
80.00	2274	165.00	582	242.00	825	346.00	539
81.00	3213	166.00	767	243.00	1038	348.00	63

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

Data File: k3365.d
Spectrum: Avg. Scans 216-218 (4.35), Background Scan 213
Location of Maximum: 198.00
Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	686	167.00	5393	244.00	10693	352.00	498
83.00	681	168.00	2748	245.00	1533	353.00	457
84.00	113	169.00	536	246.00	2467	354.00	624
85.00	473	170.00	89	247.00	374	355.00	291
86.00	760	171.00	235	248.00	60	365.00	2628
87.00	458	172.00	558	249.00	204	366.00	577
88.00	107	173.00	741	250.00	122	371.00	173
89.00	179	174.00	1085	251.00	171	372.00	1024
91.00	336	175.00	1805	252.00	157	373.00	290
92.00	788	176.00	643	253.00	295	377.00	53
93.00	5402	177.00	682	254.00	380	378.00	78
94.00	503	178.00	393	255.00	53520	383.00	279
95.00	25	179.00	3207	256.00	8448	384.00	76
97.00	99	180.00	2394	257.00	906	389.00	63
98.00	3317	181.00	926	258.00	3299	390.00	96
99.00	3401	182.00	299	259.00	498	391.00	74
100.00	230	183.00	72	260.00	145	401.00	168
101.00	1364	184.00	193	262.00	60	402.00	432
103.00	575	185.00	2122	264.00	6	403.00	851
104.00	1039	186.00	14214	265.00	1247	404.00	188
105.00	684	187.00	4128	266.00	313	421.00	455
106.00	346	188.00	320	267.00	450	422.00	513
107.00	14768	189.00	421	269.00	174	423.00	2586
108.00	1940	191.00	298	270.00	243	424.00	856
109.00	385	192.00	1215	271.00	174	425.00	81
110.00	23712	193.00	1532	272.00	157	426.00	66
111.00	3547	194.00	442	273.00	1594	428.00	50
112.00	520	195.00	410	274.00	3842	431.00	65
113.00	167	196.00	2159	275.00	20152	432.00	57
116.00	794	197.00	41	276.00	2586	441.00	7582
117.00	12817	198.00	100104	277.00	1990	442.00	50120
118.00	1046	199.00	6068	278.00	354	443.00	10620
120.00	129	200.00	869	282.00	198	444.00	1148
121.00	96	201.00	569	283.00	503	461.00	51
122.00	580	203.00	677	284.00	104	504.00	67

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

Data File: k3365.d

Spectrum: Avg. Scans 216-218 (4.35), Background Scan 213

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	1353	204.00	3760	285.00	533		
124.00	571	205.00	6526	286.00	69		
125.00	620	206.00	24320	290.00	51		

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

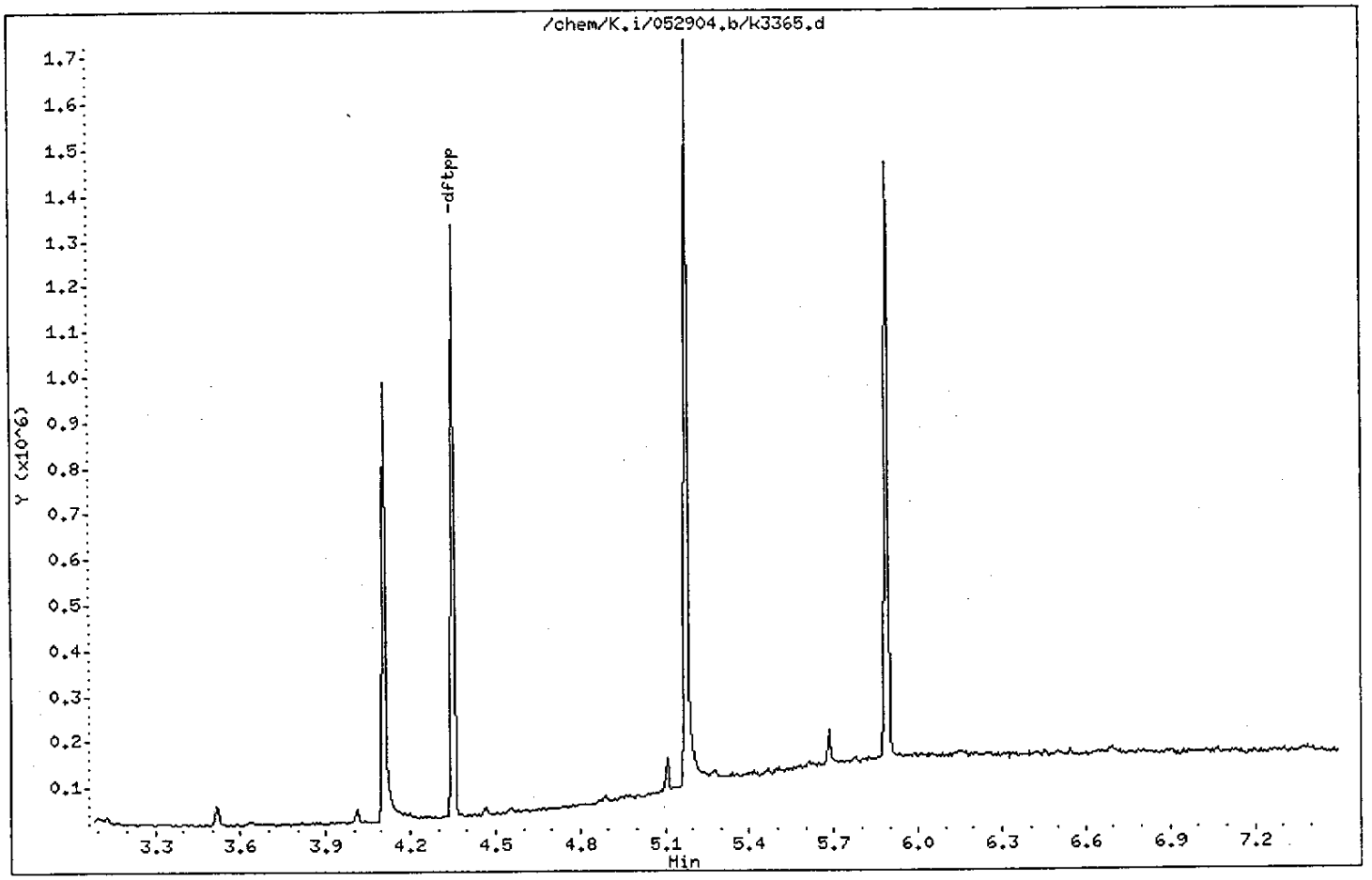
Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25



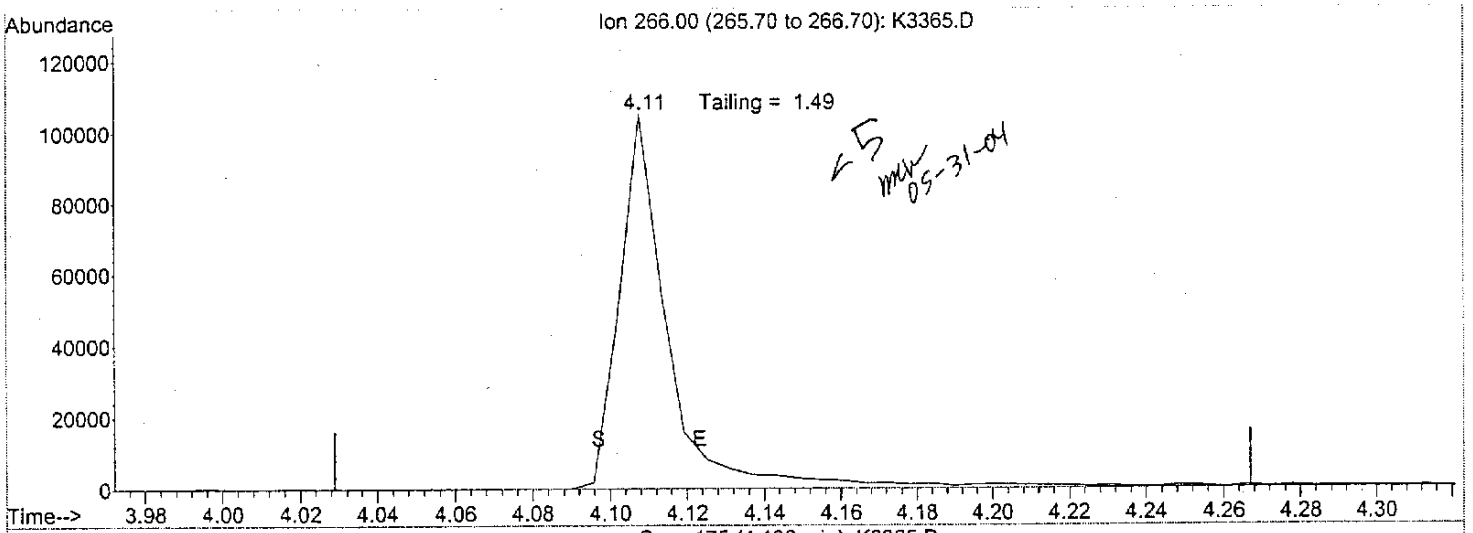
Quantitation Report (Qedit)

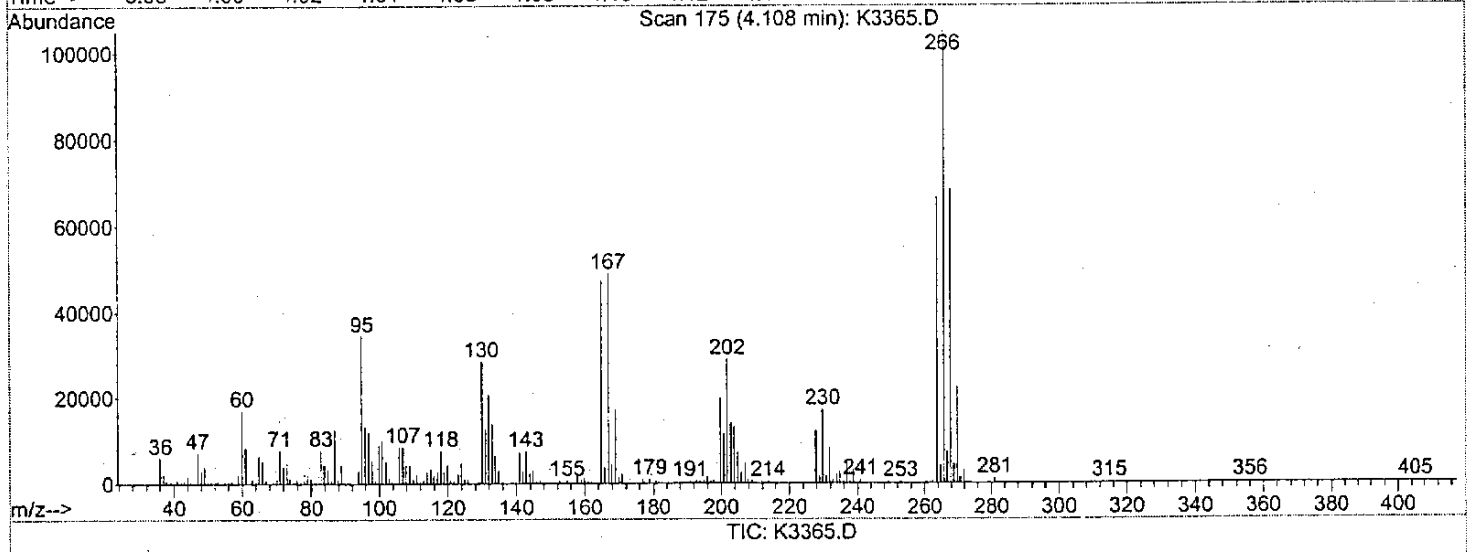
Data File : D:\DATA\052904.B\K3365.D
Acq On : 29 May 2004 8:25 am
Sample : DFTPP,BNA1512,P:041904,E:041905
Misc :
MS Integration Params: events.e
Quant Time: May 31 15:03 2004

Vial: 2
Operator: kiddd
Inst : Instrumen
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3365.D

(1) Pentachlorophenol

4.11min 0.00

response 881321

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

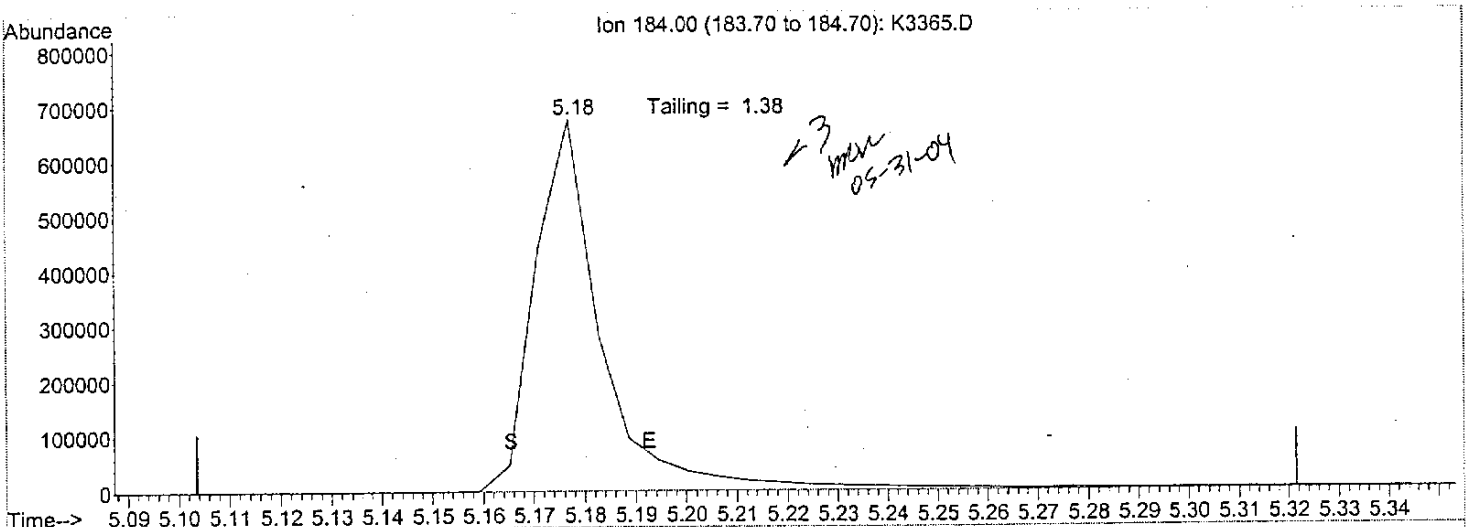
Quantitation Report (Qedit)

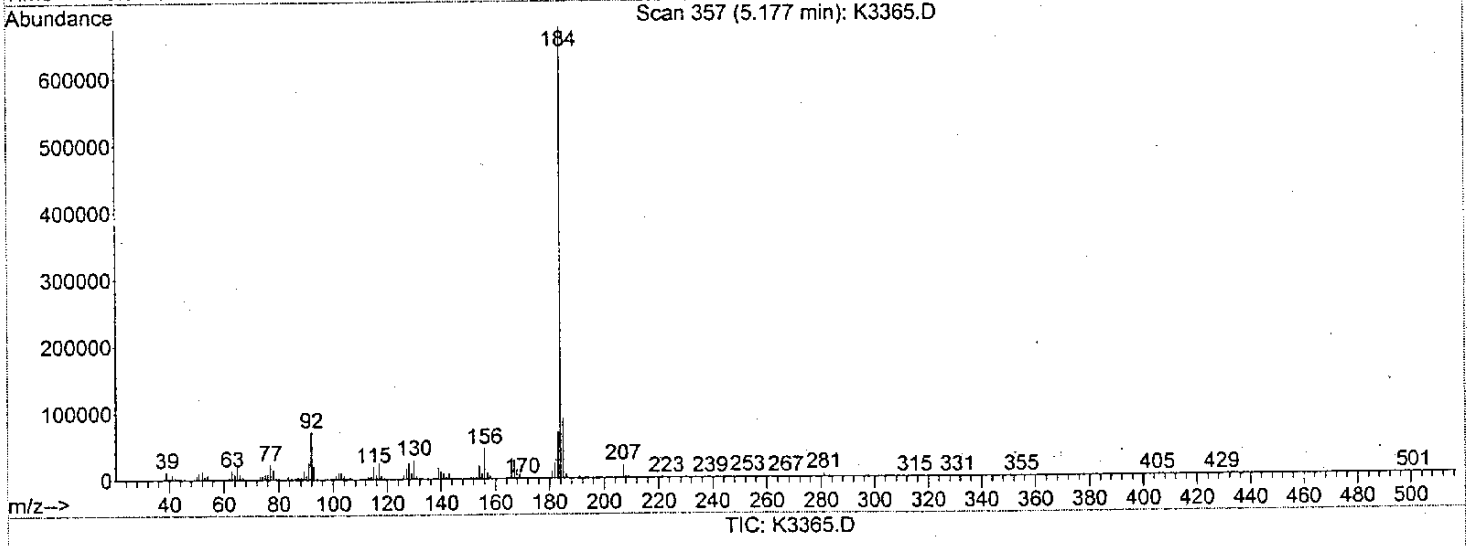
Data File : D:\DATA\052904.B\K3365.D
Acq On : 29 May 2004 8:25 am
Sample : DFTPP,BNA1512,P:041904,E:041905
Misc :
MS Integration Params: events.e
Quant Time: May 31 15:03 2004

Vial: 2
Operator: kiddd
Inst : Instrumen
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3365.D

(3) Benzidine

5.18min 0.00

response 6095163

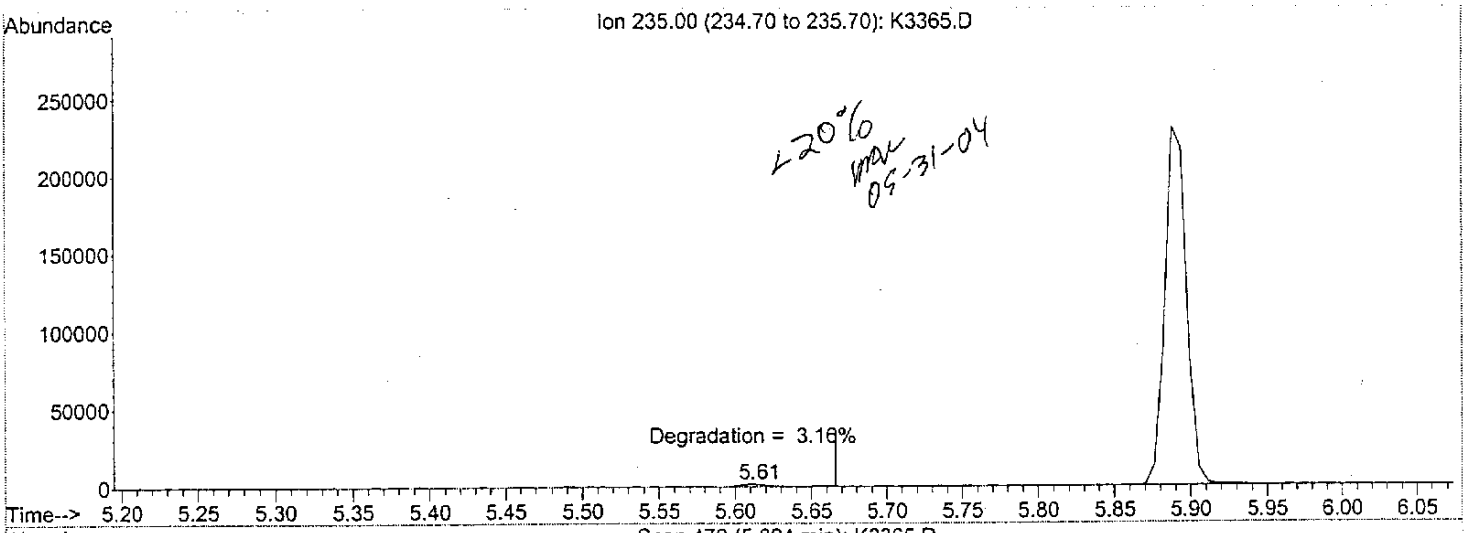
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

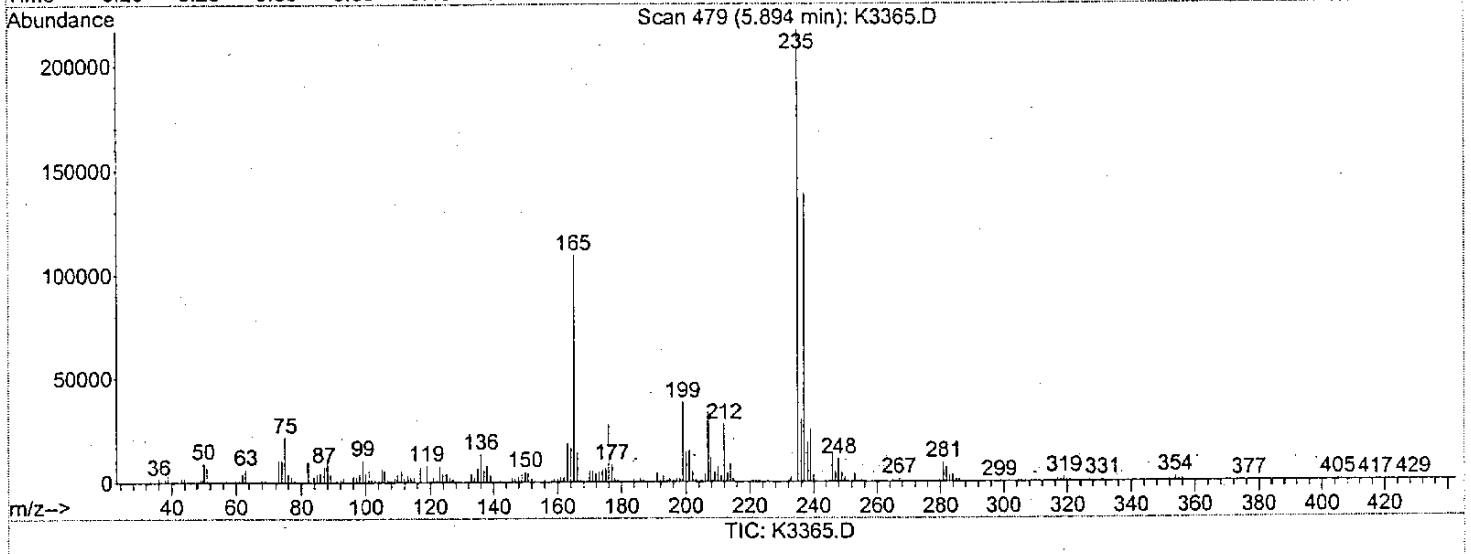
Data File : D:\DATA\052904.B\K3365.D
Acq On : 29 May 2004 8:25 am
Sample : DFTPP,BNA1512,P:041904,E:041905
Misc :
MS Integration Params: events.e
Quant Time: May 31 15:03 2004

Vial: 2
Operator: kiddd
Inst : Instrumen
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration



<20% MAR 05-31-04



TIC: K3365.D

(4) DDT

5.89min 0.00

response 2262503

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Report Date: 31-May-2004 17:01

Calibration History

Method : /chem/K.i/052904.b/8270C.m
Start Cal Date: 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
29-MAY-2004 08:39	1-HSL	/chem/K.i/052904.b/k3366.d
Cal Level: 2 , Cal Amount: 10.00000		
29-MAY-2004 12:13	2-AP9std	/chem/K.i/052904.b/k3375.d
29-MAY-2004 09:03	1-HSL	/chem/K.i/052904.b/k3367.d
Cal Level: 3 , Cal Amount: 20.00000		
29-MAY-2004 12:37	2-AP9std	/chem/K.i/052904.b/k3376.d
29-MAY-2004 09:26	1-HSL	/chem/K.i/052904.b/k3368.d
Cal Level: 4 , Cal Amount: 50.00000		
29-MAY-2004 13:00	2-AP9std	/chem/K.i/052904.b/k3377.d
29-MAY-2004 09:50	1-HSL	/chem/K.i/052904.b/k3369.d
Cal Level: 5 , Cal Amount: 80.00000		
29-MAY-2004 13:24	2-AP9std	/chem/K.i/052904.b/k3378.d
29-MAY-2004 10:14	1-HSL	/chem/K.i/052904.b/k3370.d
Cal Level: 6 , Cal Amount: 120.00000		
29-MAY-2004 13:48	2-AP9std	/chem/K.i/052904.b/k3379.d
29-MAY-2004 10:38	1-HSL	/chem/K.i/052904.b/k3371.d
Cal Level: 7 , Cal Amount: 160.00000		
29-MAY-2004 14:12	2-AP9std	/chem/K.i/052904.b/k3380.d
29-MAY-2004 11:01	1-HSL	/chem/K.i/052904.b/k3372.d
Cal Level: 8 , Cal Amount: 200.00000		
29-MAY-2004 14:36	2-AP9std	/chem/K.i/052904.b/k3381.d
29-MAY-2004 11:25	1-HSL	/chem/K.i/052904.b/k3373.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 13:24	2-AP9std	/chem/K.i/052904.b/k3378.d
Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 10:14	1-HSL	/chem/K.i/052904.b/k3370.d

Report Date : 31-May-2004 14:26

STL-Denver

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 11:25
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Calibration File Names:
Level 1: /chem/K.i/052904.b/k3366.d
Level 2: /chem/K.i/052904.b/k3367.d
Level 3: /chem/K.i/052904.b/k3368.d
Level 4: /chem/K.i/052904.b/k3369.d
Level 5: /chem/K.i/052904.b/k3370.d
Level 6: /chem/K.i/052904.b/k3371.d
Level 7: /chem/K.i/052904.b/k3372.d
Level 8: /chem/K.i/052904.b/k3373.d

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
5 Pyridine	+++++	1.55679	1.70683	1.65861	1.62894	1.49487					
	1.49458	1.47129					AVRG		1.57313		5.87386
4 N-Nitrosodimethylamine	+++++	0.99147	1.04996	1.02666	0.96742	0.94997					
	0.96016	0.94950					AVRG		0.98502		4.02081
16 Aniline	+++++	87319	185467	337309	474972	573451					
	654887	650513					QUAD	0.26612	-0.01600	0.19546	0.99319
15 Phenol	+++++	1.91150	1.90473	1.78666	1.63422	1.54422					
	1.48051	1.49594					AVRG		1.67968		11.12947
18 Bis(2-chloroethyl) ether	+++++	93703	175004	336354	516592	597031					
	810150	979169					LINR	-0.20882	1.36747		0.99260

STL-Denver

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 11:25
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160 Level 7	200 Level 8									
20 2-Chlorophenol	+++++	1.51391	1.45517	1.33273	1.19601	1.13998					
	1.09301	1.07477					AVRG		1.25794		14.09100
21 1,3-Dichlorobenzene	+++++	1.74014	1.67356	1.52092	1.38049	1.35018					
	1.33759	1.33953					AVRG		1.47749		11.51069
23 1,4-Dichlorobenzene	+++++	1.78739	1.73391	1.53129	1.39871	1.34146					
	1.36149	1.36925					AVRG		1.50336		12.44078
24 Benzyl alcohol	+++++	0.82480	0.90581	0.91045	0.89172	0.84778					
	0.85331	0.83209					AVRG		0.86657		4.09670
25 1,2-Dichlorobenzene	+++++	1.70953	1.59420	1.39939	1.26528	1.20476					
	1.20450	1.20245					AVRG		1.36859		15.21399
26 2-Methylphenol	+++++	1.41644	1.45945	1.35656	1.22773	1.16567					
	1.14721	1.15850					AVRG		1.27594		10.35620
27 1H-Indene	+++++	2.72851	2.60886	2.31105	2.08583	1.98364					
	1.94544	1.96408					AVRG		2.23249		14.53469
28 2,2'-oxybis(1-chloropropane)	+++++	121150	247656	463323	695390	867321					
	1066676	1179996					QUAD	-0.06445	0.38247	0.02245	0.99954
29 4-Methylphenol	+++++	1.38195	1.54011	1.31876	1.26328	1.23132					
	1.26085	1.24437					AVRG		1.32009		8.33218

Report Date : 31-May-2004 14:26

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 11:25
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
30 N-nitrosodi-n-propylamine	+++++	1.12987	1.09720	0.99733	0.91299	0.88346					
	0.85999	0.86451					AVRG		0.96362		11.69276
32 Acetophenone	+++++	2.16026	2.12931	1.89241	1.70952	1.63862					
	1.64117	1.60821					AVRG		1.82564		13.00861
33 Hexachloroethane	0.74849	0.71499	0.72388	0.66066	0.60013	0.58667					
	0.59016	0.58482					AVRG		0.65123		10.67217
37 Nitrobenzene	+++++	1.83151	1.84229	1.69134	1.61398	1.53478					
	1.53885	1.49120					AVRG		1.64914		8.70917
40 Isophorone	+++++	0.77593	0.80784	0.75090	0.72659	0.70042					
	0.68999	0.67913					AVRG		0.73297		6.49992
41 2-Nitrophenol	+++++	0.18060	0.18770	0.17370	0.15680	0.15394					
	0.15022	0.15098					AVRG		0.16485		9.39329
42 2,4-Dimethylphenol	+++++	0.37896	0.37535	0.33506	0.31036	0.29854					
	0.30024	0.30954					AVRG		0.32972		10.47531
43 Bis(2-chloroethoxy)methane	+++++	0.48773	0.49206	0.43316	0.40699	0.39081					
	0.38676	0.37253					AVRG		0.42429		11.46715
45 Benzoic acid	+++++	+++++	+++++	0.18713	0.20894	0.21773					
	0.22159	0.22320					AVRG		0.21172		6.99597

Report Date : 31-May-2004 14:26

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INITIAL CALIBRATION DATA

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Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160 Level 7	200 Level 8									
46 2,4-Dichlorophenol	+++++	0.29188	0.32348	0.29373	0.28757	0.27993					
	0.27785	0.26966					AVRG		0.28916		5.99378
47 1,2,4-Trichlorobenzene	+++++	0.36618	0.35063	0.31887	0.30060	0.28954					
	0.28923	0.28791					AVRG		0.31471		10.17835
50 Naphthalene	+++++	1.13506	1.11042	0.96579	0.92067	0.89328					
	0.87913	0.86715					AVRG		0.96736		11.48689
51 4-Chloroaniline	+++++	0.40520	0.42390	0.40129	0.37327	0.35463					
	0.34613	0.33760					AVRG		0.37743		8.78939
52 Hexachlorobutadiene	+++++	0.22899	0.21942	0.20267	0.19856	0.19530					
	0.19198	0.19514					AVRG		0.20458		6.88467
59 4-Chloro-3-methylphenol	+++++	0.30536	0.33010	0.30871	0.30714	0.29693					
	0.29669	0.28609					AVRG		0.30443		4.52345
62 2-Methylnaphthalene	+++++	0.64394	0.65941	0.59575	0.56251	0.54342					
	0.53913	0.53891					AVRG		0.58330		8.73298
64 1-Methylnaphthalene	+++++	0.70161	0.67474	0.59246	0.56636	0.54477					
	0.54749	0.54096					AVRG		0.59548		11.10718
63 Hexachlorocyclopentadiene	+++++	0.28832	0.34146	0.37157	0.36646	0.38021					
	0.38879	0.39087					AVRG		0.36110		10.00965

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
67 2,4,6-Trichlorophenol	+++++	0.37498	0.37908	0.36723	0.35892	0.34952					
	0.34637	0.34955					AVRG		0.36081		3.65235
68 2,4,5-Trichlorophenol	+++++	0.40464	0.42949	0.39850	0.38863	0.37510					
	0.38892	0.37846					AVRG		0.39482		4.67164
71 2-Chloronaphthalene	+++++	1.19020	1.15851	1.05722	0.97580	0.95679					
	0.94698	0.93426					AVRG		1.03139		10.26555
74 2-Nitroaniline	+++++	0.40513	0.44539	0.43967	0.41849	0.41232					
	0.39625	0.38644					AVRG		0.41481		5.22225
76 Dimethyl phthalate	+++++	1.21115	1.25297	1.14326	1.07834	1.07666					
	1.05508	1.03976					AVRG		1.12246		7.34270
79 2,6-Dinitrotoluene	+++++	0.24282	0.26263	0.25731	0.24578	0.23848					
	0.23958	0.22871					AVRG		0.24504		4.72660
81 Acenaphthylene	+++++	1.84443	1.81336	1.65901	1.54564	1.53172					
	1.54347	1.53424					AVRG		1.63884		8.38595
82 3-Nitroaniline	+++++	+++++	0.30845	0.30169	0.29454	0.28516					
	0.26854	0.26748					AVRG		0.28764		5.93159
84 Acenaphthene	+++++	1.04656	1.03125	0.94016	0.89436	0.88582					
	0.89580	0.92056					AVRG		0.94493		7.08074

Report Date : 31-May-2004 14:26

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
85 2,4-Dinitrophenol	+++++	+++++	16548	61946	124109	179119					
	246098	281085					WLINR	0.28217	0.19855		0.99902
86 4-Nitrophenol	+++++	+++++	0.20683	0.24180	0.26029	0.26291					
	0.26843	0.26409					AVRG		0.25073		9.33365
87 2,4-Dinitrotoluene	+++++	0.31150	0.35379	0.34983	0.33201	0.31561					
	0.31288	0.30497					AVRG		0.32580		6.02109
88 Dibenzofuran	+++++	1.53399	1.51972	1.39180	1.29092	1.26509					
	1.27906	1.27610					AVRG		1.36524		8.66522
93 Diethyl phthalate	+++++	1.17094	1.23180	1.16198	1.07979	1.06613					
	1.07357	1.06176					AVRG		1.12085		5.97577
95 4-Chlorophenyl phenyl ether	+++++	0.64700	0.66707	0.61117	0.57250	0.57207					
	0.58205	0.58705					AVRG		0.60556		6.26727
96 Fluorene	+++++	1.28180	1.28607	1.18167	1.10119	1.09549					
	1.10684	1.14065					AVRG		1.17053		7.08301
97 4-Nitroaniline	+++++	+++++	0.29272	0.30944	0.29057	0.28251					
	0.27296	0.25349					AVRG		0.28361		6.72771
99 4,6-Dinitro-2-methylphenol	+++++	+++++	0.21046	0.23072	0.23418	0.23139					
	0.23695	0.24023					AVRG		0.23065		4.55591

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Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
101 N-nitrosodiphenylamine	+++++	0.90752	0.90174	0.82833	0.78467	0.74538					
	0.77234	0.76638					AVRG		0.81519		8.10795
102 Azobenzene	+++++	1.42630	1.48519	1.41429	1.33076	1.28726					
	1.24741	1.20955					AVRG		1.34296		7.59629
108 4-Bromophenyl phenyl ether	+++++	0.19574	0.19612	0.17653	0.17018	0.17281					
	0.17481	0.17812					AVRG		0.18062		5.96120
110 Hexachlorobenzene	+++++	0.20445	0.20446	0.18116	0.17469	0.18789					
	0.19474	0.19922					AVRG		0.19237		6.01375
113 Pentachlorophenol	+++++	+++++	0.10026	0.10890	0.11382	0.12170					
	0.12526	0.12432					AVRG		0.11571		8.55344
118 Phenanthrene	+++++	1.05077	1.01563	0.89885	0.85037	0.86468					
	0.87357	0.90067					AVRG		0.92208		8.52819
122 Anthracene	+++++	1.08304	1.06997	0.90055	0.85541	0.87495					
	0.87878	0.91958					AVRG		0.94033		10.13187
123 Carbazole	+++++	0.96404	0.94333	0.81482	0.76605	0.75716					
	0.74509	0.75355					AVRG		0.82058		11.43968
125 Di-n-butyl phthalate	+++++	1.05361	1.08063	0.97518	0.90986	0.93092					
	0.91360	0.91708					AVRG		0.96870		7.34436

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Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
130 Fluoranthene	+++++	1.18046	1.16591	1.04505	0.99211	1.02339					
	1.04587	1.05993					AVRG		1.07324		6.68351
131 Benzidine	+++++	+++++	63234	105904	171611	227861					
	308364	319500					WLINR	-0.31963	0.10871		0.99542
132 Pyrene	+++++	1.23109	1.17904	1.09205	1.05344	1.05113					
	1.08432	1.08158					AVRG		1.11038		6.13934
137 Butyl benzyl phthalate	+++++	0.48174	0.49211	0.45449	0.43066	0.42359					
	0.41426	0.40597					AVRG		0.44326		7.57848
140 3 3'-Dichlorobenzidine	+++++	0.38138	0.37534	0.37501	0.37145	0.38159					
	0.38754	0.39867					AVRG		0.38157		2.42171
141 Benzo(a)anthracene	+++++	1.06523	1.05459	0.98052	1.01085	1.01131					
	1.06713	1.06295					AVRG		1.03608		3.34727
144 Chrysene	+++++	1.05777	1.00373	0.94910	0.95496	0.94690					
	0.99276	1.00786					AVRG		0.98758		4.09739
143 Bis(2-ethylhexyl) phthalate	0.63013	0.64416	0.63904	0.61882	0.59196	0.58225					
	0.58313	0.56523					AVRG		0.60684		4.91856
146 Di-n-octyl phthalate	+++++	1.08841	1.09371	1.06380	1.03697	1.04905					
	1.03848	1.02604					AVRG		1.05664		2.48764

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Cal Date : 31-May-2004 14:26 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
147 Benzo(b)fluoranthene	+++++	1.08935	1.03884	1.03279	1.09461	1.18880					
	1.22601	1.28701					AVRG		1.13677		8.62436
148 Benzo(k)fluoranthene	+++++	1.23641	1.32581	1.26271	1.13199	1.23085					
	1.31575	1.35547					AVRG		1.26557		5.96010
150 Benzo(a)pyrene	+++++	0.99861	1.03184	1.01430	0.98600	1.06213					
	1.08808	1.11429					AVRG		1.04218		4.57545
155 Indeno(1,2,3-cd)pyrene	+++++	1.05736	1.10777	1.08730	1.09574	1.19300					
	1.25925	1.31084					AVRG		1.15875		8.36414
156 Dibenz(a,h)anthracene	+++++	0.91029	0.90749	0.89386	0.92387	1.01958					
	1.06970	1.11177					AVRG		0.97665		9.11847
157 Benzo(g,h,i)perylene	+++++	0.96561	0.99989	0.95624	0.90844	0.97735					
	1.01618	1.05830					AVRG		0.98314		4.85424
168 Methyl Styrene	+++++	1.70788	1.69320	1.47579	1.32990	1.26210					
	1.26657	1.28733					AVRG		1.43182		13.78781
202 Alachlor	+++++	0.14181	0.13975	0.12568	0.11583	0.11837					
	0.11892	0.11966					AVRG		0.12572		8.53466
204 Atrazine	+++++	0.03763	0.03320	0.02486	0.01431	0.00677					
	0.00401	0.00246					AVRG		0.01761		81.63052

<- narrate

Report Date : 31-May-2004 14:26

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Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
205 Caprolactam	+++++	0.12467	0.17108	0.17995	0.18535	0.18846					
	0.19111	0.17605					AVRG		0.17381		13.10340
207 2,3-Dichlorobenzeneamine	+++++	0.66317	0.63624	0.57885	0.53998	0.51274					
	0.49909	0.48748					AVRG		0.55965		12.29638
206 Decane	+++++	90419	180655	353239	532393	691723					
	856199	953119					LINR	-0.28765	1.38030		0.99526
213 n-Dodecane	+++++	80339	171661	323278	497211	641947					
	797428	901546					QUAD	-0.02037	1.09799	0.22705	0.99982
210 Tetradecane	+++++	74196	152826	278670	417034	516003					
	621714	701696					QUAD	-0.01034	1.08590	0.52476	0.99950
209 Hexadecane	+++++	87751	185859	347764	541073	701965					
	881323	1011851					QUAD	-0.05527	1.11959	0.14110	0.99971
208 n-Octadecane	+++++	35456	75070	140116	220567	290737					
	366232	433682					LINR	-0.27266	0.13851		0.99707
211 n-Eicosane	+++++	0.63908	0.68537	0.62059	0.58982	0.55590					
	0.51186	0.48895					AVRG		0.58451		12.03875
212 n-Docosane	+++++	0.51754	0.54995	0.50597	0.48002	0.45871					
	0.43343	0.40638					AVRG		0.47886		10.44469

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Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160 Level 7	200 Level 8									
$ 36 Nitrobenzene-d5	+++++	1.73317	1.74655	1.62644	1.54021	1.52976					
	1.52868	1.51779					AVRG		1.60323		6.24740
$ 70 2-Fluorobiphenyl	+++++	1.39744	1.32608	1.16313	1.07513	1.10155					
	1.18303	1.24747					AVRG		1.21340		9.68174
$ 133 Terphenyl-d14	+++++	0.72374	0.69257	0.62889	0.63454	0.66149					
	0.67928	0.70501					AVRG		0.67507		5.25431
$ 10 2-Fluorophenol	+++++	1.31695	1.42021	1.42510	1.31997	1.26775					
	1.23700	1.21701					AVRG		1.31486		6.29751
$ 14 Phenol-d5	+++++	1.92950	1.90219	1.76701	1.62140	1.47003					
	1.47652	1.44888					AVRG		1.65936		12.50992
$ 103 2,4,6-Tribromophenol	+++++	0.08128	0.08703	0.07797	0.08308	0.08938					
	0.09927	0.10294					AVRG		0.08871		10.49150
$ 163 1,2-Dichlorobenzene-d4	+++++	0.96097	0.95894	0.84431	0.76179	0.73389					
	0.73204	0.74248					AVRG		0.81920		12.63810
$ 162 2-Chlorophenol-d4	+++++	1.47422	1.41829	1.26889	1.13953	1.08374					
	1.06586	1.07289					AVRG		1.21763		14.09513

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Cal Date : 31-May-2004 14:26 kiddd

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

INITIAL CALIBRATION REPORT

Instrument ID: K.i
Lab File ID: k3373.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 11:25
Lab Sample ID: HSL 0200
Method File: /chem/K.i/052904.b/8270C.m

COMPOUND	%RSD
N-Nitrosodimethylamine	4.0
Pyridine	5.9
2-Fluorophenol	6.3
Phenol-d5	12.5
Phenol	11.1
Aniline	28.5
Methyl Styrene	13.8
Bis(2-chloroethyl) ether	18.8
Decane	15.8
2-Chlorophenol-d4	14.1
2-Chlorophenol	14.1
1,3-Dichlorobenzene	11.5
1,4-Dichlorobenzene	12.4
Benzyl alcohol	4.1
1,2-Dichlorobenzene-d4	12.6
1,2-Dichlorobenzene	15.2
2-Methylphenol	10.4
2,2'-oxybis(1-chloropropane)	19.5
1H-Indene	14.5
4-Methylphenol	8.3
Acetophenone	13.0
N-nitrosodi-n-propylamine	11.7
Hexachloroethane	10.7
Nitrobenzene-d5	6.2
Nitrobenzene	8.7
Isophorone	6.5
2,4-Dimethylphenol	10.5
2-Nitrophenol	9.4
Bis(2-chloroethoxy)methane	11.5
Benzoic acid	7.0
2,4-Dichlorophenol	6.0
n-Dodecane	17.2
1,2,4-Trichlorobenzene	10.2
Naphthalene	11.5
4-Chloroaniline	8.8
Hexachlorobutadiene	6.9
Caprolactam	13.1
4-Chloro-3-methylphenol	4.5
2-Methylnaphthalene	8.7

Aniline — Quad mk 05-31-04
~~Wt 1/x~~ Linear
Decane — ~~Wt 1/x~~ Linear mk 05-31-04
2,2'-oxybis(1-chloropropane) — Quad
n-Dodecane — Quad

INITIAL CALIBRATION REPORT

Instrument ID: K.i
Lab File ID: k3373.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 11:25
Lab Sample ID: HSL 0200
Method File: /chem/K.i/052904.b/8270C.m

COMPOUND	%RSD	
1-Methylnaphthalene	11.1	
Hexachlorocyclopentadiene	10.0	
2,4,6-Trichlorophenol	3.7	
2,3-Dichlorobenzeneamine	12.3	
2,4,5-Trichlorophenol	4.7	
2-Fluorobiphenyl	9.7	
Tetradecane	23.7	— Quad
2-Chloronaphthalene	10.3	
2-Nitroaniline	5.2	
Dimethyl phthalate	7.3	
2,6-Dinitrotoluene	4.7	
Acenaphthylene	8.4	
3-Nitroaniline	5.9	
Acenaphthene	7.1	
2,4-Dinitrophenol	23.9	— WL $1/x^2$
4-Nitrophenol	9.3	
Dibenzofuran	8.7	
2,4-Dinitrotoluene	6.0	
Hexadecane	16.3	— Quad
Diethyl phthalate	6.0	
4-Chlorophenyl phenyl ether	6.3	
Fluorene	7.1	
4-Nitroaniline	6.7	
4,6-Dinitro-2-methylphenol	4.6	
N-nitrosodiphenylamine	8.1	
Azobenzene	7.6	
2,4,6-Tribromophenol	10.5	
4-Bromophenyl phenyl ether	6.0	
Atrazine	81.6	— narrate
Hexachlorobenzene	6.0	
n-Octadecane	17.2	— Linear
Pentachlorophenol	8.6	
Phenanthrene	8.5	
Anthracene	10.1	
Carbazole	11.4	
Alachlor	8.5	
Di-n-butyl phthalate	7.3	
n-Eicosane	12.0	
Fluoranthene	6.7	

INITIAL CALIBRATION REPORT

Instrument ID: K.i
Lab File ID: k3373.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 11:25
Lab Sample ID: HSL 0200
Method File: /chem/K.i/052904.b/8270C.m

COMPOUND	%RSD
n-docosane	10.4
Benzidine	18.6
Pyrene	6.1
Terphenyl-d14	5.3
Butyl benzyl phthalate	7.6
Bis(2-ethylhexyl) phthalate	4.9
3 3'-Dichlorobenzidine	2.4
Benzo(a)anthracene	3.3
Chrysene	4.1
Di-n-octyl phthalate	2.5
Benzo(b)fluoranthene	8.6
Benzo(k)fluoranthene	6.0
Benzo(a)pyrene	4.6
Dibenz(a,h)anthracene	9.1
Indeno(1,2,3-cd)pyrene	8.4
Benzo(g,h,i)perylene	4.9

$-WL^{1/k^2}$

✓

The average of all %RSD's in the initial calibration is 10.3

STL-Denver

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 13:02 kiddd
Curve Type : Average

Calibration File Names:
Level 1: /chem/K.i/052904.b/k3366.d
Level 2: /chem/K.i/052904.b/k3367.d
Level 3: /chem/K.i/052904.b/k3368.d
Level 4: /chem/K.i/052904.b/k3369.d
Level 5: /chem/K.i/052904.b/k3370.d
Level 6: /chem/K.i/052904.b/k3371.d
Level 7: /chem/K.i/052904.b/k3372.d
Level 8: /chem/K.i/052904.b/k3373.d

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
5 Pyridine	+++++	1.55679	1.70683	1.65861	1.62894	1.49487		
	1.49458	1.47129					1.57313	5.874
4 N-Nitrosodimethylamine	+++++	0.99147	1.04996	1.02666	0.96742	0.94997		
	0.96016	0.94950					0.98502	4.021
16 Aniline	+++++	2.04836	2.07119	1.77616	1.47618	1.28966		
	1.13416	0.96816					1.53770	28.530
15 Phenol	+++++	1.91150	1.90473	1.78666	1.63422	1.54422		
	1.48051	1.49594					1.67968	11.129
18 Bis(2-chloroethyl) ether	+++++	2.19812	1.95435	1.77113	1.60553	1.34269		
	1.40305	1.45730					1.67602	18.829
20 2-Chlorophenol	+++++	1.51391	1.45517	1.33273	1.19601	1.13998		
	1.09301	1.07477					1.25794	14.091
21 1,3-Dichlorobenzene	+++++	1.74014	1.67356	1.52092	1.38049	1.35018		
	1.33759	1.33953					1.47749	11.511

STL-Denver

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Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 13:02 kiddd
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
23 1,4-Dichlorobenzene	+++++	1.78739	1.73391	1.53129	1.39871	1.34146		
	1.36149	1.36925					1.50336	12.441
24 Benzyl alcohol	+++++	0.82480	0.90581	0.91045	0.89172	0.84778		
	0.85331	0.83209					0.86657	4.097
25 1,2-Dichlorobenzene	+++++	1.70953	1.59420	1.39939	1.26528	1.20476		
	1.20450	1.20245					1.36859	15.214
26 2-Methylphenol	+++++	1.41644	1.45945	1.35656	1.22773	1.16567		
	1.14721	1.15850					1.27594	10.356
27 1H-Indene	+++++	2.72851	2.60886	2.31105	2.08583	1.98364		
	1.94544	1.96408					2.23249	14.535
28 2,2'-oxybis(1-chloropropane)	+++++	2.84198	2.76568	2.43971	2.16122	1.95055		
	1.84731	1.75619					2.25181	19.492
29 4-Methylphenol	+++++	1.38195	1.54011	1.31876	1.26328	1.23132		
	1.26085	1.24437					1.32009	8.332
30 N-nitrosodi-n-propylamine	+++++	1.12987	1.09720	0.99733	0.91299	0.88346		
	0.85999	0.86451					0.96362	11.693
32 Acetophenone	+++++	2.16026	2.12931	1.89241	1.70952	1.63862		
	1.64117	1.60821					1.82564	13.009
33 Hexachloroethane	0.74849	0.71499	0.72388	0.66066	0.60013	0.58667		
	0.59016	0.58482					0.65123	10.672

STL-Denver

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Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 13:02 kiddd
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
37 Nitrobenzene	+++++	1.83151	1.84229	1.69134	1.61398	1.53478		
	1.53885	1.49120					1.64914	8.709
40 Isophorone	+++++	0.77593	0.80784	0.75090	0.72659	0.70042		
	0.68999	0.67913					0.73297	6.500
41 2-Nitrophenol	+++++	0.18060	0.18770	0.17370	0.15680	0.15394		
	0.15022	0.15098					0.16485	9.393
42 2,4-Dimethylphenol	+++++	0.37896	0.37535	0.33506	0.31036	0.29854		
	0.30024	0.30954					0.32972	10.475
43 Bis(2-chloroethoxy)methane	+++++	0.48773	0.49206	0.43316	0.40699	0.39081		
	0.38676	0.37253					0.42429	11.467
45 Benzoic acid	+++++	+++++	+++++	0.18713	0.20894	0.21773		
	0.22159	0.22320					0.21172	6.996
46 2,4-Dichlorophenol	+++++	0.29188	0.32348	0.29373	0.28757	0.27993		
	0.27785	0.26966					0.28916	5.994
47 1,2,4-Trichlorobenzene	+++++	0.36618	0.35063	0.31887	0.30060	0.28954		
	0.28923	0.28791					0.31471	10.178
50 Naphthalene	+++++	1.13506	1.11042	0.96579	0.92067	0.89328		
	0.87913	0.86715					0.96736	11.487
51 4-Chloroaniline	+++++	0.40520	0.42390	0.40129	0.37327	0.35463		
	0.34613	0.33760					0.37743	8.789

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Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
52 Hexachlorobutadiene	+++++	0.22899	0.21942	0.20267	0.19856	0.19530		
	0.19198	0.19514					0.20458	6.885
59 4-Chloro-3-methylphenol	+++++	0.30536	0.33010	0.30871	0.30714	0.29693		
	0.29669	0.28609					0.30443	4.523
62 2-Methylnaphthalene	+++++	0.64394	0.65941	0.59575	0.56251	0.54342		
	0.53913	0.53891					0.58330	8.733
64 1-Methylnaphthalene	+++++	0.70161	0.67474	0.59246	0.56636	0.54477		
	0.54749	0.54096					0.59548	11.107
63 Hexachlorocyclopentadiene	+++++	0.28832	0.34146	0.37157	0.36646	0.38021	✓	
	0.38879	0.39087					0.36110	10.010
67 2,4,6-Trichlorophenol	+++++	0.37498	0.37908	0.36723	0.35892	0.34952		
	0.34637	0.34955					0.36081	3.652
68 2,4,5-Trichlorophenol	+++++	0.40464	0.42949	0.39850	0.38863	0.37510		
	0.38892	0.37846					0.39482	4.672
71 2-Chloronaphthalene	+++++	1.19020	1.15851	1.05722	0.97580	0.95679		
	0.94698	0.93426					1.03139	10.266
74 2-Nitroaniline	+++++	0.40513	0.44539	0.43967	0.41849	0.41232		
	0.39625	0.38644					0.41481	5.222
76 Dimethyl phthalate	+++++	1.21115	1.25297	1.14326	1.07834	1.07666		
	1.05508	1.03976					1.12246	7.343

STL-Denver

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Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
79 2,6-Dinitrotoluene	+++++	0.24282	0.26263	0.25731	0.24578	0.23848		
	0.23958	0.22871					0.24504	4.727
81 Acenaphthylene	+++++	1.84443	1.81336	1.65901	1.54564	1.53172		
	1.54347	1.53424					1.63884	8.386
82 3-Nitroaniline	+++++	+++++	0.30845	0.30169	0.29454	0.28516		
	0.26854	0.26748					0.28764	5.932
84 Acenaphthene	+++++	1.04656	1.03125	0.94016	0.89436	0.88582		
	0.89580	0.92056					0.94493	7.081
85 2,4-Dinitrophenol	+++++	+++++	0.08618	0.15179	0.17521	0.18210	✓	
	0.18750	0.17921					0.16033	23.932
86 4-Nitrophenol	+++++	+++++	0.20683	0.24180	0.26029	0.26291	✓	
	0.26843	0.26409					0.25073	9.334
87 2,4-Dinitrotoluene	+++++	0.31150	0.35379	0.34983	0.33201	0.31561		
	0.31288	0.30497					0.32580	6.021
88 Dibenzofuran	+++++	1.53399	1.51972	1.39180	1.29092	1.26509		
	1.27906	1.27610					1.36524	8.665
93 Diethyl phthalate	+++++	1.17094	1.23180	1.16198	1.07979	1.06613		
	1.07357	1.06176					1.12085	5.976
95 4-Chlorophenyl phenyl ether	+++++	0.64700	0.66707	0.61117	0.57250	0.57207		
	0.58205	0.58705					0.60556	6.267

STL-Denver

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Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 13:02 kiddd
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
96 Fluorene	+++++	1.28180	1.28607	1.18167	1.10119	1.09549		
	1.10684	1.14065					1.17053	7.083
97 4-Nitroaniline	+++++	+++++	0.29272	0.30944	0.29057	0.28251		
	0.27296	0.25349					0.28361	6.728
99 4,6-Dinitro-2-methylphenol	+++++	+++++	0.21046	0.23072	0.23418	0.23139		
	0.23695	0.24023					0.23065	4.556
101 N-nitrosodiphenylamine	+++++	0.90752	0.90174	0.82833	0.78467	0.74538		
	0.77234	0.76638					0.81519	8.108
102 Azobenzene	+++++	1.42630	1.48519	1.41429	1.33076	1.28726		
	1.24741	1.20955					1.34296	7.596
108 4-Bromophenyl phenyl ether	+++++	0.19574	0.19612	0.17653	0.17018	0.17281		
	0.17481	0.17812					0.18062	5.961
110 Hexachlorobenzene	+++++	0.20445	0.20446	0.18116	0.17469	0.18789		
	0.19474	0.19922					0.19237	6.014
113 Pentachlorophenol	+++++	+++++	0.10026	0.10890	0.11382	0.12170		
	0.12526	0.12432					0.11571	8.553
118 Phenanthrene	+++++	1.05077	1.01563	0.89885	0.85037	0.86468		
	0.87357	0.90067					0.92208	8.528
122 Anthracene	+++++	1.08304	1.06997	0.90055	0.85541	0.87495		
	0.87878	0.91958					0.94033	10.132

STL-Denver

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Cal Date : 31-May-2004 13:02 kiddd
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Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
123 Carbazole	+++++	0.96404	0.94333	0.81482	0.76605	0.75716		
	0.74509	0.75355					0.82058	11.440
125 Di-n-butyl phthalate	+++++	1.05361	1.08063	0.97518	0.90986	0.93092		
	0.91360	0.91708					0.96870	7.344
130 Fluoranthene	+++++	1.18046	1.16591	1.04505	0.99211	1.02339		
	1.04587	1.05993					1.07324	6.684
131 Benzidine	+++++	+++++	0.17730	0.13780	0.12824	0.12203		
	0.12239	0.10503					0.13213	18.596
132 Pyrene	+++++	1.23109	1.17904	1.09205	1.05344	1.05113		
	1.08432	1.08158					1.11038	6.139
137 Butyl benzyl phthalate	+++++	0.48174	0.49211	0.45449	0.43066	0.42359		
	0.41426	0.40597					0.44326	7.578
140 3 3'-Dichlorobenzidine	+++++	0.38138	0.37534	0.37501	0.37145	0.38159		
	0.38754	0.39867					0.38157	2.422
141 Benzo(a)anthracene	+++++	1.06523	1.05459	0.98052	1.01085	1.01131		
	1.06713	1.06295					1.03608	3.347
144 Chrysene	+++++	1.05777	1.00373	0.94910	0.95496	0.94690		
	0.99276	1.00786					0.98758	4.097
143 Bis(2-ethylhexyl) phthalate	0.63013	0.64416	0.63904	0.61882	0.59196	0.58225		
	0.58313	0.56523					0.60684	4.919

STL-Denver

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	160.000 Level 7	200.000 Level 8							
146 Di-n-octyl phthalate	+++++	1.08841	1.09371	1.06380	1.03697	1.04905			
	1.03848	1.02604					1.05664	2.488	
147 Benzo(b)fluoranthene	+++++	1.08935	1.03884	1.03279	1.09461	1.18880			
	1.22601	1.28701					1.13677	8.624	
148 Benzo(k)fluoranthene	+++++	1.23641	1.32581	1.26271	1.13199	1.23085			
	1.31575	1.35547					1.26557	5.960	
150 Benzo(a)pyrene	+++++	0.99861	1.03184	1.01430	0.98600	1.06213			
	1.08808	1.11429					1.04218	4.575	
155 Indeno(1,2,3-cd)pyrene	+++++	1.05736	1.10777	1.08730	1.09574	1.19300			
	1.25925	1.31084					1.15875	8.364	
156 Dibenz(a,h)anthracene	+++++	0.91029	0.90749	0.89386	0.92387	1.01958			
	1.06970	1.11177					0.97665	9.118	
157 Benzo(g,h,i)perylene	+++++	0.96561	0.99989	0.95624	0.90844	0.97735			
	1.01618	1.05830					0.98314	4.854	
168 Methyl Styrene	+++++	1.70788	1.69320	1.47579	1.32990	1.26210			
	1.26657	1.28733					1.43182	13.788	
202 Alachlor	+++++	0.14181	0.13975	0.12568	0.11583	0.11837			
	0.11892	0.11966					0.12572	8.535	
204 Atrazine	+++++	0.03763	0.03320	0.02486	0.01431	0.00677			
	0.00401	0.00246					0.01761	81.631	<-

STL-Denver

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	160.000 Level 7	200.000 Level 8						
205 Caprolactam	+++++	0.12467	0.17108	0.17995	0.18535	0.18846		
	0.19111	0.17605					0.17381	13.103
207 2,3-Dichlorobenzeneamine	+++++	0.66317	0.63624	0.57885	0.53998	0.51274		
	0.49909	0.48748					0.55965	12.296
206 Decane	+++++	2.12108	2.01745	1.86005	1.65464	1.55564		
	1.48280	1.41853					1.73003	15.771
213 n-Dodecane	+++++	0.86273	0.89397	0.79213	0.70192	0.65263		
	0.60755	0.57480					0.72653	17.241
210 Tetradecane	+++++	0.79677	0.79589	0.68283	0.58873	0.52459		
	0.47367	0.44738					0.61569	23.657
209 Hexadecane	+++++	0.94233	0.96791	0.85213	0.76384	0.71364		
	0.67147	0.64513					0.79378	16.278
208 n-Octadecane	+++++	0.21315	0.21428	0.18045	0.16133	0.15633		
	0.14496	0.14460					0.17359	17.243
211 n-Eicosane	+++++	0.63908	0.68537	0.62059	0.58982	0.55590		
	0.51186	0.48895					0.58451	12.039
212 n-Docosane	+++++	0.51754	0.54995	0.50597	0.48002	0.45871		
	0.43343	0.40638					0.47886	10.445
$ 36 Nitrobenzene-d5	+++++	1.73317	1.74655	1.62644	1.54021	1.52976		
	1.52868	1.51779					1.60323	6.247

STL-Denver

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	160.000 Level 7	200.000 Level 8						
$ 70 2-Fluorobiphenyl	+++++	1.39744	1.32608	1.16313	1.07513	1.10155		
	1.18303	1.24747					1.21340	9.682
$ 133 Terphenyl-d14	+++++	0.72374	0.69257	0.62889	0.63454	0.66149		
	0.67928	0.70501					0.67507	5.254
$ 10 2-Fluorophenol	+++++	1.31695	1.42021	1.42510	1.31997	1.26775		
	1.23700	1.21701					1.31486	6.298
$ 14 Phenol-d5	+++++	1.92950	1.90219	1.76701	1.62140	1.47003		
	1.47652	1.44888					1.65936	12.510
$ 103 2,4,6-Tribromophenol	+++++	0.08128	0.08703	0.07797	0.08308	0.08938		
	0.09927	0.10294					0.08871	10.492
$ 163 1,2-Dichlorobenzene-d4	+++++	0.96097	0.95894	0.84431	0.76179	0.73389		
	0.73204	0.74248					0.81920	12.638
$ 162 2-Chlorophenol-d4	+++++	1.47422	1.41829	1.26889	1.13953	1.08374		
	1.06586	1.07289					1.21763	14.095

MH 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3366.d
Lab Smp Id: HSL_0005 Client Smp ID: HSL_0005
Inj Date : 29-MAY-2004 08:39
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0005,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:24 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 08:39 Cal File: k3366.d
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	191115	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	724962	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	410645	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	747022	40.0000	
* 142 Chrysene-d12	240	11.387	11.387	(1.000)	740825	40.0000	
* 151 Perylene-d12	264	12.914	12.914	(1.000)	627602	40.0000	
$ 36 Nitrobenzene-d5	82	5.652	5.652	(1.104)	38269	5.00000	4.99593(a)
$ 70 2-Fluorobiphenyl	172	7.362	7.362	(0.919)	71892	5.00000	5.77123(a)
$ 133 Terphenyl-d14	244	10.476	10.476	(0.920)	64665	5.00000	5.17204(a)
$ 10 2-Fluorophenol	112	4.054	4.054	(0.792)	40825	7.50000	6.49850(a)
$ 14 Phenol-d5	99	4.794	4.794	(0.937)	65597	7.50000	8.27386(a)
$ 103 2,4,6-Tribromophenol	330	8.696	8.696	(0.940)	11296	7.50000	6.81855(a)
$ 163 1,2-Dichlorobenzene-d4	152	5.299	5.299	(1.036)	24023	5.00000	6.13764(a)
$ 162 2-Chlorophenol-d4	132	4.953	4.953	(0.968)	50460	7.50000	8.67354(a)
5 Pyridine	79	3.090	3.090	(0.604)	27920	5.00000	3.71463(aH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.043	3.043	(0.595)	21562	5.00000	4.58152(a)
16 Aniline	93	4.859	4.859	(0.949)	52703	5.00000	11.0628
15 Phenol	94	4.806	4.806	(0.939)	41641	5.00000	5.18870(a)
20 2-Chlorophenol	128	4.965	4.965	(0.970)	35061	5.00000	5.83351(a)
21 1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	40900	5.00000	5.79382(a)
23 1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	43486	5.00000	6.05414(a)
24 Benzyl alcohol	108	5.252	5.252	(1.026)	16100	5.00000	3.88857(a)
25 1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	38951	5.00000	5.95678(a)
26 2-Methylphenol	108	5.341	5.341	(1.044)	31953	5.00000	5.24141(a)
27 1H-Indene	116	5.376	5.376	(1.051)	65387	5.00000	6.13010(a)
28 2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	66923	5.00000	2.88925(a)
29 4-Methylphenol	108	5.476	5.476	(1.070)	30489	5.00000	4.83397(a)
30 N-nitrosodi-n-propylamine	70	5.499	5.499	(1.075)	26544	5.00000	5.76534(a)
32 Acetophenone	105	5.499	5.499	(1.075)	47990	5.00000	5.50175
33 Hexachloroethane	117	5.593	5.593	(1.093)	17881	5.00000	5.74680(a)
37 Nitrobenzene	77	5.670	5.670	(1.108)	41727	5.00000	5.29573(a)
40 Isophorone	82	5.875	5.875	(0.929)	70962	5.00000	5.34174(a)
41 2-Nitrophenol	139	5.975	5.975	(0.945)	15452	5.00000	5.17191(a)
42 2,4-Dimethylphenol	107	5.969	5.969	(0.944)	33534	5.00000	5.61153(a)
43 Bis(2-chloroethoxy)methane	93	6.063	6.063	(0.959)	42525	5.00000	5.52999(a)
45 Benzoic acid	122	6.087	6.087	(0.963)	4207	5.00000	1.09637(aQ)
46 2,4-Dichlorophenol	162	6.198	6.198	(0.980)	23217	5.00000	4.43014(a)
47 1,2,4-Trichlorobenzene	180	6.275	6.275	(0.993)	33051	5.00000	5.79454(a)
50 Naphthalene	128	6.339	6.339	(1.003)	100310	5.00000	5.72139(a)
51 4-Chloroaniline	127	6.410	6.410	(1.014)	33294	5.00000	4.86711(a)
52 Hexachlorobutadiene	225	6.492	6.492	(1.027)	20895	5.00000	5.63535(a)
59 4-Chloro-3-methylphenol	107	6.851	6.851	(1.084)	25002	5.00000	4.53138(a)
62 2-Methylnaphthalene	142	7.009	7.009	(1.109)	57520	5.00000	5.44095(a)
64 1-Methylnaphthalene	142	7.121	7.121	(1.126)	64697	5.00000	5.99458(a)
63 Hexachlorocyclopentadiene	237	7.221	7.221	(0.902)	12822	5.00000	3.45879(a)
67 2,4,6-Trichlorophenol	196	7.303	7.303	(0.912)	18504	5.00000	4.99556(a)
68 2,4,5-Trichlorophenol	196	7.356	7.356	(0.919)	16967	5.00000	4.18599(a)
71 2-Chloronaphthalene	162	7.485	7.485	(0.935)	62983	5.00000	5.94829(a)
74 2-Nitroaniline	65	7.609	7.609	(0.950)	18550	5.00000	4.35599(a)
76 Dimethyl phthalate	163	7.761	7.761	(0.969)	61186	5.00000	5.30976(a)
79 2,6-Dinitrotoluene	165	7.844	7.844	(0.979)	11558	5.00000	4.59444(a)
81 Acenaphthylene	152	7.879	7.879	(0.984)	95878	5.00000	5.69870(a)
82 3-Nitroaniline	138	7.990	7.990	(0.998)	11818	5.00000	4.00204(a)
84 Acenaphthene	153	8.037	8.037	(1.004)	56861	5.00000	5.86149(a)
85 2,4-Dinitrophenol	184	8.084	8.084	(1.010)	382	5.00000	11.4742(Q)
86 4-Nitrophenol	109	8.131	8.131	(1.015)	4531	5.00000	1.76030(a)
87 2,4-Dinitrotoluene	165	8.196	8.196	(1.023)	13760	5.00000	4.11400(a)
88 Dibenzofuran	168	8.173	8.173	(1.021)	80939	5.00000	5.77488(a)
93 Diethyl phthalate	149	8.367	8.367	(1.045)	60057	5.00000	5.21925(a)
95 4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.055)	35308	5.00000	5.67951(a)
96 Fluorene	166	8.472	8.472	(1.058)	67091	5.00000	5.58310(a)
97 4-Nitroaniline	138	8.525	8.525	(1.065)	11112	5.00000	3.81644(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
99	4,6-Dinitro-2-methylphenol	198	8.543	8.543	(1.067)	5745	5.00000	2.42619(a)
101	N-nitrosodiphenylamine	169	8.549	8.549	(1.067)	46437	5.00000	5.54876(a)
102	Azobenzene	77	8.578	8.578	(1.071)	78720	5.00000	5.70972(a)
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	18352	5.00000	5.44068(a)
110	Hexachlorobenzene	284	8.995	8.995	(0.973)	17738	5.00000	4.93728(a)
113	Pentachlorophenol	266	9.142	9.142	(0.989)	8541	5.00000	3.95251(a)
118	Phenanthrene	178	9.265	9.265	(1.002)	95117	5.00000	5.52353(a)
122	Anthracene	178	9.301	9.301	(1.006)	101353	5.00000	5.77145(a)
123	Carbazole	167	9.424	9.424	(1.019)	89196	5.00000	5.82039(a)
125	Di-n-butyl phthalate	149	9.659	9.659	(1.044)	95638	5.00000	5.28652(a)
130	Fluoranthene	202	10.211	10.211	(1.104)	108564	5.00000	5.41644(a)
131	Benzidine	184	10.300	10.300	(0.905)	36963	5.00000	5.57328(a)
132	Pyrene	202	10.399	10.399	(0.913)	112369	5.00000	5.46411(a)
137	Butyl benzyl phthalate	149	10.846	10.846	(0.953)	44550	5.00000	5.42666(a)
140	3 3'-Dichlorobenzidine	252	11.328	11.328	(0.995)	36680	5.00000	5.19040(a)
141	Benzo(a)anthracene	228	11.369	11.369	(0.998)	100686	5.00000	5.24710(a)
144	Chrysene	228	11.410	11.410	(1.002)	100621	5.00000	5.50122(a)
143	Bis(2-ethylhexyl) phthalate	149	11.281	11.281	(0.991)	58352	5.00000	5.19190(a)
146	Di-n-octyl phthalate	149	11.810	11.810	(1.037)	90506	5.00000	4.62484(a)
147	Benzo(b)fluoranthene	252	12.438	12.438	(0.963)	87267	5.00000	4.89273(a)
148	Benzo(k)fluoranthene	252	12.462	12.462	(0.965)	102456	5.00000	5.15972(a)
150	Benzo(a)pyrene	252	12.838	12.838	(0.994)	77752	5.00000	4.75493(a)
155	Indeno(1,2,3-cd)pyrene	276	14.506	14.506	(1.123)	80383	5.00000	4.42129(a)
156	Dibenz(a,h)anthracene	278	14.501	14.501	(1.123)	64213	5.00000	4.19043(a)
157	Benzo(g,h,i)perylene	276	15.006	15.006	(1.162)	75365	5.00000	4.88572(a)
168	Methyl Styrene	118	4.882	4.882	(0.954)	40905	5.00000	5.97932(a)
202	Alachlor	188	9.565	9.565	(1.034)	11805	5.00000	5.02798(a)
204	Atrazine	200	8.983	8.983	(0.971)	2731	5.00000	8.30619(a)
205	Caprolactam	55	6.721	6.721	(1.063)	7423	5.00000	2.35643(a)
207	2,3-Dichlorobenzeneamine	161	7.321	7.321	(0.914)	33631	5.00000	5.85355(a)
213	n-Dodecane	43	6.234	6.234	(0.778)	45554	5.00000	4.16926(a)
210	Tetradecane	43	7.368	7.368	(0.920)	39980	5.00000	4.01431(a)
209	Hexadecane	57	8.284	8.284	(1.034)	48063	5.00000	3.10824(a)
211	n-Eicosane	43	9.677	9.677	(1.208)	33571	5.00000	5.59456(a)
212	n-docosane	43	10.258	10.258	(1.281)	24425	5.00000	4.96847(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3366.d
Lab Smp Id: HSL_0005
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0005
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

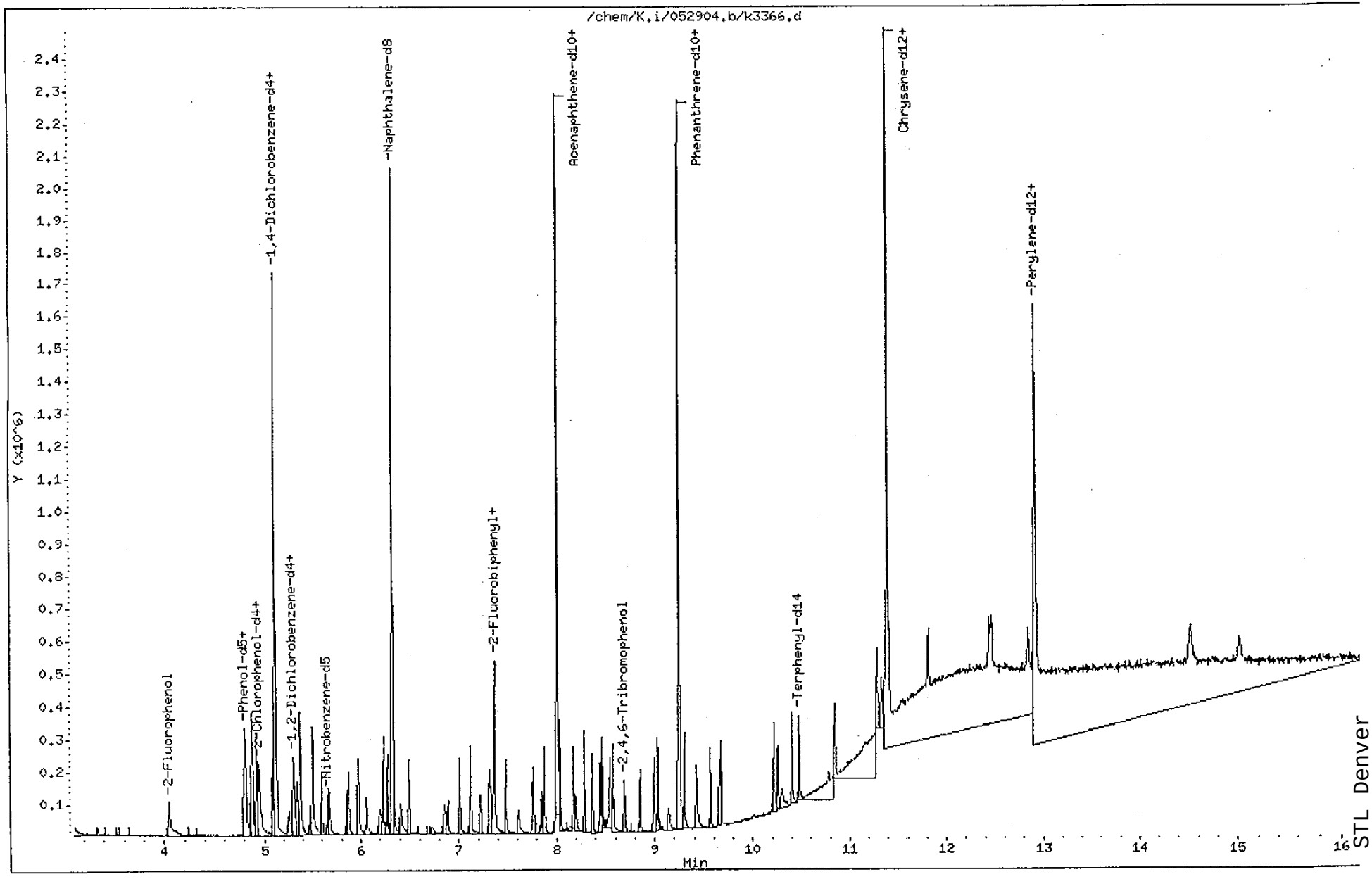
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	191115	18.79
49 Naphthalene-d8	591401	295700	1182802	724962	22.58
83 Acenaphthene-d10	354180	177090	708360	410645	15.94
117 Phenanthrene-d10	683575	341788	1367150	747022	9.28
142 Chrysene-d12	669104	334552	1338208	740825	10.72
151 Perylene-d12	582855	291428	1165710	627602	7.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.39	-0.05
151 Perylene-d12	12.92	12.42	13.42	12.91	-0.04

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

Data File: /chem/K.i/052904.b/k3366.d
Date : 29-MAY-2004 08:39
Client ID: HSL_0005
Sample Info: HSL_0005,BHA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i
Operator: kiddd
Column diameter: 0.25



MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3367.d
Lab Smp Id: HSL_0010 Client Smp ID: HSL_0010
Inj Date : 29-MAY-2004 09:03
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0010,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:24 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 09:03 Cal File: k3367.d
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	170515	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	649064	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	372486	40.0000	
* 117 Phenanthrene-d10	188	9.242	9.242	(1.000)	665380	40.0000	
* 142 Chrysene-d12	240	11.357	11.357	(1.000)	660026	40.0000	
* 151 Perylene-d12	264	12.873	12.873	(1.000)	553392	40.0000	
$ 36 Nitrobenzene-d5	82	5.652	5.652	(1.104)	73883	10.0000	10.8105
$ 70 2-Fluorobiphenyl	172	7.367	7.367	(0.920)	130132	10.0000	11.5167
$ 133 Terphenyl-d14	244	10.464	10.464	(0.921)	119422	10.0000	10.7209
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	84210	15.0000	15.0239
$ 14 Phenol-d5	99	4.794	4.794	(0.937)	123378	15.0000	17.4419
$ 103 2,4,6-Tribromophenol	330	8.695	8.695	(0.941)	20280	15.0000	13.7435
$ 163 1,2-Dichlorobenzene-d4	152	5.293	5.293	(1.034)	40965	10.0000	11.7306
$ 162 2-Chlorophenol-d4	132	4.947	4.947	(0.967)	94266	15.0000	18.1609
5 Pyridine	79	3.078	3.078	(0.602)	66364	10.0000	9.89613(aH)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4	N-Nitrosodimethylamine	74	3.043	3.043	(0.595)	42265	10.0000	10.0655
16	Aniline	93	4.859	4.859	(0.949)	87319	10.0000	12.3672
15	Phenol	94	4.806	4.806	(0.939)	81485	10.0000	11.3801
18	Bis(2-chloroethyl) ether	93	4.882	4.882	(0.954)	93703	10.0000	7.72158(a)
20	2-Chlorophenol	128	4.964	4.964	(0.970)	64536	10.0000	12.0348
21	1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	74180	10.0000	11.7777
23	1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	76194	10.0000	11.8893
24	Benzyl alcohol	108	5.252	5.252	(1.026)	35160	10.0000	9.51798(a)
25	1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	72875	10.0000	12.4912
26	2-Methylphenol	108	5.340	5.340	(1.044)	60381	10.0000	11.1012
27	1H-Indene	116	5.376	5.376	(1.051)	116313	10.0000	12.2218
28	2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	121150	10.0000	8.74495(a)
29	4-Methylphenol	108	5.470	5.470	(1.069)	58911	10.0000	10.4686
30	N-nitrosodi-n-propylamine	70	5.499	5.499	(1.075)	48165	10.0000	11.7253
32	Acetophenone	105	5.499	5.499	(1.075)	92089	10.0000	11.8329
33	Hexachloroethane	117	5.593	5.593	(1.093)	30479	10.0000	10.9791
37	Nitrobenzene	77	5.669	5.669	(1.108)	78075	10.0000	11.1059
40	Isophorone	82	5.875	5.875	(0.929)	125907	10.0000	10.5861
41	2-Nitrophenol	139	5.975	5.975	(0.945)	29305	10.0000	10.9556
42	2,4-Dimethylphenol	107	5.969	5.969	(0.944)	61492	10.0000	11.4932
43	Bis(2-chloroethoxy)methane	93	6.057	6.057	(0.958)	79142	10.0000	11.4951
45	Benzoic acid	122	6.051	6.051	(0.957)	19194	10.0000	5.58699(a)
46	2,4-Dichlorophenol	162	6.192	6.192	(0.980)	47362	10.0000	10.0941
47	1,2,4-Trichlorobenzene	180	6.275	6.275	(0.993)	59419	10.0000	11.6356
50	Naphthalene	128	6.339	6.339	(1.003)	184181	10.0000	11.7336
51	4-Chloroaniline	127	6.404	6.404	(1.013)	65750	10.0000	10.7357
52	Hexachlorobutadiene	225	6.492	6.492	(1.027)	37158	10.0000	11.1933
59	4-Chloro-3-methylphenol	107	6.850	6.850	(1.084)	49550	10.0000	10.0306
62	2-Methylnaphthalene	142	7.009	7.009	(1.109)	104490	10.0000	11.0397
64	1-Methylnaphthalene	142	7.121	7.121	(1.126)	113847	10.0000	11.7821
63	Hexachlorocyclopentadiene	237	7.221	7.221	(0.902)	26849	10.0000	7.98460(a)
67	2,4,6-Trichlorophenol	196	7.303	7.303	(0.912)	34919	10.0000	10.3929
68	2,4,5-Trichlorophenol	196	7.350	7.350	(0.918)	37681	10.0000	10.2488
71	2-Chloronaphthalene	162	7.479	7.479	(0.934)	110833	10.0000	11.5397
74	2-Nitroaniline	65	7.608	7.608	(0.950)	37726	10.0000	9.76653(a)
76	Dimethyl phthalate	163	7.761	7.761	(0.969)	112784	10.0000	10.7901
79	2,6-Dinitrotoluene	165	7.843	7.843	(0.979)	22612	10.0000	9.90936(a)
81	Acenaphthylene	152	7.879	7.879	(0.984)	171756	10.0000	11.2545
82	3-Nitroaniline	138	7.984	7.984	(0.997)	26385	10.0000	9.85035(a)
84	Acenaphthene	153	8.037	8.037	(1.004)	97457	10.0000	11.0755
85	2,4-Dinitrophenol	184	8.078	8.078	(1.009)	2373	10.0000	12.5702(Q)
86	4-Nitrophenol	109	8.125	8.125	(1.015)	14003	10.0000	5.99751(a)
87	2,4-Dinitrotoluene	165	8.196	8.196	(1.023)	29007	10.0000	9.56105(a)
88	Dibenzofuran	168	8.172	8.172	(1.021)	142847	10.0000	11.2360
93	Diethyl phthalate	149	8.366	8.366	(1.045)	109040	10.0000	10.4469
95	4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.055)	60250	10.0000	10.6844
96	Fluorene	166	8.472	8.472	(1.058)	119363	10.0000	10.9506

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
97	4-Nitroaniline	138	8.525	8.525	(1.065)	25635	10.0000	9.70636(a)
99	4,6-Dinitro-2-methylphenol	198	8.543	8.543	(1.067)	12435	10.0000	5.78944(a)
101	N-nitrosodiphenylamine	169	8.548	8.548	(1.067)	84510	10.0000	11.1326
102	Azobenzene	77	8.578	8.578	(1.071)	132819	10.0000	10.6205
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.958)	32560	10.0000	10.8372
110	Hexachlorobenzene	284	8.995	8.995	(0.973)	34009	10.0000	10.6277
113	Pentachlorophenol	266	9.136	9.136	(0.989)	14946	10.0000	7.76521(a)
118	Phenanthrene	178	9.259	9.259	(1.002)	174791	10.0000	11.3957
122	Anthracene	178	9.301	9.301	(1.006)	180159	10.0000	11.5178
123	Carbazole	167	9.418	9.418	(1.019)	160364	10.0000	11.7484
125	Di-n-butyl phthalate	149	9.653	9.653	(1.044)	175262	10.0000	10.8765
130	Fluoranthene	202	10.205	10.205	(1.104)	196363	10.0000	10.9990
131	Benzidine	184	10.288	10.288	(0.906)	47124	10.0000	13.4852
132	Pyrene	202	10.387	10.387	(0.915)	203138	10.0000	11.0871
137	Butyl benzyl phthalate	149	10.822	10.822	(0.953)	79490	10.0000	10.8681
140	3 3'-Dichlorobenzidine	252	11.298	11.298	(0.995)	62930	10.0000	9.99502(a)
141	Benzo(a)anthracene	228	11.339	11.339	(0.998)	175770	10.0000	10.2813(H)
144	Chrysene	228	11.380	11.380	(1.002)	174539	10.0000	10.7107
143	Bis(2-ethylhexyl) phthalate	149	11.251	11.251	(0.991)	106291	10.0000	10.6150(H)
146	Di-n-octyl phthalate	149	11.774	11.774	(1.037)	179595	10.0000	10.3007(H)
147	Benzo(b)fluoranthene	252	12.403	12.403	(0.963)	150710	10.0000	9.58286(aH)
148	Benzo(k)fluoranthene	252	12.426	12.426	(0.965)	171055	10.0000	9.76959(aH)
150	Benzo(a)pyrene	252	12.802	12.802	(0.995)	138156	10.0000	9.58195(aH)
155	Indeno(1,2,3-cd)pyrene	276	14.471	14.471	(1.124)	146284	10.0000	9.12501(a)
156	Dibenz(a,h)anthracene	278	14.459	14.459	(1.123)	125937	10.0000	9.32052(a)
157	Benzo(g,h,i)perylene	276	14.965	14.965	(1.162)	133590	10.0000	9.82164(aH)
168	Methyl Styrene	118	4.882	4.882	(0.954)	72805	10.0000	11.9280
202	Alachlor	188	9.559	9.559	(1.034)	23590	10.0000	11.2803
204	Atrazine	200	8.983	8.983	(0.972)	6260	10.0000	21.3756
205	Caprolactam	55	6.721	6.721	(1.063)	20229	10.0000	7.17262(a)
207	2,3-Dichlorobenzeneamine	161	7.320	7.320	(0.914)	61755	10.0000	11.8497
206	Decane	43	4.923	4.923	(0.962)	90419	10.0000	3.86063(a)
213	n-Dodecane	43	6.233	6.233	(0.778)	80339	10.0000	9.08060(a)
210	Tetradecane	43	7.367	7.367	(0.920)	74196	10.0000	9.07136(a)
209	Hexadecane	57	8.284	8.284	(1.034)	87751	10.0000	8.65278(a)
208	n-Octadecane	85	9.030	9.030	(0.977)	35456	10.0000	4.48221(a)
211	n-Eicosane	43	9.671	9.671	(1.208)	59512	10.0000	10.9336
212	n-docosane	43	10.246	10.246	(1.280)	48194	10.0000	10.8078

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3367.d
Lab Smp Id: HSL_0010
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0010
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

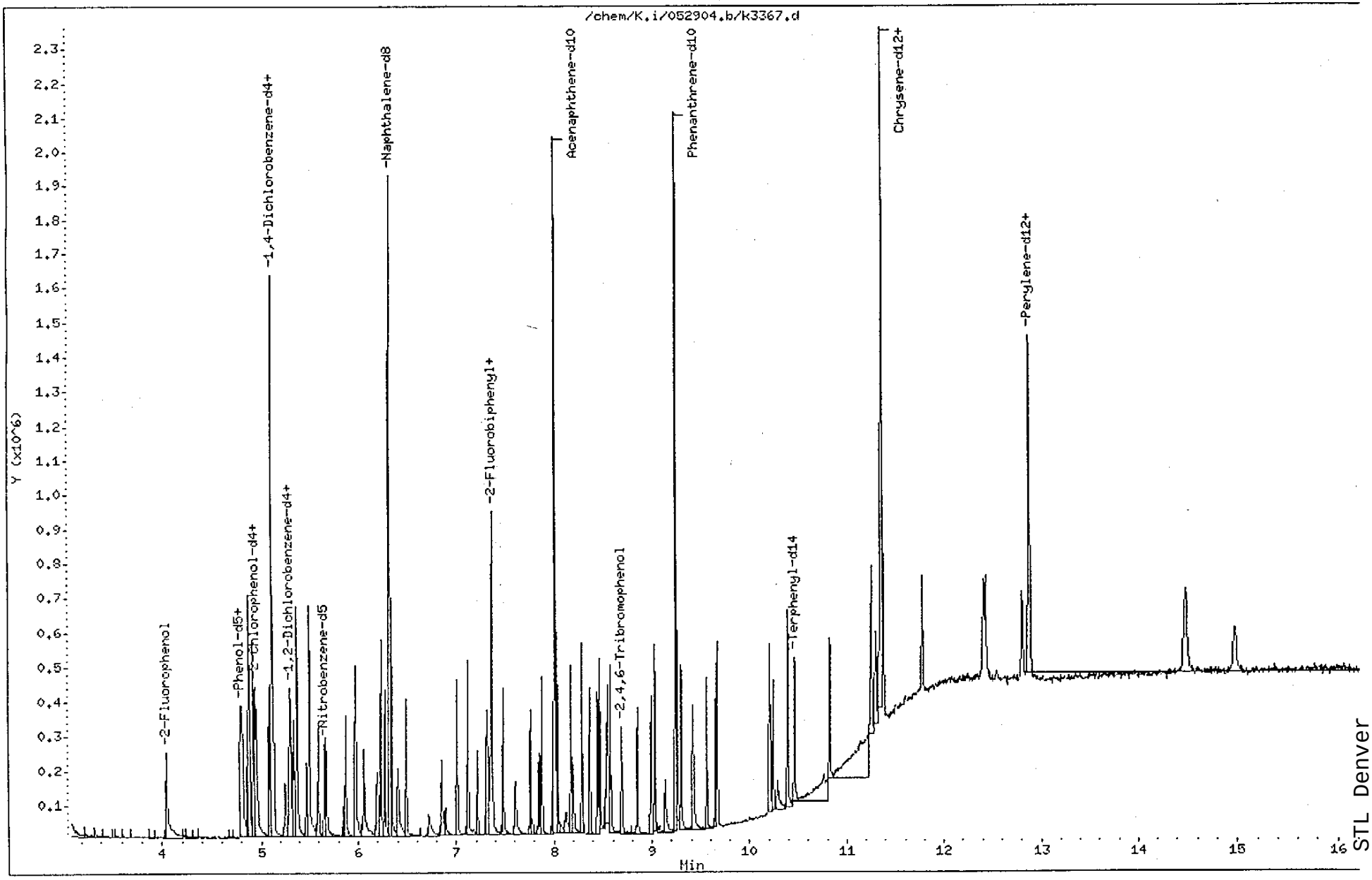
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	170515	5.99
49 Naphthalene-d8	591401	295700	1182802	649064	9.75
83 Acenaphthene-d10	354180	177090	708360	372486	5.17
117 Phenanthrene-d10	683575	341788	1367150	665380	-2.66
142 Chrysene-d12	669104	334552	1338208	660026	-1.36
151 Perylene-d12	582855	291428	1165710	553392	-5.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.25	8.75	9.75	9.24	-0.06
142 Chrysene-d12	11.39	10.89	11.89	11.36	-0.31
151 Perylene-d12	12.92	12.42	13.42	12.87	-0.36

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

Data File: /chem/K.i/052904.b/k3367.d
Date : 29-MAY-2004 09:03
Client ID: HSL_0010
Sample Info: HSL_0010,BNA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i
Operator: kiddd
Column diameter: 0.25



MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3368.d
Lab Smp Id: HSL_0020 Client Smp ID: HSL_0020
Inj Date : 29-MAY-2004 09:26
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0020,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:24 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 09:26 Cal File: k3368.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	179092	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	658451	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	384040	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	700664	40.0000	
* 142 Chrysene-d12	240	11.375	11.375	(1.000)	713298	40.0000	
* 151 Perylene-d12	264	12.896	12.896	(1.000)	584066	40.0000	
$ 36 Nitrobenzene-d5	82	5.652	5.652	(1.104)	156397	20.0000	21.7879
$ 70 2-Fluorobiphenyl	172	7.368	7.368	(0.920)	254633	20.0000	21.8571
$ 133 Terphenyl-d14	244	10.470	10.470	(0.920)	247004	20.0000	20.5183
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	190761	30.0000	32.4038
$ 14 Phenol-d5	99	4.794	4.794	(0.937)	255500	30.0000	34.3901
$ 103 2,4,6-Tribromophenol	330	8.695	8.695	(0.940)	45734	30.0000	29.4327
$ 163 1,2-Dichlorobenzene-d4	152	5.293	5.293	(1.034)	85869	20.0000	23.4115
$ 162 2-Chlorophenol-d4	132	4.947	4.947	(0.967)	190503	30.0000	34.9438
5 Pyridine	79	3.067	3.067	(0.599)	152840	20.0000	21.6998(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4	N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	94020	20.0000	21.3186
16	Aniline	93	4.859	4.859	(0.949)	185467	20.0000	18.3667
15	Phenol	94	4.806	4.806	(0.939)	170561	20.0000	22.6796
18	Bis(2-chloroethyl) ether	93	4.882	4.882	(0.954)	175004	20.0000	20.2306
20	2-Chlorophenol	128	4.964	4.964	(0.970)	130305	20.0000	23.1358
21	1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	149861	20.0000	22.6542
23	1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	155265	20.0000	23.0672
24	Benzyl alcohol	108	5.246	5.246	(1.025)	81112	20.0000	20.9058
25	1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	142754	20.0000	23.2970
26	2-Methylphenol	108	5.340	5.340	(1.044)	130688	20.0000	22.8766
27	1H-Indene	116	5.376	5.376	(1.051)	233613	20.0000	23.3718
28	2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	247656	20.0000	20.2950
29	4-Methylphenol	108	5.470	5.470	(1.069)	137911	20.0000	23.3334
30	N-nitrosodi-n-propylamine	70	5.499	5.499	(1.075)	98250	20.0000	22.7725
32	Acetophenone	105	5.499	5.499	(1.075)	190671	20.0000	23.3267
33	Hexachloroethane	117	5.593	5.593	(1.093)	64821	20.0000	22.2315
37	Nitrobenzene	77	5.669	5.669	(1.108)	164970	20.0000	22.3425
40	Isophorone	82	5.875	5.875	(0.929)	265963	20.0000	22.0430
41	2-Nitrophenol	139	5.969	5.969	(0.944)	61794	20.0000	22.7722
42	2,4-Dimethylphenol	107	5.969	5.969	(0.944)	123575	20.0000	22.7677
43	Bis(2-chloroethoxy)methane	93	6.057	6.057	(0.958)	161999	20.0000	23.1944
45	Benzoic acid	122	6.046	6.046	(0.956)	53367	20.0000	15.3126
46	2,4-Dichlorophenol	162	6.192	6.192	(0.980)	106499	20.0000	22.3743
47	1,2,4-Trichlorobenzene	180	6.275	6.275	(0.993)	115435	20.0000	22.2825
50	Naphthalene	128	6.339	6.339	(1.003)	365580	20.0000	22.9579
51	4-Chloroaniline	127	6.404	6.404	(1.013)	139559	20.0000	22.4623
52	Hexachlorobutadiene	225	6.492	6.492	(1.027)	72240	20.0000	21.4510
59	4-Chloro-3-methylphenol	107	6.850	6.850	(1.084)	108676	20.0000	21.6861
62	2-Methylnaphthalene	142	7.009	7.009	(1.109)	217093	20.0000	22.6096
64	1-Methylnaphthalene	142	7.121	7.121	(1.126)	222140	20.0000	22.6617
63	Hexachlorocyclopentadiene	237	7.221	7.221	(0.902)	65568	20.0000	18.9126
67	2,4,6-Trichlorophenol	196	7.303	7.303	(0.912)	72790	20.0000	21.0126
68	2,4,5-Trichlorophenol	196	7.350	7.350	(0.918)	82470	20.0000	21.7560
71	2-Chloronaphthalene	162	7.485	7.485	(0.935)	222457	20.0000	22.4649
74	2-Nitroaniline	65	7.603	7.603	(0.949)	85523	20.0000	21.4741
76	Dimethyl phthalate	163	7.761	7.761	(0.969)	240596	20.0000	22.3255
79	2,6-Dinitrotoluene	165	7.843	7.843	(0.979)	50430	20.0000	21.4353
81	Acenaphthylene	152	7.879	7.879	(0.984)	348201	20.0000	22.1298
82	3-Nitroaniline	138	7.979	7.979	(0.996)	59229	20.0000	21.4468
84	Acenaphthene	153	8.037	8.037	(1.004)	198020	20.0000	21.8269
85	2,4-Dinitrophenol	184	8.073	8.073	(1.008)	16548	20.0000	19.9677
86	4-Nitrophenol	109	8.114	8.114	(1.013)	39716	20.0000	16.4987
87	2,4-Dinitrotoluene	165	8.190	8.190	(1.023)	67935	20.0000	21.7185
88	Dibenzofuran	168	8.172	8.172	(1.021)	291816	20.0000	22.2630
93	Diethyl phthalate	149	8.366	8.366	(1.045)	236530	20.0000	21.9796
95	4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.055)	128090	20.0000	22.0315
96	Fluorene	166	8.472	8.472	(1.058)	246952	20.0000	21.9742

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
97	4-Nitroaniline	138	8.519	8.519	(1.064)	56208	20.0000	20.6421
99	4,6-Dinitro-2-methylphenol	198	8.537	8.537	(1.066)	40412	20.0000	18.2488
101	N-nitrosodiphenylamine	169	8.554	8.554	(1.068)	173152	20.0000	22.1233
102	Azobenzene	77	8.578	8.578	(1.071)	285186	20.0000	22.1181
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	68708	20.0000	21.7170
110	Hexachlorobenzene	284	8.995	8.995	(0.973)	71629	20.0000	21.2567
113	Pentachlorophenol	266	9.136	9.136	(0.988)	35124	20.0000	17.3297
118	Phenanthrene	178	9.265	9.265	(1.002)	355809	20.0000	22.0292
122	Anthracene	178	9.301	9.301	(1.006)	374844	20.0000	22.7574
123	Carbazole	167	9.418	9.418	(1.018)	330480	20.0000	22.9919
125	Di-n-butyl phthalate	149	9.653	9.653	(1.044)	378578	20.0000	22.3110
130	Fluoranthene	202	10.211	10.211	(1.104)	408455	20.0000	21.7268
131	Benzidine	184	10.288	10.288	(0.904)	63234	20.0000	19.8333
132	Pyrene	202	10.393	10.393	(0.914)	420505	20.0000	21.2368
137	Butyl benzyl phthalate	149	10.840	10.840	(0.953)	175512	20.0000	22.2043
140	3 3'-Dichlorobenzidine	252	11.310	11.310	(0.994)	133866	20.0000	19.6737
141	Benzo(a)anthracene	228	11.357	11.357	(0.998)	376120	20.0000	20.3573(H)
144	Chrysene	228	11.398	11.398	(1.002)	357980	20.0000	20.3270
143	Bis(2-ethylhexyl) phthalate	149	11.269	11.269	(0.991)	227914	20.0000	21.0614
146	Di-n-octyl phthalate	149	11.798	11.798	(1.037)	390069	20.0000	20.7016
147	Benzo(b)fluoranthene	252	12.421	12.421	(0.963)	303377	20.0000	18.2771
148	Benzo(k)fluoranthene	252	12.450	12.450	(0.965)	387181	20.0000	20.9520
150	Benzo(a)pyrene	252	12.826	12.826	(0.995)	301332	20.0000	19.8016(H)
155	Indeno(1,2,3-cd)pyrene	276	14.495	14.495	(1.124)	323504	20.0000	19.1200
156	Dibenz(a,h)anthracene	278	14.483	14.483	(1.123)	265016	20.0000	18.5836
157	Benzo(g,h,i)perylene	276	14.988	14.988	(1.162)	292001	20.0000	20.3407(H)
168	Methyl Styrene	118	4.876	4.876	(0.953)	151619	20.0000	23.6509
202	Alachlor	188	9.565	9.565	(1.034)	48960	20.0000	22.2327
204	Atrazine	200	8.983	8.983	(0.971)	11630	20.0000	37.7123
205	Caprolactam	55	6.721	6.721	(1.063)	56323	20.0000	19.6858
207	2,3-Dichlorobenzeneamine	161	7.321	7.321	(0.914)	122170	20.0000	22.7370
206	Decane	43	4.923	4.923	(0.962)	180655	20.0000	17.7260
213	n-Dodecane	43	6.234	6.234	(0.778)	171661	20.0000	20.6315
210	Tetradecane	43	7.373	7.373	(0.921)	152826	20.0000	20.1955
209	Hexadecane	57	8.284	8.284	(1.034)	185859	20.0000	20.7846
208	n-Octadecane	85	9.030	9.030	(0.976)	75070	20.0000	20.0347
211	n-Eicosane	43	9.671	9.671	(1.208)	131605	20.0000	23.4512
212	n-docosane	43	10.252	10.252	(1.280)	105601	20.0000	22.9692

QC Flag Legend

H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3368.d
Lab Smp Id: HSL_0020
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0020
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	179092	11.32
49 Naphthalene-d8	591401	295700	1182802	658451	11.34
83 Acenaphthene-d10	354180	177090	708360	384040	8.43
117 Phenanthrene-d10	683575	341788	1367150	700664	2.50
142 Chrysene-d12	669104	334552	1338208	713298	6.60
151 Perylene-d12	582855	291428	1165710	584066	0.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.37	-0.15
151 Perylene-d12	12.92	12.42	13.42	12.90	-0.18

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

Data File: /chem/K.i/052904.b/k3368.d

Date : 29-MAY-2004 09:26

Client ID: HSL_0020

Sample Info: HSL_0020,BNA1509,P:051104,E:053104

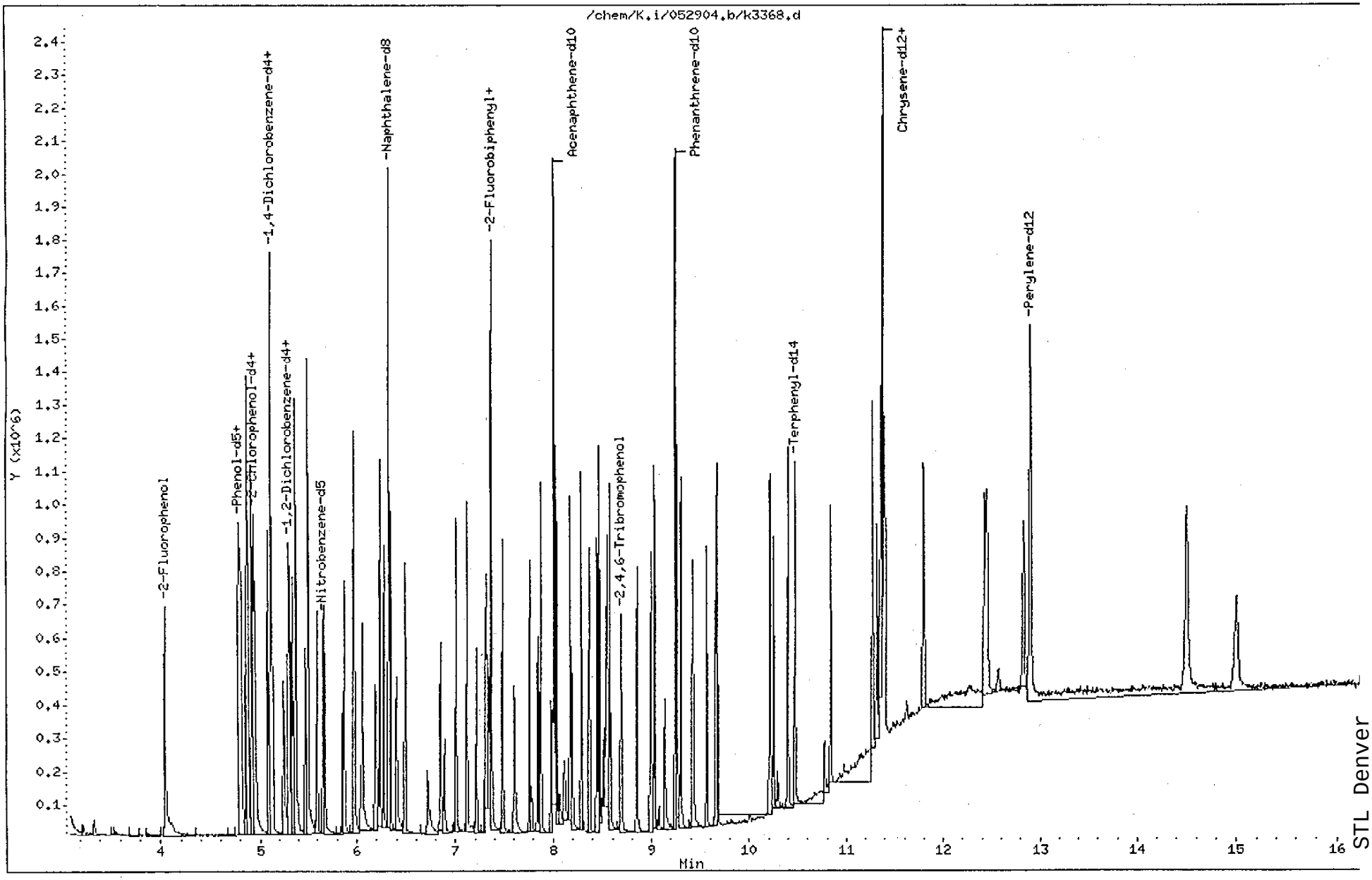
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i

Operator: kiddd

Column diameter: 0.25



MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3369.d
Lab Smp Id: HSL_0050 Client Smp ID: HSL_0050
Inj Date : 29-MAY-2004 09:50
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0050,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:25 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 09:50 Cal File: k3369.d
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	151927	40.0000	
* 49 Naphthalene-d8	136	6.321	6.321	(1.000)	565656	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	326489	40.0000	
* 117 Phenanthrene-d10	188	9.247	9.247	(1.000)	621188	40.0000	
* 142 Chrysene-d12	240	11.380	11.380	(1.000)	614820	40.0000	
* 151 Perylene-d12	264	12.908	12.908	(1.000)	509237	40.0000	
$ 36 Nitrobenzene-d5	82	5.652	5.652	(1.104)	308875	50.0000	50.7238
$ 70 2-Fluorobiphenyl	172	7.367	7.367	(0.920)	474688	50.0000	47.9286
$ 133 Terphenyl-d14	244	10.475	10.475	(0.920)	483318	50.0000	46.5793
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	405958	75.0000	81.2883
$ 14 Phenol-d5	99	4.794	4.794	(0.937)	503357	75.0000	79.8657
$ 103 2,4,6-Tribromophenol	330	8.695	8.695	(0.940)	90815	75.0000	65.9227
$ 163 1,2-Dichlorobenzene-d4	152	5.293	5.293	(1.034)	160341	50.0000	51.5322
$ 162 2-Chlorophenol-d4	132	4.947	4.947	(0.967)	361460	75.0000	78.1572
5 Pyridine	79	3.061	3.061	(0.598)	314984	50.0000	52.7168(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	194972	50.0000	52.1138
16 Aniline	93	4.858	4.858	(0.949)	337309	50.0000	47.7622
15 Phenol	94	4.806	4.806	(0.939)	339303	50.0000	53.1845
18 Bis(2-chloroethyl) ether	93	4.882	4.882	(0.954)	336354	50.0000	56.4066
20 2-Chlorophenol	128	4.964	4.964	(0.970)	253097	50.0000	52.9727
21 1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	288836	50.0000	51.4698
23 1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	290805	50.0000	50.9289
24 Benzyl alcohol	108	5.246	5.246	(1.025)	172903	50.0000	52.5323
25 1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	265756	50.0000	51.1253
26 2-Methylphenol	108	5.340	5.340	(1.044)	257622	50.0000	53.1593
27 1H-Indene	116	5.375	5.375	(1.051)	438889	50.0000	51.7596
28 2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	463323	50.0000	52.4297
29 4-Methylphenol	108	5.469	5.469	(1.069)	250444	50.0000	49.9495
30 N-nitrosodi-n-propylamine	70	5.499	5.499	(1.075)	189402	50.0000	51.7492
32 Acetophenone	105	5.499	5.499	(1.075)	359386	50.0000	51.8288
33 Hexachloroethane	117	5.593	5.593	(1.093)	125465	50.0000	50.7243
37 Nitrobenzene	77	5.669	5.669	(1.108)	321201	50.0000	51.2796
40 Isophorone	82	5.875	5.875	(0.929)	530939	50.0000	51.2229
41 2-Nitrophenol	139	5.969	5.969	(0.944)	122816	50.0000	52.6846
42 2,4-Dimethylphenol	107	5.969	5.969	(0.944)	236911	50.0000	50.8094
43 Bis(2-chloroethoxy)methane	93	6.057	6.057	(0.958)	306272	50.0000	51.0446
45 Benzoic acid	122	6.057	6.057	(0.958)	132316	50.0000	44.1936
46 2,4-Dichlorophenol	162	6.186	6.186	(0.979)	207686	50.0000	50.7904
47 1,2,4-Trichlorobenzene	180	6.274	6.274	(0.993)	225464	50.0000	50.6611
50 Naphthalene	128	6.345	6.345	(1.004)	682881	50.0000	49.9189
51 4-Chloroaniline	127	6.404	6.404	(1.013)	283742	50.0000	53.1608
52 Hexachlorobutadiene	225	6.492	6.492	(1.027)	143302	50.0000	49.5329
59 4-Chloro-3-methylphenol	107	6.850	6.850	(1.084)	218281	50.0000	50.7031
62 2-Methylnaphthalene	142	7.009	7.009	(1.109)	421240	50.0000	51.0679
64 1-Methylnaphthalene	142	7.121	7.121	(1.126)	418913	50.0000	49.7464
63 Hexachlorocyclopentadiene	237	7.220	7.220	(0.902)	151642	50.0000	51.4500
67 2,4,6-Trichlorophenol	196	7.303	7.303	(0.912)	149869	50.0000	50.8895
68 2,4,5-Trichlorophenol	196	7.350	7.350	(0.918)	162633	50.0000	50.4661
71 2-Chloronaphthalene	162	7.485	7.485	(0.935)	431465	50.0000	51.2522
74 2-Nitroaniline	65	7.602	7.602	(0.949)	179433	50.0000	52.9960
76 Dimethyl phthalate	163	7.761	7.761	(0.969)	466576	50.0000	50.9265
79 2,6-Dinitrotoluene	165	7.843	7.843	(0.979)	105010	50.0000	52.5023
81 Acenaphthylene	152	7.878	7.878	(0.984)	677059	50.0000	50.6153
82 3-Nitroaniline	138	7.978	7.978	(0.996)	123123	50.0000	52.4415
84 Acenaphthene	153	8.037	8.037	(1.004)	383691	50.0000	49.7477
85 2,4-Dinitrophenol	184	8.066	8.066	(1.007)	61946	50.0000	49.5115
86 4-Nitrophenol	109	8.108	8.108	(1.012)	98683	50.0000	48.2207
87 2,4-Dinitrotoluene	165	8.190	8.190	(1.023)	142768	50.0000	53.6878
88 Dibenzofuran	168	8.172	8.172	(1.021)	568011	50.0000	50.9729
93 Diethyl phthalate	149	8.372	8.372	(1.045)	474218	50.0000	51.8347
95 4-Chlorophenyl phenyl ether	204	8.448	8.448	(1.055)	249424	50.0000	50.4631
96 Fluorene	166	8.472	8.472	(1.058)	482251	50.0000	50.4756

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
97	4-Nitroaniline	138	8.519	8.519	(1.064)	126284	50.0000	54.5523
99	4,6-Dinitro-2-methylphenol	198	8.542	8.542	(1.067)	94158	50.0000	50.0138
101	N-nitrosodiphenylamine	169	8.554	8.554	(1.068)	338049	50.0000	50.8054
102	Azobenzene	77	8.578	8.578	(1.071)	577186	50.0000	52.6554
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	137075	50.0000	48.8696
110	Hexachlorobenzene	284	8.995	8.995	(0.973)	140668	50.0000	47.0857
113	Pentachlorophenol	266	9.136	9.136	(0.988)	84559	50.0000	47.0581
118	Phenanthrene	178	9.265	9.265	(1.002)	697945	50.0000	48.7405
122	Anthracene	178	9.300	9.300	(1.006)	699265	50.0000	47.8851
123	Carbazole	167	9.424	9.424	(1.019)	632696	50.0000	49.6492
125	Di-n-butyl phthalate	149	9.653	9.653	(1.044)	757212	50.0000	50.3347
130	Fluoranthene	202	10.211	10.211	(1.104)	811467	50.0000	48.6866
131	Benzidine	184	10.293	10.293	(0.904)	105904	50.0000	50.5943
132	Pyrene	202	10.399	10.399	(0.914)	839271	50.0000	49.1748
137	Butyl benzyl phthalate	149	10.846	10.846	(0.953)	349288	50.0000	51.2668
140	3 3'-Dichlorobenzidine	252	11.322	11.322	(0.995)	288207	50.0000	49.1409
141	Benzo(a)anthracene	228	11.363	11.363	(0.998)	753552	50.0000	47.3185(H)
144	Chrysene	228	11.404	11.404	(1.002)	729407	50.0000	48.0516
143	Bis(2-ethylhexyl) phthalate	149	11.280	11.280	(0.991)	475577	50.0000	50.9870
146	Di-n-octyl phthalate	149	11.803	11.803	(1.037)	817557	50.0000	50.3390
147	Benzo(b)fluoranthene	252	12.432	12.432	(0.963)	657418	50.0000	45.4263
148	Benzo(k)fluoranthene	252	12.461	12.461	(0.965)	803773	50.0000	49.8870
150	Benzo(a)pyrene	252	12.837	12.837	(0.995)	645652	50.0000	48.6626(H)
155	Indeno(1,2,3-cd)pyrene	276	14.512	14.512	(1.124)	692118	50.0000	46.9169
156	Dibenz(a,h)anthracene	278	14.500	14.500	(1.123)	568986	50.0000	45.7616
157	Benzo(g,h,i)perylene	276	15.006	15.006	(1.163)	608692	50.0000	48.6318(H)
168	Methyl Styrene	118	4.876	4.876	(0.953)	280266	50.0000	51.5354
202	Alachlor	188	9.565	9.565	(1.034)	97592	50.0000	49.9865
204	Atrazine	200	8.983	8.983	(0.971)	19301	50.0000	70.5944
205	Caprolactam	55	6.727	6.727	(1.064)	127235	50.0000	51.7661
207	2,3-Dichlorobenzeneamine	161	7.320	7.320	(0.914)	236234	50.0000	51.7154
206	Decane	43	4.923	4.923	(0.962)	353239	50.0000	55.8722
213	n-Dodecane	43	6.233	6.233	(0.778)	323278	50.0000	51.5774
210	Tetradecane	43	7.373	7.373	(0.921)	278670	50.0000	51.9526
209	Hexadecane	57	8.290	8.290	(1.035)	347764	50.0000	51.8947
208	n-Octadecane	85	9.036	9.036	(0.977)	140116	50.0000	54.2330
211	n-Eicosane	43	9.671	9.671	(1.208)	253271	50.0000	53.0867
212	n-docosane	43	10.252	10.252	(1.280)	206492	50.0000	52.8311

QC Flag Legend

H - Operator selected an alternate compound hit.

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3369.d
Lab Smp Id: HSL_0050
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0050
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	151927	-5.56
49 Naphthalene-d8	591401	295700	1182802	565656	-4.35
83 Acenaphthene-d10	354180	177090	708360	326489	-7.82
117 Phenanthrene-d10	683575	341788	1367150	621188	-9.13
142 Chrysene-d12	669104	334552	1338208	614820	-8.11
151 Perylene-d12	582855	291428	1165710	509237	-12.63

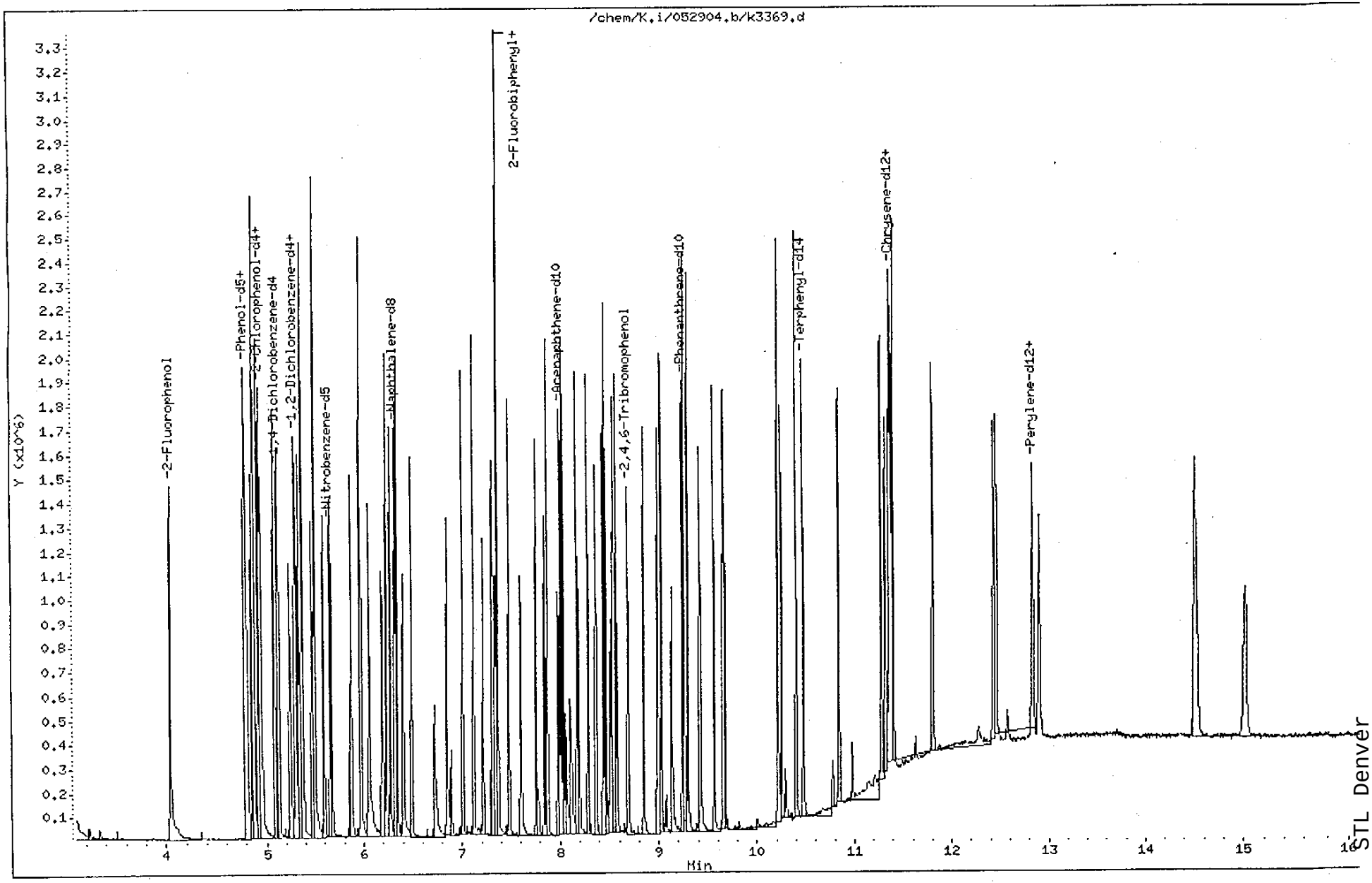
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.38	-0.11
151 Perylene-d12	12.92	12.42	13.42	12.91	-0.09

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

Data File: /chem/K.i/052904.b/k3369.d
Date : 29-MAY-2004 09:50
Client ID: HSL_0050
Sample Info: HSL_0050,BNA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i

Operator: kiddd
Column diameter: 0.25



MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3370.d
Lab Smp Id: HSL_0080 Client Smp ID: HSL_0080
Inj Date : 29-MAY-2004 10:14
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0080,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:25 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 10:14 Cal File: k3370.d
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	160879	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	591401	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	354180	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	683575	40.0000	
* 142 Chrysene-d12	240	11.392	11.392	(1.000)	669104	40.0000	
* 151 Perylene-d12	264	12.920	12.920	(1.000)	582855	40.0000	
$ 36 Nitrobenzene-d5	82	5.652	5.652	(1.104)	495576	80.0000	76.8555
$ 70 2-Fluorobiphenyl	172	7.368	7.368	(0.920)	761578	80.0000	70.8835
$ 133 Terphenyl-d14	244	10.476	10.476	(0.920)	849151	80.0000	75.1968
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	637068	120.000	120.467
$ 14 Phenol-d5	99	4.794	4.794	(0.937)	782549	120.000	117.255
$ 103 2,4,6-Tribromophenol	330	8.695	8.695	(0.940)	170366	120.000	112.382
$ 163 1,2-Dichlorobenzene-d4	152	5.293	5.293	(1.034)	245111	80.0000	74.3931
$ 162 2-Chlorophenol-d4	132	4.947	4.947	(0.967)	549979	120.000	112.303
5 Pyridine	79	3.061	3.061	(0.598)	524124	80.0000	82.8381(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	311274	80.0000	78.5704
16 Aniline	93	4.859	4.859	(0.949)	474972	80.0000	76.9019
15 Phenol	94	4.806	4.806	(0.939)	525824	80.0000	77.8347
18 Bis(2-chloroethyl) ether	93	4.882	4.882	(0.954)	516592	80.0000	85.5740
20 2-Chlorophenol	128	4.964	4.964	(0.970)	384826	80.0000	76.0616
21 1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	444184	80.0000	74.7481
23 1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	450046	80.0000	74.4312
24 Benzyl alcohol	108	5.246	5.246	(1.025)	286919	80.0000	82.3225
25 1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	407115	80.0000	73.9614
26 2-Methylphenol	108	5.340	5.340	(1.044)	395032	80.0000	76.9775
27 1H-Indene	116	5.376	5.376	(1.051)	671133	80.0000	74.7447
28 2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	695390	80.0000	80.3284
29 4-Methylphenol	108	5.470	5.470	(1.069)	406472	80.0000	76.5574
30 N-nitrosodi-n-propylamine	70	5.505	5.505	(1.076)	293762	80.0000	75.7966
32 Acetophenone	105	5.499	5.499	(1.075)	550052	80.0000	74.9116
33 Hexachloroethane	117	5.593	5.593	(1.093)	193096	80.0000	73.7229
37 Nitrobenzene	77	5.670	5.670	(1.108)	519312	80.0000	78.2946
40 Isophorone	82	5.875	5.875	(0.929)	859413	80.0000	79.3034
41 2-Nitrophenol	139	5.975	5.975	(0.945)	185459	80.0000	76.0934
42 2,4-Dimethylphenol	107	5.969	5.969	(0.944)	367096	80.0000	75.3024
43 Bis(2-chloroethoxy)methane	93	6.063	6.063	(0.959)	481390	80.0000	76.7379
45 Benzoic acid	122	6.069	6.069	(0.960)	247137	80.0000	78.9506
46 2,4-Dichlorophenol	162	6.187	6.187	(0.979)	340138	80.0000	79.5609
47 1,2,4-Trichlorobenzene	180	6.275	6.275	(0.993)	355550	80.0000	76.4132
50 Naphthalene	128	6.345	6.345	(1.004)	1088970	80.0000	76.1389
51 4-Chloroaniline	127	6.404	6.404	(1.013)	441503	80.0000	79.1175
52 Hexachlorobutadiene	225	6.492	6.492	(1.027)	234861	80.0000	77.6466
59 4-Chloro-3-methylphenol	107	6.851	6.851	(1.084)	363288	80.0000	80.7123
62 2-Methylnaphthalene	142	7.009	7.009	(1.109)	665337	80.0000	77.1491
64 1-Methylnaphthalene	142	7.121	7.121	(1.126)	669892	80.0000	76.0874
63 Hexachlorocyclopentadiene	237	7.221	7.221	(0.902)	259586	80.0000	81.1880
67 2,4,6-Trichlorophenol	196	7.309	7.309	(0.913)	254247	80.0000	79.5824
68 2,4,5-Trichlorophenol	196	7.350	7.350	(0.918)	275287	80.0000	78.7447
71 2-Chloronaphthalene	162	7.485	7.485	(0.935)	691218	80.0000	75.6878
74 2-Nitroaniline	65	7.603	7.603	(0.949)	296439	80.0000	80.7088
76 Dimethyl phthalate	163	7.761	7.761	(0.969)	763850	80.0000	76.8553
79 2,6-Dinitrotoluene	165	7.843	7.843	(0.979)	174099	80.0000	80.2396
81 Acenaphthylene	152	7.879	7.879	(0.984)	1094873	80.0000	75.4507
82 3-Nitroaniline	138	7.984	7.984	(0.997)	208642	80.0000	81.9185
84 Acenaphthene	153	8.037	8.037	(1.004)	633527	80.0000	75.7184
85 2,4-Dinitrophenol	184	8.067	8.067	(1.007)	124109	80.0000	81.8826
86 4-Nitrophenol	109	8.108	8.108	(1.012)	184377	80.0000	83.0506
87 2,4-Dinitrotoluene	165	8.196	8.196	(1.023)	235185	80.0000	81.5264
88 Dibenzofuran	168	8.172	8.172	(1.021)	914437	80.0000	75.6451
93 Diethyl phthalate	149	8.372	8.372	(1.045)	764878	80.0000	77.0689
95 4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.055)	405539	80.0000	75.6333
96 Fluorene	166	8.472	8.472	(1.058)	780040	80.0000	75.2610

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
97 4-Nitroaniline	138	8.519	8.519	(1.064)	205828	80.0000	81.9622
99 4,6-Dinitro-2-methylphenol	198	8.543	8.543	(1.067)	165883	80.0000	81.2230
101 N-nitrosodiphenylamine	169	8.554	8.554	(1.068)	555829	80.0000	77.0044
102 Azobenzene	77	8.584	8.584	(1.072)	942654	80.0000	79.2728
108 4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	232667	80.0000	75.3793
110 Hexachlorobenzene	284	8.995	8.995	(0.973)	238825	80.0000	72.6458
113 Pentachlorophenol	266	9.136	9.136	(0.988)	155605	80.0000	78.6928
118 Phenanthrene	178	9.265	9.265	(1.002)	1162587	80.0000	73.7787
122 Anthracene	178	9.301	9.301	(1.006)	1169467	80.0000	72.7752
123 Carbazole	167	9.424	9.424	(1.019)	1047299	80.0000	74.6835
125 Di-n-butyl phthalate	149	9.659	9.659	(1.044)	1243917	80.0000	75.1412
130 Fluoranthene	202	10.217	10.217	(1.105)	1356357	80.0000	73.9519
131 Benzidine	184	10.294	10.294	(0.904)	171611	80.0000	81.5853
132 Pyrene	202	10.405	10.405	(0.913)	1409725	80.0000	75.8978
137 Butyl benzyl phthalate	149	10.852	10.852	(0.953)	576308	80.0000	77.7252
140 3 3'-Dichlorobenzidine	252	11.334	11.334	(0.995)	497074	80.0000	77.8779
141 Benzo(a)anthracene	228	11.375	11.375	(0.998)	1352722	80.0000	78.0514(H)
144 Chrysene	228	11.416	11.416	(1.002)	1277940	80.0000	77.3575
143 Bis(2-ethylhexyl) phthalate	149	11.287	11.287	(0.991)	792167	80.0000	78.0386
146 Di-n-octyl phthalate	149	11.815	11.815	(1.037)	1387676	80.0000	78.5108
147 Benzo(b)fluoranthene	252	12.450	12.450	(0.964)	1275997	80.0000	77.0327
148 Benzo(k)fluoranthene	252	12.473	12.473	(0.965)	1319570	80.0000	71.5559(H)
150 Benzo(a)pyrene	252	12.849	12.849	(0.995)	1149393	80.0000	75.6877
155 Indeno(1,2,3-cd)pyrene	276	14.536	14.536	(1.125)	1277313	80.0000	75.6495
156 Dibenz(a,h)anthracene	278	14.524	14.524	(1.124)	1076968	80.0000	75.6766
157 Benzo(g,h,i)perylene	276	15.029	15.029	(1.163)	1058978	80.0000	73.9213
168 Methyl Styrene	118	4.876	4.876	(0.953)	427905	80.0000	74.3050
202 Alachlor	188	9.565	9.565	(1.034)	158360	80.0000	73.7090
204 Atrazine	200	8.983	8.983	(0.971)	19562	80.0000	65.0190
205 Caprolactam	55	6.733	6.733	(1.065)	219228	80.0000	85.3110
207 2,3-Dichlorobenzeneamine	161	7.321	7.321	(0.914)	382498	80.0000	77.1882
206 Decane	43	4.923	4.923	(0.962)	532393	80.0000	84.3941
213 n-Dodecane	43	6.234	6.234	(0.778)	497211	80.0000	78.7399
210 Tetradecane	43	7.373	7.373	(0.921)	417034	80.0000	79.8323
209 Hexadecane	57	8.290	8.290	(1.035)	541073	80.0000	79.3761
208 n-Octadecane	85	9.036	9.036	(0.977)	220567	80.0000	82.2760
211 n-Eicosane	43	9.677	9.677	(1.208)	417803	80.0000	80.7265
212 n-docosane	43	10.258	10.258	(1.281)	340024	80.0000	80.1937

QC Flag Legend

H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3370.d
Lab Smp Id: HSL_0080
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0080
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

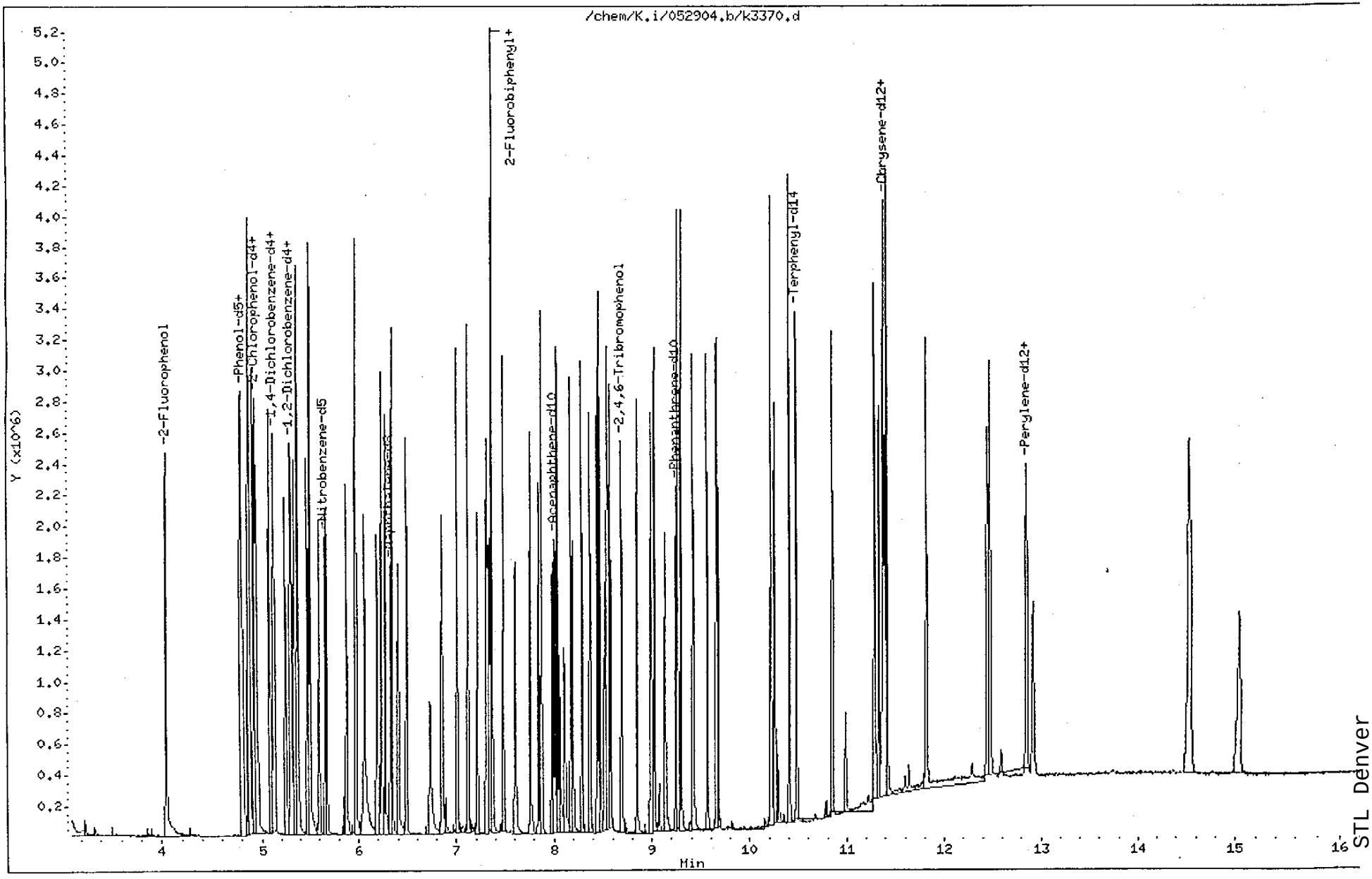
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	160879	0.00
49 Naphthalene-d8	591401	295700	1182802	591401	0.00
83 Acenaphthene-d10	354180	177090	708360	354180	0.00
117 Phenanthrene-d10	683575	341788	1367150	683575	0.00
142 Chrysene-d12	669104	334552	1338208	669104	0.00
151 Perylene-d12	582855	291428	1165710	582855	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.39	0.00
151 Perylene-d12	12.92	12.42	13.42	12.92	0.00

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

Data File: /chem/K.i/052904.b/k3370.d
Date : 29-MAY-2004 10:14
Client ID: HSL_0080
Sample Info: HSL_0080,BNA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i
Operator: kiddd
Column diameter: 0.25



MLV 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3371.d
Lab Smp Id: HSL_0120 Client Smp ID: HSL_0120
Inj Date : 29-MAY-2004 10:38
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0120,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:25 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 10:38 Cal File: k3371.d
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	148218	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	548536	40.0000	
* 83 Acenaphthene-d10	164	8.014	8.014	(1.000)	327879	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	619927	40.0000	
* 142 Chrysene-d12	240	11.404	11.404	(1.000)	622399	40.0000	
* 151 Perylene-d12	264	12.932	12.932	(1.000)	524720	40.0000	
$ 36 Nitrobenzene-d5	82	5.658	5.658	(1.106)	680215	120.000	114.501
$ 70 2-Fluorobiphenyl	172	7.368	7.368	(0.919)	1083521	120.000	108.938
$ 133 Terphenyl-d14	244	10.482	10.482	(0.919)	1235124	120.000	117.584
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	845568	180.000	173.552
$ 14 Phenol-d5	99	4.800	4.800	(0.938)	980481	180.000	159.462
$ 103 2,4,6-Tribromophenol	330	8.701	8.701	(0.941)	249349	180.000	181.371
$ 163 1,2-Dichlorobenzene-d4	152	5.299	5.299	(1.036)	326326	120.000	107.503
$ 162 2-Chlorophenol-d4	132	4.953	4.953	(0.968)	722835	180.000	160.207
5 Pyridine	79	3.061	3.061	(0.598)	664698	120.000	114.030

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	422408	120.000	115.730
16 Aniline	93	4.865	4.865	(0.951)	573451	120.000	125.199
15 Phenol	94	4.812	4.812	(0.940)	686644	120.000	110.322
18 Bis(2-chloroethyl) ether	93	4.888	4.888	(0.955)	597031	120.000	109.472
20 2-Chlorophenol	128	4.965	4.965	(0.970)	506895	120.000	108.747
21 1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	600361	120.000	109.660
23 1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	596485	120.000	107.077
24 Benzyl alcohol	108	5.247	5.247	(1.025)	376968	120.000	117.398
25 1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	535703	120.000	105.636
26 2-Methylphenol	108	5.346	5.346	(1.045)	518320	120.000	109.630
27 1H-Indene	116	5.376	5.376	(1.051)	882032	120.000	106.624
28 2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	867321	120.000	117.696
29 4-Methylphenol	108	5.470	5.470	(1.069)	547511	120.000	111.930
30 N-nitrosodi-n-propylamine	70	5.505	5.505	(1.076)	392832	120.000	110.017
32 Acetophenone	105	5.499	5.499	(1.075)	728617	120.000	107.707
33 Hexachloroethane	117	5.593	5.593	(1.093)	260865	120.000	108.104
37 Nitrobenzene	77	5.676	5.676	(1.109)	682448	120.000	111.679
40 Isophorone	82	5.881	5.881	(0.930)	1152610	120.000	114.670
41 2-Nitrophenol	139	5.975	5.975	(0.945)	253327	120.000	112.062
42 2,4-Dimethylphenol	107	5.975	5.975	(0.945)	491288	120.000	108.653
43 Bis(2-chloroethoxy)methane	93	6.063	6.063	(0.959)	643120	120.000	110.530
45 Benzoic acid	122	6.081	6.081	(0.962)	358306	120.000	123.410
46 2,4-Dichlorophenol	162	6.193	6.193	(0.980)	460649	120.000	116.169
47 1,2,4-Trichlorobenzene	180	6.275	6.275	(0.993)	476473	120.000	110.404
50 Naphthalene	128	6.345	6.345	(1.004)	1469994	120.000	110.811
51 4-Chloroaniline	127	6.410	6.410	(1.014)	583590	120.000	112.752
52 Hexachlorobutadiene	225	6.492	6.492	(1.027)	321392	120.000	114.558
59 4-Chloro-3-methylphenol	107	6.856	6.856	(1.085)	488624	120.000	117.042
62 2-Methylnaphthalene	142	7.009	7.009	(1.109)	894252	120.000	111.796
64 1-Methylnaphthalene	142	7.121	7.121	(1.126)	896479	120.000	109.780
63 Hexachlorocyclopentadiene	237	7.221	7.221	(0.901)	373989	120.000	126.351
67 2,4,6-Trichlorophenol	196	7.309	7.309	(0.912)	343802	120.000	116.246
68 2,4,5-Trichlorophenol	196	7.350	7.350	(0.917)	368967	120.000	114.007
71 2-Chloronaphthalene	162	7.485	7.485	(0.934)	941131	120.000	111.320
74 2-Nitroaniline	65	7.609	7.609	(0.949)	405577	120.000	119.280
76 Dimethyl phthalate	163	7.767	7.767	(0.969)	1059041	120.000	115.104
79 2,6-Dinitrotoluene	165	7.844	7.844	(0.979)	234575	120.000	116.784
81 Acenaphthylene	152	7.879	7.879	(0.983)	1506661	120.000	112.157
82 3-Nitroaniline	138	7.985	7.985	(0.996)	280494	120.000	118.964
84 Acenaphthene	153	8.043	8.043	(1.004)	871326	120.000	112.493
85 2,4-Dinitrophenol	184	8.067	8.067	(1.007)	179119	120.000	121.346
86 4-Nitrophenol	109	8.114	8.114	(1.012)	258611	120.000	125.833
87 2,4-Dinitrotoluene	165	8.196	8.196	(1.023)	310444	120.000	116.247
88 Dibenzofuran	168	8.178	8.178	(1.021)	1244387	120.000	111.197
93 Diethyl phthalate	149	8.372	8.372	(1.045)	1048689	120.000	114.142
95 4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.054)	562706	120.000	113.363
96 Fluorene	166	8.472	8.472	(1.057)	1077561	120.000	112.307

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
97	4-Nitroaniline	138	8.525	8.525	(1.064)	277889	120.000	119.534
99	4,6-Dinitro-2-methylphenol	198	8.549	8.549	(1.067)	227604	120.000	120.384
101	N-nitrosodiphenylamine	169	8.555	8.555	(1.067)	733187	120.000	109.724
102	Azobenzene	77	8.584	8.584	(1.071)	1266193	120.000	115.022
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	321385	120.000	114.812
110	Hexachlorobenzene	284	9.001	9.001	(0.973)	349432	120.000	117.203
113	Pentachlorophenol	266	9.136	9.136	(0.988)	226328	120.000	126.210
118	Phenanthrene	178	9.265	9.265	(1.002)	1608114	120.000	112.530
122	Anthracene	178	9.301	9.301	(1.006)	1627224	120.000	111.658
123	Carbazole	167	9.424	9.424	(1.019)	1408149	120.000	110.726
125	Di-n-butyl phthalate	149	9.659	9.659	(1.044)	1731312	120.000	115.321
130	Fluoranthene	202	10.223	10.223	(1.105)	1903277	120.000	114.426
131	Benzidine	184	10.300	10.300	(0.903)	227861	120.000	121.920
132	Pyrene	202	10.411	10.411	(0.913)	1962666	120.000	113.597
137	Butyl benzyl phthalate	149	10.858	10.858	(0.952)	790935	120.000	114.676
140	3 3'-Dichlorobenzidine	252	11.340	11.340	(0.994)	712505	120.000	120.007
141	Benzo(a)anthracene	228	11.387	11.387	(0.998)	1888310	120.000	117.130(H)
144	Chrysene	228	11.428	11.428	(1.002)	1768058	120.000	115.057
143	Bis(2-ethylhexyl) phthalate	149	11.298	11.298	(0.991)	1087167	120.000	115.137
146	Di-n-octyl phthalate	149	11.827	11.827	(1.037)	1958783	120.000	119.138
147	Benzo(b)fluoranthene	252	12.462	12.462	(0.964)	1871363	120.000	125.492
148	Benzo(k)fluoranthene	252	12.485	12.485	(0.965)	1937556	120.000	116.708(H)
150	Benzo(a)pyrene	252	12.867	12.867	(0.995)	1671958	120.000	122.297
155	Indeno(1,2,3-cd)pyrene	276	14.553	14.553	(1.125)	1877977	120.000	123.547
156	Dibenz(a,h)anthracene	278	14.542	14.542	(1.124)	1604987	120.000	125.275
157	Benzo(g,h,i)perylene	276	15.047	15.047	(1.164)	1538499	120.000	119.292
168	Methyl Styrene	118	4.882	4.882	(0.954)	561200	120.000	105.776
202	Alachlor	188	9.565	9.565	(1.034)	220149	120.000	112.989
204	Atrazine	200	8.989	8.989	(0.972)	12596	120.000	46.1642
205	Caprolactam	55	6.745	6.745	(1.067)	310128	120.000	130.115
207	2,3-Dichlorobenzeneamine	161	7.321	7.321	(0.913)	504347	120.000	109.942
206	Decane	43	4.923	4.923	(0.962)	691723	120.000	123.738
213	n-Dodecane	43	6.234	6.234	(0.778)	641947	120.000	119.989
210	Tetradecane	43	7.374	7.374	(0.920)	516003	120.000	119.932
209	Hexadecane	57	8.290	8.290	(1.034)	701965	120.000	119.537
208	n-Octadecane	85	9.036	9.036	(0.977)	290737	120.000	124.531
211	n-Eicosane	43	9.677	9.677	(1.207)	546799	120.000	114.125
212	n-docosane	43	10.258	10.258	(1.280)	451205	120.000	114.952

QC Flag Legend

H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3371.d
Lab Smp Id: HSL_0120
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0120
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	148218	-7.87
49 Naphthalene-d8	591401	295700	1182802	548536	-7.25
83 Acenaphthene-d10	354180	177090	708360	327879	-7.43
117 Phenanthrene-d10	683575	341788	1367150	619927	-9.31
142 Chrysene-d12	669104	334552	1338208	622399	-6.98
151 Perylene-d12	582855	291428	1165710	524720	-9.97

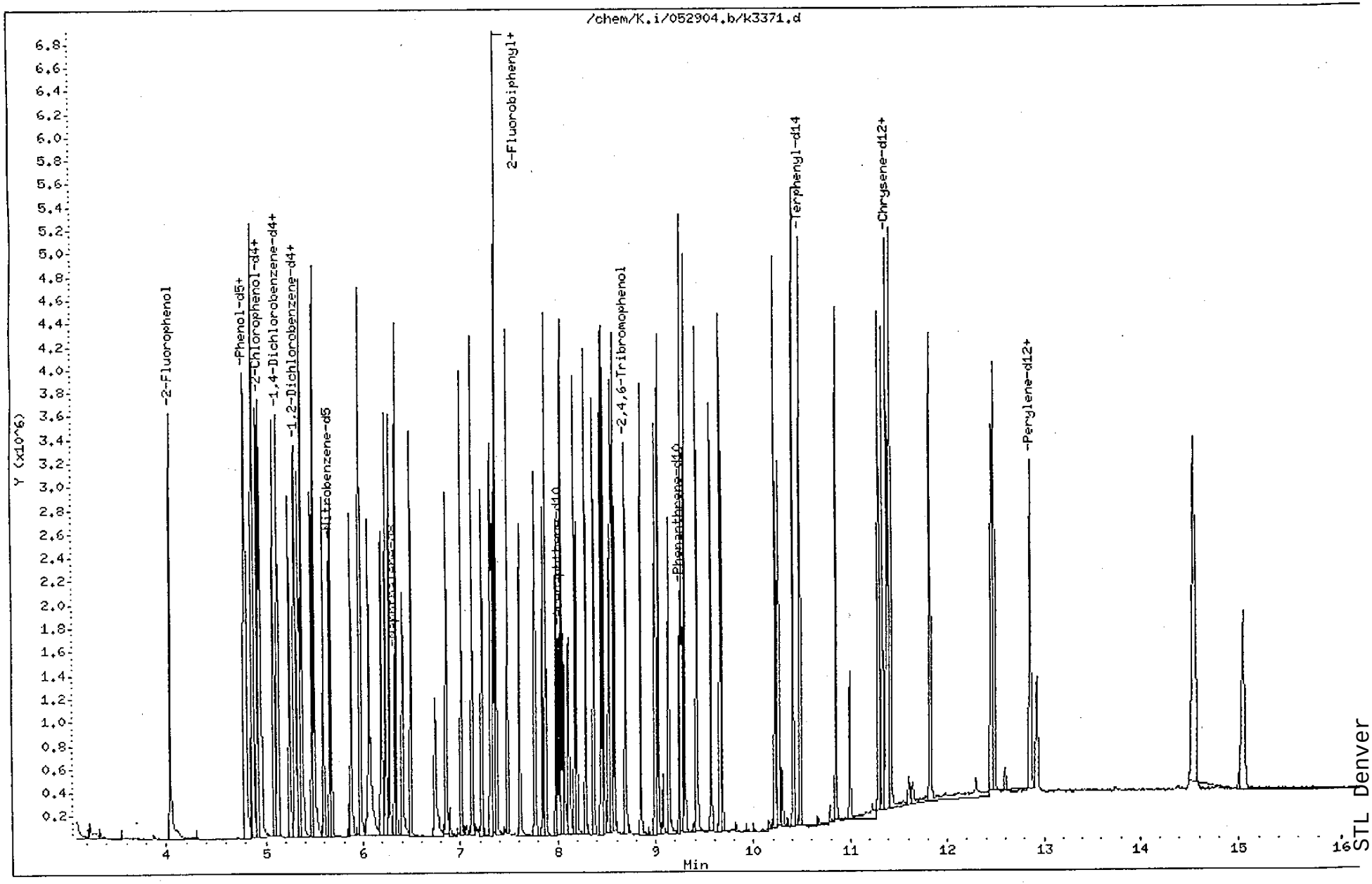
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.07
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.40	0.10
151 Perylene-d12	12.92	12.42	13.42	12.93	0.09

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

Data File: /chem/K.i/052904.b/k3371.d
Date : 29-MAY-2004 10:38
Client ID: HSL_0120
Sample Info: HSL_0120,BNA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i

Operator: kiddd
Column diameter: 0.25



MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3372.d
Lab Smp Id: HSL_0160 Client Smp ID: HSL_0160
Inj Date : 29-MAY-2004 11:01
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0160,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:25 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 11:01 Cal File: k3372.d
Als bottle: 12 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	144355	40.0000	
* 49 Naphthalene-d8	136	6.327	6.327	(1.000)	545046	40.0000	
* 83 Acenaphthene-d10	164	8.014	8.014	(1.000)	328134	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	631590	40.0000	
* 142 Chrysene-d12	240	11.380	11.380	(1.000)	629899	40.0000	
* 151 Perylene-d12	264	12.902	12.902	(1.000)	541942	40.0000	
$ 36 Nitrobenzene-d5	82	5.658	5.658	(1.106)	882690	160.000	152.560
$ 70 2-Fluorobiphenyl	172	7.367	7.367	(0.919)	1552775	160.000	155.995
$ 133 Terphenyl-d14	244	10.476	10.476	(0.920)	1711512	160.000	160.997
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	1071399	240.000	225.788
$ 14 Phenol-d5	99	4.800	4.800	(0.938)	1278859	240.000	213.555
$ 103 2,4,6-Tribromophenol	330	8.701	8.701	(0.941)	376206	240.000	268.591
$ 163 1,2-Dichlorobenzene-d4	152	5.299	5.299	(1.036)	422697	160.000	142.977
$ 162 2-Chlorophenol-d4	132	4.952	4.952	(0.968)	923177	240.000	210.086
5 Pyridine	79	3.061	3.061	(0.598)	863003	160.000	152.011

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	554413	160.000	155.961
16 Aniline	93	4.864	4.864	(0.951)	654887	160.000	168.649
15 Phenol	94	4.811	4.811	(0.940)	854878	160.000	141.028
18 Bis(2-chloroethyl) ether	93	4.888	4.888	(0.955)	810150	160.000	155.810
20 2-Chlorophenol	128	4.964	4.964	(0.970)	631125	160.000	139.022
21 1,3-Dichlorobenzene	146	5.088	5.088	(0.994)	772351	160.000	144.850
23 1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	786153	160.000	144.902
24 Benzyl alcohol	108	5.252	5.252	(1.026)	492716	160.000	157.552
25 1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	695502	160.000	140.817
26 2-Methylphenol	108	5.346	5.346	(1.045)	662421	160.000	143.858
27 1H-Indene	116	5.381	5.381	(1.052)	1123337	160.000	139.428
28 2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	1066676	160.000	159.502
29 4-Methylphenol	108	5.475	5.475	(1.070)	728038	160.000	152.819
30 N-nitrosodi-n-propylamine	70	5.511	5.511	(1.077)	496573	160.000	142.792
32 Acetophenone	105	5.505	5.505	(1.076)	947642	160.000	143.832
33 Hexachloroethane	117	5.593	5.593	(1.093)	340773	160.000	144.998
37 Nitrobenzene	77	5.675	5.675	(1.109)	888560	160.000	149.299
40 Isophorone	82	5.881	5.881	(0.929)	1504315	160.000	150.618
41 2-Nitrophenol	139	5.975	5.975	(0.944)	327499	160.000	145.800
42 2,4-Dimethylphenol	107	5.975	5.975	(0.944)	654586	160.000	145.695
43 Bis(2-chloroethoxy)methane	93	6.063	6.063	(0.958)	843216	160.000	145.848
45 Benzoic acid	122	6.092	6.092	(0.963)	483102	160.000	167.458
46 2,4-Dichlorophenol	162	6.192	6.192	(0.979)	605761	160.000	153.743
47 1,2,4-Trichlorobenzene	180	6.275	6.275	(0.992)	630584	160.000	147.048
50 Naphthalene	128	6.345	6.345	(1.003)	1916667	160.000	145.407
51 4-Chloroaniline	127	6.416	6.416	(1.014)	754633	160.000	146.732
52 Hexachlorobutadiene	225	6.492	6.492	(1.026)	418548	160.000	150.143
59 4-Chloro-3-methylphenol	107	6.856	6.856	(1.084)	646832	160.000	155.930
62 2-Methylnaphthalene	142	7.009	7.009	(1.108)	1175403	160.000	147.885
64 1-Methylnaphthalene	142	7.121	7.121	(1.125)	1193633	160.000	147.105
63 Hexachlorocyclopentadiene	237	7.220	7.220	(0.901)	510303	160.000	172.271
67 2,4,6-Trichlorophenol	196	7.309	7.309	(0.912)	454627	160.000	153.599
68 2,4,5-Trichlorophenol	196	7.350	7.350	(0.917)	510478	160.000	157.610
71 2-Chloronaphthalene	162	7.485	7.485	(0.934)	1242944	160.000	146.905
74 2-Nitroaniline	65	7.608	7.608	(0.949)	520091	160.000	152.840
76 Dimethyl phthalate	163	7.767	7.767	(0.969)	1384826	160.000	150.395
79 2,6-Dinitrotoluene	165	7.849	7.849	(0.979)	314463	160.000	156.435
81 Acenaphthylene	152	7.879	7.879	(0.983)	2025860	160.000	150.689
82 3-Nitroaniline	138	7.984	7.984	(0.996)	352469	160.000	149.374
84 Acenaphthene	153	8.043	8.043	(1.004)	1175774	160.000	151.682
85 2,4-Dinitrophenol	184	8.072	8.072	(1.007)	246098	160.000	162.384
86 4-Nitrophenol	109	8.114	8.114	(1.012)	352325	160.000	171.298
87 2,4-Dinitrotoluene	165	8.196	8.196	(1.023)	410660	160.000	153.654
88 Dibenzofuran	168	8.178	8.178	(1.021)	1678811	160.000	149.900
93 Diethyl phthalate	149	8.378	8.378	(1.045)	1409101	160.000	153.250
95 4-Chlorophenyl phenyl ether	204	8.448	8.448	(1.054)	763960	160.000	153.788
96 Fluorene	166	8.478	8.478	(1.058)	1452773	160.000	151.295

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
97	4-Nitroaniline	138	8.531	8.531	(1.065)	358264	160.000	153.987
99	4,6-Dinitro-2-methylphenol	198	8.548	8.548	(1.067)	311002	160.000	164.366
101	N-nitrosodiphenylamine	169	8.560	8.560	(1.068)	1013724	160.000	151.589
102	Azobenzene	77	8.584	8.584	(1.071)	1637269	160.000	148.616
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	441624	160.000	154.853
110	Hexachlorobenzene	284	9.001	9.001	(0.973)	491983	160.000	161.969
113	Pentachlorophenol	266	9.136	9.136	(0.988)	316447	160.000	173.206
118	Phenanthrene	178	9.265	9.265	(1.002)	2206953	160.000	151.583
122	Anthracene	178	9.300	9.300	(1.006)	2220105	160.000	149.527
123	Carbazole	167	9.424	9.424	(1.019)	1882369	160.000	145.281
125	Di-n-butyl phthalate	149	9.659	9.659	(1.044)	2308070	160.000	150.899
130	Fluoranthene	202	10.217	10.217	(1.105)	2642256	160.000	155.920
131	Benzidine	184	10.288	10.288	(0.904)	308364	160.000	167.341
132	Pyrene	202	10.399	10.399	(0.914)	2732057	160.000	156.245
137	Butyl benzyl phthalate	149	10.840	10.840	(0.952)	1043765	160.000	149.532
140	3 3'-Dichlorobenzidine	252	11.322	11.322	(0.995)	976440	160.000	162.503
141	Benzo(a)anthracene	228	11.363	11.363	(0.998)	2688742	160.000	164.795(H)
144	Chrysene	228	11.404	11.404	(1.002)	2501366	160.000	160.839
143	Bis(2-ethylhexyl) phthalate	149	11.275	11.275	(0.991)	1469243	160.000	153.748(H)
146	Di-n-octyl phthalate	149	11.803	11.803	(1.037)	2616545	160.000	157.250
147	Benzo(b)fluoranthene	252	12.438	12.438	(0.964)	2657697	160.000	172.559(H)
148	Benzo(k)fluoranthene	252	12.467	12.467	(0.966)	2852250	160.000	166.344
150	Benzo(a)pyrene	252	12.843	12.843	(0.995)	2358714	160.000	167.047
155	Indeno(1,2,3-cd)pyrene	276	14.536	14.536	(1.127)	2729763	160.000	173.877
156	Dibenz(a,h)anthracene	278	14.524	14.524	(1.126)	2318863	160.000	175.244
157	Benzo(g,h,i)perylene	276	15.035	15.035	(1.165)	2202836	160.000	165.376
168	Methyl Styrene	118	4.882	4.882	(0.954)	731341	160.000	141.533
202	Alachlor	188	9.565	9.565	(1.034)	300425	160.000	151.343
204	Atrazine	200	8.989	8.989	(0.972)	10143	160.000	36.4875
205	Caprolactam	55	6.756	6.756	(1.068)	416646	160.000	175.924
207	2,3-Dichlorobenzeneamine	161	7.320	7.320	(0.913)	655068	160.000	142.686
206	Decane	43	4.929	4.929	(0.963)	856199	160.000	160.376
213	n-Dodecane	43	6.239	6.239	(0.779)	797428	160.000	159.555
210	Tetradecane	43	7.373	7.373	(0.920)	621714	160.000	157.237
209	Hexadecane	57	8.290	8.290	(1.034)	881323	160.000	158.786
208	n-Octadecane	85	9.036	9.036	(0.977)	366232	160.000	156.550
211	n-Eicosane	43	9.676	9.676	(1.207)	671838	160.000	140.114
212	n-docosane	43	10.252	10.252	(1.279)	568895	160.000	144.822

QC Flag Legend

H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3372.d
Lab Smp Id: HSL_0160
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0160
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

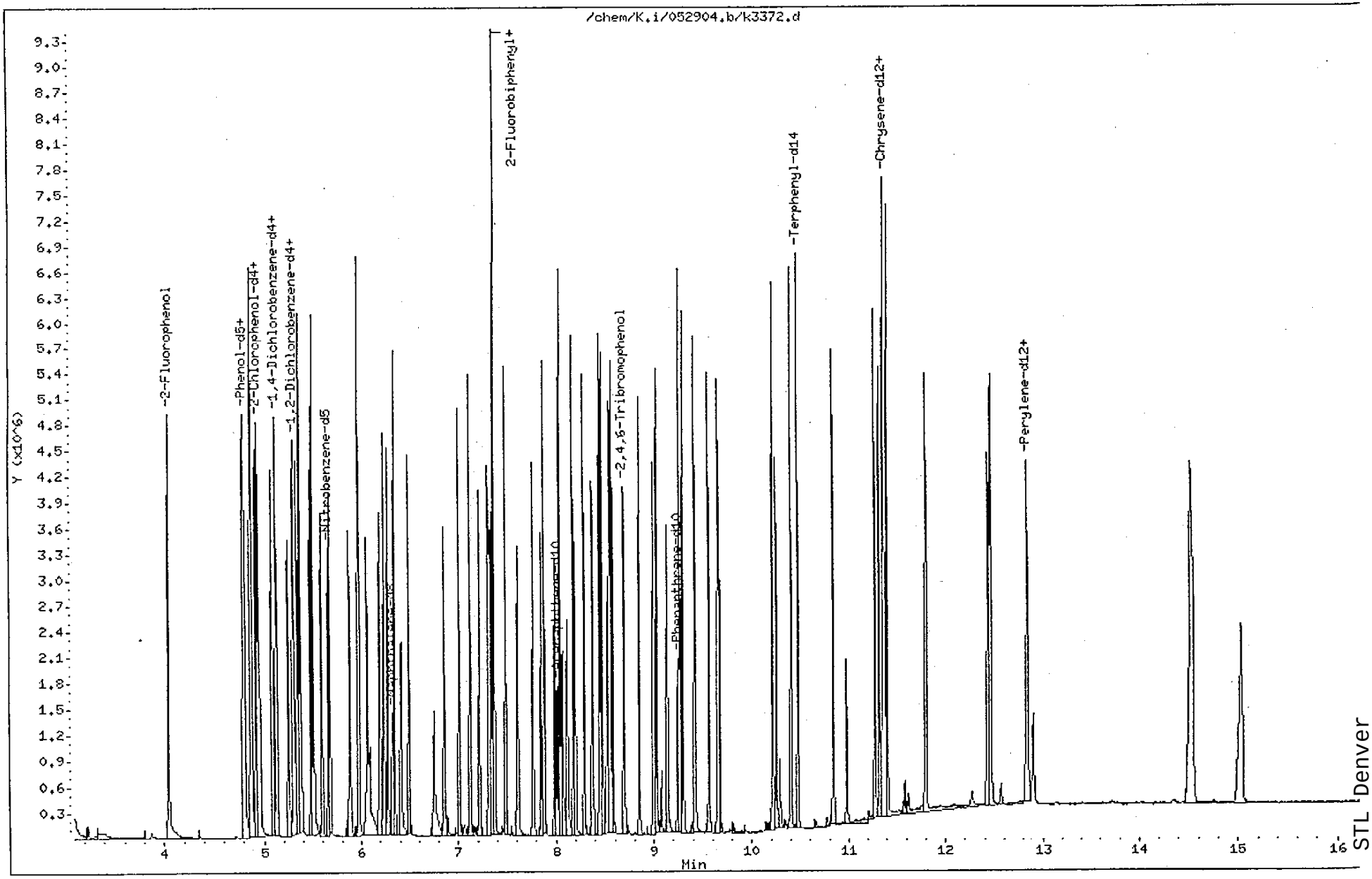
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	144355	-10.27
49 Naphthalene-d8	591401	295700	1182802	545046	-7.84
83 Acenaphthene-d10	354180	177090	708360	328134	-7.35
117 Phenanthrene-d10	683575	341788	1367150	631590	-7.60
142 Chrysene-d12	669104	334552	1338208	629899	-5.86
151 Perylene-d12	582855	291428	1165710	541942	-7.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.33	0.09
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.07
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.38	-0.10
151 Perylene-d12	12.92	12.42	13.42	12.90	-0.14

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

Data File: /chem/K.i/052904.b/k3372.d
Date : 29-MAY-2004 11:01
Client ID: HSL_0160
Sample Info: HSL_0160,BNA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i
Operator: kiddd
Column diameter: 0.25



MS 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3373.d
Lab Smp Id: HSL_0200 Client Smp ID: HSL_0200
Inj Date : 29-MAY-2004 11:25
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0200,BNA1509,P:051104,E:053104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:26 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 11:25 Cal File: k3373.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	134381	40.0000	
* 49 Naphthalene-d8	136	6.328	6.328	(1.000)	516776	40.0000	
* 83 Acenaphthene-d10	164	8.014	8.014	(1.000)	313691	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	599820	40.0000	
* 142 Chrysene-d12	240	11.392	11.392	(1.000)	608392	40.0000	
* 151 Perylene-d12	264	12.914	12.914	(1.000)	511851	40.0000	
$ 36 Nitrobenzene-d5	82	5.658	5.658	(1.106)	1019810	200.000	189.341
$ 70 2-Fluorobiphenyl	172	7.368	7.368	(0.919)	1956595	200.000	205.614(A)
$ 133 Terphenyl-d14	244	10.476	10.476	(0.920)	2144623	200.000	208.870(A)
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	1226571	300.000	277.675
$ 14 Phenol-d5	99	4.806	4.806	(0.939)	1460262	300.000	261.946
$ 103 2,4,6-Tribromophenol	330	8.701	8.701	(0.941)	463089	300.000	348.132(A)
$ 163 1,2-Dichlorobenzene-d4	152	5.299	5.299	(1.036)	498875	200.000	181.269
$ 162 2-Chlorophenol-d4	132	4.953	4.953	(0.968)	1081325	300.000	264.340
5 Pyridine	79	3.061	3.061	(0.598)	988567	200.000	187.052

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
4	N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	637972	200.000	192.788
16	Aniline	93	4.865	4.865	(0.951)	650513	200.000	190.754
15	Phenol	94	4.818	4.818	(0.941)	1005128	200.000	178.121
18	Bis(2-chloroethyl) ether	93	4.888	4.888	(0.955)	979169	200.000	204.785(A)
20	2-Chlorophenol	128	4.970	4.970	(0.971)	722143	200.000	170.878
21	1,3-Dichlorobenzene	146	5.094	5.094	(0.995)	900034	200.000	181.325
23	1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	920008	200.000	182.159
24	Benzyl alcohol	108	5.252	5.252	(1.026)	559083	200.000	192.042
25	1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	807932	200.000	175.721
26	2-Methylphenol	108	5.346	5.346	(1.045)	778400	200.000	181.592
27	1H-Indene	116	5.382	5.382	(1.052)	1319672	200.000	175.954
28	2,2'-oxybis(1-chloropropane)	45	5.370	5.370	(1.049)	1179996	200.000	201.004(A)
29	4-Methylphenol	108	5.476	5.476	(1.070)	836097	200.000	188.527
30	N-nitrosodi-n-propylamine	70	5.511	5.511	(1.077)	580869	200.000	179.430
32	Acetophenone	105	5.505	5.505	(1.076)	1080562	200.000	176.180
33	Hexachloroethane	117	5.593	5.593	(1.093)	392941	200.000	179.605
37	Nitrobenzene	77	5.675	5.675	(1.109)	1001946	200.000	180.846
40	Isophorone	82	5.881	5.881	(0.929)	1754800	200.000	185.309
41	2-Nitrophenol	139	5.975	5.975	(0.944)	390110	200.000	183.175
42	2,4-Dimethylphenol	107	5.975	5.975	(0.944)	799811	200.000	187.757
43	Bis(2-chloroethoxy)methane	93	6.063	6.063	(0.958)	962579	200.000	175.602
45	Benzoic acid	122	6.104	6.104	(0.965)	576719	200.000	210.844(A)
46	2,4-Dichlorophenol	162	6.193	6.193	(0.979)	696774	200.000	186.516
47	1,2,4-Trichlorobenzene	180	6.275	6.275	(0.992)	743929	200.000	182.970
50	Naphthalene	128	6.345	6.345	(1.003)	2240619	200.000	179.283
51	4-Chloroaniline	127	6.416	6.416	(1.014)	872314	200.000	178.892
52	Hexachlorobutadiene	225	6.492	6.492	(1.026)	504212	200.000	190.768
59	4-Chloro-3-methylphenol	107	6.862	6.862	(1.084)	739230	200.000	187.952
62	2-Methylnaphthalene	142	7.009	7.009	(1.108)	1392485	200.000	184.782
64	1-Methylnaphthalene	142	7.121	7.121	(1.125)	1397775	200.000	181.687
63	Hexachlorocyclopentadiene	237	7.221	7.221	(0.901)	613057	200.000	216.488(A)
67	2,4,6-Trichlorophenol	196	7.309	7.309	(0.912)	548248	200.000	193.758
68	2,4,5-Trichlorophenol	196	7.350	7.350	(0.917)	593600	200.000	191.713
71	2-Chloronaphthalene	162	7.485	7.485	(0.934)	1465350	200.000	181.165
74	2-Nitroaniline	65	7.609	7.609	(0.949)	606114	200.000	186.321
76	Dimethyl phthalate	163	7.767	7.767	(0.969)	1630812	200.000	185.264
79	2,6-Dinitrotoluene	165	7.849	7.849	(0.979)	358718	200.000	186.667
81	Acenaphthylene	152	7.879	7.879	(0.983)	2406387	200.000	187.235
82	3-Nitroaniline	138	7.990	7.990	(0.997)	419531	200.000	185.980
84	Acenaphthene	153	8.043	8.043	(1.004)	1443861	200.000	194.842
85	2,4-Dinitrophenol	184	8.073	8.073	(1.007)	281085	200.000	191.811
86	4-Nitrophenol	109	8.114	8.114	(1.012)	414215	200.000	210.661(A)
87	2,4-Dinitrotoluene	165	8.202	8.202	(1.023)	478329	200.000	187.214
88	Dibenzofuran	168	8.178	8.178	(1.021)	2001504	200.000	186.941
93	Diethyl phthalate	149	8.378	8.378	(1.045)	1665324	200.000	189.456
95	4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.054)	920755	200.000	193.886
96	Fluorene	166	8.478	8.478	(1.058)	1789059	200.000	194.895

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
97	4-Nitroaniline	138	8.531	8.531	(1.065)	397586	200.000	178.757
99	4,6-Dinitro-2-methylphenol	198	8.555	8.555	(1.067)	376785	200.000	208.302(A)
101	N-nitrosodiphenylamine	169	8.560	8.560	(1.068)	1202034	200.000	188.024
102	Azobenzene	77	8.584	8.584	(1.071)	1897119	200.000	180.131
108	4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	534206	200.000	197.238
110	Hexachlorobenzene	284	9.001	9.001	(0.973)	597486	200.000	207.121(A)
113	Pentachlorophenol	266	9.142	9.142	(0.989)	372836	200.000	214.879(A)
118	Phenanthrene	178	9.271	9.271	(1.003)	2701202	200.000	195.356
122	Anthracene	178	9.307	9.307	(1.006)	2757915	200.000	195.588
123	Carbazole	167	9.424	9.424	(1.019)	2259982	200.000	183.664
125	Di-n-butyl phthalate	149	9.659	9.659	(1.044)	2750400	200.000	189.342
130	Fluoranthene	202	10.217	10.217	(1.105)	3178823	200.000	197.518
131	Benzidine	184	10.294	10.294	(0.904)	319500	200.000	180.444
132	Pyrene	202	10.405	10.405	(0.913)	3290109	200.000	194.812
137	Butyl benzyl phthalate	149	10.846	10.846	(0.952)	1234942	200.000	183.174
140	3 3'-Dichlorobenzidine	252	11.328	11.328	(0.994)	1212741	200.000	208.964(A)
141	Benzo(a)anthracene	228	11.375	11.375	(0.998)	3233448	200.000	205.186(AH)
144	Chrysene	228	11.416	11.416	(1.002)	3065859	200.000	204.105(A)
143	Bis(2-ethylhexyl) phthalate	149	11.281	11.281	(0.990)	1719395	200.000	186.285
146	Di-n-octyl phthalate	149	11.815	11.815	(1.037)	3121170	200.000	194.209
147	Benzo(b)fluoranthene	252	12.450	12.450	(0.964)	3293795	200.000	226.432(AH)
148	Benzo(k)fluoranthene	252	12.479	12.479	(0.966)	3468992	200.000	214.207(A)
150	Benzo(a)pyrene	252	12.855	12.855	(0.995)	2851751	200.000	213.838(A)
155	Indeno(1,2,3-cd)pyrene	276	14.553	14.553	(1.127)	3354786	200.000	226.251(A)
156	Dibenz(a,h)anthracene	278	14.542	14.542	(1.126)	2845309	200.000	227.670(A)
157	Benzo(g,h,i)perylene	276	15.047	15.047	(1.165)	2708460	200.000	215.289(A)
168	Methyl Styrene	118	4.882	4.882	(0.954)	864962	200.000	179.816
202	Alachlor	188	9.571	9.571	(1.035)	358858	200.000	190.354
204	Atrazine	200	8.989	8.989	(0.972)	7363	200.000	27.8899
205	Caprolactam	55	6.762	6.762	(1.069)	454902	200.000	202.585(AM)
207	2,3-Dichlorobenzeneamine	161	7.327	7.327	(0.914)	764588	200.000	174.209
206	Decane	43	4.929	4.929	(0.963)	953119	200.000	194.034
213	n-Dodecane	43	6.240	6.240	(0.779)	901546	200.000	200.426(A)
210	Tetradecane	43	7.373	7.373	(0.920)	701696	200.000	201.779(A)
209	Hexadecane	57	8.290	8.290	(1.034)	1011851	200.000	200.968(A)
208	n-Octadecane	85	9.036	9.036	(0.977)	433682	200.000	197.893
211	n-Eicosane	43	9.677	9.677	(1.207)	766892	200.000	167.302
212	n-docosane	43	10.258	10.258	(1.280)	637387	200.000	169.729

QC Flag Legend

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

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3373.d
Lab Smp Id: HSL_0200
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0200
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

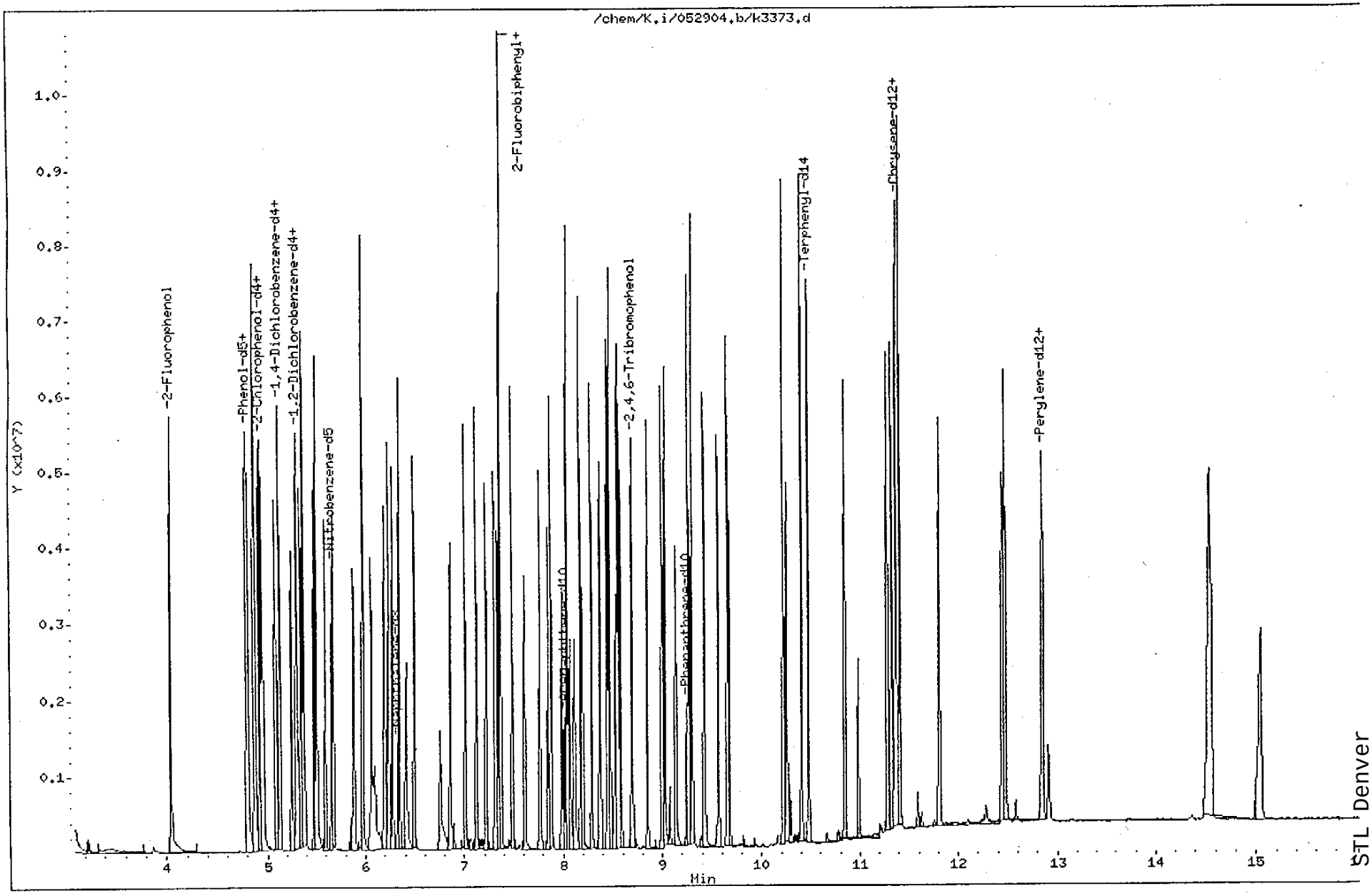
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	134381	-16.47
49 Naphthalene-d8	591401	295700	1182802	516776	-12.62
83 Acenaphthene-d10	354180	177090	708360	313691	-11.43
117 Phenanthrene-d10	683575	341788	1367150	599820	-12.25
142 Chrysene-d12	669104	334552	1338208	608392	-9.07
151 Perylene-d12	582855	291428	1165710	511851	-12.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.33	0.09
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.07
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.39	0.00
151 Perylene-d12	12.92	12.42	13.42	12.91	-0.04

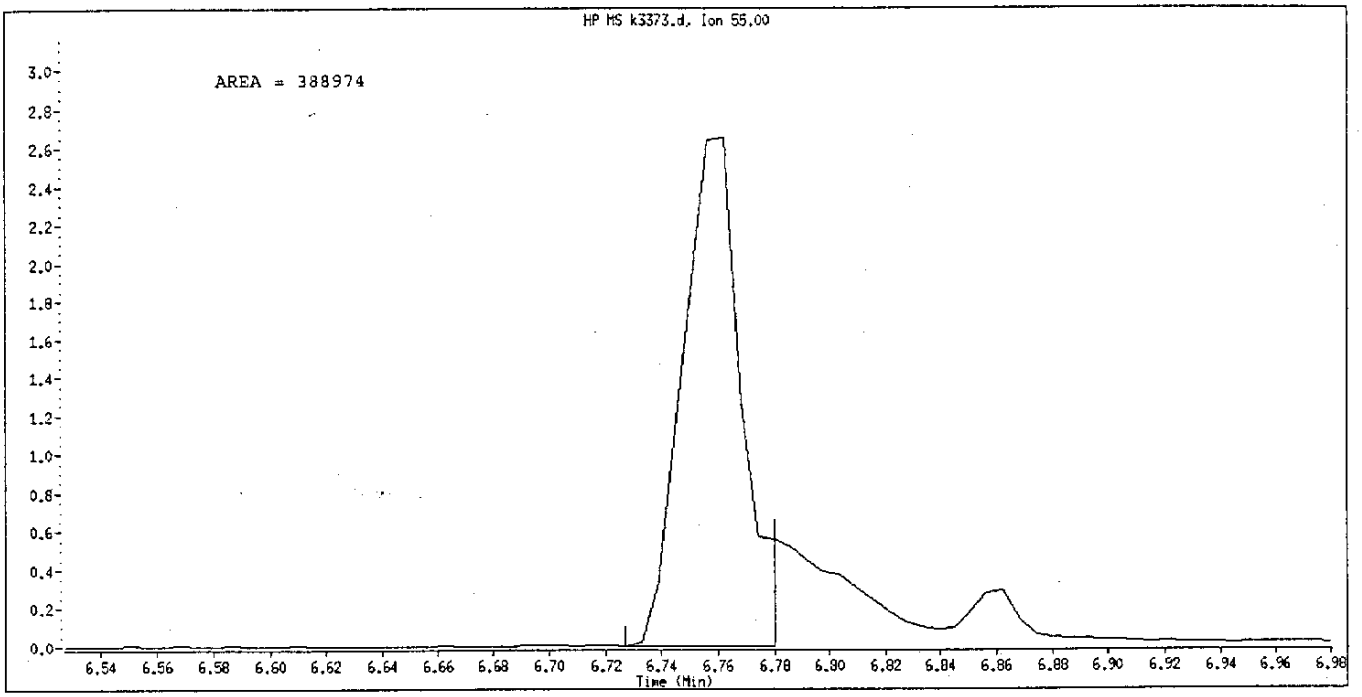
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/K.i/052904.b/k3373.d
Date : 29-MAY-2004 11:25
Client ID: HSL_0200
Sample Info: HSL_0200,BNA1509,P:051104,E:053104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

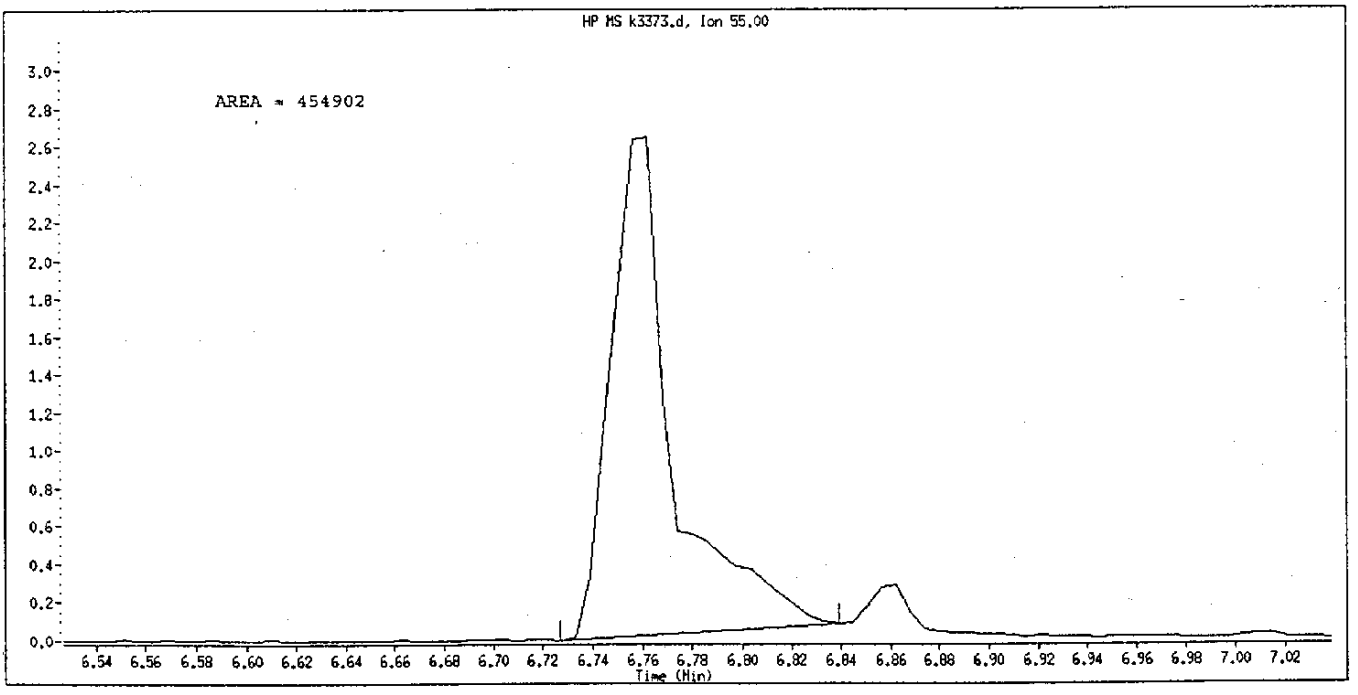
Instrument: K.i
Operator: kiddd
Column diameter: 0.25



Data File Name: k3373.d
Inj. Date and Time: 29-MAY-2004 11:25
Instrument ID: K.i
Client ID: HSL_0200
Compound Name: Caprolactam
CAS #: 105-60-2
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Peak Tailing or Fronting

MW 05-31-04

6.1.04 BJS

NMW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3374.d
Lab Smp Id: HSL_0100 SSV Client Smp ID: HSL_0100 SSV
Inj Date : 29-MAY-2004 11:49
Operator : kiddd Inst ID: K.i
Smp Info : HSL_0100 SSV,BNA1346,P:051104,E:113004
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 14:26 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 11:25 Cal File: k3373.d
Als bottle: 14 QC Sample: SSV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLSSV.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	156714	40.0000	
* 49 Naphthalene-d8	136	6.322	6.328	(1.000)	593058	40.0000	
* 83 Acenaphthene-d10	164	8.014	8.014	(1.000)	355811	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	663041	40.0000	
* 142 Chrysene-d12	240	11.392	11.392	(1.000)	654052	40.0000	
* 151 Perylene-d12	264	12.914	12.914	(1.000)	541177	40.0000	
$ 36 Nitrobenzene-d5	82	5.652	5.658	(1.104)	619213	98.5817	98.5817
$ 70 2-Fluorobiphenyl	172	7.368	7.368	(0.919)	966871	89.5785	89.5785
$ 133 Terphenyl-d14	244	10.476	10.476	(0.920)	1207742	109.413	109.413
$ 10 2-Fluorophenol	112	4.048	4.048	(0.791)	760324	147.595	147.595
$ 14 Phenol-d5	99	4.800	4.806	(0.938)	866002	133.208	133.208
$ 103 2,4,6-Tribromophenol	330	8.695	8.701	(0.940)	237588	161.579	161.579
5 Pyridine	79	3.061	3.061	(0.598)	551540	89.4880	89.4880
4 N-Nitrosodimethylamine	74	3.037	3.037	(0.594)	382610	99.1434	99.1434
16 Aniline	93	4.870	4.865	(0.952)	398554	59.5840	59.5840(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15	Phenol	94	4.812	4.818	(0.940)	647530	98.3976	98.3976
18	Bis(2-chloroethyl) ether	93	4.882	4.888	(0.954)	677499	118.104	118.104
20	2-Chlorophenol	128	4.964	4.970	(0.970)	492662	99.9635	99.9635
21	1,3-Dichlorobenzene	146	5.088	5.094	(0.994)	577798	99.8170	99.8170
23	1,4-Dichlorobenzene	146	5.135	5.135	(1.003)	571354	97.0053	97.0052
24	Benzyl alcohol	108	5.246	5.252	(1.025)	318885	93.9258	93.9258
25	1,2-Dichlorobenzene	146	5.311	5.311	(1.038)	536227	100.007	100.006
26	2-Methylphenol	108	5.346	5.346	(1.045)	467646	93.5493	93.5493
27	1H-Indene	116	5.376	5.382	(1.051)	819034	93.6408	93.6408
28	2,2'-oxybis(1-chloropropane)	45	5.364	5.370	(1.048)	855845	107.755	107.755
29	4-Methylphenol	108	5.470	5.476	(1.069)	494661	95.6435	95.6435
30	N-nitrosodi-n-propylamine	70	5.505	5.511	(1.076)	364249	96.4816	96.4816
32	Acetophenone	105	5.499	5.505	(1.075)	672299	93.9938	93.9938
33	Hexachloroethane	117	5.593	5.593	(1.093)	259563	101.733	101.733
37	Nitrobenzene	77	5.675	5.675	(1.109)	655150	101.400	101.400
40	Isophorone	82	5.875	5.881	(0.929)	1035657	95.2996	95.2996
41	2-Nitrophenol	139	5.969	5.975	(0.944)	234889	96.1052	96.1052
42	2,4-Dimethylphenol	107	5.975	5.975	(0.945)	470440	96.2318	96.2318
43	Bis(2-chloroethoxy)methane	93	6.063	6.063	(0.959)	613654	97.5487	97.5487
45	Benzoic acid	122	6.081	6.104	(0.962)	296392	94.4211	94.4211
46	2,4-Dichlorophenol	162	6.192	6.193	(0.980)	428153	99.8685	99.8685
47	1,2,4-Trichlorobenzene	180	6.275	6.275	(0.993)	458714	98.3093	98.3093
50	Naphthalene	128	6.345	6.345	(1.004)	1350727	94.1766	94.1766
51	4-Chloroaniline	127	6.410	6.416	(1.014)	486721	86.9768	86.9768
52	Hexachlorobutadiene	225	6.492	6.492	(1.027)	309066	101.894	101.894
59	4-Chloro-3-methylphenol	107	6.856	6.862	(1.085)	448273	99.3153	99.3153
62	2-Methylnaphthalene	142	7.009	7.009	(1.109)	838597	96.9677	96.9677
64	1-Methylnaphthalene	142	7.121	7.121	(1.126)	796204	90.1814	90.1814
63	Hexachlorocyclopentadiene	237	7.221	7.221	(0.901)	310915	96.7959	96.7959
67	2,4,6-Trichlorophenol	196	7.309	7.309	(0.912)	332099	103.475	103.474
68	2,4,5-Trichlorophenol	196	7.350	7.350	(0.917)	358858	102.179	102.179
71	2-Chloronaphthalene	162	7.485	7.485	(0.934)	877409	95.6352	95.6352
74	2-Nitroaniline	65	7.608	7.609	(0.949)	384839	104.296	104.296
76	Dimethyl phthalate	163	7.761	7.767	(0.968)	980083	98.1597	98.1597
79	2,6-Dinitrotoluene	165	7.843	7.849	(0.979)	222516	102.084	102.084
81	Acenaphthylene	152	7.879	7.879	(0.983)	1334709	91.5569	91.5569
82	3-Nitroaniline	138	7.984	7.990	(0.996)	249282	97.4262	97.4262
84	Acenaphthene	153	8.043	8.043	(1.004)	807622	96.0836	96.0836
85	2,4-Dinitrophenol	184	8.067	8.073	(1.007)	160085	101.929	101.929
86	4-Nitrophenol	109	8.114	8.114	(1.012)	231604	103.845	103.845
87	2,4-Dinitrotoluene	165	8.196	8.202	(1.023)	298096	102.861	102.861
88	Dibenzofuran	168	8.178	8.178	(1.021)	1181271	97.2706	97.2706
93	Diethyl phthalate	149	8.372	8.378	(1.045)	984867	98.7800	98.7800
95	4-Chlorophenyl phenyl ether	204	8.449	8.449	(1.054)	523871	97.2545	97.2545
96	Fluorene	166	8.472	8.478	(1.057)	1001110	96.1479	96.1479
97	4-Nitroaniline	138	8.525	8.531	(1.064)	242042	95.9411	95.9411
99	4,6-Dinitro-2-methylphenol	198	8.543	8.555	(1.066)	203385	99.1290	99.1290

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
101 N-nitrosodiphenylamine	169	8.554	8.560	(1.067)	732172	100.970	100.970
102 Azobenzene	77	8.584	8.584	(1.071)	1241753	103.947	103.947
108 4-Bromophenyl phenyl ether	248	8.854	8.854	(0.957)	298231	99.6129	99.6129
110 Hexachlorobenzene	284	9.001	9.001	(0.973)	328572	103.040	103.040
113 Pentachlorophenol	266	9.136	9.142	(0.988)	220434	114.931	114.931
118 Phenanthrene	178	9.265	9.271	(1.002)	1450890	94.9262	94.9262
122 Anthracene	178	9.301	9.307	(1.006)	1473138	94.5115	94.5115
123 Carbazole	167	9.424	9.424	(1.019)	1311575	96.4257	96.4257
125 Di-n-butyl phthalate	149	9.659	9.659	(1.044)	1613403	100.479	100.479
130 Fluoranthene	202	10.217	10.217	(1.105)	1783115	100.231	100.231
131 Benzidine	184	10.294	10.294	(0.904)	195792	97.3604	97.3604
132 Pyrene	202	10.405	10.405	(0.913)	1741696	95.9287	95.9287
137 Butyl benzyl phthalate	149	10.846	10.846	(0.952)	736318	101.591	101.591
140 3 3'-Dichlorobenzidine	252	11.328	11.328	(0.994)	634776	101.741	101.741
141 Benzo(a)anthracene	228	11.375	11.375	(0.998)	1724306	101.781	101.781
144 Chrysene	228	11.416	11.416	(1.002)	1787384	110.686	110.686
143 Bis(2-ethylhexyl) phthalate	149	11.287	11.281	(0.991)	995775	100.354	100.354
146 Di-n-octyl phthalate	149	11.815	11.815	(1.037)	1720175	99.5623	99.5623
147 Benzo(b)fluoranthene	252	12.444	12.450	(0.964)	1600803	104.084	104.084
148 Benzo(k)fluoranthene	252	12.473	12.479	(0.966)	1910893	111.602	111.602
150 Benzo(a)pyrene	252	12.849	12.855	(0.995)	1516629	107.562	107.562
155 Indeno(1,2,3-cd)pyrene	276	14.536	14.553	(1.126)	1807809	115.314	115.314
156 Dibenz(a,h)anthracene	278	14.524	14.542	(1.125)	1675461	126.799	126.799(R)
157 Benzo(g,h,i)perylene	276	15.035	15.047	(1.164)	1465087	110.146	110.146
168 Methyl Styrene	118	4.876	4.882	(0.953)	513487	91.5360	91.5360
202 Alachlor	188	9.565	9.571	(1.034)	212361	101.905	101.905
204 Atrazine	200	8.989	8.989	(0.972)	89721	307.445	307.445(AR)
205 Caprolactam	55	6.745	6.762	(1.067)	268241	104.092	104.092
207 2,3-Dichlorobenzeneamine	161	7.321	7.327	(0.913)	456893	91.7786	91.7786
206 Decane	43	4.923	4.929	(0.962)	645873	107.927	107.927
213 n-Dodecane	43	6.234	6.240	(0.778)	586819	96.3228	96.3228
210 Tetradecane	43	7.373	7.373	(0.920)	476973	95.5333	95.5333
209 Hexadecane	57	Compound Not Detected.					
208 n-Octadecane	85	9.036	9.036	(0.977)	261321	102.912	102.912
211 n-Eicosane	43	9.677	9.677	(1.207)	524645	100.905	100.905
212 n-docosane	43	10.258	10.258	(1.280)	495459	116.317	116.317

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3374.d
Lab Smp Id: HSL_0100 SSV
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 10:14
Client Smp ID: HSL_0100 SSV
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	160879	80440	321758	156714	-2.59
49 Naphthalene-d8	591401	295700	1182802	593058	0.28
83 Acenaphthene-d10	354180	177090	708360	355811	0.46
117 Phenanthrene-d10	683575	341788	1367150	663041	-3.00
142 Chrysene-d12	669104	334552	1338208	654052	-2.25
151 Perylene-d12	582855	291428	1165710	541177	-7.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.07
117 Phenanthrene-d10	9.25	8.75	9.75	9.25	0.00
142 Chrysene-d12	11.39	10.89	11.89	11.39	0.00
151 Perylene-d12	12.92	12.42	13.42	12.91	-0.05

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

STL-Denver

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: HSL_0100 SSV
Level: LOW
Data Type: MS DATA
SpikeList File: HSLSSV.spk
Sublist File: HSLSSV.sub
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Client SDG: 052904
Fraction: SV
Client Smp ID: HSL_0100 SSV
Operator: kiddd
SampleType: SSV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 N-Nitrosodimethyla	100.000	99.1434	99.14	75-125
15 Phenol	100.000	98.3976	98.40	75-125
18 Bis(2-chloroethyl)	100.000	118.104	118.10	75-125
20 2-Chlorophenol	100.000	99.9635	99.96	75-125
21 1,3-Dichlorobenzen	100.000	99.8170	99.82	75-125
23 1,4-Dichlorobenzen	100.000	97.0052	97.01	75-125
25 1,2-Dichlorobenzen	100.000	100.006	100.01	75-125
28 2,2'-oxybis(1-chlo	100.000	107.755	107.76	75-125
30 N-nitrosodi-n-prop	100.000	96.4816	96.48	75-125
33 Hexachloroethane	100.000	101.733	101.73	75-125
37 Nitrobenzene	100.000	101.400	101.40	75-125
40 Isophorone	100.000	95.2996	95.30	75-125
41 2-Nitrophenol	100.000	96.1052	96.11	75-125
42 2,4-Dimethylphenol	100.000	96.2318	96.23	75-125
43 Bis(2-chloroethoxy	100.000	97.5487	97.55	75-125
46 2,4-Dichlorophenol	100.000	99.8685	99.87	75-125
47 1,2,4-Trichloroben	100.000	98.3093	98.31	75-125
50 Naphthalene	100.000	94.1766	94.18	75-125
52 Hexachlorobutadien	100.000	101.894	101.89	75-125
59 4-Chloro-3-methylp	100.000	99.3153	99.32	75-125
63 Hexachlorocyclopen	100.000	96.7959	96.80	75-125
67 2,4,6-Trichlorophe	100.000	103.474	103.47	75-125
71 2-Chloronaphthalen	100.000	95.6352	95.64	75-125
76 Dimethyl phthalate	100.000	98.1597	98.16	75-125
79 2,6-Dinitrotoluene	100.000	102.084	102.08	75-125
81 Acenaphthylene	100.000	91.5569	91.56	75-125
84 Acenaphthene	100.000	96.0836	96.08	75-125
85 2,4-Dinitrophenol	100.000	101.929	101.93	75-125
86 4-Nitrophenol	100.000	103.845	103.85	75-125
87 2,4-Dinitrotoluene	100.000	102.861	102.86	75-125
93 Diethyl phthalate	100.000	98.7800	98.78	75-125
95 4-Chlorophenyl phe	100.000	97.2545	97.25	75-125
96 Fluorene	100.000	96.1479	96.15	75-125

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
99	4,6-Dinitro-2-meth	100.000	99.1290	99.13	75-125	
101	N-nitrosodiphenyla	100.000	100.970	100.97	75-125	
102	Azobenzene	100.000	103.947	103.95	75-125	
108	4-Bromophenyl phen	100.000	99.6129	99.61	75-125	
110	Hexachlorobenzene	100.000	103.040	103.04	75-125	
113	Pentachlorophenol	100.000	114.931	114.93	75-125	
118	Phenanthrene	100.000	94.9262	94.93	75-125	
122	Anthracene	100.000	94.5115	94.51	75-125	
125	Di-n-butyl phthala	100.000	100.479	100.48	75-125	
130	Fluoranthene	100.000	100.231	100.23	75-125	
131	Benzidine	100.000	97.3604	97.36	45-155	
132	Pyrene	100.000	95.9287	95.93	75-125	
137	Butyl benzyl phtha	100.000	101.591	101.59	75-125	
140	3 3'-Dichlorobenzi	100.000	101.741	101.74	75-125	
141	Benzo(a)anthracene	100.000	101.781	101.78	75-125	
144	Chrysene	100.000	110.686	110.69	75-125	
143	Bis(2-ethylhexyl)	100.000	100.354	100.35	75-125	
146	Di-n-octyl phthala	100.000	99.5623	99.56	75-125	
147	Benzo(b)fluoranthe	100.000	104.084	104.08	75-125	
148	Benzo(k)fluoranthe	100.000	111.602	111.60	75-125	
150	Benzo(a)pyrene	100.000	107.562	107.56	75-125	
155	Indeno(1,2,3-cd)py	100.000	115.314	115.31	75-125	
156	Dibenz(a,h)anthrac	100.000	126.799	126.80*	75-125	-narrat
157	Benzo(g,h,i)peryle	100.000	110.146	110.15	75-125	
5	Pyridine	100.000	89.4880	89.49	75-125	
16	Aniline	100.000	59.5840	59.58*	75-125	-narrat
24	Benzyl alcohol	100.000	93.9258	93.93	75-125	
26	2-Methylphenol	100.000	93.5493	93.55	75-125	
29	4-Methylphenol	100.000	95.6435	95.64	75-125	
45	Benzoic acid	100.000	94.4211	94.42	75-125	
51	4-Chloroaniline	100.000	86.9768	86.98	75-125	
62	2-Methylnaphthalen	100.000	96.9677	96.97	75-125	
68	2,4,5-Trichlorophe	100.000	102.179	102.18	75-125	
74	2-Nitroaniline	100.000	104.296	104.30	75-125	
82	3-Nitroaniline	100.000	97.4262	97.43	75-125	
88	Dibenzofuran	100.000	97.2706	97.27	75-125	
97	4-Nitroaniline	100.000	95.9411	95.94	75-125	
123	Carbazole	100.000	96.4257	96.43	75-125	
202	Alachlor	100.000	101.905	101.91	75-125	
204	Atrazine	100.000	307.445	307.44*	75-125	narrate
205	Caprolactam	100.000	104.092	104.09	75-125	
207	2,3-Dichlorobenzen	100.000	91.7786	91.78	75-125	
206	Decane	100.000	107.927	107.93	75-125	
213	n-Dodecane	100.000	96.3228	96.32	75-125	
210	Tetradecane	100.000	95.5333	95.53	75-125	
208	n-Octadecane	100.000	102.912	102.91	75-125	
211	n-Eicosane	100.000	100.905	100.91	75-125	

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
212 n-docosane	100.000	116.317	116.32	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 Nitrobenzene-d5	100.000	98.5817	98.58	75-125
$ 70 2-Fluorobiphenyl	100.000	89.5785	89.58	75-125
$ 133 Terphenyl-d14	100.000	109.413	109.41	75-125
$ 10 2-Fluorophenol	150.000	147.595	98.40	75-125
$ 14 Phenol-d5	150.000	133.208	88.81	75-125
$ 103 2,4,6-Tribromophen	150.000	161.579	107.72	75-125

STL-Denver

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: HSL_0100 SSV
Operator : kiddd
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: 052904
Client Smp ID: HSL_0100 SSV
Sample Date: 30-MAR-1998
Sample Point:
Date Received: 31-MAR-1998 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/K.i/052904.b/k3374.d

Date : 29-MAY-2004 11:49

Client ID: HSL_0100 SSV

Instrument: K.i

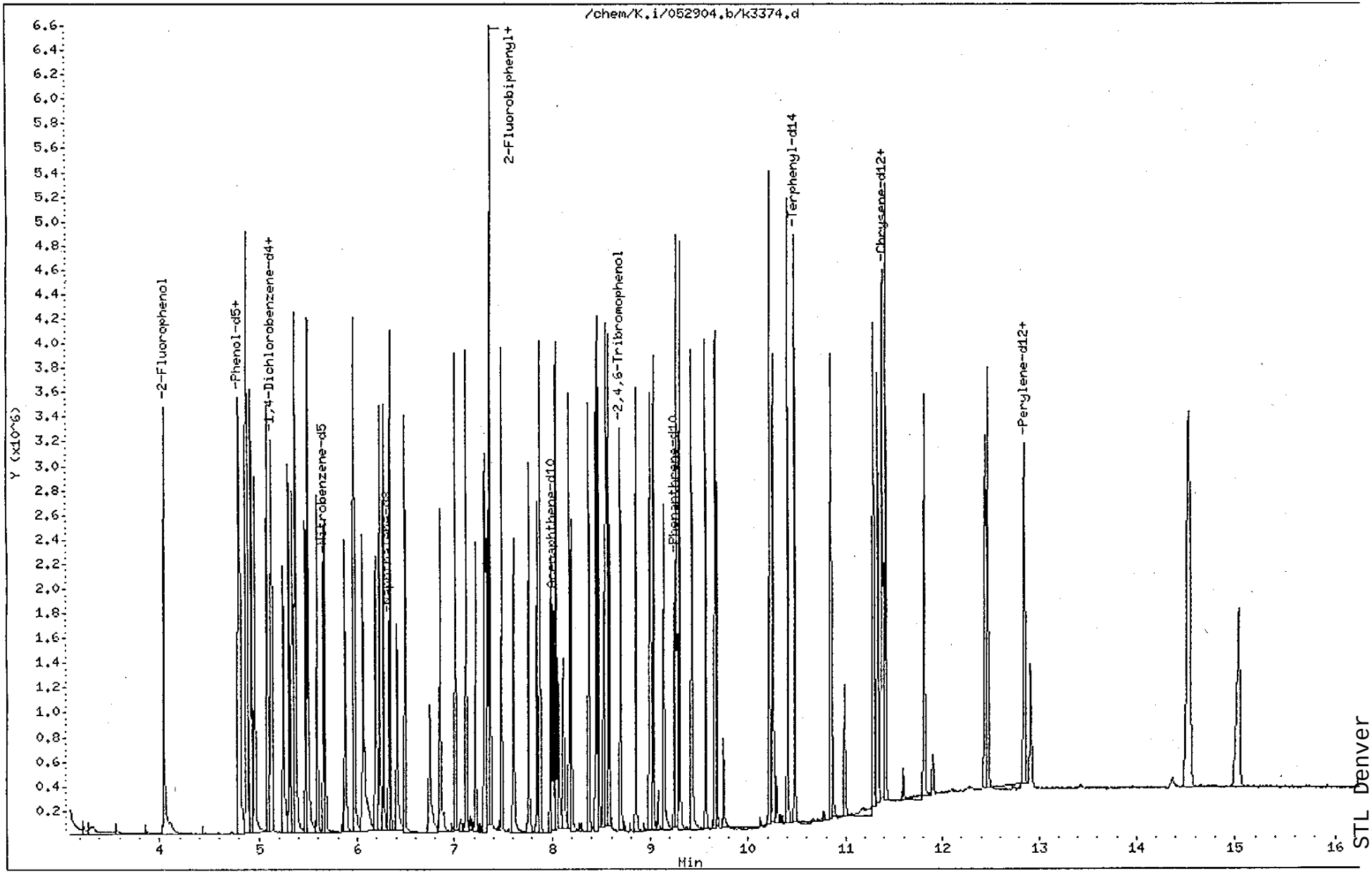
Sample Info: HSL_0100 SSV,BNA1346,P:051104,E:113004

Volume Injected (uL): 0.5

Operator: kiddd

Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25



GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: K052904.b

Check Method Used: Analysis ☐ 625 ☑ 8270 ☑ Other SV AP9

☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA _

VOA Preparation_ ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	✓			/	
2. ICAL date and instrument ID verified?	✓			/	
3. Sufficient number of calibration points used?	✓			/	
4. Reasons for removal of points documented?	✓			/	some points removed below RL
5. %RSD or correlation coefficient within method limits?	✓			/	
6. If RRF used for ICAL, were all compounds within 15% RSD?	✓			/	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			/	
8. Isomeric pairs checked for correct peak assignment?	✓			/	
9. Data checked for detector saturation?	✓			/	
10. Standards traceability properly documented?	✓			/	
11. Manual integrations documented and checked?	✓			/	
12. 2nd source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	✓			/	see below

2nd Source / Methyl methanesulfonate
p-Phenylenediamine 4

1st Level Reviewer: BRK Date: 05-31-04

2nd Level Reviewer: BJB Date: 6.1.04

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

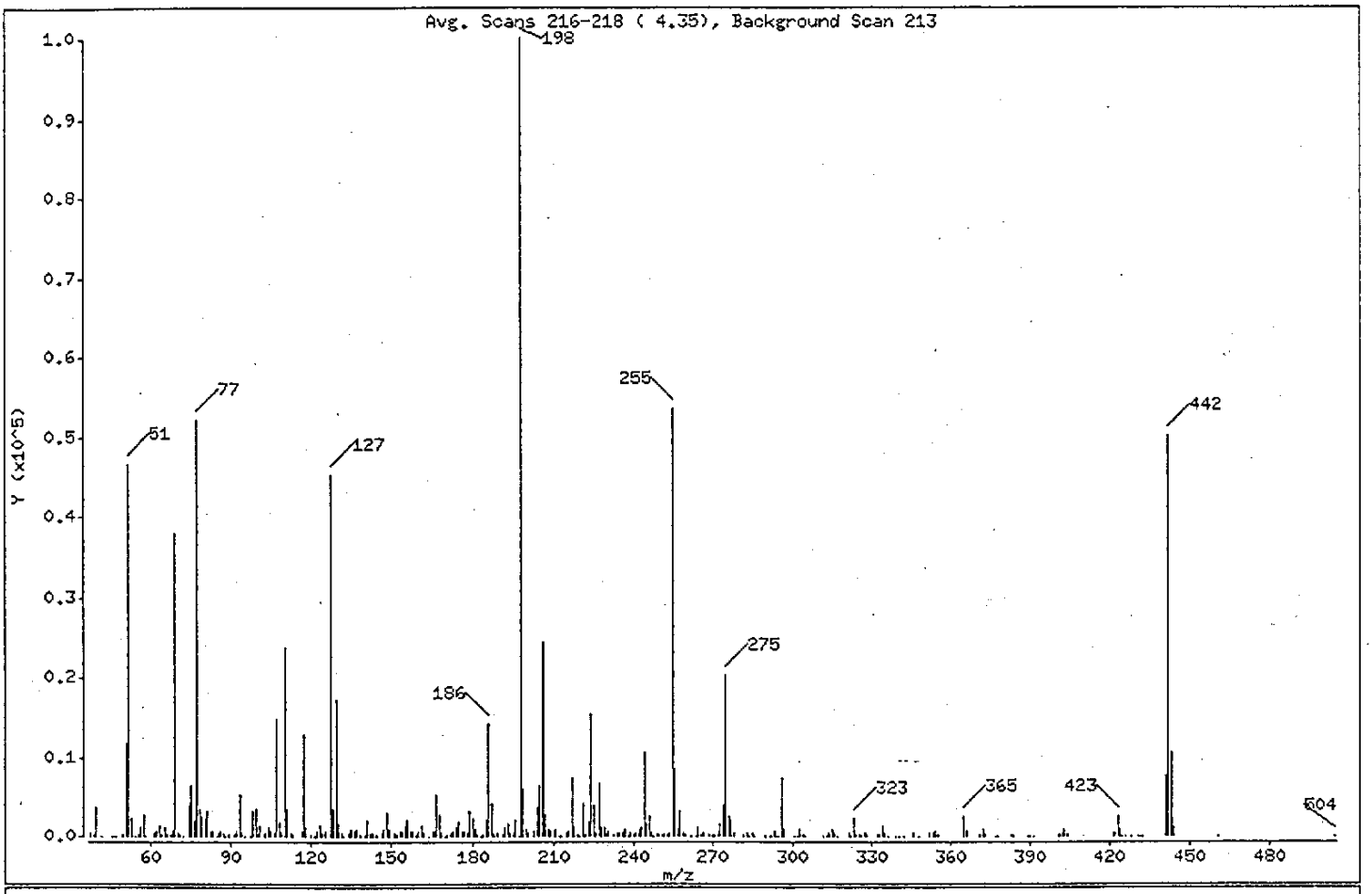
Operator: kiddd

06-31-04

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.64
68	Less than 2.00% of mass 69	0.71 (1.87)
69	Mass 69 relative abundance	37.86
70	Less than 2.00% of mass 69	0.39 (1.03)
127	40.00 - 60.00% of mass 198	45.32
197	Less than 1.00% of mass 198	0.04
199	5.00 - 9.00% of mass 198	6.06
275	10.00 - 30.00% of mass 198	20.14
365	Greater than 1.00% of mass 198	2.63
441	Present, but less than mass 443	7.57
442	40.00 - 100.00% of mass 198	50.07
443	17.00 - 23.00% of mass 442	10.61 (21.19)

Data File: /chem/K.i/052904.b/k3365.d

Date : 29-MAY-2004 08:25

Client ID: DFTPP

Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

Data File: k3365.d

Spectrum: Avg. Scans 216-218 (4.35), Background Scan 213

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	357	127.00	45368	207.00	2876	292.00	67
38.00	344	128.00	3408	208.00	839	293.00	617
39.00	3651	129.00	17208	209.00	640	294.00	65
41.00	115	130.00	1713	210.00	651	295.00	66
45.00	65	131.00	407	211.00	1025	296.00	7465
46.00	51	132.00	16	212.00	101	297.00	939
49.00	128	134.00	530	213.00	103	301.00	54
50.00	11666	135.00	858	215.00	359	302.00	92
51.00	46680	136.00	799	216.00	775	303.00	983
52.00	2241	137.00	889	217.00	7434	304.00	323
54.00	56	138.00	214	218.00	1056	305.00	52
55.00	153	140.00	323	219.00	152	312.00	55
56.00	1118	141.00	2028	220.00	67	313.00	57
57.00	2767	142.00	568	221.00	4065	314.00	448
58.00	35	143.00	460	222.00	217	315.00	1009
61.00	521	144.00	140	223.00	1772	316.00	547
62.00	630	146.00	402	224.00	15422	317.00	68
63.00	1373	147.00	870	225.00	3861	321.00	372
64.00	212	148.00	2998	226.00	519	322.00	95
65.00	1165	149.00	807	227.00	6635	323.00	2219
66.00	195	151.00	398	228.00	1102	324.00	309
67.00	127	152.00	167	229.00	1218	325.00	135
68.00	707	153.00	633	230.00	253	326.00	50
69.00	37896	154.00	576	231.00	667	327.00	471
70.00	389	155.00	1375	233.00	142	328.00	322
71.00	185	156.00	2113	234.00	378	332.00	155
72.00	73	157.00	647	235.00	498	333.00	253
74.00	3866	158.00	684	236.00	388	334.00	1314
75.00	6449	159.00	128	237.00	936	335.00	486
76.00	2074	160.00	756	238.00	79	336.00	63
77.00	52216	161.00	1428	239.00	436	339.00	54
78.00	3454	162.00	390	240.00	186	340.00	87
79.00	2633	164.00	53	241.00	418	342.00	86
80.00	2274	165.00	582	242.00	825	346.00	539
81.00	3213	166.00	767	243.00	1038	348.00	63

Date : 29-MAY-2004 08:25

Client ID: DFTPP Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um Column diameter: 0.25

Data File: k3365.d

Spectrum: Avg. Scans 216-218 (4.35), Background Scan 213

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	686	167.00	5393	244.00	10693	352.00	498
83.00	681	168.00	2748	245.00	1533	353.00	457
84.00	113	169.00	536	246.00	2467	354.00	624
85.00	473	170.00	89	247.00	374	355.00	291
86.00	760	171.00	235	248.00	60	365.00	2628
87.00	458	172.00	558	249.00	204	366.00	577
88.00	107	173.00	741	250.00	122	371.00	173
89.00	179	174.00	1085	251.00	171	372.00	1024
91.00	336	175.00	1805	252.00	157	373.00	290
92.00	788	176.00	643	253.00	295	377.00	53
93.00	5402	177.00	682	254.00	380	378.00	78
94.00	503	178.00	393	255.00	53520	383.00	279
95.00	25	179.00	3207	256.00	8448	384.00	76
97.00	99	180.00	2394	257.00	906	389.00	63
98.00	3317	181.00	926	258.00	3299	390.00	96
99.00	3401	182.00	299	259.00	498	391.00	74
100.00	230	183.00	72	260.00	145	401.00	168
101.00	1364	184.00	193	262.00	60	402.00	432
103.00	575	185.00	2122	264.00	6	403.00	851
104.00	1039	186.00	14214	265.00	1247	404.00	188
105.00	684	187.00	4128	266.00	313	421.00	455
106.00	346	188.00	320	267.00	450	422.00	513
107.00	14768	189.00	421	269.00	174	423.00	2586
108.00	1940	191.00	298	270.00	243	424.00	856
109.00	385	192.00	1215	271.00	174	425.00	81
110.00	23712	193.00	1532	272.00	157	426.00	66
111.00	3547	194.00	442	273.00	1594	428.00	50
112.00	520	195.00	410	274.00	3842	431.00	65
113.00	167	196.00	2159	275.00	20152	432.00	57
116.00	794	197.00	41	276.00	2586	441.00	7582
117.00	12817	198.00	100104	277.00	1990	442.00	50120
118.00	1046	199.00	6068	278.00	354	443.00	10620
120.00	129	200.00	869	282.00	198	444.00	1148
121.00	96	201.00	569	283.00	503	461.00	51
122.00	580	203.00	677	284.00	104	504.00	67

Date : 29-MAY-2004 08:25

Client ID: DFTPP Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um Column diameter: 0.25

Data File: k3365.d

Spectrum: Avg. Scans 216-218 (4.35), Background Scan 213

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	1353	204.00	3760	285.00	533		
124.00	571	205.00	6526	286.00	69		
125.00	620	206.00	24320	290.00	51		

Data File: /chem/K.i/052904.b/k3365.d

Page 1

Date : 29-MAY-2004 08:25

Client ID: DFTPP

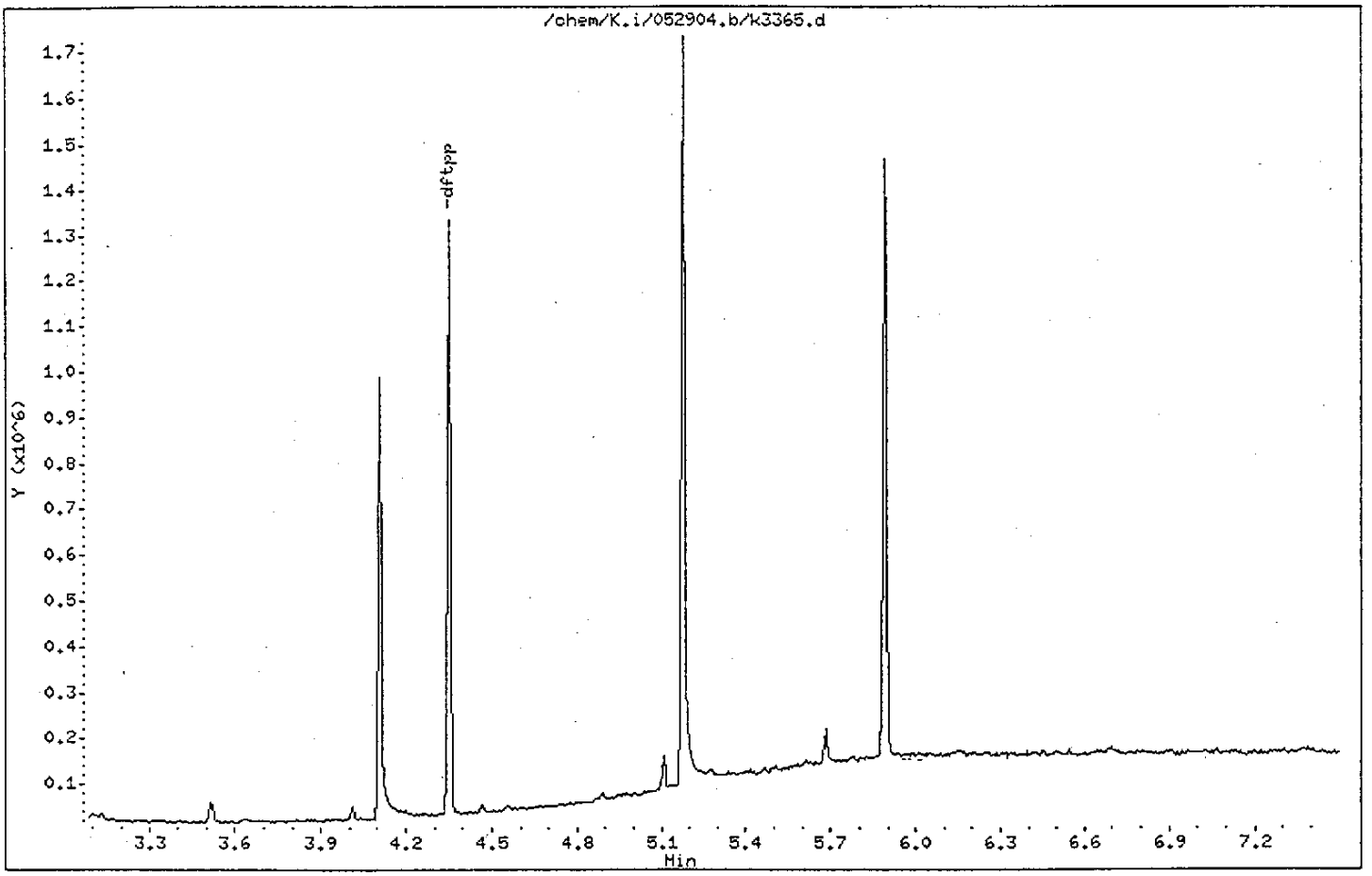
Instrument: K.i

Sample Info: DFTPP,BNA1512,P:041904,E:041905

Operator: kiddd

Column phase: Rtx-5ms, 30m,0.5um

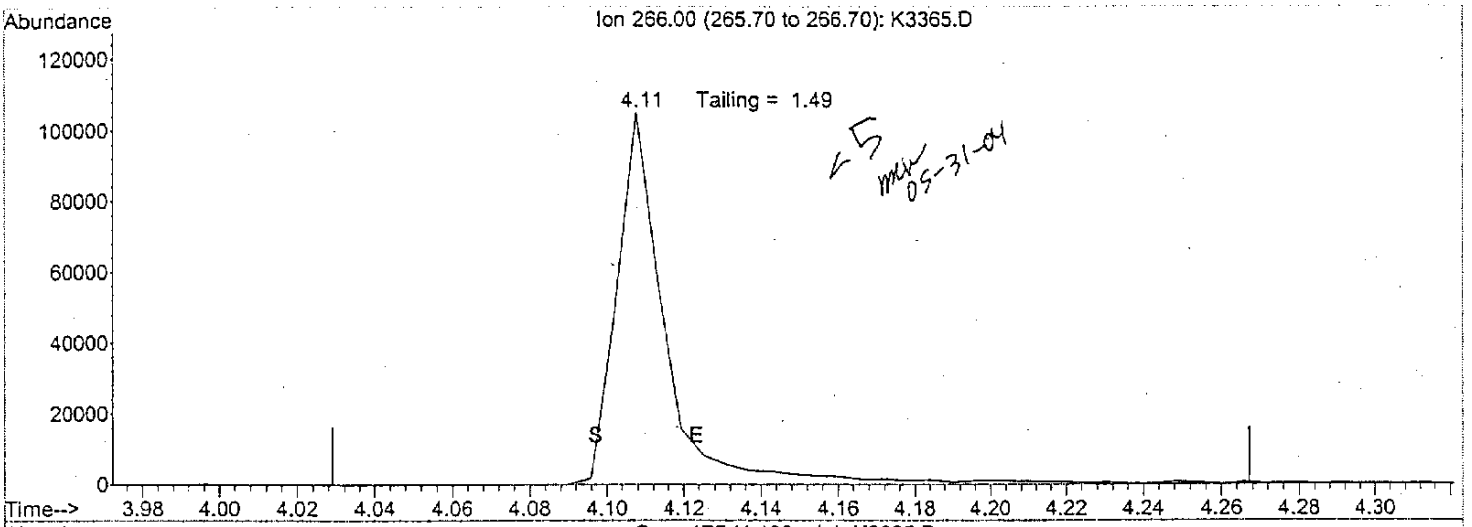
Column diameter: 0.25

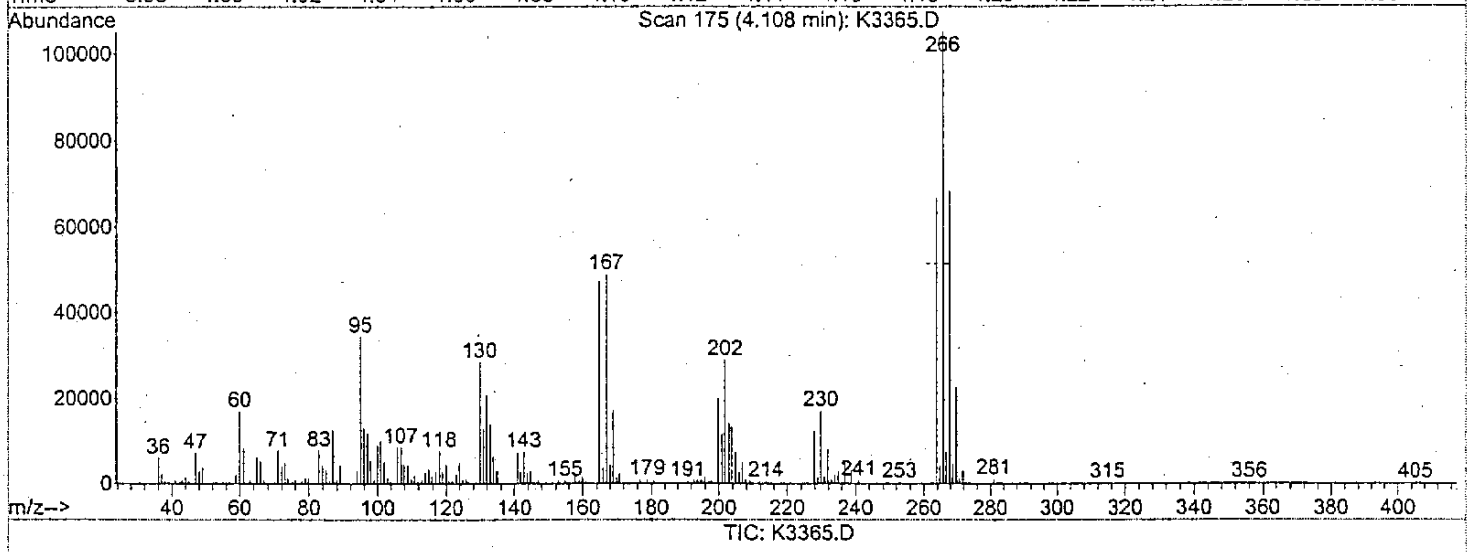


Quantitation Report (Qedit)

Data File : D:\DATA\052904.B\K3365.D Vial: 2
Acq On : 29 May 2004 8:25 am Operator: kiddd
Sample : DFTPP,BNA1512,P:041904,E:041905 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: May 31 15:03 2004 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3365.D

(1) Pentachlorophenol

4.11min 0.00

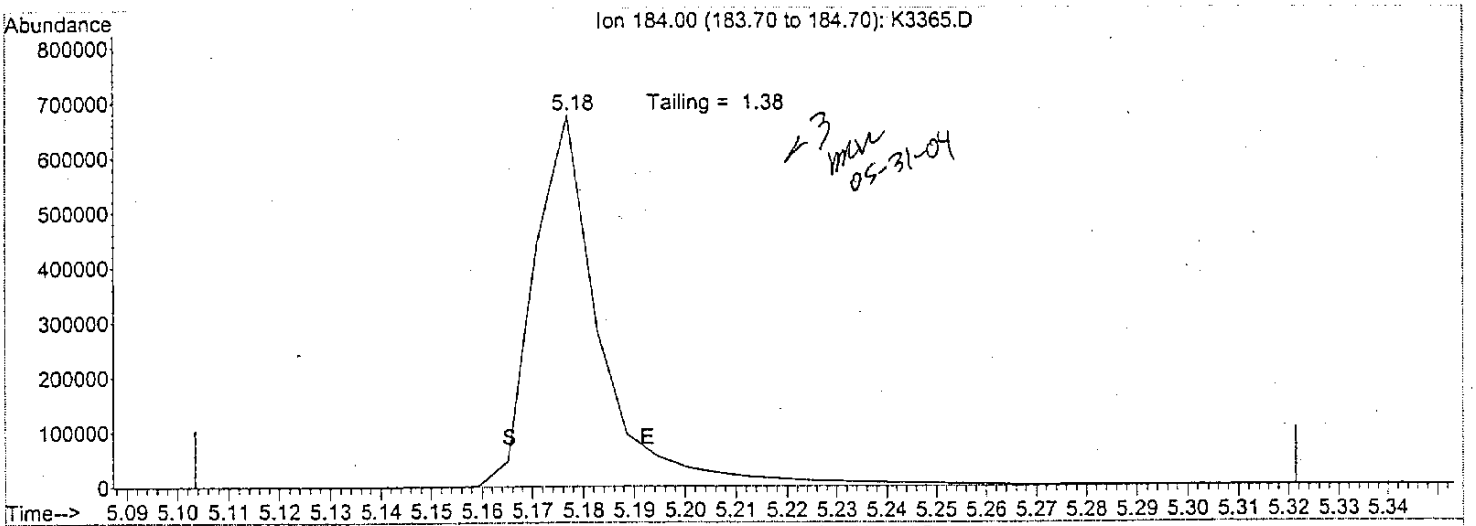
response 881321

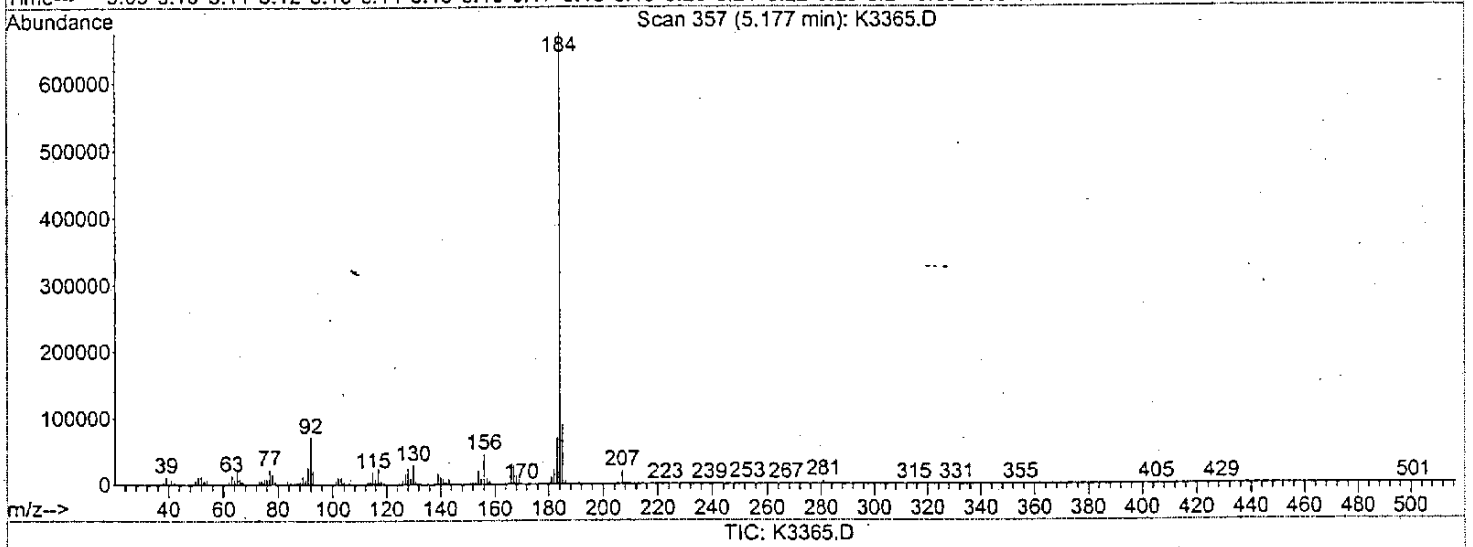
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\DATA\052904.B\K3365.D Vial: 2
Acq On : 29 May 2004 8:25 am Operator: kiddd
Sample : DFTPP,BNA1512,P:041904,E:041905 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: May 31 15:03 2004 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3365.D

(3) Benzidine

5.18min 0.00

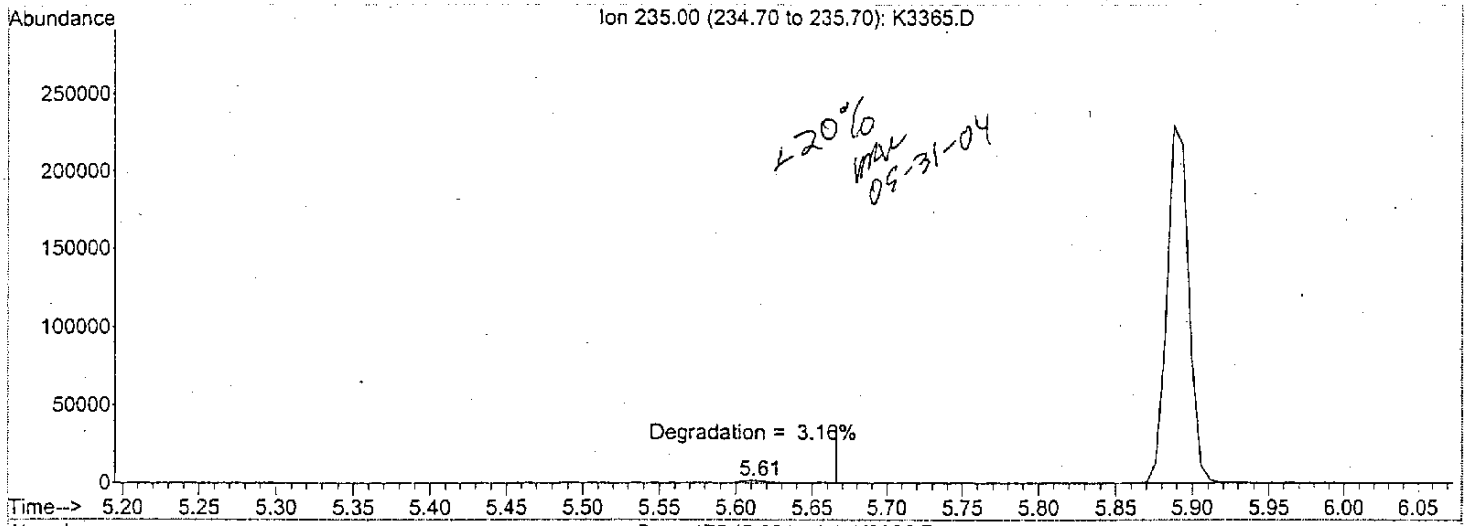
response 6095163

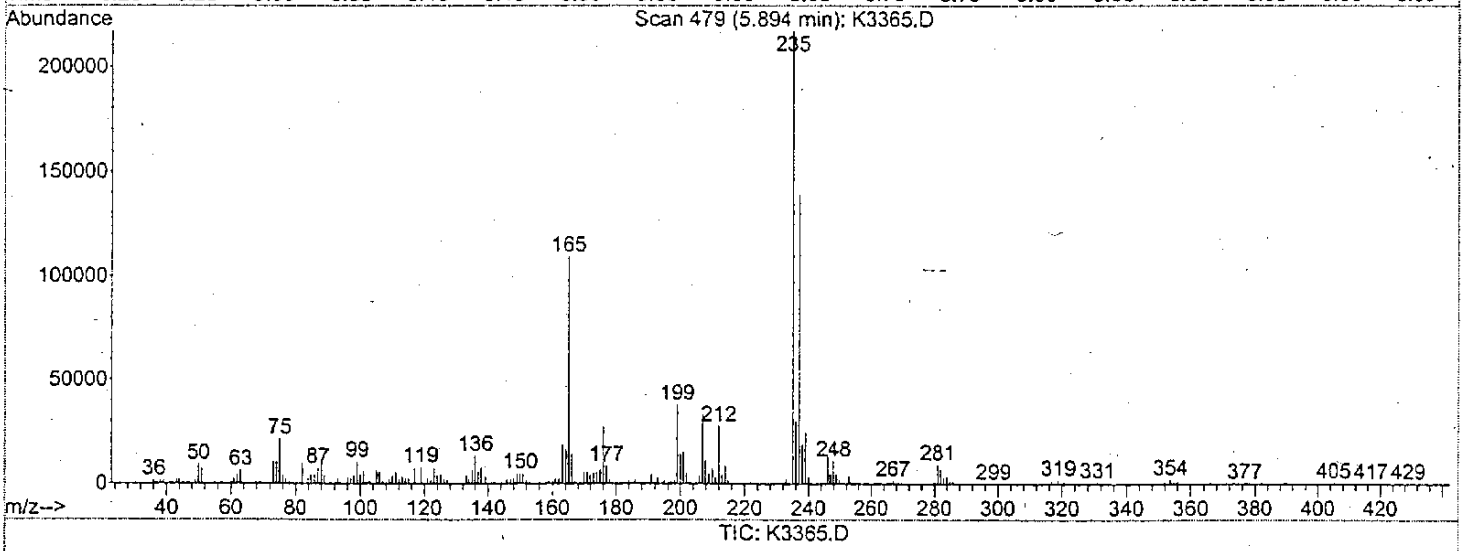
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\DATA\052904.B\K3365.D Vial: 2
Acq On : 29 May 2004 8:25 am Operator: kiddd
Sample : DFTPP,BNA1512,P:041904,E:041905 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: May 31 15:03 2004 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3365.D

(4) DDT

5.89min 0.00

response 2262503

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Report Date: 31-May-2004 17:01

Calibration History

Method : /chem/K.i/052904.b/8270C.m
Start Cal Date: 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
29-MAY-2004 08:39	1-HSL	/chem/K.i/052904.b/k3366.d
Cal Level: 2 , Cal Amount: 10.00000		
29-MAY-2004 12:13	2-AP9std	/chem/K.i/052904.b/k3375.d
29-MAY-2004 09:03	1-HSL	/chem/K.i/052904.b/k3367.d
Cal Level: 3 , Cal Amount: 20.00000		
29-MAY-2004 12:37	2-AP9std	/chem/K.i/052904.b/k3376.d
29-MAY-2004 09:26	1-HSL	/chem/K.i/052904.b/k3368.d
Cal Level: 4 , Cal Amount: 50.00000		
29-MAY-2004 13:00	2-AP9std	/chem/K.i/052904.b/k3377.d
29-MAY-2004 09:50	1-HSL	/chem/K.i/052904.b/k3369.d
Cal Level: 5 , Cal Amount: 80.00000		
29-MAY-2004 13:24	2-AP9std	/chem/K.i/052904.b/k3378.d
29-MAY-2004 10:14	1-HSL	/chem/K.i/052904.b/k3370.d
Cal Level: 6 , Cal Amount: 120.00000		
29-MAY-2004 13:48	2-AP9std	/chem/K.i/052904.b/k3379.d
29-MAY-2004 10:38	1-HSL	/chem/K.i/052904.b/k3371.d
Cal Level: 7 , Cal Amount: 160.00000		
29-MAY-2004 14:12	2-AP9std	/chem/K.i/052904.b/k3380.d
29-MAY-2004 11:01	1-HSL	/chem/K.i/052904.b/k3372.d
Cal Level: 8 , Cal Amount: 200.00000		
29-MAY-2004 14:36	2-AP9std	/chem/K.i/052904.b/k3381.d
29-MAY-2004 11:25	1-HSL	/chem/K.i/052904.b/k3373.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 13:24	2-AP9std	/chem/K.i/052904.b/k3378.d
Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 10:14	1-HSL	/chem/K.i/052904.b/k3370.d

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Calibration File Names:
Level 1: /chem/K.i/052904.b/k3366.d
Level 2: /chem/K.i/052904.b/k3375.d
Level 3: /chem/K.i/052904.b/k3376.d
Level 4: /chem/K.i/052904.b/k3377.d
Level 5: /chem/K.i/052904.b/k3378.d
Level 6: /chem/K.i/052904.b/k3379.d
Level 7: /chem/K.i/052904.b/k3380.d
Level 8: /chem/K.i/052904.b/k3381.d

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
7 2-Picoline	+++++	1.54725	1.53578	1.73351	1.52990	1.52381					
	1.47195	1.46740					AVRG		1.54423		5.77128
8 N-Nitrosomethylethylamine	+++++	0.67833	0.66944	0.76136	0.69581	0.69643					
	0.69677	0.70487					AVRG		0.70043		4.21576
9 Methyl methanesulfonate	+++++	0.48522	0.41590	0.50833	0.47515	0.43912					
	0.43329	0.45699					AVRG		0.45914		7.05649
11 N-Nitrosodiethylamine	+++++	0.66017	0.65397	0.71925	0.64277	0.63945					
	0.61456	0.59324					AVRG		0.64620		6.14301
13 Ethyl methanesulfonate	+++++	1.07744	1.03359	1.10177	0.98295	0.99318					
	0.96328	0.98332					AVRG		1.01936		5.19449

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160 Level 7	200 Level 8									
19 Pentachloroethane	+++++	0.57820	0.51839	0.52590	0.45943	0.44129					
	0.41770	0.41837					AVRG		0.47990		12.85207
31 N-Nitrosopyrrolidine	+++++	0.71079	0.63900	0.66761	0.59923	0.57362					
	0.56140	0.56997					AVRG		0.61737		9.19645
34 N-Nitrosomorpholine	+++++	0.30769	0.27983	0.28605	0.25258	0.24465					
	0.23056	0.22718					AVRG		0.26122		11.66416
35 o-Toluidine	+++++	2.25023	2.10581	2.12729	1.77273	1.74955					
	1.66887	1.66459					AVRG		1.90558		12.92789
39 N-Nitrosopiperidine	+++++	0.17442	0.17168	0.17796	0.17081	0.15770					
	0.15646	0.15860					AVRG		0.16680		5.36037
44 O,O,O-Triethyl phosphorothio	+++++	0.19682	0.19270	0.18867	0.17393	0.17086					
	0.17519	0.18409					AVRG		0.18318		5.49872
48 a,a-Dimethylphenethylamine	+++++	+++++	+++++	0.78195	0.97642	1.05059					
	1.05707	1.11202					AVRG		0.99561		12.93777
53 2,6-Dichlorophenol	+++++	0.26362	0.27970	0.28758	0.26611	0.25367					
	0.25098	0.25518					AVRG		0.26526		5.21908
54 Hexachloropropene	+++++	0.23346	0.24028	0.26020	0.24380	0.24277					
	0.24002	0.24915					AVRG		0.24424		3.46956

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
57 N-Nitrosodi-n-butylamine	+++++	0.22769	0.23380	0.23716	0.22597	0.21686					
	0.21762	0.21663					AVRG		0.22510		3.73520
58 p-Phenylenediamine	+++++	+++++	0.28950	0.32775	0.29797	0.29493					
	0.28541	0.27918					AVRG		0.29579		5.75747
61 Safrole	+++++	0.26562	0.27393	0.26440	0.24059	0.23402					
	0.22964	0.23903					AVRG		0.24960		7.13236
65 1,2,4,5-Tetrachlorobenzene	+++++	0.33948	0.34067	0.33348	0.30570	0.30008					
	0.30987	0.33018					AVRG		0.32278		5.27886
66 Isosafrole (#1)	+++++	0.28485	0.30157	0.35384	0.30882	0.30493					
	0.32380	0.31245					AVRG		0.31289		6.89237
72 Isosafrole (#2)	+++++	0.34156	0.35454	0.37138	0.34563	0.33343					
	0.33152	0.33572					AVRG		0.34482		4.10209
73 1-Chloronaphthalene	+++++	1.06818	0.98948	0.99470	0.90004	0.85273					
	0.87629	0.90262					AVRG		0.94058		8.29646
75 1,4-Naphthoquinone	+++++	+++++	0.20094	0.23908	0.22845	0.21725					
	0.19856	0.18010					AVRG		0.21073		10.27072
78 1,4-Dinitrobenzene	+++++	0.10941	0.12454	0.16245	0.15290	0.15890					
	0.15517	0.15372					AVRG		0.14530		13.83395

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
80 1,3-Dinitrobenzene	+++++	0.15076	0.15372	0.19351	0.17369	0.17668					
	0.17418	0.17014					AVRG		0.17038		8.51469
89 Pentachlorobenzene	+++++	0.45206	0.46677	0.46275	0.43205	0.42350					
	0.45198	0.49071					AVRG		0.45426		4.92784
90 1-Naphthylamine	+++++	0.94330	0.96297	1.01304	0.88726	0.85992					
	0.84112	0.85473					AVRG		0.90891		7.15132
91 2,3,4,6-Tetrachlorophenol	+++++	+++++	0.30710	0.30063	0.28486	0.28445					
	0.32283	0.36344					AVRG		0.31055		9.55205
92 2-Naphthylamine	+++++	0.97842	0.90207	0.96546	0.88435	0.84271					
	0.86115	0.93642					AVRG		0.91008		5.69011
98 Thionazin	+++++	0.26983	0.28753	0.29290	0.26622	0.26058					
	0.26129	0.26685					AVRG		0.27217		4.71424
100 5-Nitro-o-toluidine	+++++	+++++	0.29456	0.33284	0.31657	0.29231					
	0.29938	0.29772					AVRG		0.30556		5.19847
182 Diphenylamine	+++++	1.05057	1.01872	1.01348	0.93407	0.91716					
	0.96361	1.01961					AVRG		0.98818		5.06461
104 Sulfotepp	+++++	0.11916	0.11689	0.12107	0.11139	0.10765					
	0.11264	0.11743					AVRG		0.11518		4.13465

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
105 1,3,5-Trinitrobenzene	+++++	+++++	12731	41686	64055	100246					
	148568	204791					WLINR	0.19101	0.06859		0.99330
106 Diallate (#1)	+++++	+++++	0.34826	0.36631	0.32370	0.30153					
	0.30043	+++++					AVRG		0.32805		8.83192
107 Phorate	+++++	+++++	0.11423	0.11709	0.10068	0.09268					
	0.09624	0.10136					AVRG		0.10371		9.46469
109 Phenacetin	+++++	+++++	0.27670	0.32241	0.28998	0.29355					
	0.29595	0.30352					AVRG		0.29702		5.13371
111 Diallate (#2)	+++++	0.20669	0.19798	0.21815	0.20857	0.20123					
	0.21129	0.21593					AVRG		0.20855		3.51820
112 Dimethoate	+++++	0.24120	0.26122	0.28610	0.24630	0.22518					
	0.21630	0.20351					AVRG		0.23997		11.69934
114 4-Aminobiphenyl	+++++	+++++	0.68797	0.74554	0.64825	0.63052					
	0.65279	0.70001					AVRG		0.67751		6.23401
115 Pentachloronitrobenzene	+++++	+++++	0.09373	0.10575	0.09820	0.10055					
	0.10502	0.11249					AVRG		0.10262		6.40512
116 Pronamide	+++++	0.25815	0.26820	0.29084	0.26532	0.26455					
	0.28524	0.30096					AVRG		0.27618		5.82487

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
120 2-secbutyl-4,6-dinitropheno	+++++	11575	31155	103412	167498	264479					
	386225	542677					WLINR	0.15360	0.17416		0.99149
121 Disulfoton	+++++	+++++	0.35004	0.38004	0.33059	0.30707					
	0.30059	0.29986					AVRG		0.32803		9.81392
124 Methyl parathion	+++++	+++++	+++++	0.21790	0.20299	0.18833					
	0.17959	0.17325					AVRG		0.19241		9.40477
126 Parathion	+++++	+++++	+++++	0.14226	0.13295	0.12747					
	0.13448	0.13717					AVRG		0.13487		4.03454
127 4-Nitroquinoline-1-oxide	+++++	+++++	+++++	29146	57605	93284					
	139103	182839					WLINR	0.50571	0.06945		0.99833
128 Methapyrilene	+++++	+++++	0.25513	0.27787	0.24563	0.22531					
	0.22913	0.22655					AVRG		0.24327		8.51513
129 Isodrin	+++++	0.10624	0.11136	0.11467	0.10401	0.10051					
	0.10238	0.10738					AVRG		0.10665		4.69082
134 Aramite (#1)	+++++	+++++	0.10530	0.11662	0.11421	0.10465					
	0.09897	0.10440					AVRG		0.10736		6.22745
135 Aramite (#2)	+++++	+++++	0.13476	0.15633	0.14121	0.12919					
	0.12343	0.13283					AVRG		0.13629		8.40628

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

	5	10	20	50	80	120		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	160 Level 7	200 Level 8									
136 p-Dimethylaminoazobenzene	+++++	0.21618	0.23441	0.25395	0.23172	0.21674					
	0.20277	0.21281					AVRG		0.22408		7.63163
138 3,3'-Dimethylbenzidine	+++++	0.55870	0.54944	0.61775	0.60121	0.56473					
	0.54943	0.58808					AVRG		0.57562		4.68360
139 2-Acetylaminofluorene	+++++	+++++	0.31939	0.39520	0.38629	0.36522					
	0.37182	0.39907					AVRG		0.37283		7.85133
149 7,12-Dimethylbenz(a)anthrac	+++++	+++++	0.46890	0.51350	0.49439	0.49443					
	0.53503	0.57569					AVRG		0.51366		7.31004
152 3-Methylcholanthrene	+++++	0.46961	0.48462	0.53185	0.51204	0.51747					
	0.56832	0.61159					AVRG		0.52793		9.24197
153 Dibenz(a,j)acridine	+++++	0.65840	0.69545	0.78484	0.74024	0.74524					
	0.80130	0.88084					AVRG		0.75804		9.63318
M 1 Total Isosafrole	+++++	0.33164	0.34527	0.36831	0.33919	0.32844					
	0.33016	0.33164					AVRG		0.33924		4.16127
M 2 Total Diallate	+++++	0.31225	0.30618	0.32482	0.29280	0.27344					
	0.27547	0.28256					AVRG		0.29536		6.65338
M 3 Total Aramite	+++++	+++++	0.12121	0.13807	0.12765	0.11790					
	0.11218	0.11975					AVRG		0.12279		7.33241

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

Compound	5 Level 1	10 Level 2	20 Level 3	50 Level 4	80 Level 5	120 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160 Level 7	200 Level 8									
165 Chlorobenzilate	+++++	0.24632	0.24768	0.27083	0.25503	0.25022					
	0.25531	0.28219					AVRG		0.25823		5.16804
199 1,4-Dioxane	+++++	0.77198	0.72945	0.73283	0.64827	0.64205					
	0.61146	0.60807					AVRG		0.67773		9.70924
175 Biphenyl	+++++	1.33758	1.21864	1.22845	1.10453	1.06671					
	1.08284	1.16106					AVRG		1.17140		8.28269

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2004 08:39
End Cal Date : 29-MAY-2004 14:36
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/K.i/052904.b/8270C.m
Cal Date : 31-May-2004 16:58 kiddd

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

INITIAL CALIBRATION REPORT

Instrument ID: K.i
Lab File ID: k3381.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 14:36
Lab Sample ID: AP9_0200
Method File: /chem/K.i/052904.b/8270C.m

COMPOUND	%RSD
1,4-Dioxane	9.7
2-Picoline	5.8
N-Nitrosomethylethylamine	4.2
Methyl methanesulfonate	7.1
N-Nitrosodiethylamine	6.1
Ethyl methanesulfonate	5.2
Pentachloroethane	12.9
N-Nitrosopyrrolidine	9.2
N-Nitrosomorpholine	11.7
o-Toluidine	12.9
N-Nitrosopiperidine	5.4
O,O,O-Triethyl phosphorothio	5.5
a,a-Dimethylphenethylamine	12.9
2,6-Dichlorophenol	5.2
Hexachloropropene	3.5
N-Nitrosodi-n-butylamine	3.7
p-Phenylenediamine	5.8
Safrole	7.1
Isosafrole (#1)	6.9
1,2,4,5-Tetrachlorobenzene	5.3
Isosafrole (#2)	4.1
Biphenyl	8.3
1-Chloronaphthalene	8.3
1,4-Naphthoquinone	10.3
1,4-Dinitrobenzene	13.8
1,3-Dinitrobenzene	8.5
Pentachlorobenzene	4.9
1-Naphthylamine	7.2
2-Naphthylamine	5.7
2,3,4,6-Tetrachlorophenol	9.6
Thionazin	4.7
5-Nitro-o-toluidine	5.2
Diphenylamine	5.1
Sulfotepp	4.1
Diallate (#1)	8.8
1,3,5-Trinitrobenzene	16.2
Phorate	9.5
Phenacetin	5.1
Diallate (#2)	3.5

— WL 1/x²

INITIAL CALIBRATION REPORT

Instrument ID: K.i
Lab File ID: k3381.d
Analysis Type: WATER

Injection Date: 29-MAY-2004 14:36
Lab Sample ID: AP9_0200
Method File: /chem/K.i/052904.b/8270C.m

COMPOUND	%RSD	
Dimethoate	11.7	
4-Aminobiphenyl	6.2	
Pronamide	5.8	
Pentachloronitrobenzene	6.4	
Disulfoton	9.8	
2-secbutyl-4,6-dinitropheno	27.3	— WL 1/x²
Methyl parathion	9.4	
Parathion	4.0	
4-Nitroquinoline-1-oxide	15.7	— WL 1/x²
Methapyrilene	8.5	
Total Diallate	6.7	
Total Isosafrole	4.2	
Total Aramite	7.3	
Isodrin	4.7	
Aramite (#1)	6.2	
Aramite (#2)	8.4	
p-Dimethylaminoazobenzene	7.6	
Chlorobenzilate	5.2	
3,3'-Dimethylbenzidine	4.7	
2-Acetylaminofluorene	7.9	
7,12-Dimethylbenz(a)anthrac	7.3	
3-Methylcholanthrene	9.2	
Dibenz(a,j)acridine	9.6	

The average of all %RSD's in the initial calibration is 7.8 ✓

MEK 05-31-04

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3375.d
Lab Smp Id: AP9_0010 Client Smp ID: AP9_0010
Inj Date : 29-MAY-2004 12:13
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0010,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:54 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 12:13 Cal File: k3375.d
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	141454	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	553711	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	330278	40.0000	
* 117 Phenanthrene-d10	188	9.242	9.242	(1.000)	605471	40.0000	
* 142 Chrysene-d12	240	11.381	11.381	(1.000)	617444	40.0000	
* 151 Perylene-d12	264	12.908	12.908	(1.000)	506937	40.0000	
7 2-Picoline	93	3.619	3.619	(0.707)	54716	10.0000	10.0195
8 N-Nitrosomethylethylamine	88	3.707	3.707	(0.724)	23988	10.0000	9.68445(a)
9 Methyl methanesulfonate	80	3.942	3.942	(0.770)	17159	10.0000	10.5679
11 N-Nitrosodiethylamine	102	4.248	4.248	(0.830)	23346	10.0000	10.2162
13 Ethyl methanesulfonate	79	4.489	4.489	(0.877)	38102	10.0000	10.5697
19 Pentachloroethane	117	4.871	4.871	(0.952)	20447	10.0000	12.0484
31 N-Nitrosopyrrolidine	100	5.505	5.505	(1.076)	25136	10.0000	11.5131
34 N-Nitrosomorpholine	116	5.511	5.511	(1.077)	10881	10.0000	11.7790
35 o-Toluidine	106	5.540	5.540	(1.083)	79576	10.0000	11.8086

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39 N-Nitrosopiperidine	114	5.817	5.817	(0.920)	24145	10.0000	10.4568
44 O,O,O-Triethyl phosphorothio	198	6.057	6.057	(0.958)	27245	10.0000	10.7444
48 a,a-Dimethylphenethylamine	58	6.245	6.245	(0.988)	110426	10.0000	8.01234(aM)
53 2,6-Dichlorophenol	162	6.416	6.416	(1.015)	36493	10.0000	9.93823(a)
54 Hexachloropropene	213	6.451	6.451	(1.020)	32318	10.0000	9.55884(a)
57 N-Nitrosodi-n-butylamine	84	6.710	6.710	(1.061)	31519	10.0000	10.1150
58 p-Phenylenediamine	108	6.757	6.757	(1.069)	32204	10.0000	7.86504(aM)
61 Safrole	162	6.909	6.909	(1.093)	36769	10.0000	10.6416
65 1,2,4,5-Tetrachlorobenzene	216	7.209	7.209	(1.140)	46993	10.0000	10.5173
66 Isosafrole (#1)	162	7.197	7.197	(0.899)	4116	1.75000	1.59316(a)
72 Isosafrole (#2)	104	7.403	7.403	(0.924)	23267	8.25000	8.17192(a)
73 1-Chloronaphthalene	162	7.520	7.520	(0.939)	88199	10.0000	11.3566
75 1,4-Naphthoquinone	158	7.656	7.656	(0.956)	12527	10.0000	7.19954(a)
78 1,4-Dinitrobenzene	168	7.703	7.703	(0.962)	9034	10.0000	7.53006(a)
80 1,3-Dinitrobenzene	168	7.808	7.808	(0.975)	12448	10.0000	8.84825(a)
89 Pentachlorobenzene	250	8.190	8.190	(1.023)	37326	10.0000	9.95146(a)
90 1-Naphthylamine	143	8.249	8.249	(1.030)	77888	10.0000	10.3784
91 2,3,4,6-Tetrachlorophenol	232	8.314	8.314	(1.038)	23174	10.0000	9.03755(a)
92 2-Naphthylamine	143	8.314	8.314	(1.038)	80788	10.0000	10.7509
98 Thionazin	97	8.443	8.443	(1.054)	22280	10.0000	9.91404(a)
100 5-Nitro-o-toluidine	152	8.502	8.502	(1.062)	20445	10.0000	8.10343(a)
182 Diphenylamine	169	8.549	8.549	(1.067)	86745	10.0000	10.6314
104 Sulfotepp	97	8.719	8.719	(0.943)	18037	10.0000	10.3458
105 1,3,5-Trinitrobenzene	213	8.801	8.801	(0.952)	4846	10.0000	12.3079(Q)
106 Diallate (#1)	86	8.795	8.795	(0.952)	38505	7.20000	7.75443(a)
107 Phorate	121	8.813	8.813	(0.954)	17668	10.0000	11.2542
109 Phenacetin	108	8.813	8.813	(0.954)	36663	10.0000	8.15479(a)
111 Diallate (#2)	86	8.872	8.872	(0.960)	8760	2.80000	2.77502(a)
112 Dimethoate	87	8.972	8.972	(0.971)	36510	10.0000	10.0511
114 4-Aminobiphenyl	169	9.077	9.077	(0.982)	101744	10.0000	9.92106(a)
115 Pentachloronitrobenzene	237	9.189	9.189	(0.994)	14018	10.0000	9.02414(a)
116 Pronamide	173	9.107	9.107	(0.985)	39076	10.0000	9.34720(a)
120 2-secbutyl-4,6-dinitropheno	211	9.248	9.248	(1.001)	11575	10.0000	10.5347
121 Disulfoton	88	9.224	9.224	(0.998)	52348	10.0000	10.5426
124 Methyl parathion	109	9.536	9.536	(1.032)	24534	10.0000	8.42370(a)
126 Parathion	109	9.830	9.830	(1.064)	15118	10.0000	7.40546(a)
127 4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.071)	878	10.0000	21.0637(Q)
128 Methapyrilene	97	9.918	9.918	(1.073)	38084	10.0000	10.3424
129 Isodrin	193	10.106	10.106	(1.093)	16081	10.0000	9.96125(a)
134 Aramite (#1)	185	10.423	10.423	(0.916)	7694	4.60000	4.64277(a)
135 Aramite (#2)	185	10.482	10.482	(0.921)	11060	5.40000	5.25714(a)
136 p-Dimethylaminoazobenzene	120	10.593	10.593	(0.931)	33369	10.0000	9.64718(a)
138 3,3'-Dimethylbenzidine	212	10.864	10.864	(0.955)	86241	10.0000	9.70600(aH)
139 2-Acetylaminofluorene	181	11.093	11.093	(0.975)	45515	10.0000	7.90869(aH)
149 7,12-Dimethylbenz(a)anthrac	256	12.432	12.432	(0.963)	59000	10.0000	9.06327(aH)
152 3-Methylcholanthrene	268	13.290	13.290	(1.030)	59516	10.0000	8.89537(aH)
153 Dibenz(a,j)acridine	279	14.154	14.154	(1.096)	83442	10.0000	8.68554(aH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
M 1 Total Isosafrole	162				27383	10.0000	9.77598(a)
M 2 Total Diallate	86				47265	10.0000	10.5719
M 3 Total Aramite	185				18754	10.0000	9.89433(a)
165 Chlorobenzilate	251	10.611	10.611	(0.932)	38022	10.0000	9.53887(a)
199 1,4-Dioxane	88	2.767	2.767	(0.541)	27300	10.0000	11.3907
175 Biphenyl	154	7.456	7.456	(0.931)	110443	10.0000	11.4186

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3375.d
Lab Smp Id: AP9_0010
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0010
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	141454	-3.88
49 Naphthalene-d8	530122	265061	1060244	553711	4.45
83 Acenaphthene-d10	318542	159271	637084	330278	3.68
117 Phenanthrene-d10	562072	281036	1124144	605471	7.72
142 Chrysene-d12	593593	296796	1187186	617444	4.02
151 Perylene-d12	499739	249870	999478	506937	1.44

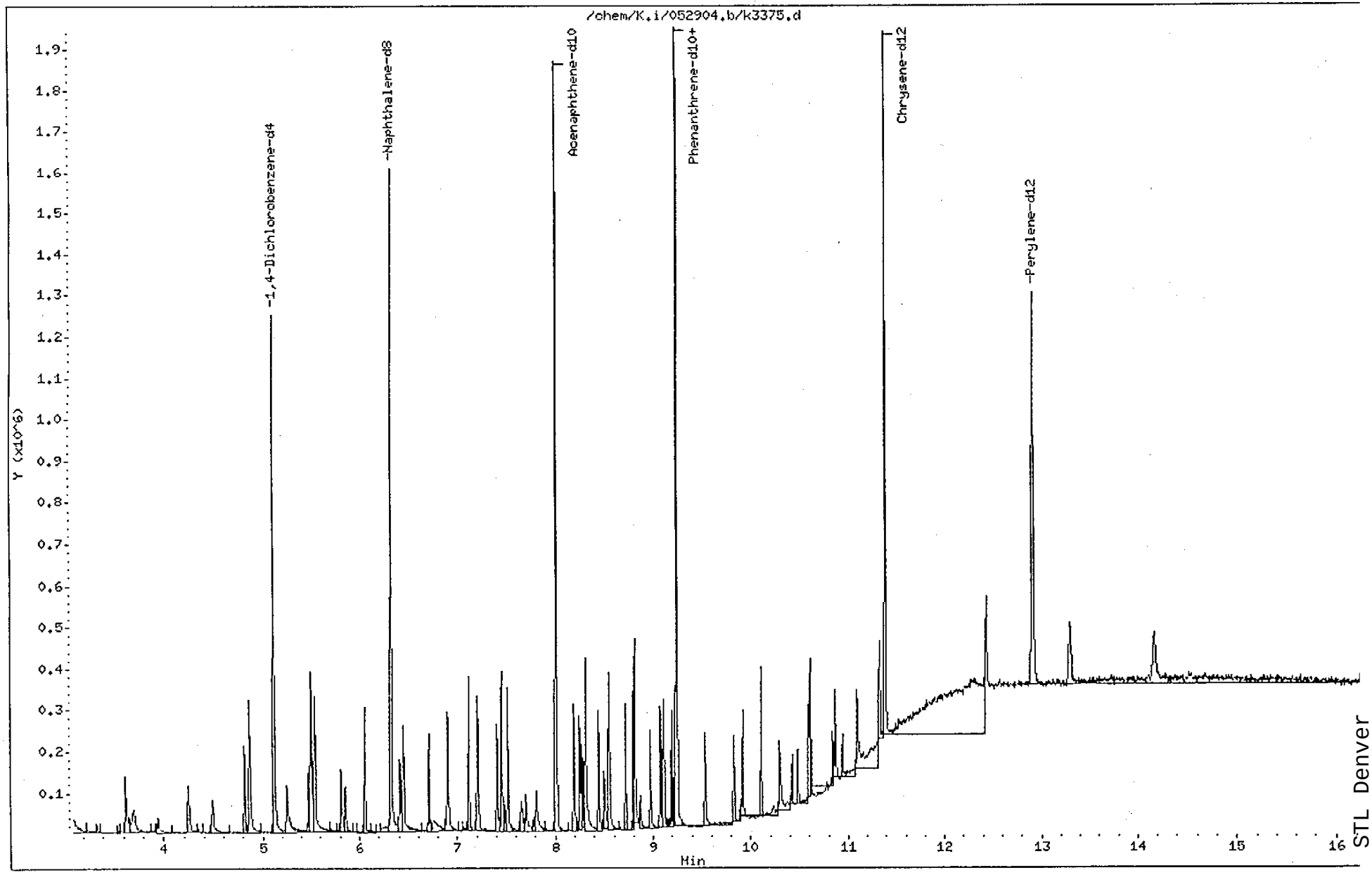
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.24	0.00
142 Chrysene-d12	11.36	10.86	11.86	11.38	0.21
151 Perylene-d12	12.87	12.37	13.37	12.91	0.27

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

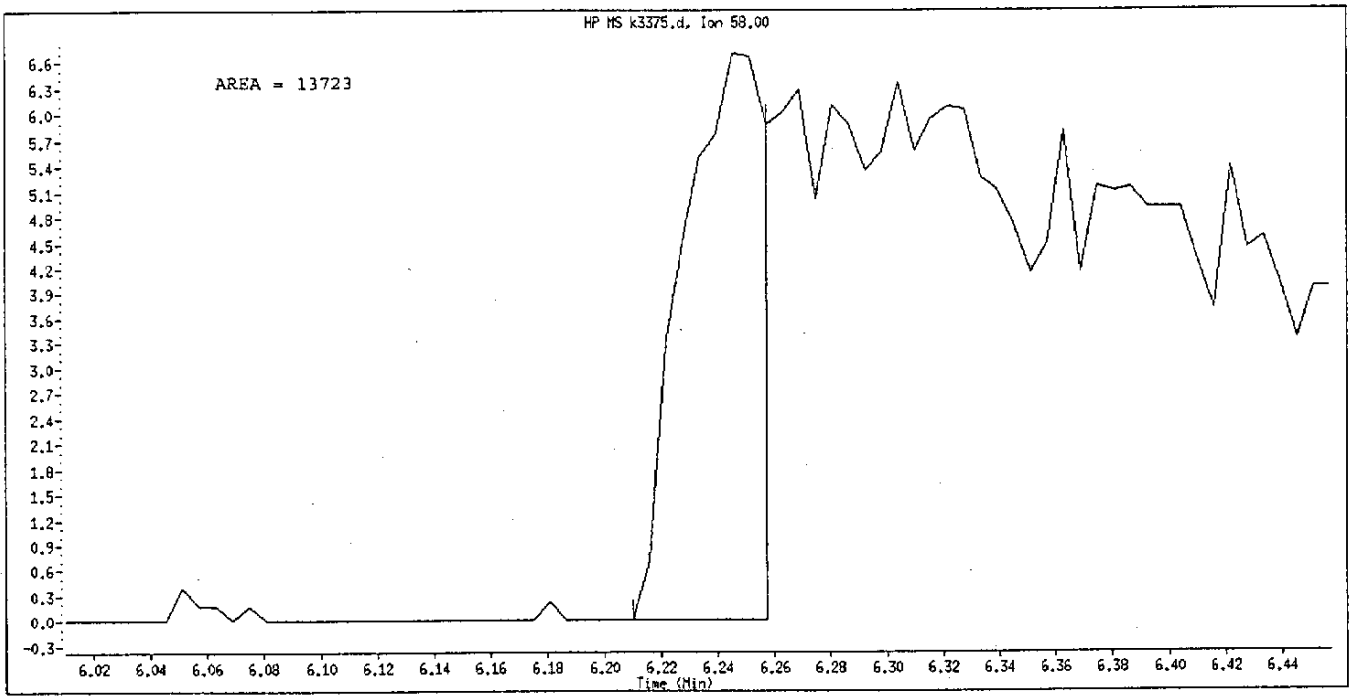
Data File: /chem/K.i/052904.b/k3375.d
Date : 29-MAY-2004 12:13
Client ID: AP9_0010
Sample Info: AP9_0010,BNA1406,P:050403,E:073104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

Instrument: K.i

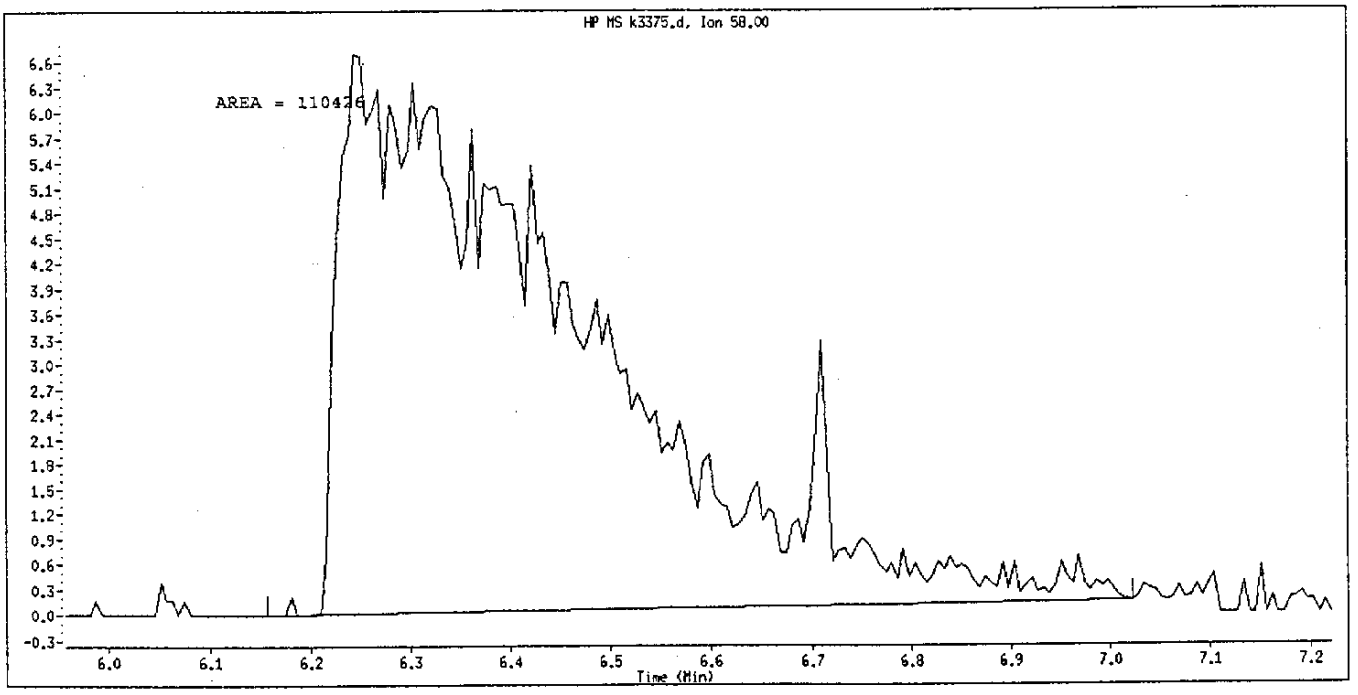
Operator: kiddd
Column diameter: 0.25



Data File Name: k3375.d
Inj. Date and Time: 29-MAY-2004 12:13
Instrument ID: K.i
Client ID: AP9_0010
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration

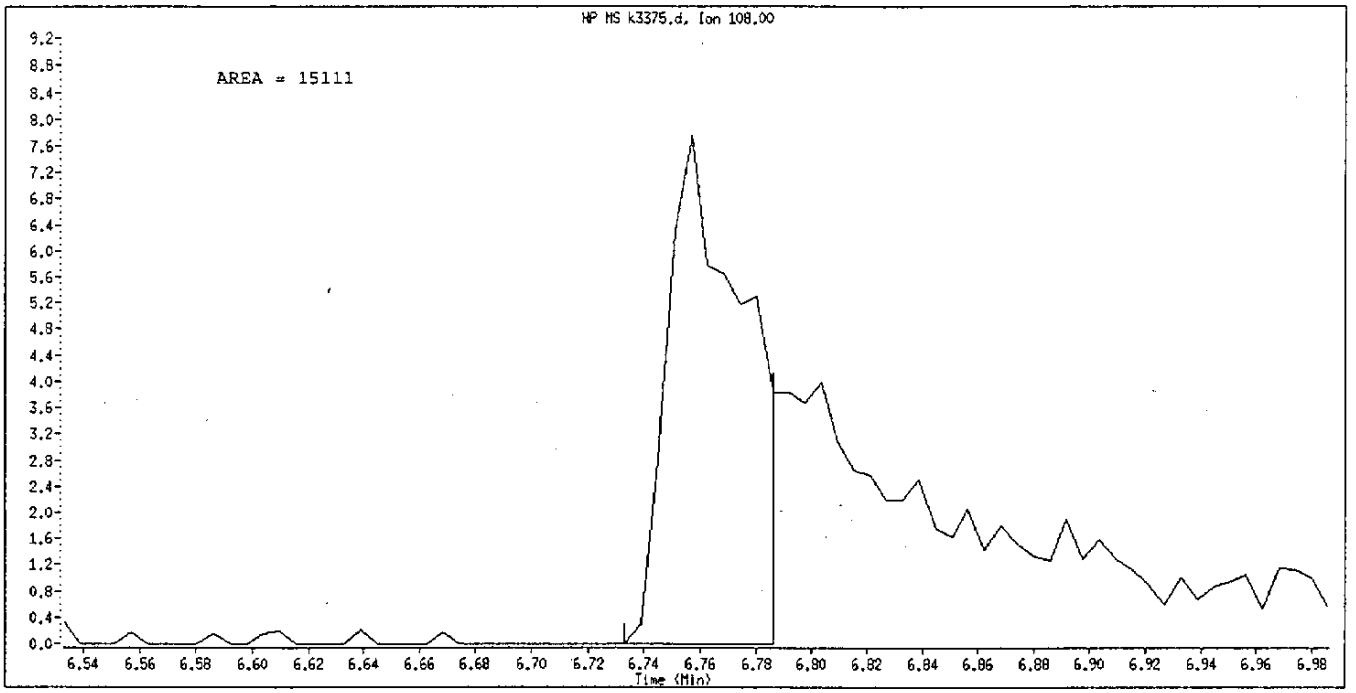


Manual Integration

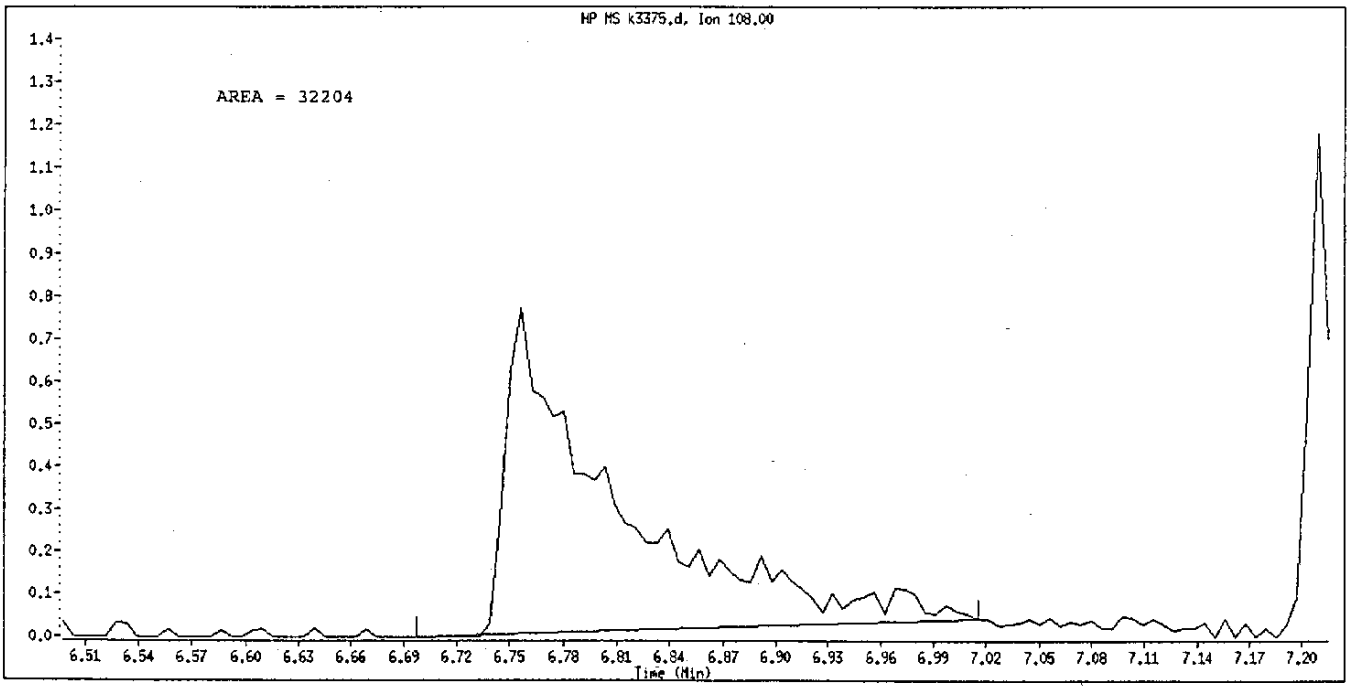
Manually Integrated By: kiddd
Manual Integration Reason: Peak Tailing or Fronting

MMK 05-31-04 6/1/04 B/S

Data File Name: k3375.d
Inj. Date and Time: 29-MAY-2004 12:13
Instrument ID: K.i
Client ID: AP9_0010
Compound Name: p-Phenylenediamine
CAS #: 106-50-3
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Peak Tailing or Fronting

6·1·04

05-31-04

MCV 05-31-04

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3376.d
Lab Smp Id: AP9_0020 Client Smp ID: AP9_0020
Inj Date : 29-MAY-2004 12:37
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0020,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:54 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 12:37 Cal File: k3376.d
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	150251	40.0000	
* 49 Naphthalene-d8	136	6.321	6.321	(1.000)	554524	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	328343	40.0000	
* 117 Phenanthrene-d10	188	9.242	9.242	(1.000)	592486	40.0000	
* 142 Chrysene-d12	240	11.374	11.374	(1.000)	613530	40.0000	
* 151 Perylene-d12	264	12.896	12.896	(1.000)	492192	40.0000	
7 2-Picoline	93	3.613	3.613	(0.706)	115376	20.0000	19.8906
8 N-Nitrosomethylethylamine	88	3.701	3.701	(0.723)	50292	20.0000	19.1151
9 Methyl methanesulfonate	80	3.942	3.942	(0.770)	31245	20.0000	18.1165
11 N-Nitrosodiethylamine	102	4.247	4.247	(0.830)	49130	20.0000	20.2405
13 Ethyl methanesulfonate	79	4.482	4.482	(0.876)	77649	20.0000	20.2792
19 Pentachloroethane	117	4.870	4.870	(0.952)	38944	20.0000	21.6041
31 N-Nitrosopyrrolidine	100	5.499	5.499	(1.075)	48005	20.0000	20.7005
34 N-Nitrosomorpholine	116	5.511	5.511	(1.077)	21022	20.0000	21.4246
35 o-Toluidine	106	5.540	5.540	(1.083)	158200	20.0000	22.1015

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39 N-Nitrosopiperidine	114	5.810	5.810	(0.919)	47600	20.0000	20.5846
44 O,O,O-Triethyl phosphorothio	198	6.057	6.057	(0.958)	53429	20.0000	21.0396
48 a,a-Dimethylphenethylamine	58	6.163	6.163	(0.975)	171255	20.0000	12.4078(MH)
53 2,6-Dichlorophenol	162	6.410	6.410	(1.014)	77550	20.0000	21.0884
54 Hexachloropropene	213	6.451	6.451	(1.020)	66620	20.0000	19.6756
57 N-Nitrosodi-n-butylamine	84	6.709	6.709	(1.061)	64823	20.0000	20.7722
58 p-Phenylenediamine	108	6.744	6.744	(1.067)	80268	20.0000	19.5748(M)
61 Safrole	162	6.909	6.909	(1.093)	75950	20.0000	21.9491
65 1,2,4,5-Tetrachlorobenzene	216	7.209	7.209	(1.140)	94456	20.0000	21.1088
66 Isosafrole (#1)	162	7.197	7.197	(0.899)	8664	3.50000	3.37330(a)
72 Isosafrole (#2)	104	7.402	7.402	(0.924)	48019	16.5000	16.9648
73 1-Chloronaphthalene	162	7.520	7.520	(0.939)	162444	20.0000	21.0398
75 1,4-Naphthoquinone	158	7.649	7.649	(0.955)	32988	20.0000	19.0706
78 1,4-Dinitrobenzene	168	7.696	7.696	(0.961)	20446	20.0000	17.1427
80 1,3-Dinitrobenzene	168	7.808	7.808	(0.975)	25236	20.0000	18.0439
89 Pentachlorobenzene	250	8.196	8.196	(1.023)	76631	20.0000	20.5509
90 1-Naphthylamine	143	8.249	8.249	(1.030)	158093	20.0000	21.1897
91 2,3,4,6-Tetrachlorophenol	232	8.313	8.313	(1.038)	50417	20.0000	19.7778
92 2-Naphthylamine	143	8.313	8.313	(1.038)	148094	20.0000	19.8239
98 Thionazin	97	8.442	8.442	(1.054)	47205	20.0000	21.1288
100 5-Nitro-o-toluidine	152	8.501	8.501	(1.062)	48359	20.0000	19.2802
182 Diphenylamine	169	8.548	8.548	(1.067)	167245	20.0000	20.6182
104 Sulfotepp	97	8.719	8.719	(0.943)	34627	20.0000	20.2970
105 1,3,5-Trinitrobenzene	213	8.801	8.801	(0.952)	12731	20.0000	20.1711
106 Diallate (#1)	86	8.795	8.795	(0.952)	74283	14.4000	15.2875
107 Phorate	121	8.813	8.813	(0.954)	33841	20.0000	22.0286
109 Phenacetin	108	8.813	8.813	(0.954)	81971	20.0000	18.6320
111 Diallate (#2)	86	8.871	8.871	(0.960)	16422	5.60000	5.31622(a)
112 Dimethoate	87	8.971	8.971	(0.971)	77386	20.0000	21.7711
114 4-Aminobiphenyl	169	9.077	9.077	(0.982)	203805	20.0000	20.3086
115 Pentachloronitrobenzene	237	9.189	9.189	(0.994)	27766	20.0000	18.2662
116 Pronamide	173	9.112	9.112	(0.986)	79452	20.0000	19.4219
120 2-secbutyl-4,6-dinitropheno	211	9.247	9.247	(1.001)	31155	20.0000	18.2211
121 Disulfoton	88	9.224	9.224	(0.998)	103698	20.0000	21.3419
124 Methyl parathion	109	9.535	9.535	(1.032)	55093	20.0000	19.3306
126 Parathion	109	9.823	9.823	(1.063)	35317	20.0000	17.6790
127 4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.071)	5455	20.0000	25.5314
128 Methapyrilene	97	9.917	9.917	(1.073)	75579	20.0000	20.9746
129 Isodrin	193	10.105	10.105	(1.093)	32990	20.0000	20.8832
134 Aramite (#1)	185	10.417	10.417	(0.916)	14859	9.20000	9.02352(a)
135 Aramite (#2)	185	10.475	10.475	(0.921)	22323	10.8000	10.6785
136 p-Dimethylaminoazobenzene	120	10.587	10.587	(0.931)	71910	20.0000	20.9222
138 3,3'-Dimethylbenzidine	212	10.857	10.857	(0.955)	168549	20.0000	19.0904
139 2-Acetylaminofluorene	181	11.086	11.086	(0.975)	97979	20.0000	17.1334
149 7,12-Dimethylbenz(a)anthrac	256	12.420	12.420	(0.963)	115395	20.0000	18.2574(H)
152 3-Methylcholanthrene	268	13.278	13.278	(1.030)	119264	20.0000	18.3594(H)
153 Dibenz(a,j)acridine	279	14.142	14.142	(1.097)	171147	20.0000	18.3485

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
M 1 Total Isosafrole	162				56683	20.0000	20.3556
M 2 Total Diallate	86				90705	20.0000	20.7328
M 3 Total Aramite	185				37182	20.0000	19.7418
165 Chlorobenzilate	251	10.611	10.611	(0.933)	75981	20.0000	19.1835
199 1,4-Dioxane	88	2.767	2.767	(0.541)	54800	20.0000	21.5262
175 Biphenyl	154	7.455	7.455	(0.931)	200066	20.0000	20.8065

QC Flag Legend

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

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3376.d
Lab Smp Id: AP9_0020
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0020
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	150251	2.10
49 Naphthalene-d8	530122	265061	1060244	554524	4.60
83 Acenaphthene-d10	318542	159271	637084	328343	3.08
117 Phenanthrene-d10	562072	281036	1124144	592486	5.41
142 Chrysene-d12	593593	296796	1187186	613530	3.36
151 Perylene-d12	499739	249870	999478	492192	-1.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	-0.01
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.24	0.00
142 Chrysene-d12	11.36	10.86	11.86	11.37	0.15
151 Perylene-d12	12.87	12.37	13.37	12.90	0.18

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

Data File: /chem/K.i/052904.b/k3376.d

Page 5

Date : 29-MAY-2004 12:37

Client ID: AP9_0020

Instrument: K.i

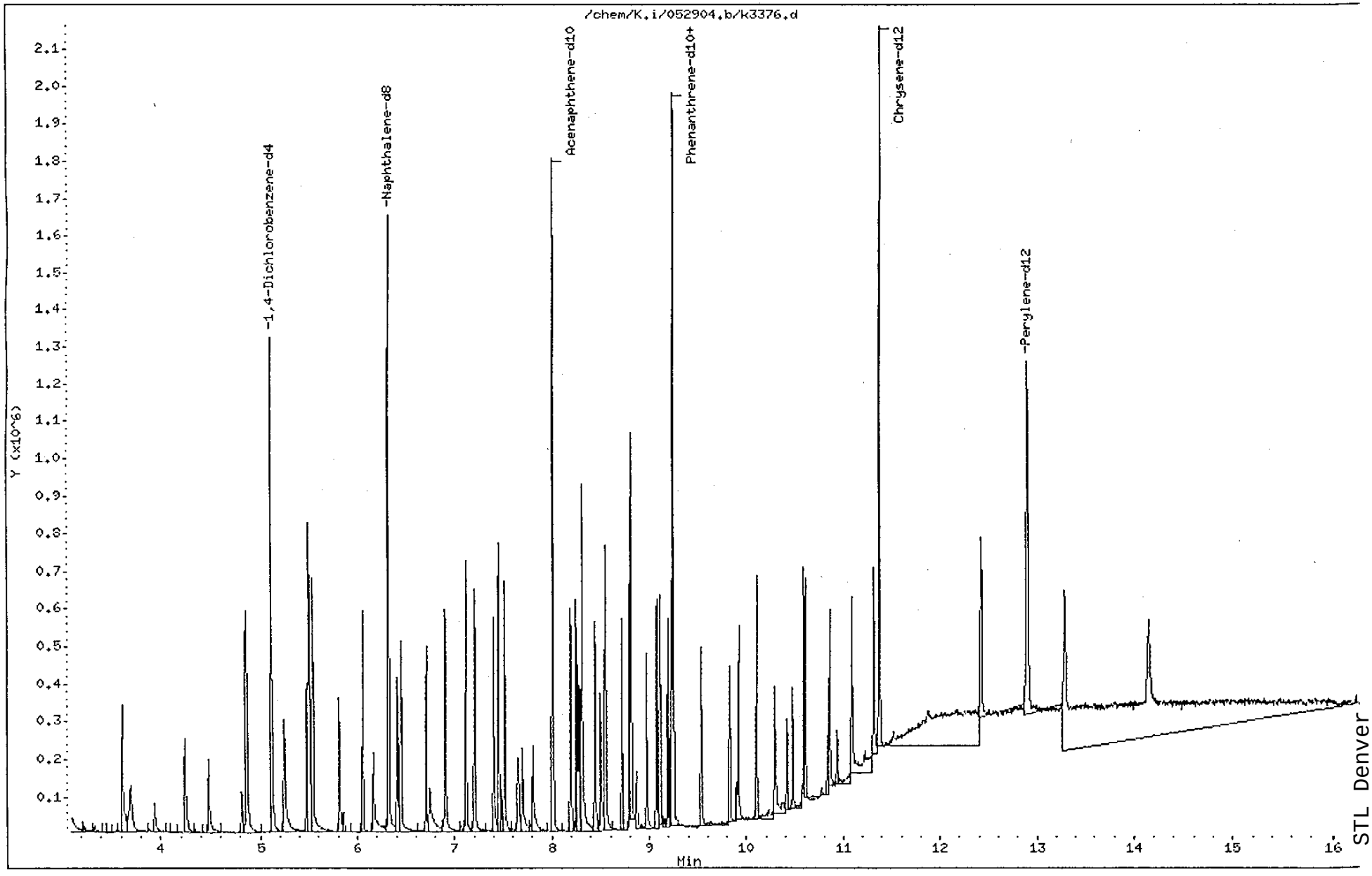
Sample Info: AP9_0020,BNA1406,P:050403,E:073104

Volume Injected (uL): 0.5

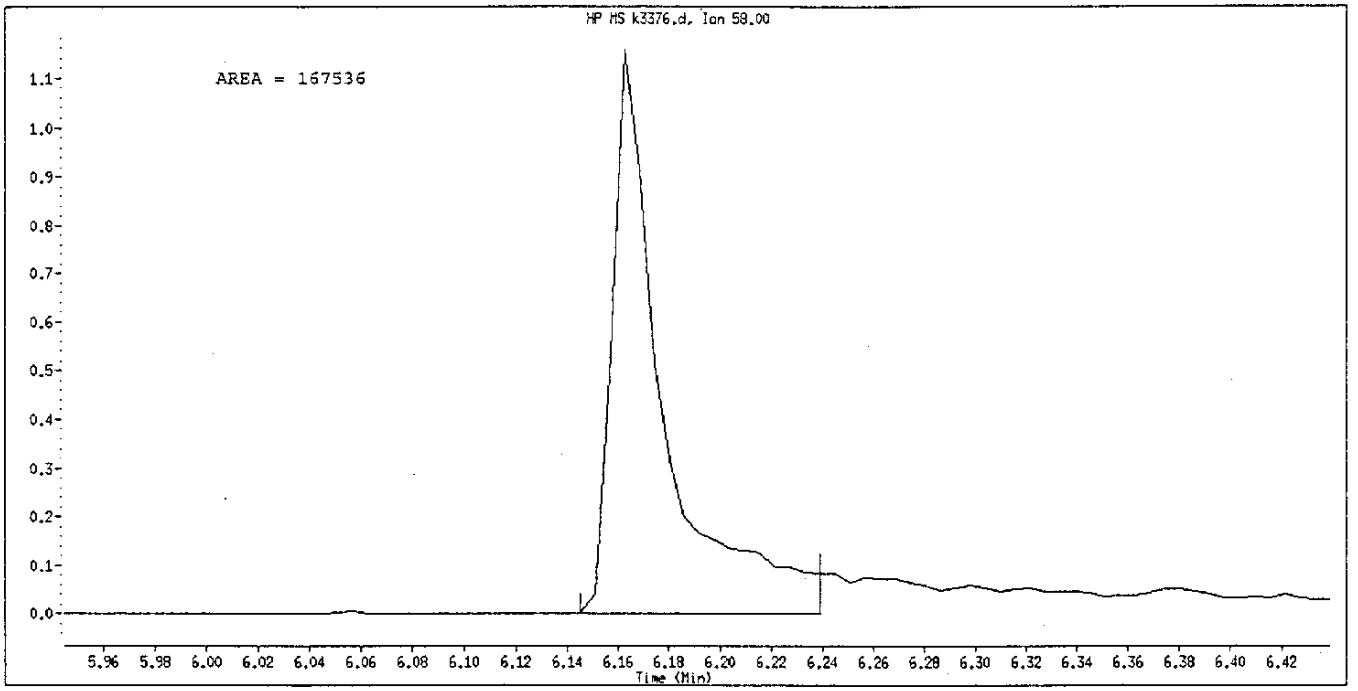
Operator: kiddd

Column phase: Rtx-5ms 30m 0.5um

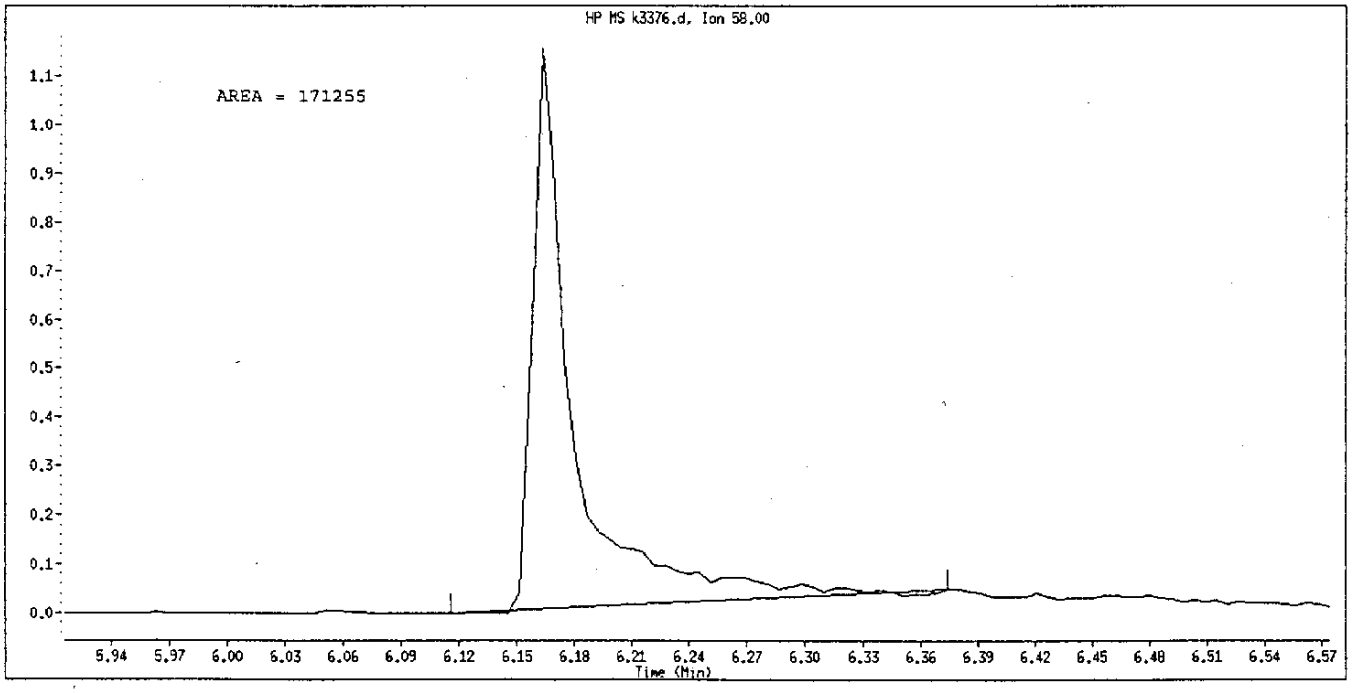
Column diameter: 0.25



Data File Name: k3376.d
Inj. Date and Time: 29-MAY-2004 12:37
Instrument ID: K.i
Client ID: AP9_0020
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration

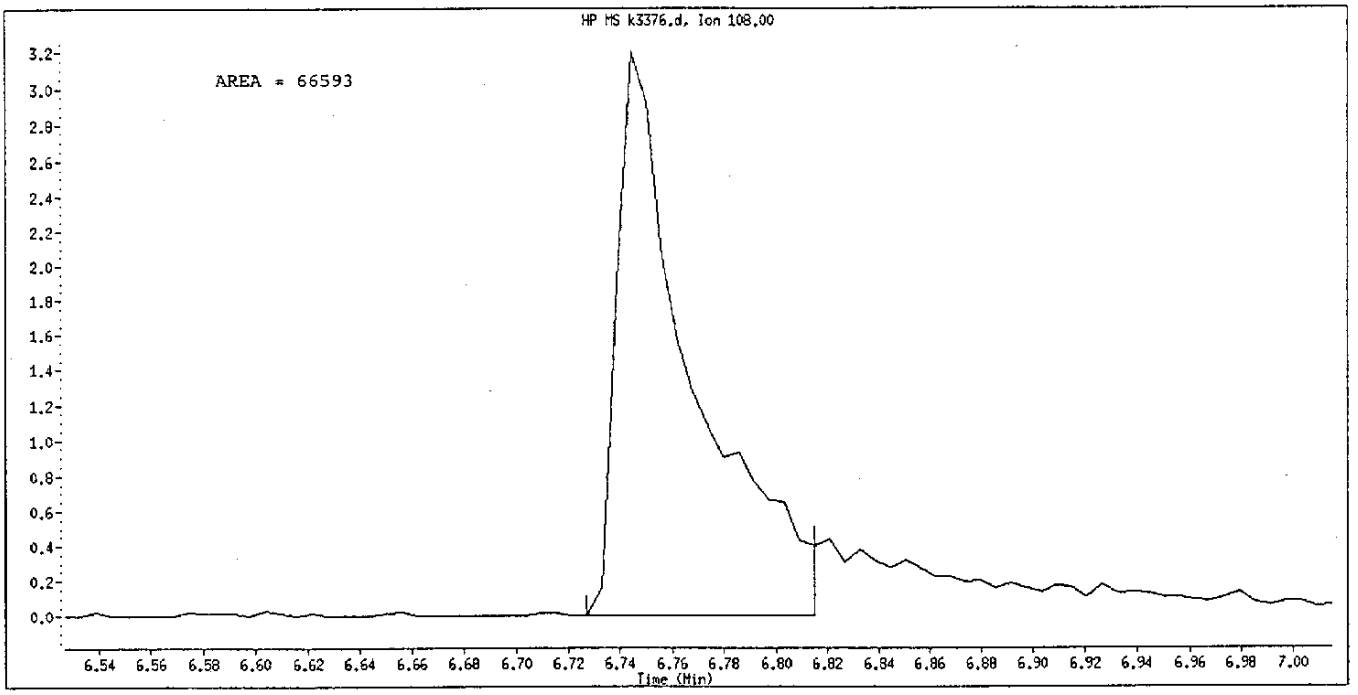


Manual Integration

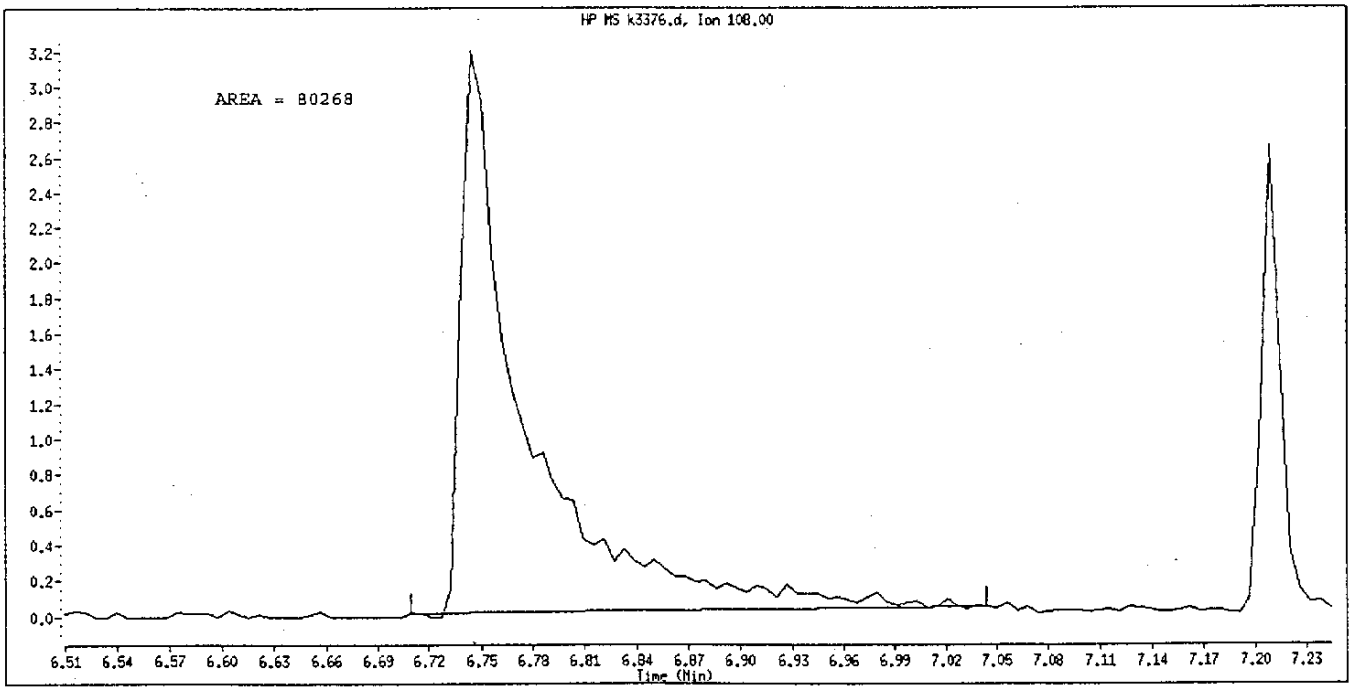
Manually Integrated By: kiddd
Manual Integration Reason: Peak Tailing or Fronting

MK 05-31-04 10.1.04 BJS

Data File Name: k3376.d
Inj. Date and Time: 29-MAY-2004 12:37
Instrument ID: K.i
Client ID: AP9_0020
Compound Name: p-Phenylenediamine
CAS #: 106-50-3
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Peak Tailing or Fronting

05-31-04 6.1.04

MW 05-31-04

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3377.d
Lab Smp Id: AP9_0050 Client Smp ID: AP9_0050
Inj Date : 29-MAY-2004 13:00
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0050,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:55 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 13:00 Cal File: k3377.d
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	143014	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	537666	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	311269	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	552872	40.0000	
* 142 Chrysene-d12	240	11.375	11.375	(1.000)	580323	40.0000	
* 151 Perylene-d12	264	12.902	12.902	(1.000)	477898	40.0000	
7 2-Picoline	93	3.607	3.607	(0.705)	309895	50.0000	56.1287
8 N-Nitrosomethylethylamine	88	3.695	3.695	(0.722)	136106	50.0000	54.3494
9 Methyl methanesulfonate	80	3.936	3.936	(0.769)	90872	50.0000	55.3558
11 N-Nitrosodiethylamine	102	4.242	4.242	(0.829)	128578	50.0000	55.6519
13 Ethyl methanesulfonate	79	4.483	4.483	(0.876)	196961	50.0000	54.0423
19 Pentachloroethane	117	4.870	4.870	(0.952)	94014	50.0000	54.7933
31 N-Nitrosopyrrolidine	100	5.499	5.499	(1.075)	119347	50.0000	54.0686
34 N-Nitrosomorpholine	116	5.511	5.511	(1.077)	51136	50.0000	54.7526
35 o-Toluidine	106	5.540	5.540	(1.083)	380291	50.0000	55.8174

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39	N-Nitrosopiperidine	114	5.810	5.810	(0.919)	119602	50.0000	53.3436
44	O,O,O-Triethyl phosphorothio	198	6.057	6.057	(0.958)	126804	50.0000	51.4993
48	a,a-Dimethylphenethylamine	58	6.175	6.175	(0.977)	525537	50.0000	39.2701(M)
53	2,6-Dichlorophenol	162	6.410	6.410	(1.014)	193279	50.0000	54.2069
54	Hexachloropropene	213	6.451	6.451	(1.020)	174876	50.0000	53.2674
57	N-Nitrosodi-n-butylamine	84	6.709	6.709	(1.061)	159393	50.0000	52.6783
58	p-Phenylenediamine	108	6.745	6.745	(1.067)	220276	50.0000	55.4024
61	Safrole	162	6.909	6.909	(1.093)	177698	50.0000	52.9638
65	1,2,4,5-Tetrachlorobenzene	216	7.209	7.209	(1.140)	224129	50.0000	51.6582
66	Isosafrole (#1)	162	7.197	7.197	(0.899)	24093	8.75000	9.89510(a)
72	Isosafrole (#2)	104	7.403	7.403	(0.924)	119210	41.2500	44.4263
73	1-Chloronaphthalene	162	7.520	7.520	(0.939)	387025	50.0000	52.8772
75	1,4-Naphthoquinone	158	7.649	7.649	(0.955)	93022	50.0000	56.7266
78	1,4-Dinitrobenzene	168	7.697	7.697	(0.961)	63207	50.0000	55.9020
80	1,3-Dinitrobenzene	168	7.802	7.802	(0.974)	75292	50.0000	56.7872
89	Pentachlorobenzene	250	8.196	8.196	(1.023)	180049	50.0000	50.9342
90	1-Naphthylamine	143	8.249	8.249	(1.030)	394161	50.0000	55.7286
91	2,3,4,6-Tetrachlorophenol	232	8.313	8.313	(1.038)	116971	50.0000	48.4029
92	2-Naphthylamine	143	8.313	8.313	(1.038)	375646	50.0000	53.0422
98	Thionazin	97	8.443	8.443	(1.054)	113964	50.0000	53.8080
100	5-Nitro-o-toluidine	152	8.501	8.501	(1.062)	129502	50.0000	54.4631
182	Diphenylamine	169	8.554	8.554	(1.068)	394333	50.0000	51.2806
104	Sulfotepp	97	8.719	8.719	(0.943)	83673	50.0000	52.5600
105	1,3,5-Trinitrobenzene	213	8.801	8.801	(0.952)	41686	50.0000	51.6102
106	Diallate (#1)	86	8.795	8.795	(0.951)	182269	36.0000	40.1989
107	Phorate	121	8.813	8.813	(0.953)	80919	50.0000	56.4478
109	Phenacetin	108	8.819	8.819	(0.954)	222813	50.0000	54.2743
111	Diallate (#2)	86	8.872	8.872	(0.959)	42214	14.0000	14.6449
112	Dimethoate	87	8.977	8.977	(0.971)	197721	50.0000	59.6107
114	4-Aminobiphenyl	169	9.077	9.077	(0.982)	515235	50.0000	55.0204
115	Pentachloronitrobenzene	237	9.189	9.189	(0.994)	73085	50.0000	51.5248
116	Pronamide	173	9.113	9.113	(0.985)	200997	50.0000	52.6538
120	2-secbutyl-4,6-dinitropheno	211	9.248	9.248	(1.000)	103412	50.0000	49.1037
121	Disulfoton	88	9.224	9.224	(0.997)	262643	50.0000	57.9272
124	Methyl parathion	109	9.536	9.536	(1.031)	150588	50.0000	56.6231
126	Parathion	109	9.829	9.829	(1.063)	98314	50.0000	52.7402
127	4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.070)	29146	50.0000	50.5926(Q)
128	Methapyrilene	97	9.917	9.917	(1.072)	192035	50.0000	57.1119
129	Isodrin	193	10.105	10.105	(1.093)	79250	50.0000	53.7612
134	Aramite (#1)	185	10.417	10.417	(0.916)	38915	23.0000	24.9844
135	Aramite (#2)	185	10.476	10.476	(0.921)	61239	27.0000	30.9706
136	p-Dimethylaminoazobenzene	120	10.587	10.587	(0.931)	184213	50.0000	56.6638
138	3,3'-Dimethylbenzidine	212	10.863	10.863	(0.955)	448115	50.0000	53.6592
139	2-Acetylaminofluorene	181	11.093	11.093	(0.975)	286681	50.0000	53.0001
149	7,12-Dimethylbenz(a)anthrac	256	12.420	12.420	(0.963)	306748	50.0000	49.9843(H)
152	3-Methylcholanthrene	268	13.284	13.284	(1.030)	317712	50.0000	50.3712(H)
153	Dibenz(a,j)acridine	279	14.148	14.148	(1.097)	468842	50.0000	51.7675

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
M 1 Total Isosafrole	162				143303	50.0000	54.2848
M 2 Total Diallate	86				224483	50.0000	54.9876
M 3 Total Aramite	185				100154	50.0000	56.2197
165 Chlorobenzilate	251	10.611	10.611	(0.933)	196458	50.0000	52.4396
199 1,4-Dioxane	88	2.767	2.767	(0.541)	131006	50.0000	54.0650
175 Biphenyl	154	7.456	7.456	(0.931)	477974	50.0000	52.4351

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3377.d
Lab Smp Id: AP9_0050
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0050
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

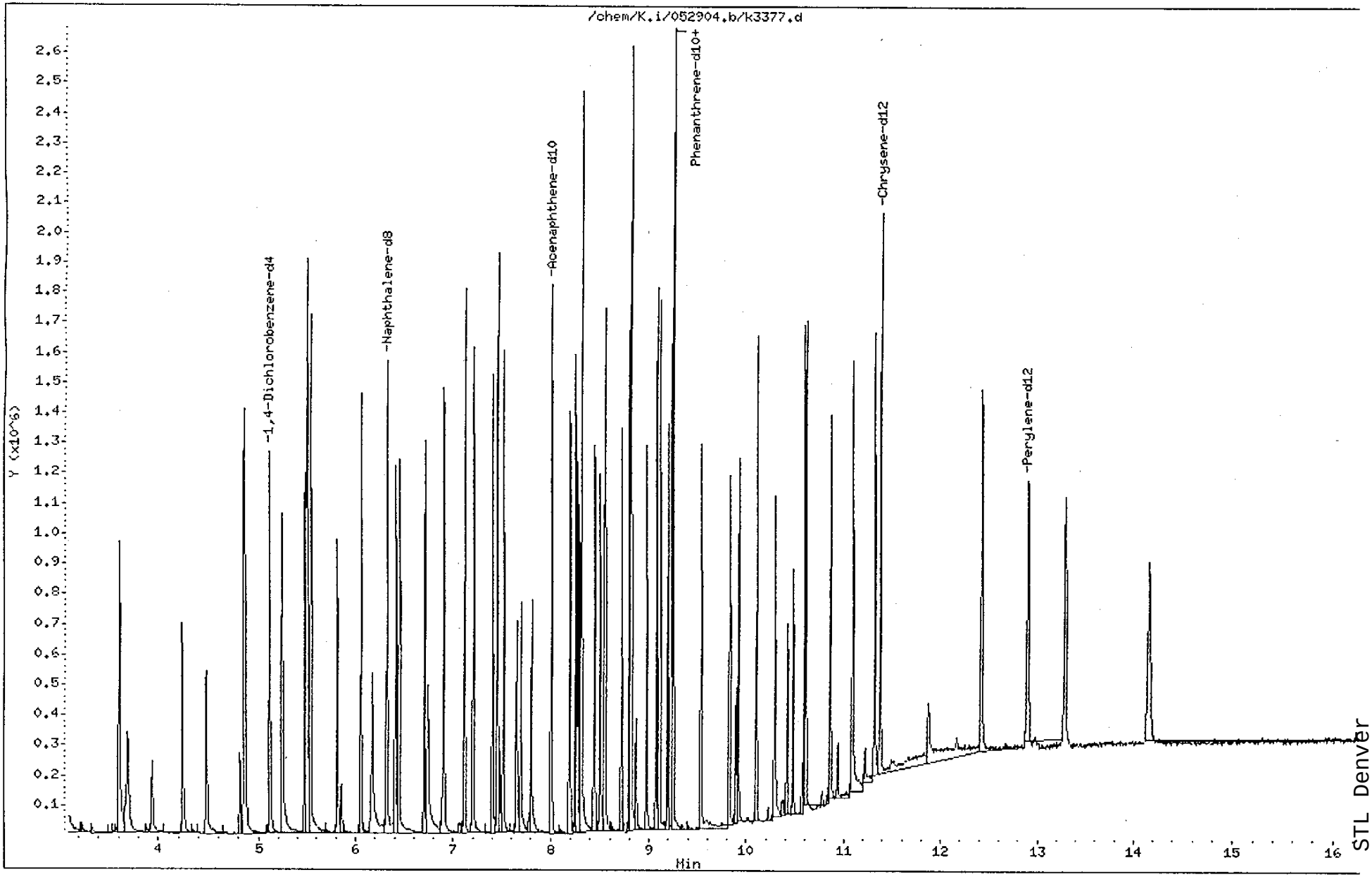
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	143014	-2.82
49 Naphthalene-d8	530122	265061	1060244	537666	1.42
83 Acenaphthene-d10	318542	159271	637084	311269	-2.28
117 Phenanthrene-d10	562072	281036	1124144	552872	-1.64
142 Chrysene-d12	593593	296796	1187186	580323	-2.24
151 Perylene-d12	499739	249870	999478	477898	-4.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.25	0.06
142 Chrysene-d12	11.36	10.86	11.86	11.37	0.15
151 Perylene-d12	12.87	12.37	13.37	12.90	0.23

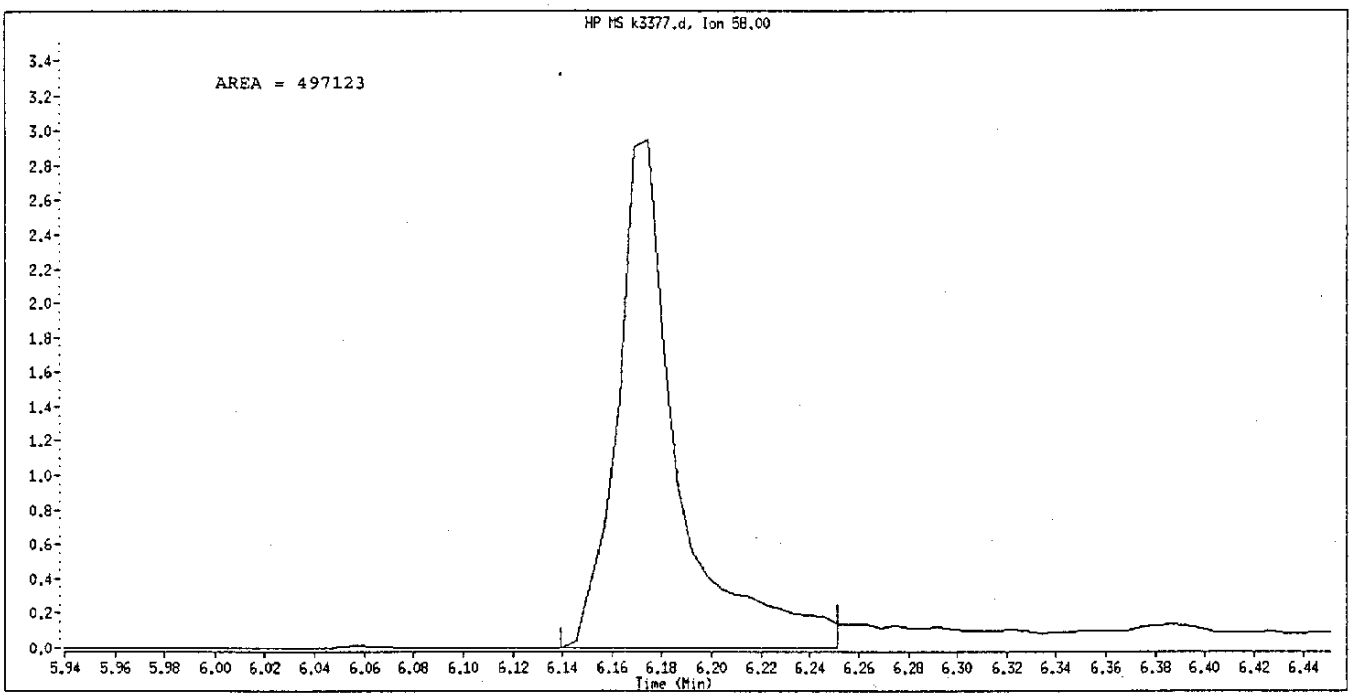
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/K.i/052904.b/k3377.d
Date : 29-MAY-2004 13:00
Client ID: AP9_0050
Sample Info: AP9_0050,BNA1406,P:050403,E:073104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

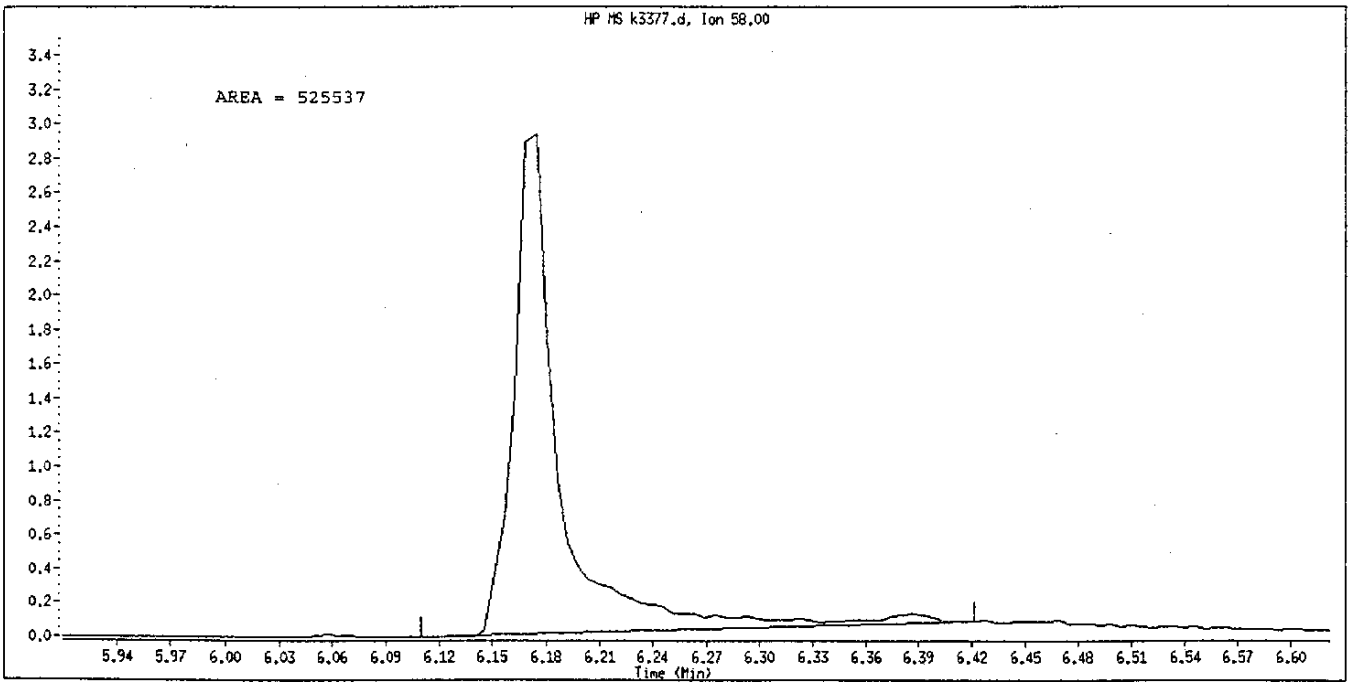
Instrument: K.i
Operator: kiddd
Column diameter: 0.25



Data File Name: k3377.d
Inj. Date and Time: 29-MAY-2004 13:00
Instrument ID: K.i
Client ID: AP9_0050
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Peak Tailing or Fronting

MAK 05-31-04

6.1.04 BJS

MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3378.d
Lab Smp Id: AP9_0080 Client Smp ID: AP9_0080
Inj Date : 29-MAY-2004 13:24
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0080,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:56 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 13:24 Cal File: k3378.d
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	147164	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	530122	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	318542	40.0000	
* 117 Phenanthrene-d10	188	9.242	9.242	(1.000)	562072	40.0000	
* 142 Chrysene-d12	240	11.357	11.357	(1.000)	593593	40.0000	
* 151 Perylene-d12	264	12.873	12.873	(1.000)	499739	40.0000	
7 2-Picoline	93	3.601	3.601	(0.704)	450292	80.0000	79.2577
8 N-Nitrosomethylethylamine	88	3.695	3.695	(0.722)	204796	80.0000	79.4723
9 Methyl methanesulfonate	80	3.936	3.936	(0.769)	139850	80.0000	82.7890
11 N-Nitrosodiethylamine	102	4.242	4.242	(0.829)	189186	80.0000	79.5754
13 Ethyl methanesulfonate	79	4.483	4.483	(0.876)	289309	80.0000	77.1422
19 Pentachloroethane	117	4.870	4.870	(0.952)	135222	80.0000	76.5877
31 N-Nitrosopyrrolidine	100	5.505	5.505	(1.076)	176369	80.0000	77.6484
34 N-Nitrosomorpholine	116	5.511	5.511	(1.077)	74340	80.0000	77.3531
35 o-Toluidine	106	5.540	5.540	(1.083)	521764	80.0000	74.4226

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39	N-Nitrosopiperidine	114	5.811	5.811	(0.919)	181103	80.0000	81.9231
44	O,O,O-Triethyl phosphorothio	198	6.057	6.057	(0.958)	184413	80.0000	75.9620
48	a,a-Dimethylphenethylamine	58	6.181	6.181	(0.978)	1035247	80.0000	78.4583(M)
53	2,6-Dichlorophenol	162	6.410	6.410	(1.014)	282137	80.0000	80.2540
54	Hexachloropropene	213	6.451	6.451	(1.020)	258483	80.0000	79.8546
57	N-Nitrosodi-n-butylamine	84	6.709	6.709	(1.061)	239583	80.0000	80.3073
58	p-Phenylenediamine	108	6.745	6.745	(1.067)	315921	80.0000	80.5892
61	Safrole	162	6.909	6.909	(1.093)	255084	80.0000	77.1111
65	1,2,4,5-Tetrachlorobenzene	216	7.209	7.209	(1.140)	324121	80.0000	75.7679
66	Isosafrole (#1)	162	7.191	7.191	(0.898)	34430	14.0000	13.8177
72	Isosafrole (#2)	104	7.403	7.403	(0.924)	181660	66.0000	66.1540
73	1-Chloronaphthalene	162	7.520	7.520	(0.939)	573403	80.0000	76.5524
75	1,4-Naphthoquinone	158	7.650	7.650	(0.955)	145542	80.0000	86.7279
78	1,4-Dinitrobenzene	168	7.697	7.697	(0.961)	97407	80.0000	84.1824
80	1,3-Dinitrobenzene	168	7.802	7.802	(0.974)	110655	80.0000	81.5534
89	Pentachlorobenzene	250	8.196	8.196	(1.023)	275252	80.0000	76.0885
90	1-Naphthylamine	143	8.255	8.255	(1.031)	565256	80.0000	78.0943
91	2,3,4,6-Tetrachlorophenol	232	8.313	8.313	(1.038)	181478	80.0000	73.3815
92	2-Naphthylamine	143	8.313	8.313	(1.038)	563403	80.0000	77.7377
98	Thionazin	97	8.449	8.449	(1.055)	169605	80.0000	78.2505
100	5-Nitro-o-toluidine	152	8.502	8.502	(1.062)	201682	80.0000	82.8824
182	Diphenylamine	169	8.554	8.554	(1.068)	595084	80.0000	75.6201
104	Sulfotepp	97	8.719	8.719	(0.943)	125222	80.0000	77.3719
105	1,3,5-Trinitrobenzene	213	8.801	8.801	(0.952)	64055	80.0000	74.0988
106	Diallate (#1)	86	8.795	8.795	(0.952)	262909	57.8000	57.0347
107	Phorate	121	8.813	8.813	(0.954)	113175	80.0000	77.6569
109	Phenacetin	108	8.819	8.819	(0.954)	325974	80.0000	78.1032
111	Diallate (#2)	86	8.872	8.872	(0.960)	66237	22.6000	22.6028
112	Dimethoate	87	8.977	8.977	(0.971)	276872	80.0000	82.1076
114	4-Aminobiphenyl	169	9.077	9.077	(0.982)	728724	80.0000	76.5445
115	Pentachloronitrobenzene	237	9.189	9.189	(0.994)	110386	80.0000	76.5482
116	Pronamide	173	9.113	9.113	(0.986)	298263	80.0000	76.8550
120	2-secbutyl-4,6-dinitropheno	211	9.248	9.248	(1.001)	167498	80.0000	74.5877
121	Disulfoton	88	9.224	9.224	(0.998)	371632	80.0000	80.6237
124	Methyl parathion	109	9.536	9.536	(1.032)	228193	80.0000	84.3992
126	Parathion	109	9.824	9.824	(1.063)	149459	80.0000	78.8644
127	4-Nitroquinoline-1-oxide	190	9.888	9.888	(1.070)	57605	80.0000	79.2587
128	Methapyrilene	97	9.912	9.912	(1.072)	276129	80.0000	80.7775
129	Isodrin	193	10.100	10.100	(1.093)	116921	80.0000	78.0180
134	Aramite (#1)	185	10.411	10.411	(0.917)	61017	36.0000	38.2987
135	Aramite (#2)	185	10.464	10.464	(0.921)	90530	43.2000	44.7606
136	p-Dimethylaminoazobenzene	120	10.576	10.576	(0.931)	275090	80.0000	82.7258
138	3,3'-Dimethylbenzidine	212	10.846	10.846	(0.955)	713751	80.0000	83.5568
139	2-Acetylaminofluorene	181	11.075	11.075	(0.975)	458596	80.0000	82.8875
149	7,12-Dimethylbenz(a)anthrac	256	12.397	12.397	(0.963)	494127	80.0000	76.9985
152	3-Methylcholanthrene	268	13.261	13.261	(1.030)	511772	80.0000	77.5921
153	Dibenz(a,j)acridine	279	14.119	14.119	(1.097)	739853	80.0000	78.1211

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
M	1 Total Isosafrole	162				216090	80.0000	79.9884
M	2 Total Diallate	86				329146	80.0000	79.3053
M	3 Total Aramite	185				151547	80.0000	83.1665
	165 Chlorobenzilate	251	10.599	10.599	(0.933)	302773	80.0000	79.0111
	199 1,4-Dioxane	88	2.767	2.767	(0.541)	190805	80.0000	76.5230
	175 Biphenyl	154	7.456	7.456	(0.931)	703681	80.0000	75.4333

QC Flag Legend

M - Compound response manually integrated.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3378.d
Lab Smp Id: AP9_0080
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0080
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

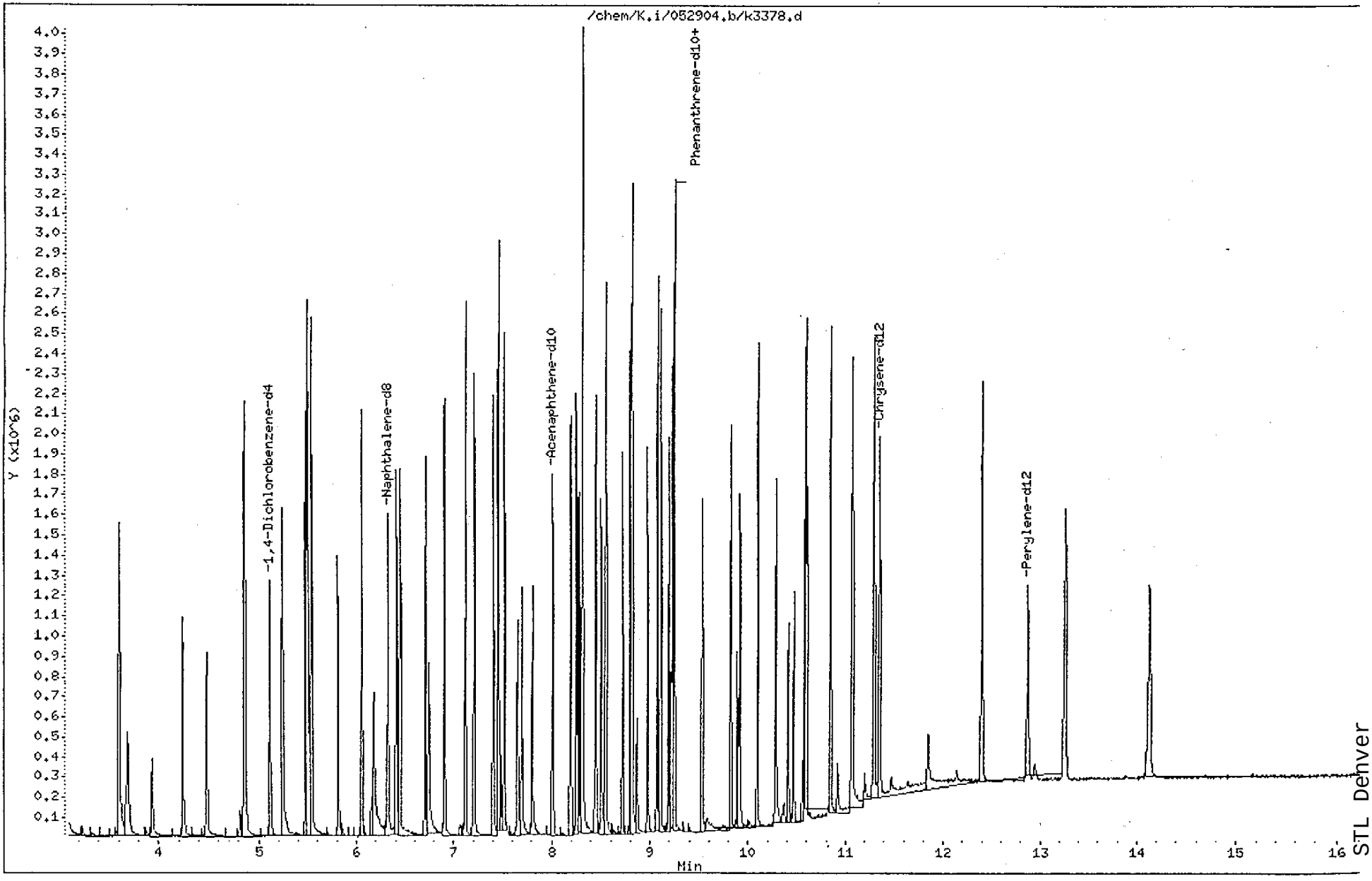
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	147164	0.00
49 Naphthalene-d8	530122	265061	1060244	530122	0.00
83 Acenaphthene-d10	318542	159271	637084	318542	0.00
117 Phenanthrene-d10	562072	281036	1124144	562072	0.00
142 Chrysene-d12	593593	296796	1187186	593593	0.00
151 Perylene-d12	499739	249870	999478	499739	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.24	0.00
142 Chrysene-d12	11.36	10.86	11.86	11.36	0.00
151 Perylene-d12	12.87	12.37	13.37	12.87	0.00

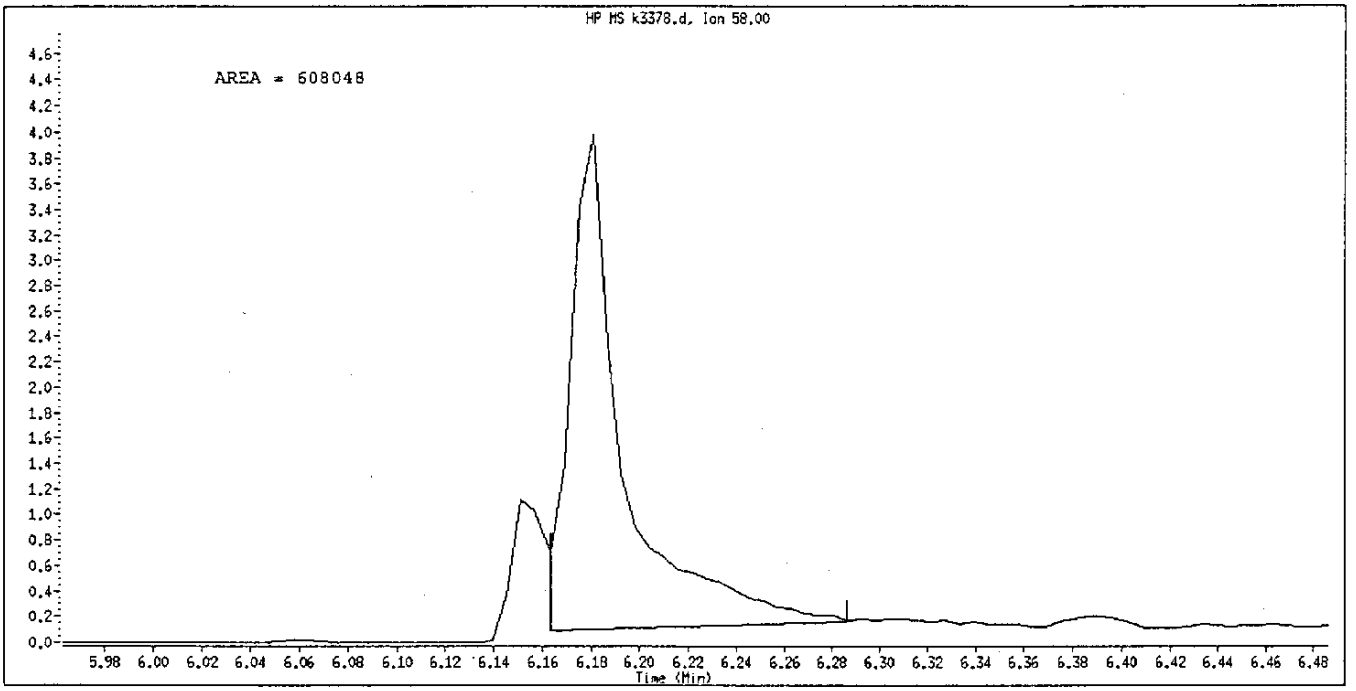
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/K.i/052904.b/k3378.d
Date : 29-MAY-2004 13:24
Client ID: AP9_0080
Sample Info: AP9_0080,BNA1406,P:050403,E:073104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

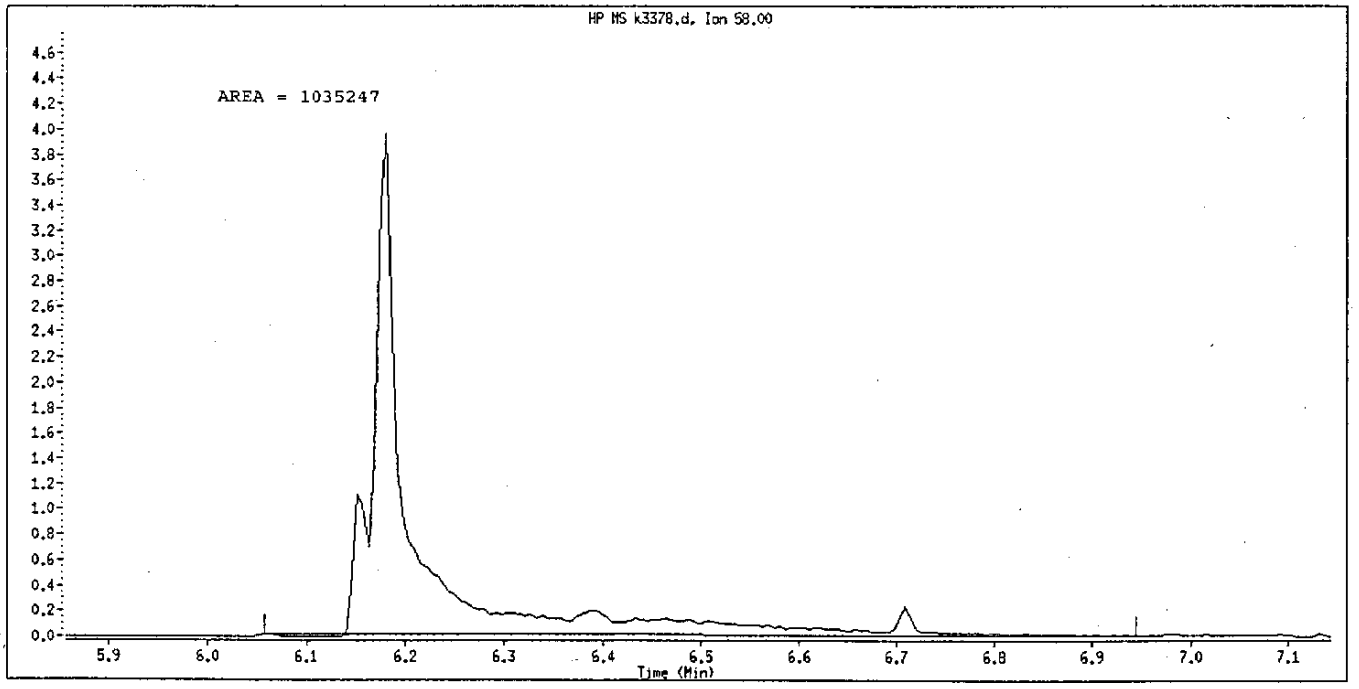
Instrument: K.i
Operator: kiddd
Column diameter: 0.25



Data File Name: k3378.d
Inj. Date and Time: 29-MAY-2004 13:24
Instrument ID: K.i
Client ID: AP9_0080
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Split Peak

MMW 05-31-04

6.1.04 BJ

MW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3379.d
Lab Smp Id: AP9_0120 Client Smp ID: AP9_0120
Inj Date : 29-MAY-2004 13:48
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0120,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:57 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 13:48 Cal File: k3379.d
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	139051	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	521960	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	313636	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	558203	40.0000	
* 142 Chrysene-d12	240	11.363	11.363	(1.000)	610012	40.0000	
* 151 Perylene-d12	264	12.885	12.885	(1.000)	510299	40.0000	
7 2-Picoline	93	3.601	3.601	(0.704)	635661	120.000	118.413
8 N-Nitrosomethylethylamine	88	3.695	3.695	(0.722)	290517	120.000	119.314
9 Methyl methanesulfonate	80	3.936	3.936	(0.769)	183182	120.000	114.768
11 N-Nitrosodiethylamine	102	4.247	4.247	(0.830)	266749	120.000	118.746
13 Ethyl methanesulfonate	79	4.483	4.483	(0.876)	414309	120.000	116.918
19 Pentachloroethane	117	4.870	4.870	(0.952)	184085	120.000	110.346
31 N-Nitrosopyrrolidine	100	5.505	5.505	(1.076)	239288	120.000	111.496
34 N-Nitrosomorpholine	116	5.517	5.517	(1.078)	102056	120.000	112.388
35 o-Toluidine	106	5.540	5.540	(1.083)	729832	120.000	110.174

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39 N-Nitrosopiperidine	114	5.816	5.816	(0.920)	246936	120.000	113.450
44 O,O,O-Triethyl phosphorothio	198	6.057	6.057	(0.958)	267547	120.000	111.929
48 a,a-Dimethylphenethylamine	58	6.192	6.192	(0.980)	1645093	120.000	126.626(M)
53 2,6-Dichlorophenol	162	6.410	6.410	(1.014)	397224	120.000	114.757
54 Hexachloropropene	213	6.451	6.451	(1.020)	380146	120.000	119.277
57 N-Nitrosodi-n-butylamine	84	6.709	6.709	(1.061)	339582	120.000	115.606
58 p-Phenylenediamine	108	6.745	6.745	(1.067)	461830	120.000	119.652
61 Safrole	162	6.909	6.909	(1.093)	366445	120.000	112.507
65 1,2,4,5-Tetrachlorobenzene	216	7.215	7.215	(1.141)	469887	120.000	111.560
66 Isosafrole (#1)	162	7.191	7.191	(0.898)	50209	21.0000	20.4654
72 Isosafrole (#2)	104	7.409	7.409	(0.925)	258826	99.0000	95.7294
73 1-Chloronaphthalene	162	7.520	7.520	(0.939)	802344	120.000	108.793
75 1,4-Naphthoquinone	158	7.649	7.649	(0.955)	204408	120.000	123.711
78 1,4-Dinitrobenzene	168	7.696	7.696	(0.961)	149513	120.000	131.235
80 1,3-Dinitrobenzene	168	7.802	7.802	(0.974)	166238	120.000	124.435
89 Pentachlorobenzene	250	8.196	8.196	(1.023)	398477	120.000	111.875
90 1-Naphthylamine	143	8.255	8.255	(1.031)	809105	120.000	113.532
91 2,3,4,6-Tetrachlorophenol	232	8.313	8.313	(1.038)	267637	120.000	109.913
92 2-Naphthylamine	143	8.313	8.313	(1.038)	792914	120.000	111.117
98 Thionazin	97	8.449	8.449	(1.055)	245180	120.000	114.888
100 5-Nitro-o-toluidine	152	8.507	8.507	(1.062)	275033	120.000	114.794
182 Diphenylamine	169	8.554	8.554	(1.068)	862966	120.000	111.376
104 Sulfotepp	97	8.719	8.719	(0.943)	180272	120.000	112.158
105 1,3,5-Trinitrobenzene	213	8.801	8.801	(0.952)	100246	120.000	112.369
106 Diallate (#1)	86	8.801	8.801	(0.952)	363557	86.4000	79.4157
107 Phorate	121	8.813	8.813	(0.953)	155211	120.000	107.239
109 Phenacetin	108	8.825	8.825	(0.954)	491574	120.000	118.597
111 Diallate (#2)	86	8.872	8.872	(0.959)	94353	33.6000	32.4204
112 Dimethoate	87	8.983	8.983	(0.971)	377093	120.000	112.604
114 4-Aminobiphenyl	169	9.077	9.077	(0.982)	1055867	120.000	111.676
115 Pentachloronitrobenzene	237	9.195	9.195	(0.994)	168380	120.000	117.574
116 Pronamide	173	9.118	9.118	(0.986)	443024	120.000	114.948
120 2-secbutyl-4,6-dinitropheno	211	9.248	9.248	(1.000)	264479	120.000	114.966
121 Disulfoton	88	9.224	9.224	(0.997)	514221	120.000	112.331
124 Methyl parathion	109	9.536	9.536	(1.031)	315377	120.000	117.453
126 Parathion	109	9.823	9.823	(1.062)	213468	120.000	113.420
127 4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.070)	93284	120.000	116.483(Q)
128 Methapyrilene	97	9.917	9.917	(1.072)	377310	120.000	111.142
129 Isodrin	193	10.100	10.100	(1.092)	168316	120.000	113.091
134 Aramite (#1)	185	10.417	10.417	(0.917)	88094	55.2000	53.8060
135 Aramite (#2)	185	10.470	10.470	(0.921)	127664	64.8000	61.4217
136 p-Dimethylaminoazobenzene	120	10.581	10.581	(0.931)	396641	120.000	116.068
138 3,3'-Dimethylbenzidine	212	10.852	10.852	(0.955)	1033481	120.000	117.730
139 2-Acetylaminofluorene	181	11.081	11.081	(0.975)	668366	120.000	117.550
149 7,12-Dimethylbenz(a)anthrac	256	12.409	12.409	(0.963)	756926	120.000	115.509
152 3-Methylcholanthrene	268	13.278	13.278	(1.031)	792197	120.000	117.623
153 Dibenz(a,j)acridine	279	14.142	14.142	(1.098)	1140885	120.000	117.973

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
M 1 Total Isosafrole	162				309035	120.000	116.182
M 2 Total Diallate	86				457910	120.000	111.095
M 3 Total Aramite	185				215758	120.000	115.218
165 Chlorobenzilate	251	10.605	10.605	(0.933)	457913	120.000	116.280
199 1,4-Dioxane	88	2.767	2.767	(0.541)	267831	120.000	113.682
175 Biphenyl	154	7.456	7.456	(0.931)	1003679	120.000	109.276

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3379.d
Lab Smp Id: AP9_0120
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0120
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

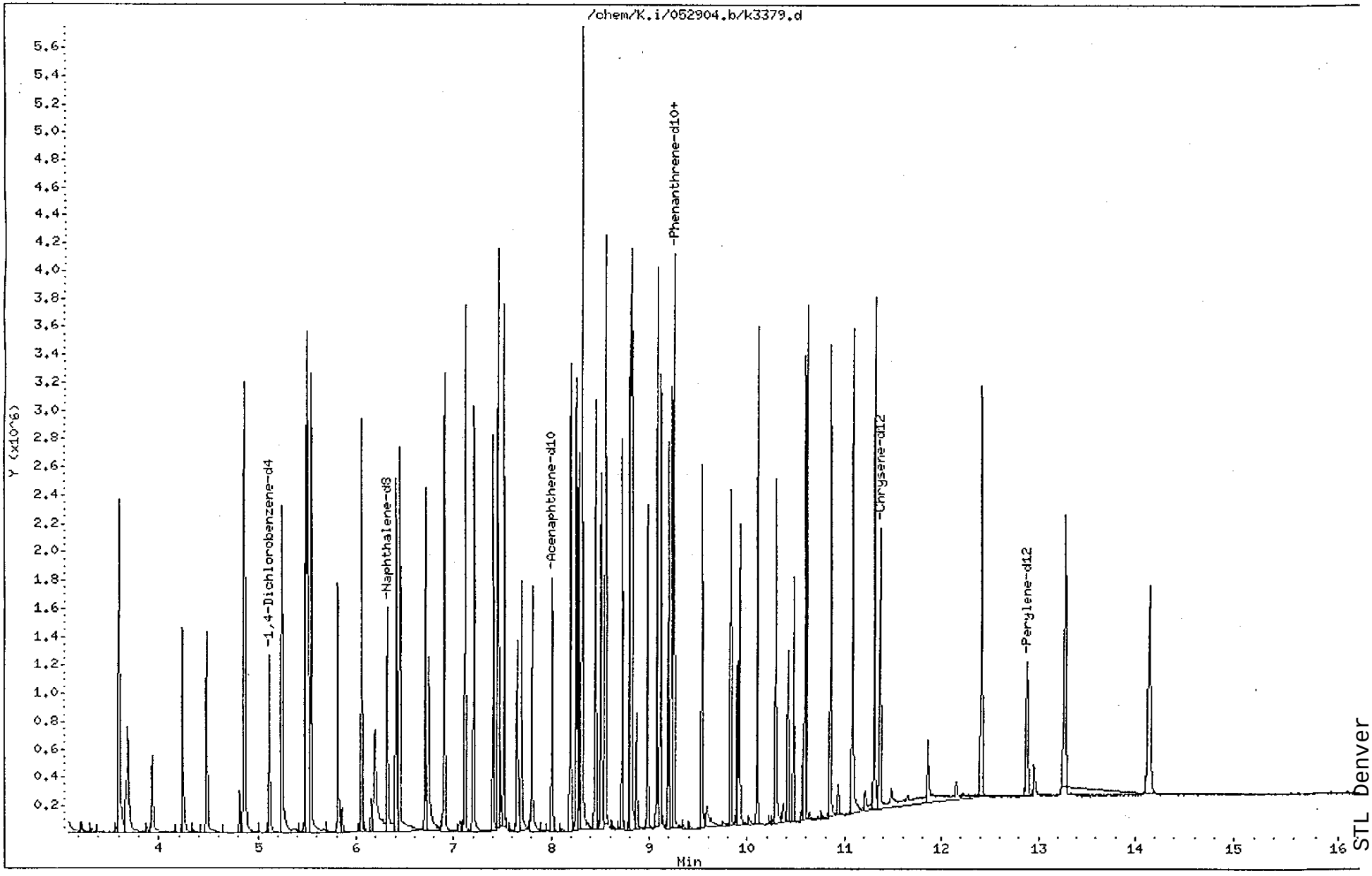
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	139051	-5.51
49 Naphthalene-d8	530122	265061	1060244	521960	-1.54
83 Acenaphthene-d10	318542	159271	637084	313636	-1.54
117 Phenanthrene-d10	562072	281036	1124144	558203	-0.69
142 Chrysene-d12	593593	296796	1187186	610012	2.77
151 Perylene-d12	499739	249870	999478	510299	2.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.25	0.06
142 Chrysene-d12	11.36	10.86	11.86	11.36	0.05
151 Perylene-d12	12.87	12.37	13.37	12.88	0.09

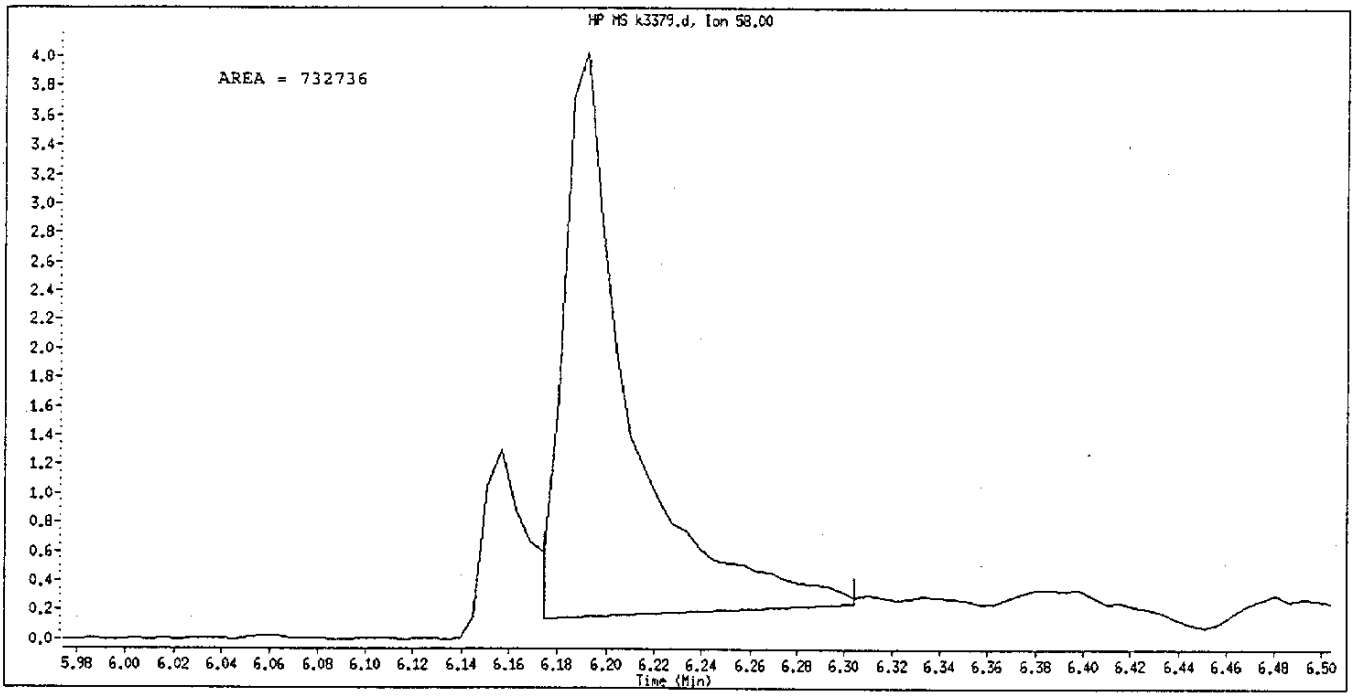
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/K.i/052904.b/k3379.d
Date : 29-MAY-2004 13:48
Client ID: AP9_0120
Sample Info: AP9_0120,BNA1406,P:050403,E:073104
Volume Injected (uL): 0.5
Column phase: Rtx-5ms 30m 0.5um

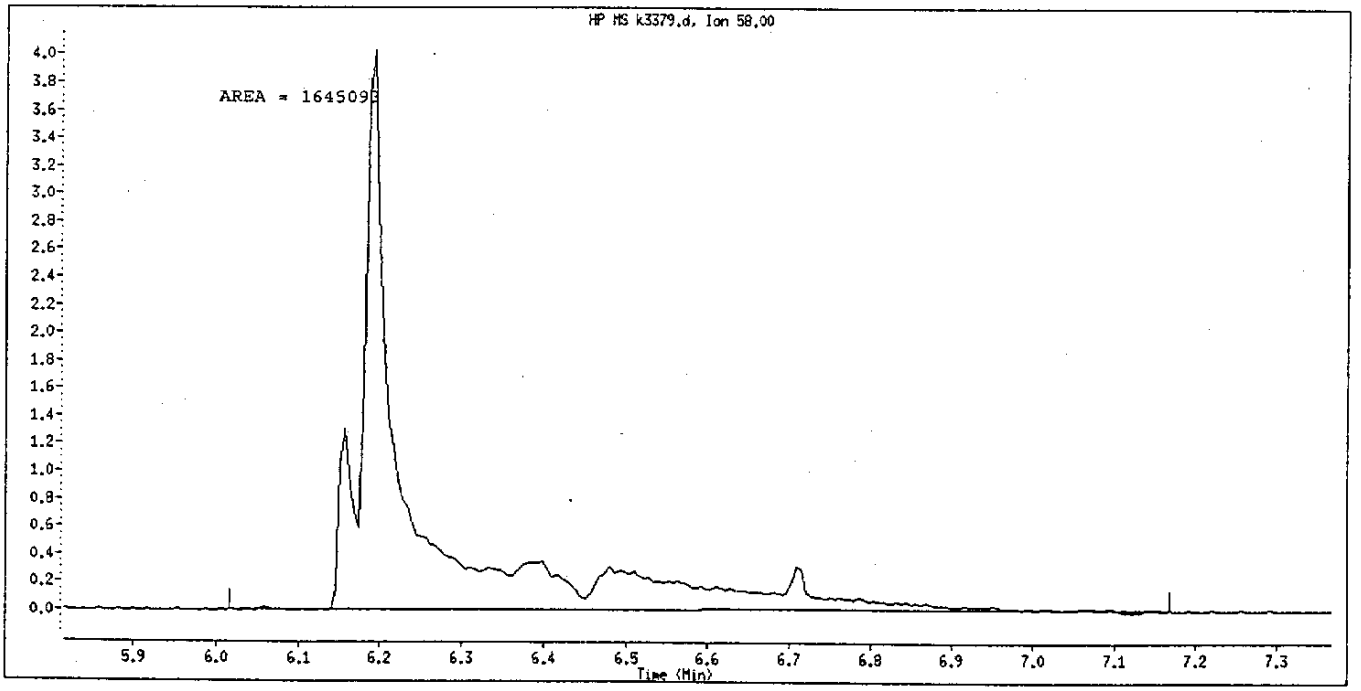
Instrument: K.i
Operator: kiddd
Column diameter: 0.25



Data File Name: k3379.d
Inj. Date and Time: 29-MAY-2004 13:48
Instrument ID: K.i
Client ID: AP9_0120
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Split Peak

MMK 05-31-04

6.1.04 RB/S

05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3380.d
Lab Smp Id: AP9_0160 Client Smp ID: AP9_0160
Inj Date : 29-MAY-2004 14:12
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0160,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:57 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 14:12 Cal File: k3380.d
Als bottle: 20 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	148236	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	543897	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	328093	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	574116	40.0000	
* 142 Chrysene-d12	240	11.363	11.363	(1.000)	658344	40.0000	
* 151 Perylene-d12	264	12.885	12.885	(1.000)	539337	40.0000	
7 2-Picoline	93	3.601	3.601	(0.704)	872784	160.000	152.511
8 N-Nitrosomethylethylamine	88	3.695	3.695	(0.722)	413148	160.000	159.165
9 Methyl methanesulfonate	80	3.936	3.936	(0.769)	256917	160.000	150.991
11 N-Nitrosodiethylamine	102	4.248	4.248	(0.830)	364399	160.000	152.165
13 Ethyl methanesulfonate	79	4.483	4.483	(0.876)	571170	160.000	151.197
19 Pentachloroethane	117	4.871	4.871	(0.952)	247670	160.000	139.262
31 N-Nitrosopyrrolidine	100	5.511	5.511	(1.077)	332879	160.000	145.494
34 N-Nitrosomorpholine	116	5.523	5.523	(1.079)	136710	160.000	141.222
35 o-Toluidine	106	5.546	5.546	(1.084)	989548	160.000	140.125

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39 N-Nitrosopiperidine	114	5.817	5.817	(0.920)	340383	160.000	150.075
44 O,O,O-Triethyl phosphorothio	198	6.057	6.057	(0.958)	381141	160.000	153.020
48 a,a-Dimethylphenethylamine	58	6.204	6.204	(0.981)	2299738	160.000	169.876(M)
53 2,6-Dichlorophenol	162	6.416	6.416	(1.015)	546022	160.000	151.383
54 Hexachloropropene	213	6.451	6.451	(1.020)	522179	160.000	157.234
57 N-Nitrosodi-n-butylamine	84	6.716	6.716	(1.062)	473458	160.000	154.682
58 p-Phenylenediamine	108	6.751	6.751	(1.068)	620935	160.000	154.384
61 Safrole	162	6.909	6.909	(1.093)	499601	160.000	147.203
65 1,2,4,5-Tetrachlorobenzene	216	7.215	7.215	(1.141)	674139	160.000	153.598
66 Isosafrole (#1)	162	7.191	7.191	(0.898)	74365	28.0000	28.9759
72 Isosafrole (#2)	104	7.409	7.409	(0.925)	358934	132.000	126.906
73 1-Chloronaphthalene	162	7.520	7.520	(0.939)	1150017	160.000	149.064
75 1,4-Naphthoquinone	158	7.650	7.650	(0.955)	260580	160.000	150.758
78 1,4-Dinitrobenzene	168	7.703	7.703	(0.962)	203645	160.000	170.873
80 1,3-Dinitrobenzene	168	7.808	7.808	(0.975)	228591	160.000	163.568
89 Pentachlorobenzene	250	8.196	8.196	(1.023)	593170	160.000	159.198
90 1-Naphthylamine	143	8.255	8.255	(1.031)	1103868	160.000	148.068
91 2,3,4,6-Tetrachlorophenol	232	8.320	8.320	(1.039)	423667	160.000	166.325
92 2-Naphthylamine	143	8.320	8.320	(1.039)	1130154	160.000	151.398
98 Thionazin	97	8.449	8.449	(1.055)	342906	160.000	153.601
100 5-Nitro-o-toluidine	152	8.513	8.513	(1.063)	392892	160.000	156.761
182 Diphenylamine	169	8.555	8.555	(1.068)	1264609	160.000	156.022
104 Sulfotepp	97	8.725	8.725	(0.943)	258672	160.000	156.475
105 1,3,5-Trinitrobenzene	213	8.807	8.807	(0.952)	148568	160.000	158.549
106 Diallate (#1)	86	8.801	8.801	(0.952)	496741	115.200	105.501
107 Phorate	121	8.819	8.819	(0.954)	221018	160.000	148.474
109 Phenacetin	108	8.831	8.831	(0.955)	679640	160.000	159.425
111 Diallate (#2)	86	8.872	8.872	(0.959)	135859	44.8000	45.3882
112 Dimethoate	87	8.983	8.983	(0.971)	496720	160.000	144.214
114 4-Aminobiphenyl	169	9.083	9.083	(0.982)	1499113	160.000	154.162
115 Pentachloronitrobenzene	237	9.195	9.195	(0.994)	241180	160.000	163.740
116 Pronamide	173	9.119	9.119	(0.986)	655048	160.000	165.249
120 2-secbutyl-4,6-dinitropheno	211	9.254	9.254	(1.001)	386225	160.000	160.654
121 Disulfoton	88	9.224	9.224	(0.997)	690303	160.000	146.616
124 Methyl parathion	109	9.536	9.536	(1.031)	412422	160.000	149.338
126 Parathion	109	9.830	9.830	(1.063)	308835	160.000	159.543
127 4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.070)	139103	160.000	159.783(Q)
128 Methapyrilene	97	9.918	9.918	(1.072)	526186	160.000	150.699
129 Isodrin	193	10.100	10.100	(1.092)	235117	160.000	153.595
134 Aramite (#1)	185	10.411	10.411	(0.916)	119890	73.6000	67.8504
135 Aramite (#2)	185	10.470	10.470	(0.921)	175514	86.4000	78.2440
136 p-Dimethylaminoazobenzene	120	10.582	10.582	(0.931)	533962	160.000	144.781
138 3,3'-Dimethylbenzidine	212	10.852	10.852	(0.955)	1446860	160.000	152.721
139 2-Acetylaminofluorene	181	11.087	11.087	(0.976)	979133	160.000	159.564
149 7,12-Dimethylbenz(a)anthrac	256	12.415	12.415	(0.964)	1154249	160.000	166.658(A)
152 3-Methylcholanthrene	268	13.279	13.279	(1.031)	1226068	160.000	172.242
153 Dibenz(a,j)acridine	279	14.142	14.142	(1.098)	1728674	160.000	169.129

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
M 1 Total Isosafrole	162				433299	160.000	155.722
M 2 Total Diallate	86				632600	160.000	149.223
M 3 Total Aramite	185				295404	160.000	146.168
165 Chlorobenzilate	251	10.605	10.605	(0.933)	672332	160.000	158.194
199 1,4-Dioxane	88	2.767	2.767	(0.541)	362560	160.000	144.354
175 Biphenyl	154	7.462	7.462	(0.932)	1421088	160.000	147.903

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3380.d
Lab Smp Id: AP9_0160
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0160
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	148236	0.73
49 Naphthalene-d8	530122	265061	1060244	543897	2.60
83 Acenaphthene-d10	318542	159271	637084	328093	3.00
117 Phenanthrene-d10	562072	281036	1124144	574116	2.14
142 Chrysene-d12	593593	296796	1187186	658344	10.91
151 Perylene-d12	499739	249870	999478	539337	7.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.25	0.07
142 Chrysene-d12	11.36	10.86	11.86	11.36	0.05
151 Perylene-d12	12.87	12.37	13.37	12.88	0.09

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

Data File: /chem/K.i/052904.b/k3380.d

Date : 29-MAY-2004 14:12

Client ID: AP9_0160

Instrument: K.i

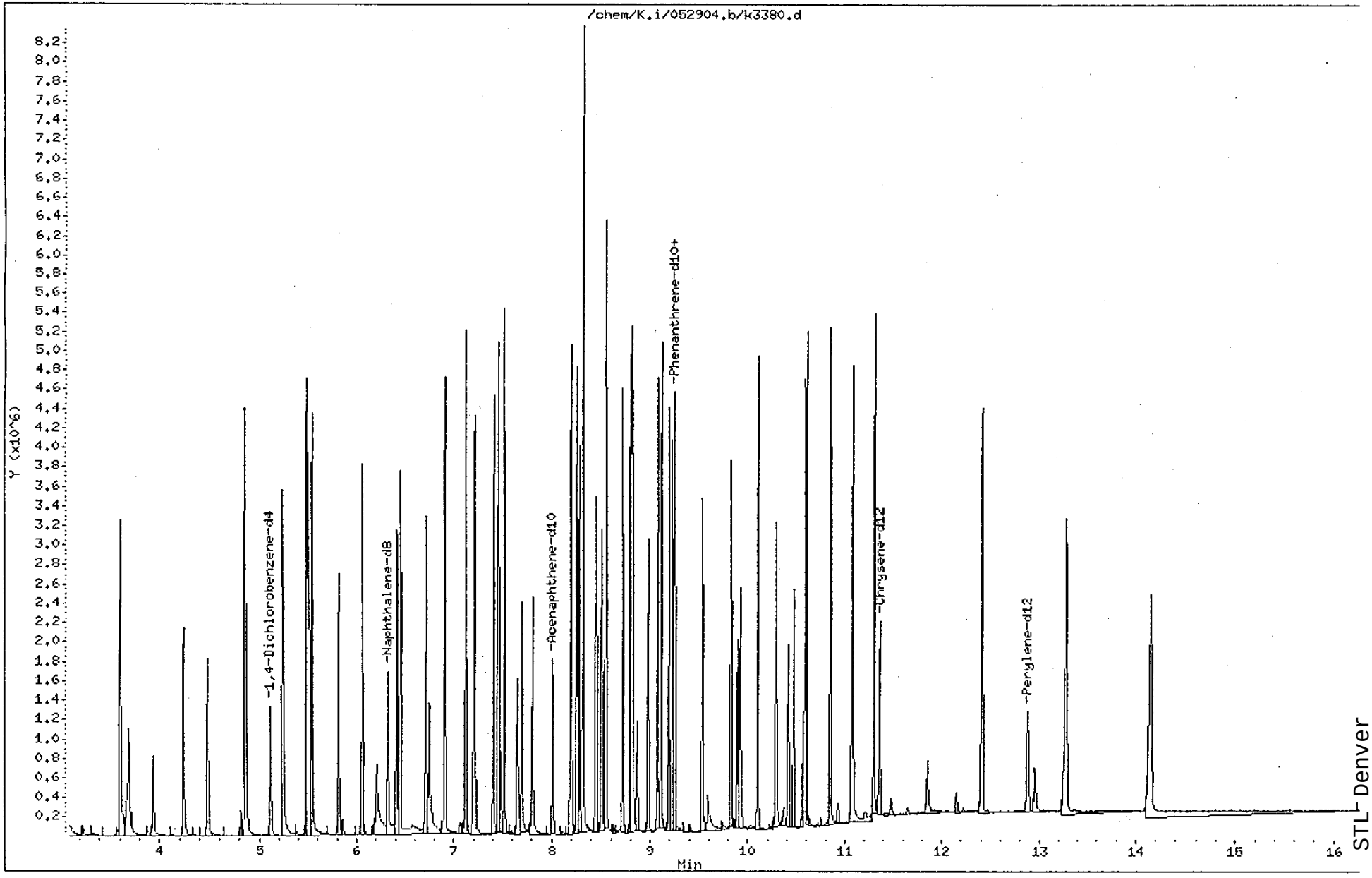
Sample Info: AP9_0160,BNA1406,P:050403,E:073104

Volume Injected (uL): 0.5

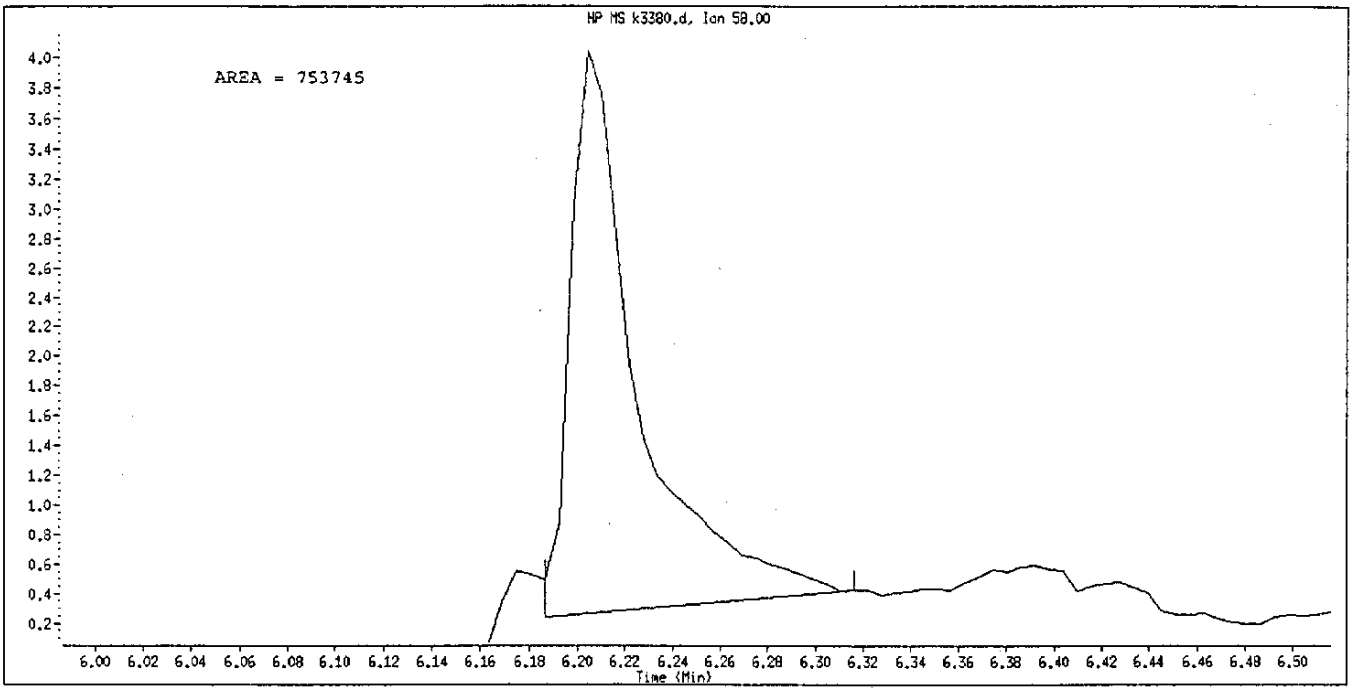
Operator: kiddd

Column phase: Rtx-5ms 30m 0.5um

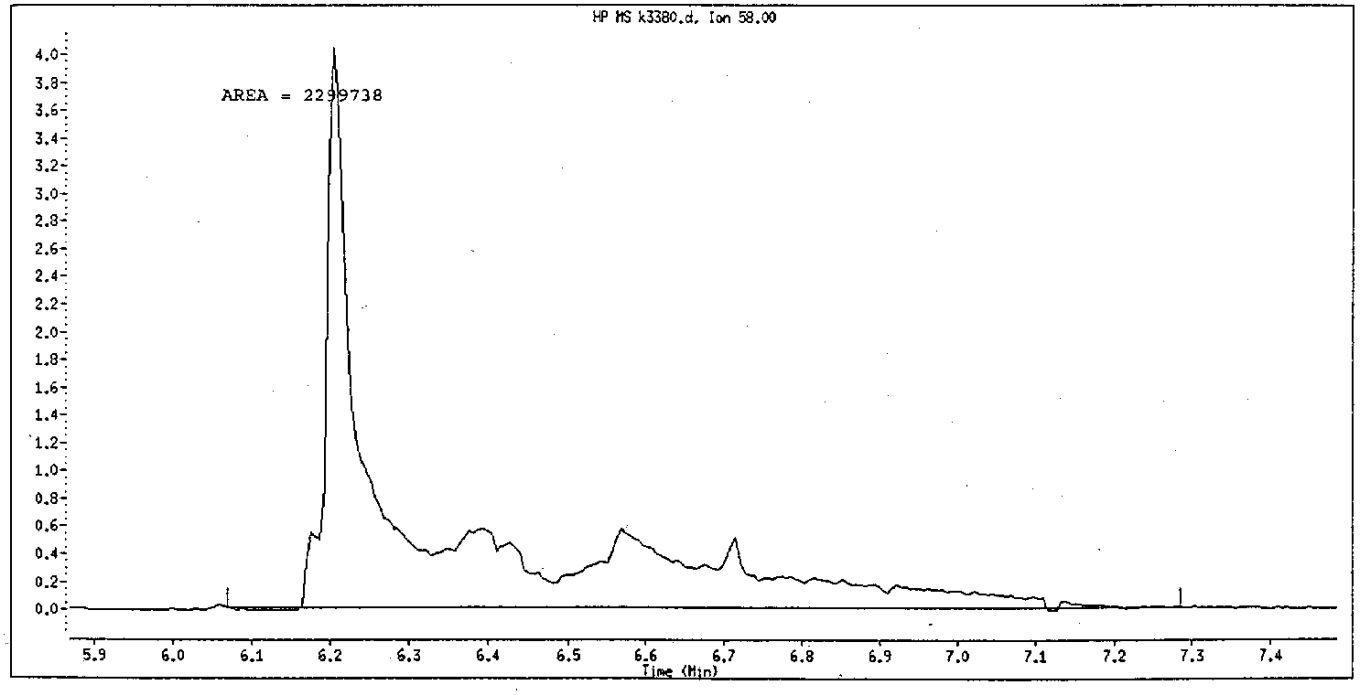
Column diameter: 0.25



Data File Name: k3380.d
Inj. Date and Time: 29-MAY-2004 14:12
Instrument ID: K.i
Client ID: AP9_0160
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Split Peak

MW 05-31-04

6.1.04 BJB

MCV 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3381.d
Lab Smp Id: AP9_0200 Client Smp ID: AP9_0200
Inj Date : 29-MAY-2004 14:36
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0200,BNA1406,P:050403,E:073104
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 16:58 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 14:36 Cal File: k3381.d
Als bottle: 21 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	148455	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	543346	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	335256	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	569154	40.0000	
* 142 Chrysene-d12	240	11.363	11.363	(1.000)	636411	40.0000	
* 151 Perylene-d12	264	12.885	12.885	(1.000)	550108	40.0000	
7 2-Picoline	93	3.601	3.601	(0.704)	1089217	200.000	190.050
8 N-Nitrosomethylethylamine	88	3.695	3.695	(0.722)	523205	200.000	201.267(A)
9 Methyl methanesulfonate	80	3.936	3.936	(0.769)	339214	200.000	199.063
11 N-Nitrosodiethylamine	102	4.247	4.247	(0.830)	440347	200.000	183.608
13 Ethyl methanesulfonate	79	4.488	4.488	(0.877)	729893	200.000	192.928
19 Pentachloroethane	117	4.870	4.870	(0.952)	310549	200.000	174.361
31 N-Nitrosopyrrolidine	100	5.511	5.511	(1.077)	423075	200.000	184.644
34 N-Nitrosomorpholine	116	5.522	5.522	(1.079)	168629	200.000	173.938
35 o-Toluidine	106	5.546	5.546	(1.084)	1235580	200.000	174.706

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
39 N-Nitrosopiperidine	114	5.816	5.816	(0.920)	430860	200.000	190.159
44 O,O,O-Triethyl phosphorothio	198	6.063	6.063	(0.959)	500111	200.000	200.988(A)
48 a,a-Dimethylphenethylamine	58	6.222	6.222	(0.984)	3021057	200.000	223.385(AM)
53 2,6-Dichlorophenol	162	6.416	6.416	(1.015)	693257	200.000	192.398
54 Hexachloropropene	213	6.451	6.451	(1.020)	676880	200.000	204.023(A)
57 N-Nitrosodi-n-butylamine	84	6.715	6.715	(1.062)	588515	200.000	192.467
58 p-Phenylenediamine	108	6.750	6.750	(1.068)	758462	200.000	188.769
61 Safrole	162	6.909	6.909	(1.093)	649380	200.000	191.528
65 1,2,4,5-Tetrachlorobenzene	216	7.215	7.215	(1.141)	896997	200.000	204.582(A)
66 Isosafrole (#1)	162	7.191	7.191	(0.898)	91656	35.0000	34.9502
72 Isosafrole (#2)	104	7.409	7.409	(0.925)	464271	165.000	160.642
73 1-Chloronaphthalene	162	7.520	7.520	(0.939)	1513039	200.000	191.928
75 1,4-Naphthoquinone	158	7.649	7.649	(0.955)	301904	200.000	170.934
78 1,4-Dinitrobenzene	168	7.702	7.702	(0.962)	257677	200.000	211.591(A)
80 1,3-Dinitrobenzene	168	7.808	7.808	(0.975)	285195	200.000	199.711
89 Pentachlorobenzene	250	8.196	8.196	(1.023)	822567	200.000	216.048(A)
90 1-Naphthylamine	143	8.255	8.255	(1.031)	1432763	200.000	188.078
91 2,3,4,6-Tetrachlorophenol	232	8.319	8.319	(1.039)	609224	200.000	234.061(A)
92 2-Naphthylamine	143	8.319	8.319	(1.039)	1569700	200.000	205.788(A)
98 Thionazin	97	8.454	8.454	(1.056)	447323	200.000	196.092
100 5-Nitro-o-toluidine	152	8.513	8.513	(1.063)	499055	200.000	194.865
182 Diphenylamine	169	8.554	8.554	(1.068)	1709159	200.000	206.363(A)
104 Sulfotepp	97	8.725	8.725	(0.943)	334191	200.000	203.920(A)
105 1,3,5-Trinitrobenzene	213	8.807	8.807	(0.952)	204791	200.000	217.471(A)
106 Diallate (#1)	86	8.801	8.801	(0.952)	632057	144.000	135.410
107 Phorate	121	8.819	8.819	(0.954)	288443	200.000	195.457
109 Phenacetin	108	8.830	8.830	(0.955)	863756	200.000	204.380(A)
111 Diallate (#2)	86	8.872	8.872	(0.959)	172054	56.0000	57.9815
112 Dimethoate	87	8.989	8.989	(0.972)	579155	200.000	169.614
114 4-Aminobiphenyl	169	9.083	9.083	(0.982)	1992076	200.000	206.642(A)
115 Pentachloronitrobenzene	237	9.195	9.195	(0.994)	320132	200.000	219.236(A)
116 Pronamide	173	9.118	9.118	(0.986)	856463	200.000	217.943(A)
120 2-secbutyl-4,6-dinitropheno	211	9.253	9.253	(1.001)	542677	200.000	225.136(A)
121 Disulfoton	88	9.224	9.224	(0.997)	853337	200.000	182.824
124 Methyl parathion	109	9.535	9.535	(1.031)	493027	200.000	180.081
126 Parathion	109	9.829	9.829	(1.063)	390358	200.000	203.416(A)
127 4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.070)	182839	200.000	205.260(AQ)
128 Methapyrilene	97	9.923	9.923	(1.073)	644707	200.000	186.253
129 Isodrin	193	10.105	10.105	(1.093)	305590	200.000	201.374(A)
134 Aramite (#1)	185	10.417	10.417	(0.917)	152812	92.0000	89.4628
135 Aramite (#2)	185	10.476	10.476	(0.922)	228242	108.000	105.257
136 p-Dimethylaminoazobenzene	120	10.587	10.587	(0.932)	677173	200.000	189.940
138 3,3'-Dimethylbenzidine	212	10.857	10.857	(0.956)	1871305	200.000	204.329(A)
139 2-Acetylaminofluorene	181	11.092	11.092	(0.976)	1269853	200.000	214.074(A)
149 7,12-Dimethylbenz(a)anthrac	256	12.420	12.420	(0.964)	1583470	200.000	224.155(A)
152 3-Methylcholanthrene	268	13.284	13.284	(1.031)	1682192	200.000	231.692(A)
153 Dibenz(a,j)acridine	279	14.154	14.154	(1.099)	2422777	200.000	232.398(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
M 1 Total Isosafrole	162				555927	200.000	195.524
M 2 Total Diallate	86				804111	200.000	191.334
M 3 Total Aramite	185				381054	200.000	195.047
165 Chlorobenzilate	251	10.605	10.605	(0.933)	897936	200.000	218.558(A)
199 1,4-Dioxane	88	2.767	2.767	(0.541)	451355	200.000	179.443
175 Biphenyl	154	7.461	7.461	(0.932)	1946260	200.000	198.234

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

STL-Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3381.d
Lab Smp Id: AP9_0200
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0200
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	148455	0.88
49 Naphthalene-d8	530122	265061	1060244	543346	2.49
83 Acenaphthene-d10	318542	159271	637084	335256	5.25
117 Phenanthrene-d10	562072	281036	1124144	569154	1.26
142 Chrysene-d12	593593	296796	1187186	636411	7.21
151 Perylene-d12	499739	249870	999478	550108	10.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.25	0.06
142 Chrysene-d12	11.36	10.86	11.86	11.36	0.05
151 Perylene-d12	12.87	12.37	13.37	12.88	0.09

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

Data File: /chem/K.i/052904.b/k3381.d

Date : 29-MAY-2004 14:36

Client ID: AP9_0200

Instrument: K.i

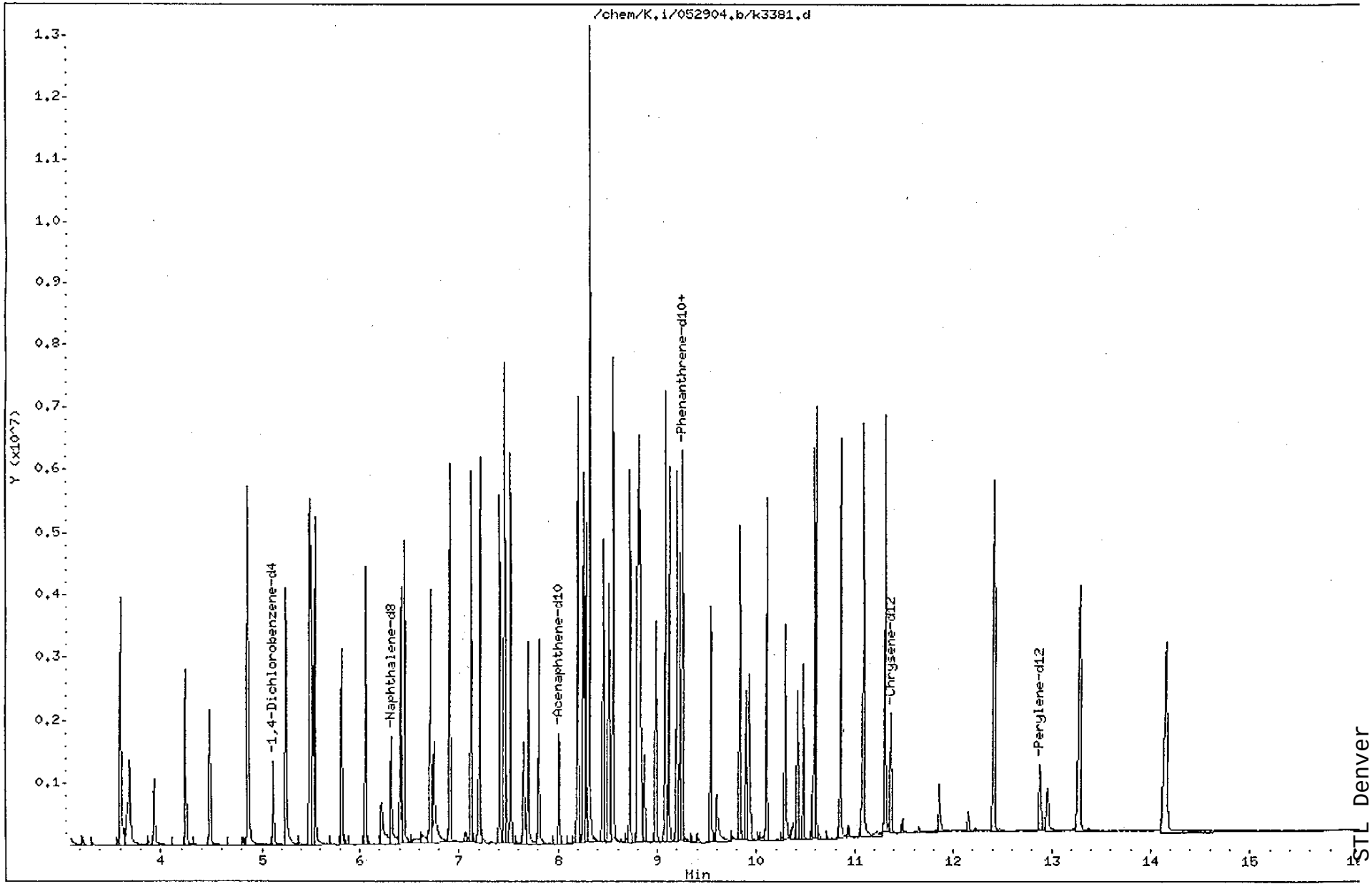
Sample Info: AP9_0200,BNA1406,P:050403,E:073104

Volume Injected (uL): 0.5

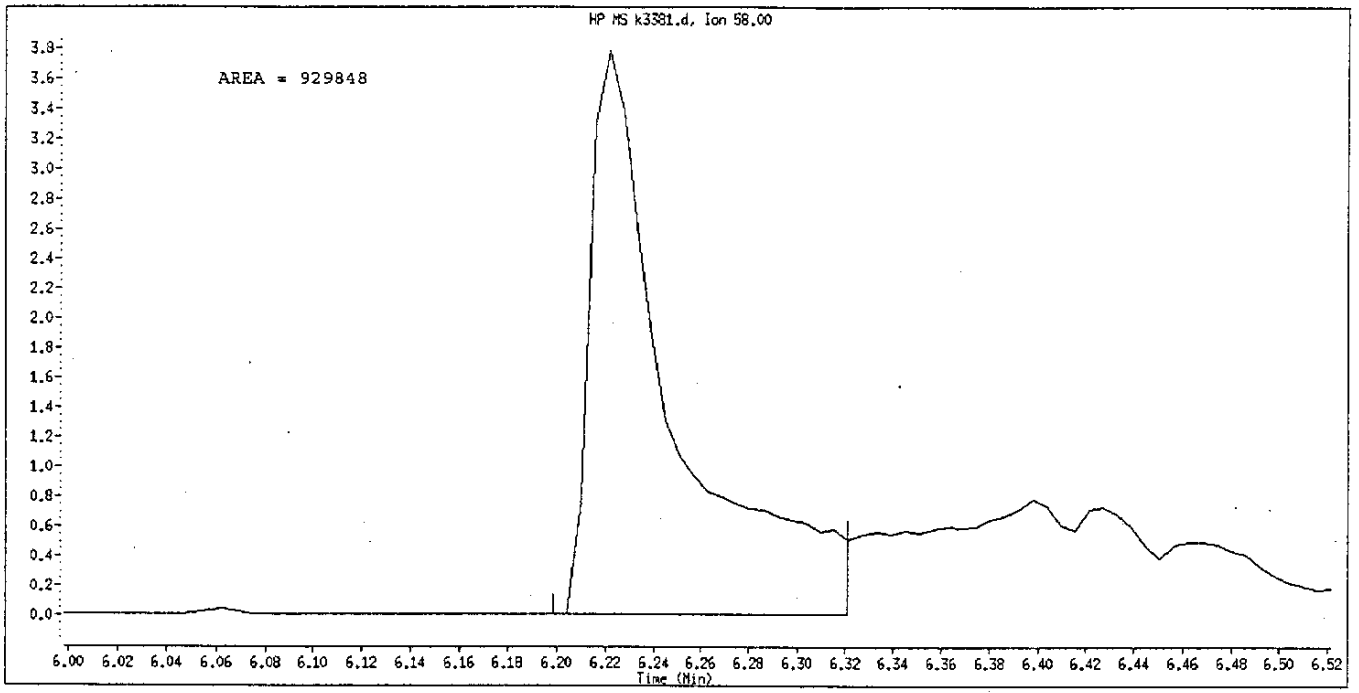
Operator: kiddd

Column phase: Rtx-5ms 30m 0.5um

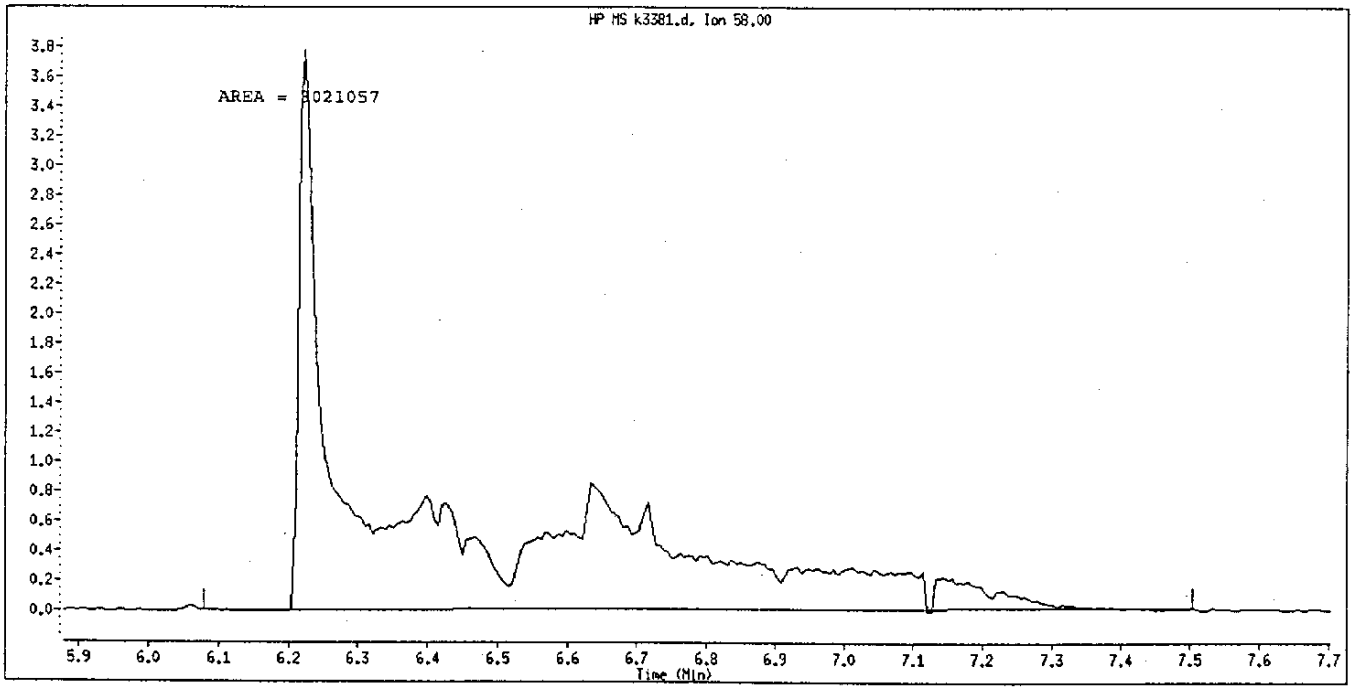
Column diameter: 0.25



Data File Name: k3381.d
Inj. Date and Time: 29-MAY-2004 14:36
Instrument ID: K.i
Client ID: AP9_0200
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Split Peak

mmw 05-31-04

6.1.04 BJS

DLW 05-31-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/K.i/052904.b/k3382.d
Lab Smp Id: AP9_0100 SSV Client Smp ID: AP9_0100 SSV
Inj Date : 29-MAY-2004 15:00
Operator : kiddd Inst ID: K.i
Smp Info : AP9_0100 SSV,BNA1417,P:050404,E:071304
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : /chem/K.i/052904.b/8270C.m
Meth Date : 31-May-2004 17:01 kiddd Quant Type: ISTD
Cal Date : 29-MAY-2004 14:36 Cal File: k3381.d
Als bottle: 22 QC Sample: SSV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 3.50
Processing Host: chemsv03

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 22 1,4-Dichlorobenzene-d4	152	5.117	5.117	(1.000)	125998	40.0000	
* 49 Naphthalene-d8	136	6.322	6.322	(1.000)	480811	40.0000	
* 83 Acenaphthene-d10	164	8.008	8.008	(1.000)	302539	40.0000	
* 117 Phenanthrene-d10	188	9.248	9.248	(1.000)	516385	40.0000	
* 142 Chrysene-d12	240	11.375	11.363	(1.000)	595061	40.0000	
* 151 Perylene-d12	264	12.891	12.885	(1.000)	496390	40.0000	
7 2-Picoline	93	3.601	3.601	(0.704)	451279	92.7748	92.7748
8 N-Nitrosomethylethylamine	88	3.695	3.695	(0.722)	227721	103.213	103.213
9 Methyl methanesulfonate	80	3.936	3.936	(0.769)	250452	173.170	173.170(R)
11 N-Nitrosodiethylamine	102	4.248	4.247	(0.830)	214452	105.356	105.356
13 Ethyl methanesulfonate	79	4.483	4.488	(0.876)	332019	103.403	103.402
19 Pentachloroethane	117	4.870	4.870	(0.952)	137764	91.1351	91.1351
31 N-Nitrosopyrrolidine	100	5.511	5.511	(1.077)	190651	98.0364	98.0364(Q)
34 N-Nitrosomorpholine	116	5.517	5.522	(1.078)	77365	94.0237	94.0237
35 o-Toluidine	106	5.540	5.546	(1.083)	593454	98.8680	98.8680

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
39	N-Nitrosopiperidine	114	5.816	5.816	(0.920)	197099	98.3029	98.3029
44	O,O,O-Triethyl phosphorothio	198	6.063	6.063	(0.959)	202419	91.9301	91.9301(Q)
48	a,a-Dimethylphenethylamine	58	6.563	6.222	(1.038)	1085501	90.7041	90.7041(M)
53	2,6-Dichlorophenol	162	6.410	6.416	(1.014)	299285	93.8627	93.8627
54	Hexachloropropene	213	6.451	6.451	(1.020)	341025	116.160	116.160
57	N-Nitrosodi-n-butylamine	84	6.710	6.715	(1.061)	263433	97.3578	97.3578
58	p-Phenylenediamine	108	6.751	6.750	(1.068)	153043	43.0441	43.0441(R)
61	Safrole	162	6.909	6.909	(1.093)	285626	95.1991	95.1991
65	1,2,4,5-Tetrachlorobenzene	216	7.209	7.215	(1.140)	360750	92.9792	92.9792
66	Isosafrole (#1)	162	7.191	7.191	(0.898)	54408	22.9904	22.9904
72	Isosafrole (#2)	104	7.403	7.409	(0.924)	203163	77.8981	77.8981
73	1-Chloronaphthalene	162	7.520	7.520	(0.939)	570189	80.1499	80.1499
75	1,4-Naphthoquinone	158	7.650	7.649	(0.955)	223631	140.310	140.310
78	1,4-Dinitrobenzene	168	7.702	7.702	(0.962)	118906	108.198	108.198
80	1,3-Dinitrobenzene	168	7.808	7.808	(0.975)	134614	104.459	104.459
89	Pentachlorobenzene	250	8.196	8.196	(1.023)	297217	86.5062	86.5062
90	1-Naphthylamine	143	8.255	8.255	(1.031)	586834	85.3640	85.3640
91	2,3,4,6-Tetrachlorophenol	232	8.314	8.319	(1.038)	213724	90.9916	90.9916
92	2-Naphthylamine	143	8.314	8.319	(1.038)	630619	91.6146	91.6146
98	Thionazin	97	8.449	8.454	(1.055)	174849	84.9370	84.9370
100	5-Nitro-o-toluidine	152	8.507	8.513	(1.062)	228688	98.9518	98.9518
182	Diphenylamine	169	8.554	8.554	(1.068)	649406	86.8882	86.8882
104	Sulfotepp	97	8.719	8.725	(0.943)	143238	96.3339	96.3339
105	1,3,5-Trinitrobenzene	213	8.813	8.807	(0.953)	82083	100.338	100.338
106	Diallate (#1)	86	8.801	8.801	(0.952)	310811	73.3920	73.3920
107	Phorate	121	8.813	8.819	(0.953)	126718	94.6425	94.6425
109	Phenacetin	108	8.825	8.830	(0.954)	380060	99.1189	99.1189
111	Diallate (#2)	86	8.872	8.872	(0.959)	67071	24.9124	24.9124
112	Dimethoate	87	8.983	8.989	(0.971)	320535	103.466	103.466
114	4-Aminobiphenyl	169	9.077	9.083	(0.982)	819577	93.7042	93.7042
115	Pentachloronitrobenzene	237	9.195	9.195	(0.994)	129530	97.7710	97.7710
116	Pronamide	173	9.113	9.118	(0.985)	345050	96.7773	96.7773
120	2-secbutyl-4,6-dinitropheno	211	9.248	9.253	(1.000)	223818	105.693	105.693
121	Disulfoton	88	9.224	9.224	(0.997)	384853	90.8789	90.8789
124	Methyl parathion	109	9.536	9.535	(1.031)	264291	106.399	106.399
126	Parathion	109	9.829	9.829	(1.063)	170070	97.6798	97.6798
127	4-Nitroquinoline-1-oxide	190	9.894	9.894	(1.070)	83838	113.742	113.742(Q)
128	Methapyrilene	97	9.923	9.923	(1.073)	381186	121.376	121.376
129	Isodrin	193	10.100	10.105	(1.092)	139495	101.316	101.316
134	Aramite (#1)	185	10.417	10.417	(0.916)	70865	44.3703	44.3703(R)
135	Aramite (#2)	185	10.476	10.476	(0.921)	89474	44.1293	44.1293
136	p-Dimethylaminoazobenzene	120	10.587	10.587	(0.931)	348699	104.603	104.603
138	3,3'-Dimethylbenzidine	212	10.858	10.857	(0.955)	806484	94.1799	94.1799
139	2-Acetylaminofluorene	181	11.087	11.092	(0.975)	561703	101.273	101.273
149	7,12-Dimethylbenz(a)anthrac	256	12.426	12.420	(0.964)	603360	94.6543	94.6543
152	3-Methylcholanthrene	268	13.284	13.284	(1.031)	717522	109.521	109.521
153	Dibenz(a,j)acridine	279	14.148	14.154	(1.098)	1001762	106.490	106.490

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
M	1 Total Isosafrole	162				257571	100.386	100.386
M	2 Total Diallate	86				377882	99.1033	99.1033
M	3 Total Aramite	185				160339	87.7744	87.7744
	165 Chlorobenzilate	251	10.605	10.605	(0.932)	350256	91.1767	91.1767
	199 1,4-Dioxane	88	2.761	2.767	(0.540)	208284	97.5655	97.5655
	175 Biphenyl	154	7.456	7.461	(0.931)	836137	94.3735	94.3735

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: K.i
Lab File ID: k3382.d
Lab Smp Id: AP9_0100 SSV
Analysis Type: SV
Quant Type: ISTD
Operator: kiddd
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Calibration Date: 29-MAY-2004
Calibration Time: 13:24
Client Smp ID: AP9_0100 SSV
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	147164	73582	294328	125998	-14.38
49 Naphthalene-d8	530122	265061	1060244	480811	-9.30
83 Acenaphthene-d10	318542	159271	637084	302539	-5.02
117 Phenanthrene-d10	562072	281036	1124144	516385	-8.13
142 Chrysene-d12	593593	296796	1187186	595061	0.25
151 Perylene-d12	499739	249870	999478	496390	-0.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
22 1,4-Dichlorobenze	5.12	4.62	5.62	5.12	0.00
49 Naphthalene-d8	6.32	5.82	6.82	6.32	0.00
83 Acenaphthene-d10	8.01	7.51	8.51	8.01	0.00
117 Phenanthrene-d10	9.24	8.74	9.74	9.25	0.06
142 Chrysene-d12	11.36	10.86	11.86	11.37	0.16
151 Perylene-d12	12.87	12.37	13.37	12.89	0.14

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

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RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: AP9_0100 SSV
Level: LOW
Data Type: MS DATA
SpikeList File: AP9SSV.spk
Sublist File: 2-AP9std.sub
Method File: /chem/K.i/052904.b/8270C.m
Misc Info:

Client SDG: 052904
Fraction: SV
Client Smp ID: AP9_0100 SSV
Operator: kiddd
SampleType: SSV
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
7	2-Picoline	100.000	92.7748	92.77	45-155	
8	N-Nitrosomethyleth	100.000	103.213	103.21	45-155	
9	Methyl methanesulf	100.000	173.170	173.17*	45-155	narrate
11	N-Nitrosodiethylam	100.000	105.356	105.36	45-155	
13	Ethyl methanesulfo	100.000	103.402	103.40	45-155	
19	Pentachloroethane	100.000	91.1351	91.14	45-155	
31	N-Nitrosopyrrolidi	100.000	98.0364	98.04	45-155	
34	N-Nitrosomorpholin	100.000	94.0237	94.02	45-155	
35	o-Toluidine	100.000	98.8680	98.87	45-155	
39	N-Nitrosopiperidin	100.000	98.3029	98.30	45-155	
44	O,O,O-Triethyl pho	100.000	91.9301	91.93	45-155	
48	a,a-Dimethylphenet	100.000	90.7041	90.70	45-155	
53	2,6-Dichlorophenol	100.000	93.8627	93.86	45-155	
54	Hexachloropropene	100.000	116.160	116.16	45-155	
57	N-Nitrosodi-n-buty	100.000	97.3578	97.36	45-155	
58	p-Phenylenediamine	100.000	43.0441	43.04*	45-155	narrate
61	Safrole	100.000	95.1991	95.20	45-155	
65	1,2,4,5-Tetrachlor	100.000	92.9792	92.98	45-155	
66	Isosafrole (#1)	17.5000	22.9904	131.37	45-155	
72	Isosafrole (#2)	82.5000	77.8981	94.42	45-155	
73	1-Chloronaphthalen	100.000	80.1499	80.15	45-155	
75	1,4-Naphthoquinone	100.000	140.310	140.31	45-155	
78	1,4-Dinitrobenzene	100.000	108.198	108.20	45-155	
80	1,3-Dinitrobenzene	100.000	104.459	104.46	45-155	
89	Pentachlorobenzene	100.000	86.5062	86.51	45-155	
90	1-Naphthylamine	100.000	85.3640	85.36	45-155	
91	2,3,4,6-Tetrachlor	100.000	90.9916	90.99	45-155	
92	2-Naphthylamine	100.000	91.6146	91.61	45-155	
98	Thionazin	100.000	84.9370	84.94	45-155	
100	5-Nitro-o-toluidin	100.000	98.9518	98.95	45-155	
182	Diphenylamine	100.000	86.8882	86.89	45-155	
104	Sulfotepp	100.000	96.3339	96.33	45-155	
105	1,3,5-Trinitrobenz	100.000	100.338	100.34	45-155	

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
	106 Diallate (#1)	72.0000	73.3920	101.93	45-155	
	107 Phorate	100.000	94.6425	94.64	45-155	
	109 Phenacetin	100.000	99.1189	99.12	45-155	
	111 Diallate (#2)	28.0000	24.9124	88.97	45-155	
	112 Dimethoate	100.000	103.466	103.47	45-155	
	114 4-Aminobiphenyl	100.000	93.7042	93.70	45-155	
	115 Pentachloronitrobe	100.000	97.7710	97.77	45-155	
	116 Pronamide	100.000	96.7773	96.78	45-155	
	120 2-secbutyl-4,6-din	100.000	105.693	105.69	45-155	
	121 Disulfoton	100.000	90.8789	90.88	45-155	
	124 Methyl parathion	100.000	106.399	106.40	45-155	
	126 Parathion	100.000	97.6798	97.68	45-155	
	127 4-Nitroquinoline-1	100.000	113.742	113.74	45-155	
	128 Methapyrilene	100.000	121.376	121.38	45-155	
	129 Isodrin	100.000	101.316	101.32	45-155	
	134 Aramite (#1)	17.5000	44.3703	253.54*	45-155	see total
	135 Aramite (#2)	82.5000	44.1293	53.49	45-155	
	136 p-Dimethylaminoazo	100.000	104.603	104.60	45-155	
	138 3,3'-Dimethylbenzi	100.000	94.1799	94.18	45-155	
	139 2-Acetylaminofluor	100.000	101.273	101.27	45-155	
	152 3-Methylcholanthre	100.000	109.521	109.52	45-155	
	149 7,12-Dimethylbenz(	100.000	94.6543	94.65	45-155	
	153 Dibenz(a,j)acridin	100.000	106.490	106.49	45-155	
M	1 Total Isosafrole	100.000	100.386	100.39	45-155	
M	2 Total Diallate	100.000	99.1033	99.10	45-155	
M	3 Total Aramite	100.000	87.7744	87.77	45-155	✓
	165 Chlorobenzilate	100.000	91.1767	91.18	45-155	
	199 1,4-Dioxane	100.000	97.5655	97.57	45-155	
	175 Biphenyl	100.000	94.3735	94.37	45-155	

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: AP9 0100 SSV
Operator : kiddd
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: 052904
Client Smp ID: AP9 0100 SSV
Sample Date: 30-MAR-1998
Sample Point:
Date Received: 31-MAR-1998 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: /chem/K.i/052904.b/k3382.d

Date : 29-MAY-2004 15:00

Client ID: AP9_0100 SSV

Instrument: K.i

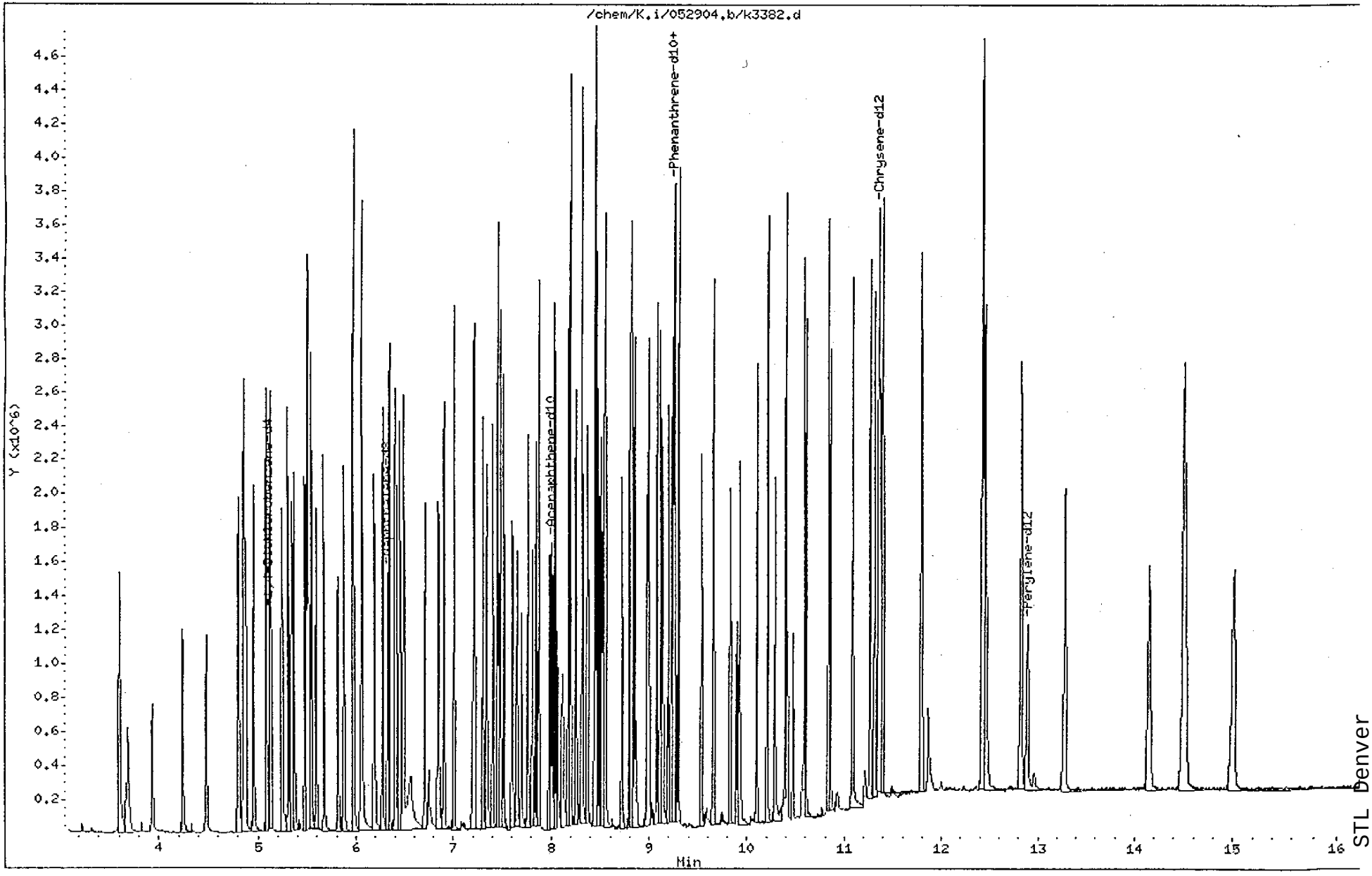
Sample Info: AP9_0100 SSV,BNA1417,P:050404,E:071304

Volume Injected (uL): 0.5

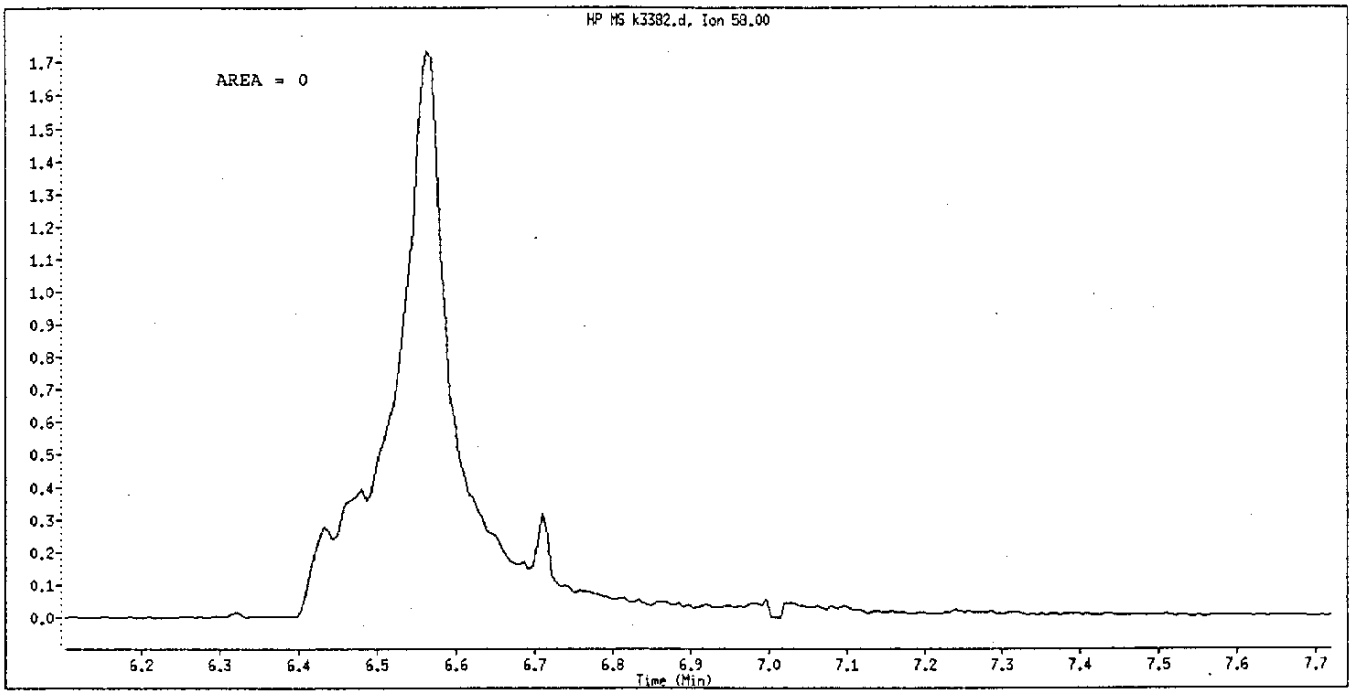
Operator: kiddd

Column phase: Rtx-5ms 30m 0.5um

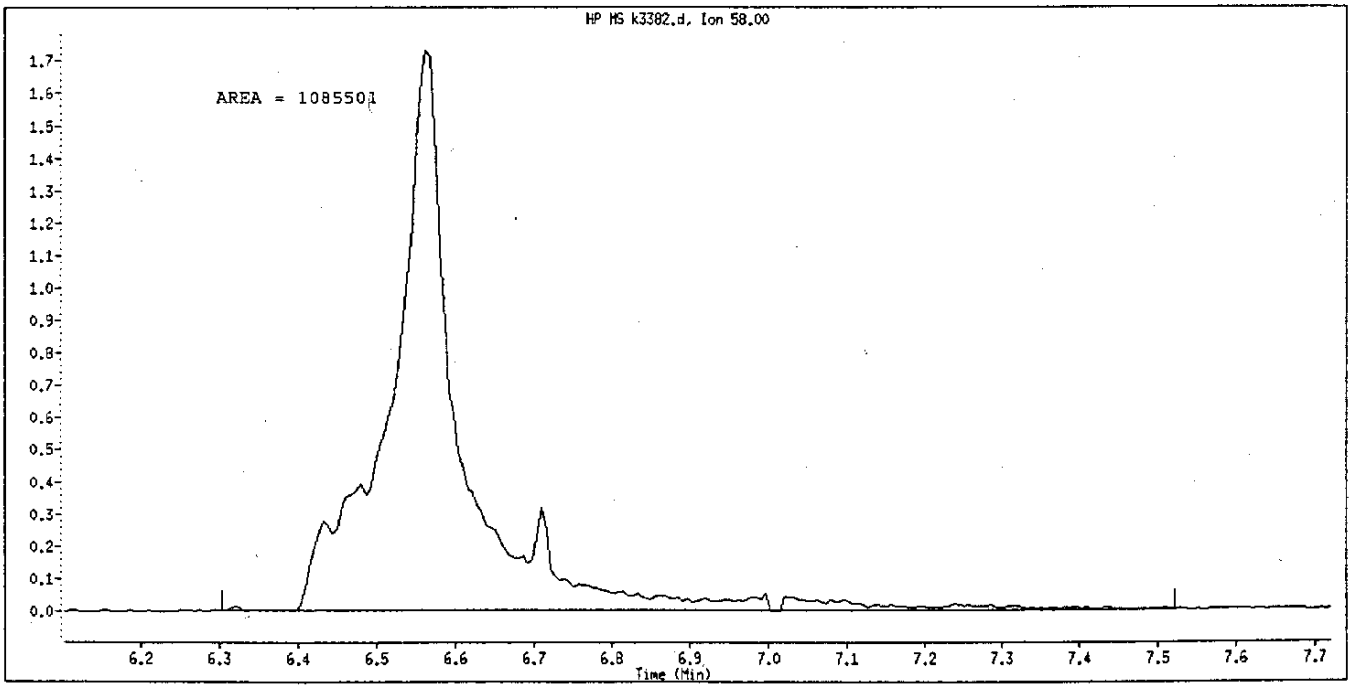
Column diameter: 0.25



Data File Name: k3382.d
Inj. Date and Time: 29-MAY-2004 15:00
Instrument ID: K.i
Client ID: AP9_0100 SSV
Compound Name: a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 05/31/2004



Original Integration



Manual Integration

Manually Integrated By: kiddd
Manual Integration Reason: Analyte not Identified by the Data System

MW 05-31-04

6.1.04 BJ

STL Denver

GC/MS Continuing Calibration Review Checklist

Instrument ID and Date: K-06/02/04 ; 060204.b

Check Method Used: Analysis ☐ 625 ☑ 8270 ☑ Other SV HSL/APP

☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA

VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			✓	
4. Does %D meet criteria for non-CCC compounds?	✓			✓	
5. Isomeric pairs checked for correct peak assignment?	✓			✓	
6. Standards traceability properly documented?	✓			✓	
7. Manual integrations documented and checked?	✓			✓	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			✓	

>50% D:
Benzidine 59.5% t

1st Level Reviewer: JMP Date: 6/2/04

2nd Level Reviewer: MRK Date: 06-03-04

Data File: /chem/K.i/060204.b/k3465.d

Date : 02-JUN-2004 17:03

Client ID: DFTPP

Instrument: K.i

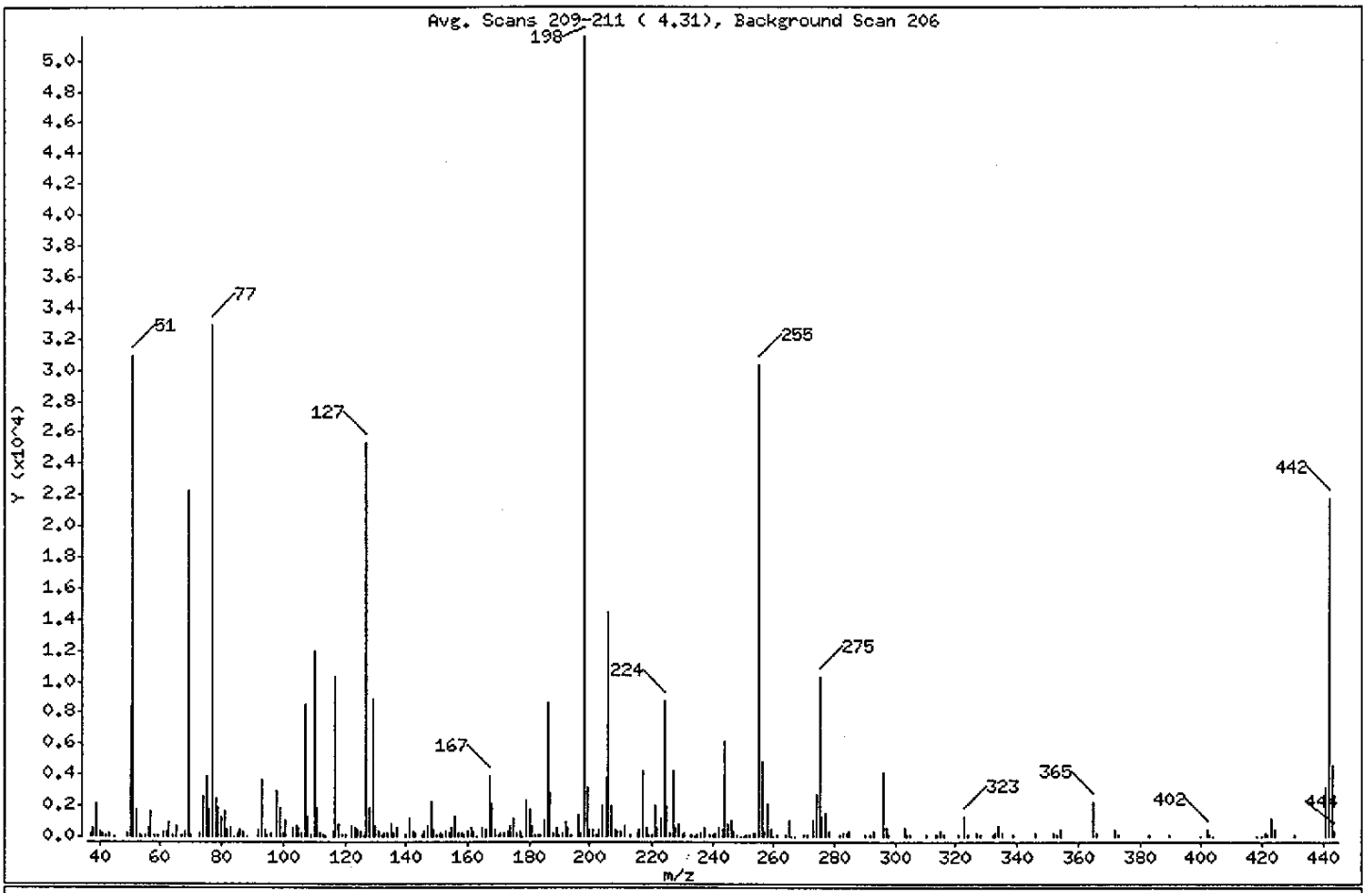
Sample Info: 25NG DFTPP,BNA1512,P041904 E041905

Operator: petersonj

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	59.90
68	Less than 2.00% of mass 69	0.72 (1.67)
69	Mass 69 relative abundance	43.15
70	Less than 2.00% of mass 69	0.21 (0.48)
127	40.00 - 60.00% of mass 198	49.16
197	Less than 1.00% of mass 198	0.50
199	5.00 - 9.00% of mass 198	6.25
275	10.00 - 30.00% of mass 198	20.02
365	Greater than 1.00% of mass 198	4.32
441	Present, but less than mass 443	6.13
442	40.00 - 100.00% of mass 198	42.34
443	17.00 - 23.00% of mass 442	8.95 (21.13)

Date : 02-JUN-2004 17:03

Client ID: DFTPP Instrument: K.i

Sample Info: 25NG DFTPP,BNA1512,P041904 E041905

Operator: petersonj

Column phase: Rtx-5ms, 30m,0.5um Column diameter: 0.25

Data File: k3465.d
Spectrum: Avg. Scans 209-211 (4.31), Background Scan 206
Location of Maximum: 198.00
Number of points: 266

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	186	118.00	840	190.00	70	264.00	97
38.00	579	119.00	136	191.00	249	265.00	1103
39.00	2139	120.00	138	192.00	982	266.00	33
40.00	320	122.00	667	193.00	583	267.00	52
41.00	237	123.00	561	194.00	173	270.00	87
42.00	117	124.00	421	196.00	1419	271.00	120
43.00	251	125.00	334	197.00	255	273.00	1066
45.00	59	126.00	90	198.00	51504	274.00	2702
49.00	207	127.00	25320	199.00	3221	275.00	10314
50.00	8401	128.00	1855	200.00	531	276.00	1355
51.00	30848	129.00	8839	201.00	428	277.00	1557
52.00	1729	130.00	706	202.00	86	278.00	384
53.00	75	131.00	399	203.00	514	282.00	104
54.00	55	132.00	144	204.00	2053	283.00	179
55.00	136	133.00	225	205.00	3790	284.00	232
56.00	593	134.00	223	206.00	14493	285.00	318
57.00	1709	135.00	866	207.00	1984	290.00	70
58.00	64	136.00	236	208.00	513	292.00	66
59.00	84	137.00	551	209.00	318	293.00	387
61.00	300	140.00	66	210.00	333	296.00	4131
62.00	341	141.00	1190	211.00	662	297.00	648
63.00	929	142.00	414	213.00	78	298.00	102
64.00	124	143.00	272	215.00	267	303.00	609
65.00	721	145.00	60	216.00	424	304.00	84
67.00	77	146.00	333	217.00	4261	305.00	66
68.00	371	147.00	691	218.00	639	310.00	62
69.00	22224	148.00	2305	219.00	154	313.00	67
70.00	107	149.00	519	220.00	141	314.00	99
73.00	216	150.00	141	221.00	2019	315.00	377
74.00	2631	151.00	200	222.00	543	316.00	152
75.00	3868	152.00	73	223.00	1180	321.00	115
76.00	1738	153.00	322	224.00	8799	323.00	1295
77.00	32880	154.00	295	225.00	2065	324.00	117
78.00	2456	155.00	603	226.00	285	327.00	284
79.00	1867	156.00	1329	227.00	4221	328.00	146

Data File: /chem/K.i/060204.b/k3465.d

Date : 02-JUN-2004 17:03

Client ID: DFTPP

Instrument: K.i

Sample Info: 25NG DFTPP,BNA1512,P041904 E041905

Operator: petersonj

Column phase: Rtx-5ms, 30m,0.5um

Column diameter: 0.25

Data File: k3465.d
Spectrum: Avg. Scans 209-211 (4.31), Background Scan 206
Location of Maximum: 198.00
Number of points: 266

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1334	157.00	212	228.00	634	332.00	171
81.00	1648	158.00	246	229.00	817	333.00	188
82.00	470	159.00	164	230.00	110	334.00	741
83.00	594	160.00	356	231.00	190	335.00	240
84.00	55	161.00	558	233.00	61	339.00	65
85.00	252	162.00	315	234.00	57	346.00	188
86.00	531	163.00	50	235.00	173	352.00	276
87.00	328	165.00	630	236.00	253	353.00	136
88.00	53	166.00	438	237.00	557	354.00	443
92.00	518	167.00	3909	239.00	103	365.00	2227
93.00	3725	168.00	2122	240.00	173	366.00	227
94.00	416	169.00	478	241.00	229	372.00	458
95.00	74	170.00	115	242.00	618	373.00	123
96.00	293	171.00	218	243.00	478	383.00	60
98.00	2931	172.00	262	244.00	6111	390.00	94
99.00	1953	173.00	370	245.00	837	400.00	51
100.00	251	174.00	655	246.00	1097	402.00	435
101.00	1102	175.00	1234	247.00	307	403.00	75
103.00	538	176.00	233	248.00	78	404.00	50
104.00	731	177.00	413	249.00	13	418.00	50
105.00	611	178.00	55	250.00	54	420.00	52
106.00	253	179.00	2326	251.00	128	421.00	215
107.00	8558	180.00	1755	252.00	143	422.00	84
108.00	1325	181.00	761	253.00	291	423.00	1140
109.00	74	182.00	94	254.00	226	424.00	442
110.00	12016	183.00	105	255.00	30352	431.00	71
111.00	1837	184.00	102	256.00	4905	441.00	3157
112.00	204	185.00	1057	257.00	334	442.00	21808
113.00	75	186.00	8653	258.00	2074	443.00	4609
114.00	53	187.00	2837	259.00	501	444.00	375
116.00	399	188.00	260	260.00	53		
117.00	10280	189.00	562	261.00	100		

Data File: /chem/K.i/060204.b/k3465.d

Date : 02-JUN-2004 17:03

Client ID: DFTPP

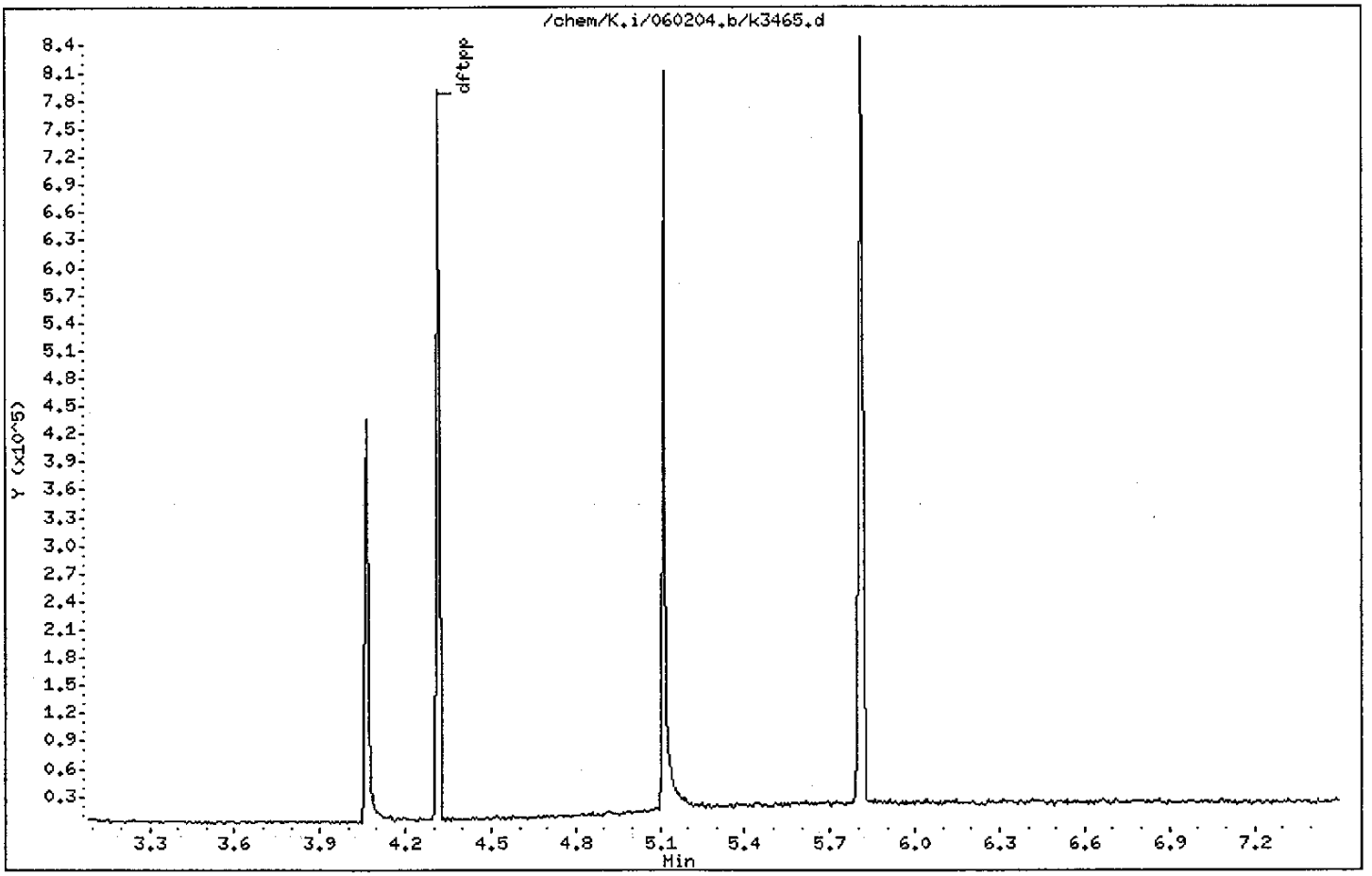
Instrument: K.i

Sample Info: 25NG DFTPP,BNA1512,P041904 E041905

Operator: petersonj

Column phase: Rtx-5ms, 30m,0.5um

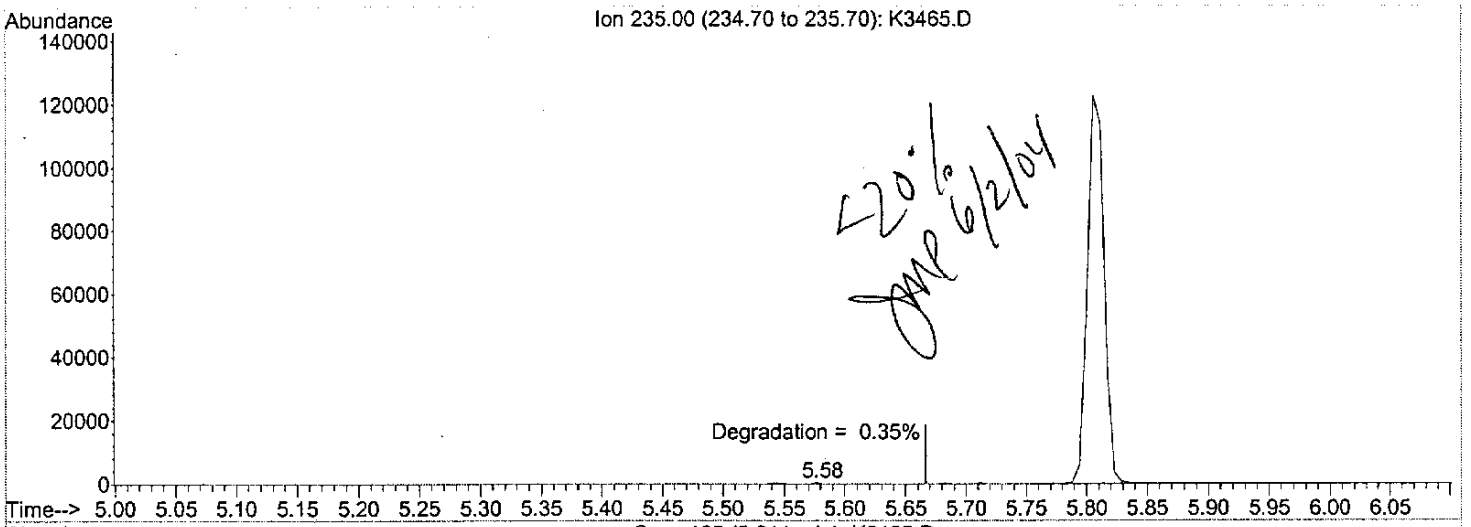
Column diameter: 0.25

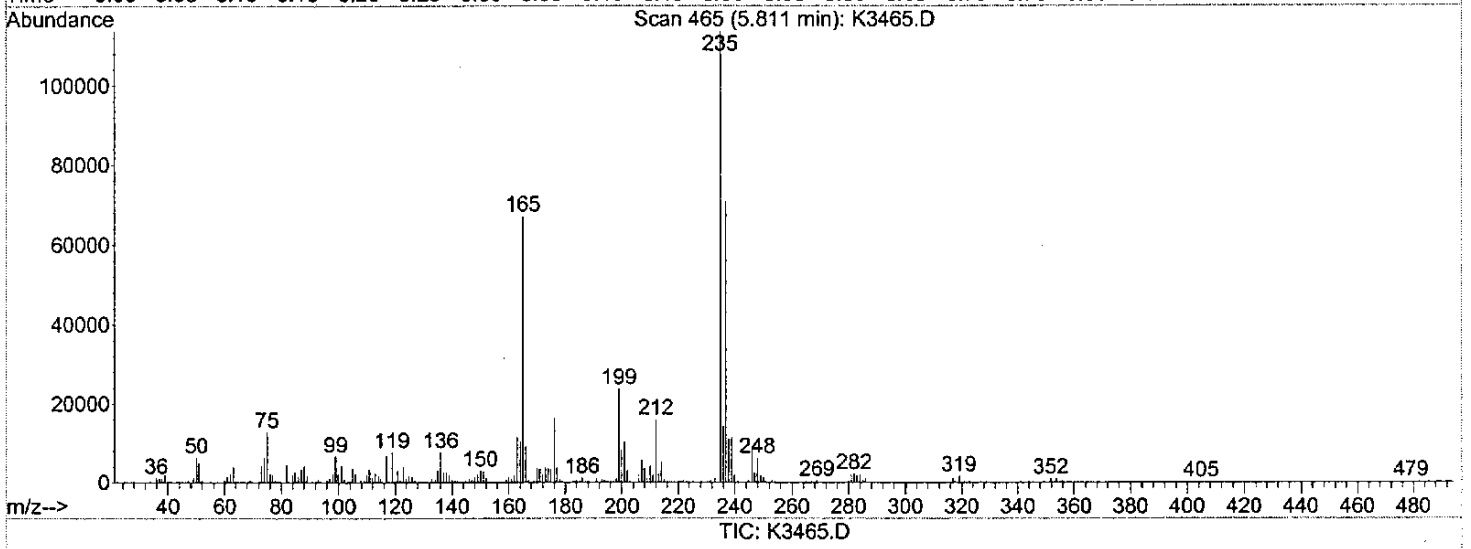


Quantitation Report (Qedit)

Data File : D:\DATA\060204.B\K3465.D Vial: 2
Acq On : 2 Jun 2004 5:03 pm Operator: petersonj
Sample : 25NG DFTPP,BNA1512,P041904 E041905 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jun 2 17:14 2004 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3465.D

(4) DDT

5.81min 0.00

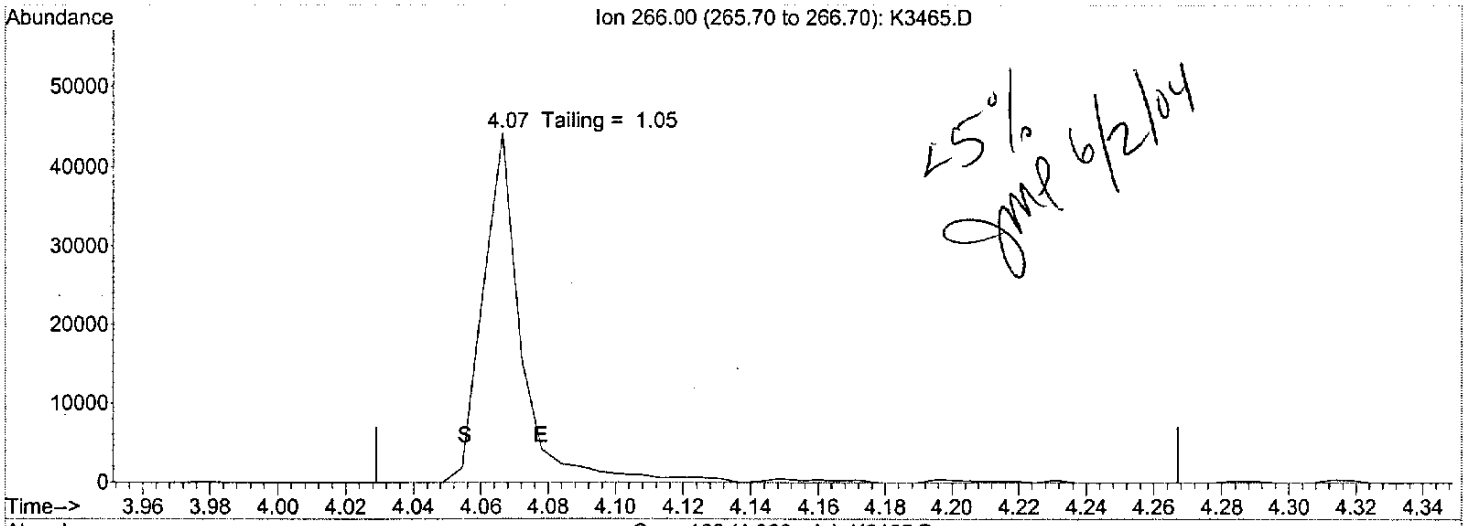
response 1177542

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

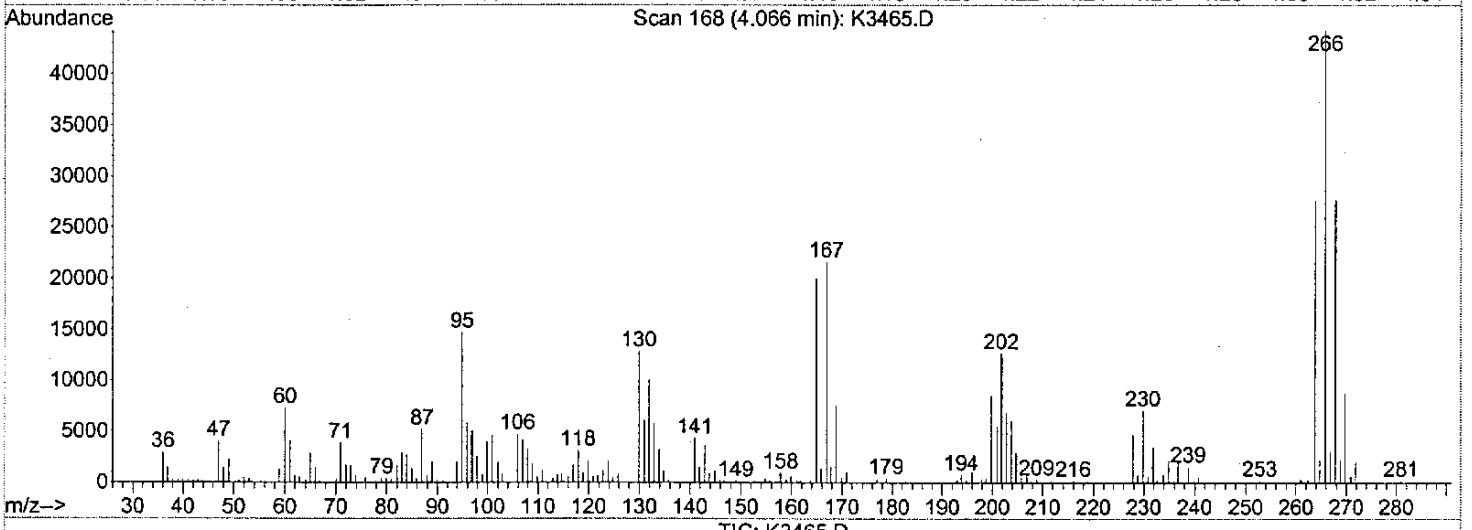
Quantitation Report (Qedit)

Data File : D:\DATA\060204.B\K3465.D Vial: 2
Acq On : 2 Jun 2004 5:03 pm Operator: petersonj
Sample : 25NG DFTPP,BNA1512,P041904 E041905 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jun 2 17:14 2004 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration



<25% jmp 6/2/04



TIC: K3465.D

(1) Pentachlorophenol

4.07min 0.00

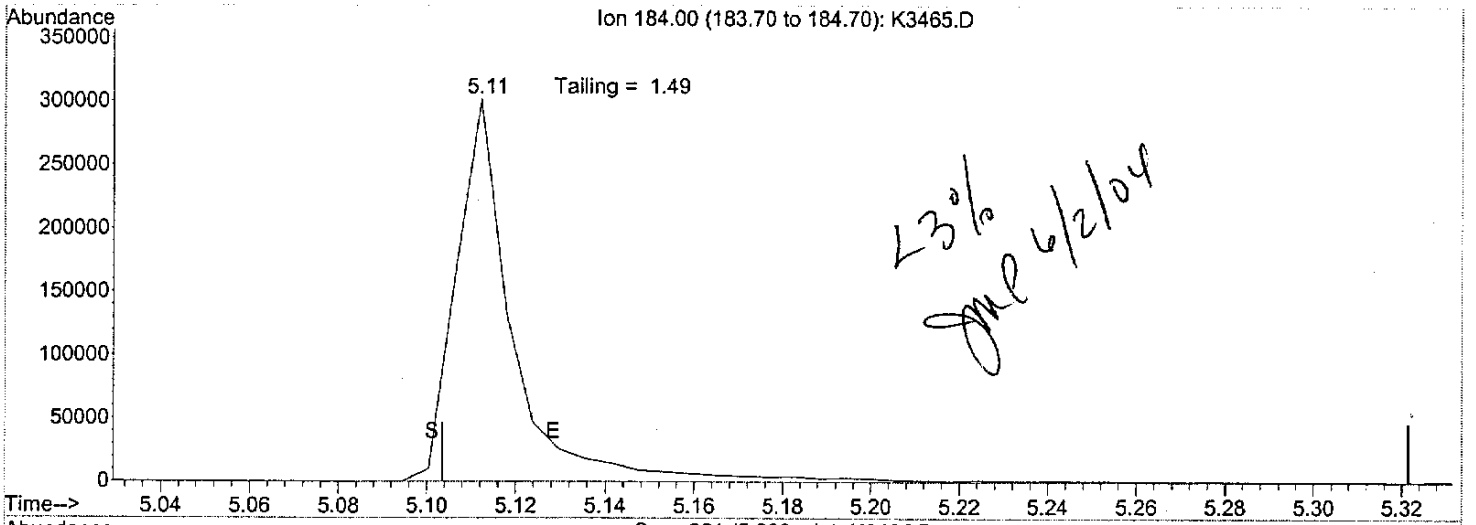
response 348041

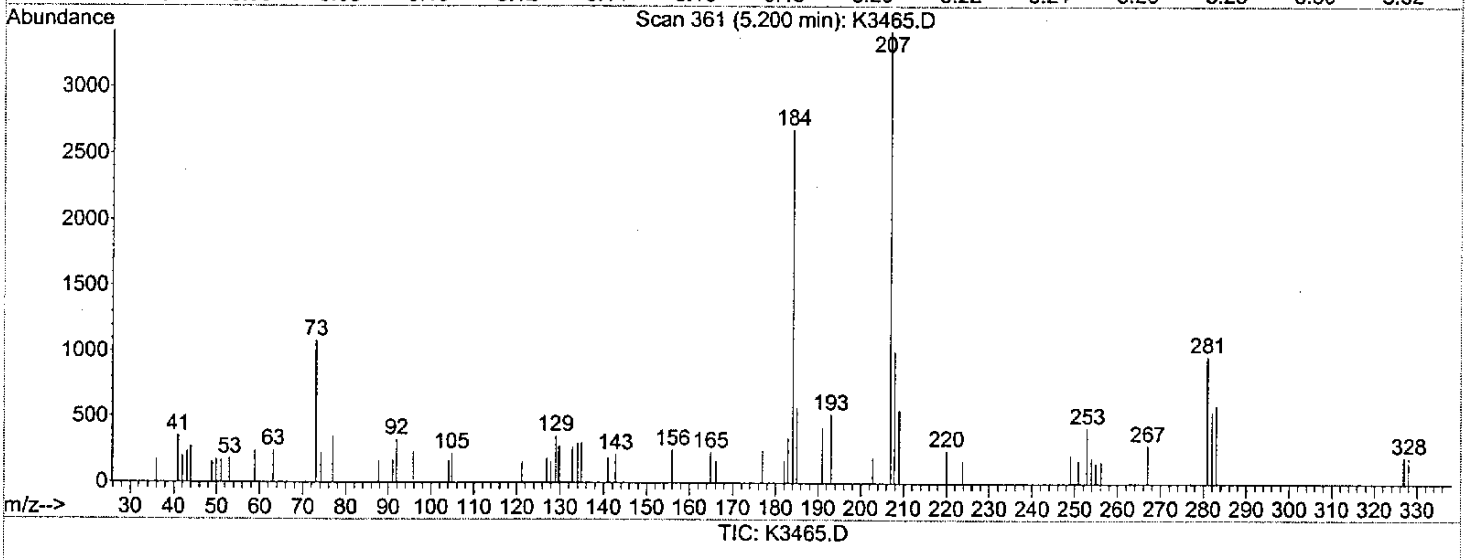
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\DATA\060204.B\K3465.D Vial: 2
Acq On : 2 Jun 2004 5:03 pm Operator: petersonj
Sample : 25NG DFTPP,BNA1512,P041904 E041905 Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Jun 2 17:14 2004 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPB.M (Chemstation Integrator)
Title : 8270C DFTPP CHECK
Last Update : Tue May 18 13:56:37 2004
Response via : Single Level Calibration





TIC: K3465.D

(3) Benzidine

5.20min 0.00

response 0

Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: K.i
Lab File ID: k3466.d
Analysis Type: WATER

Injection Date: 02-JUN-2004 17:18
Lab Sample ID: HSL 0080
Method File: /chem/K.i/060204.b/8270C.m

	COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
3	N-Nitrosodimethylamine	0.985019	0.949475	0.94948	0.01	3.61	50.0	Average
2	Pyridine	1.57313	1.71193	1.7119	0.01	8.82	50.0	Average
89	2-Fluorophenol	1.31486	1.39416	1.3942	0.01	6.03	50.0	Average
59	Phenol-d5	1.65936	1.73550	1.7355	0.01	4.59	50.0	Average
9	Phenol	1.67968	1.83821	1.8382	0.01	9.44	20.0	Average
13	Aniline	80.0000	115.288	1.8498	0.01	44.1	50.0	Quadratic
168	Methyl Styrene	1.43182	1.55408	1.5541	0.01	8.54	50.0	Average
15	Bis(2-chloroethyl) ether	80.0000	78.5905	1.4862	0.01	1.76	50.0	Linear
206	Decane	80.0000	110.269	2.1011	0.01	37.8	50.0	Linear
142	2-Chlorophenol-d4	1.21763	1.27916	1.2792	0.01	5.05	50.0	Average
9	2-Chlorophenol	1.25794	1.28929	1.2893	0.01	2.49	50.0	Average
17	1,3-Dichlorobenzene	1.47749	1.53169	1.5317	0.01	3.67	50.0	Average
9	1,4-Dichlorobenzene	1.50336	1.57583	1.5758	0.01	4.82	20.0	Average
20	Benzyl alcohol	0.866565	0.906525	0.90652	0.01	4.61	50.0	Average
143	1,2-Dichlorobenzene-d4	0.819202	0.858759	0.85876	0.01	4.83	50.0	Average
21	1,2-Dichlorobenzene	1.36859	1.41671	1.4167	0.01	3.52	50.0	Average
22	2-Methylphenol	1.27594	1.32251	1.3225	0.01	3.65	50.0	Average
23	2,2'-oxybis(1-chloropropane)	80.0000	102.425	2.6236	0.01	28.0	50.0	Quadratic
136	1H-Indene	2.23249	2.36443	2.3644	0.01	5.91	50.0	Average
25	4-Methylphenol	1.32009	1.32623	1.3262	0.01	0.465	50.0	Average
9	N-nitrosodi-n-propylamine	0.963621	1.11436	1.1144	0.05	15.6	50.0	Average
26	Acetophenone	1.82564	1.96796	1.9680	0.01	7.80	50.0	Average
30	Hexachloroethane	0.651225	0.704550	0.70455	0.01	8.19	50.0	Average
8	Nitrobenzene-d5	1.60323	1.76342	1.7634	0.01	9.99	50.0	Average
32	Nitrobenzene	1.64914	1.80270	1.8027	0.01	9.31	50.0	Average
34	Isophorone	0.732973	0.811544	0.81154	0.01	10.7	50.0	Average
36	2,4-Dimethylphenol	0.329722	0.380401	0.38040	0.01	15.4	50.0	Average
35	2-Nitrophenol	0.164846	0.176541	0.17654	0.01	7.09	20.0	Average
39	Bis(2-chloroethoxy)methane	0.424292	0.447283	0.44728	0.01	5.42	50.0	Average
38	Benzoic acid	0.211719	0.205227	0.20523	0.01	3.07	50.0	Average
40	2,4-Dichlorophenol	0.289157	0.311702	0.31170	0.01	7.80	20.0	Average
213	n-Dodecane	80.0000	96.8951	0.82849	0.01	21.1	50.0	Quadratic
9	1,2,4-Trichlorobenzene	0.314710	0.338774	0.33877	0.01	7.65	50.0	Average
44	Naphthalene	0.967358	1.02507	1.0251	0.01	5.96	50.0	Average
45	4-Chloroaniline	0.377432	0.400055	0.40006	0.01	5.99	50.0	Average
48	Hexachlorobutadiene	0.204582	0.237463	0.23746	0.01	16.1	20.0	Average
205	Caprolactam	0.173808	0.242856	0.24286	0.01	39.7	50.0	Average
9	4-Chloro-3-methylphenol	0.304431	0.332749	0.33275	0.01	9.30	20.0	Average
53	2-Methylnaphthalene	0.583296	0.635728	0.63573	0.01	8.99	50.0	Average

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: K.i
Lab File ID: k3466.d
Analysis Type: WATER

Injection Date: 02-JUN-2004 17:18
Lab Sample ID: HSL 0080
Method File: /chem/K.i/060204.b/8270C.m

	COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
138	1-Methylnaphthalene	0.595484	0.651623	0.65162	0.01	9.43	50.0	Average
54	Hexachlorocyclopentadiene	0.361098	0.406210	0.40621	0.05	12.5	50.0	Average
57	2,4,6-Trichlorophenol	0.360807	0.369134	0.36913	0.01	2.31	20.0	Average
207	2,3-Dichlorobenzeneamine	0.559647	0.553403	0.55340	0.01	1.12	50.0	Average
58	2,4,5-Trichlorophenol	0.394821	0.397666	0.39766	0.01	0.720	50.0	Average
11	2-Fluorobiphenyl	1.21340	1.23141	1.2314	0.01	1.48	50.0	Average
210	Tetradecane	80.0000	113.774	0.75845	0.01	42.2	50.0	Quadratic
61	2-Chloronaphthalene	1.03139	1.00146	1.0014	0.01	2.90	50.0	Average
63	2-Nitroaniline	0.414811	0.463849	0.46385	0.01	11.8	50.0	Average
65	Dimethyl phthalate	1.12246	1.13851	1.1385	0.01	1.43	50.0	Average
67	2,6-Dinitrotoluene	0.245044	0.242325	0.24232	0.01	1.11	50.0	Average
68	Acenaphthylene	1.63884	1.64016	1.6402	0.01	0.0805	50.0	Average
69	3-Nitroaniline	0.287644	0.284327	0.28433	0.01	1.15	50.0	Average
9	Acenaphthene	0.944930	0.966482	0.96648	0.01	2.28	20.0	Average
72	2,4-Dinitrophenol	80.0000	81.0945	0.17325	0.05	1.37	50.0	WtLinear
9	4-Nitrophenol	0.250726	0.287558	0.28756	0.05	14.7	50.0	Average
76	Dibenzofuran	1.36524	1.38300	1.3830	0.01	1.30	50.0	Average
9	2,4-Dinitrotoluene	0.325797	0.329662	0.32966	0.01	1.19	50.0	Average
209	Hexadecane	80.0000	90.5213	0.85226	0.01	13.2	50.0	Quadratic
80	Diethyl phthalate	1.12085	1.20431	1.2043	0.01	7.45	50.0	Average
84	4-Chlorophenyl phenyl ether	0.605557	0.626684	0.62668	0.01	3.49	50.0	Average
82	Fluorene	1.17053	1.22012	1.2201	0.01	4.24	50.0	Average
85	4-Nitroaniline	0.283613	0.306634	0.30663	0.01	8.12	50.0	Average
86	4,6-Dinitro-2-methylphenol	0.230653	0.264928	0.26493	0.01	14.8	50.0	Average
87	N-nitrosodiphenylamine	0.815195	0.854853	0.85485	0.01	4.86	20.0	Average
88	Azobenzene	1.34296	1.54563	1.5456	0.01	15.1	50.0	Average
114	2,4,6-Tribromophenol	0.0887073	0.0991467	0.099147	0.01	11.8	50.0	Average
94	4-Bromophenyl phenyl ether	0.180616	0.182763	0.18276	0.01	1.19	50.0	Average
204	Atrazine	0.0176054	0.0169638	0.016964	0.01	3.64	50.0	Average
95	Hexachlorobenzene	0.192372	0.200575	0.20057	0.01	4.26	50.0	Average
208	n-Octadecane	80.0000	84.1277	0.16454	0.01	5.16	50.0	Linear
9	Pentachlorophenol	0.115708	0.112642	0.11264	0.01	2.65	20.0	Average
104	Phenanthrene	0.922079	0.946522	0.94652	0.01	2.65	50.0	Average
105	Anthracene	0.940326	0.950982	0.95098	0.01	1.13	50.0	Average
134	Carbazole	0.820578	0.842342	0.84234	0.01	2.65	50.0	Average
202	Alachlor	0.125718	0.139699	0.13970	0.01	11.1	50.0	Average
107	Di-n-butyl phthalate	0.968695	1.07112	1.0711	0.01	10.6	50.0	Average
211	n-Eicosane	0.584509	0.770758	0.77076	0.01	31.9	50.0	Average
111	Fluoranthene	1.07324	1.20515	1.2052	0.01	12.3	20.0	Average