
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-13A

INVENTORY SHEET

Work Order #: 0907167B

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/21/09
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0907167B

Work Order Summary

CLIENT:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	**BILL TO:**	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
PHONE:	208-389-1030	**P.O. #**	103P0333.005
FAX:		**PROJECT #**	103P0333.006 BMI Offsite
DATE RECEIVED:	07/09/2009	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/20/2009		

FRACTION #	NAME	TEST
03A	OFF04-070709	Modified TO-13A
06A	OFF03-070709	Modified TO-13A
09A	OFF03-070709BS	Modified TO-13A
10A	Lab Blank	Modified TO-13A
11A	LCS	Modified TO-13A

CERTIFIED BY: Linda L. Fruman DATE: 07/20/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-13A
Tetra Tech
Workorder# 0907167B

Three PUF/XAD Cartridge samples were received on July 09, 2009. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

Method modifications taken to run these samples include:

Requirement	*TO-13A*	*ATL Modifications*
Extraction Solvent	10% ether in hexane for PUF; DCM for XAD sorbent. Final extract in hexane.	DCM for PUF/XAD cartridge and XAD sorbent. Final extract in DCM.
Glassware Cleaning	Muffle furnace is utilized.	Solvent cleaning procedure is used.
Extraction technique	Soxhlet extraction	Soxhlet extraction or pressurized fluid extraction (PFE).
Calibration range	0.10 to 2.5 ug/mL	1.0 ug/mL to 160 ug/mL
Solvent Process Blank	Required each analytical batch.	Not performed; each solvent lot is certified prior to use.
Method Blank	<Method Detection Limit	<Reporting Limit

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 80 m3 was assumed for all QC samples.

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 7/1/2009.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
OFF04-070709	0907167B-03A	7/ 7/2009	7/ 9/2009	7/10/2009	3	7/17/2009	7	Good
OFF03-070709	0907167B-06A	7/ 7/2009	7/ 9/2009	7/10/2009	3	7/17/2009	7	Good
OFF03-070709BS	0907167B-09A	7/ 7/2009	7/ 9/2009	7/10/2009	3	7/17/2009	7	Good
Lab Blank	0907167B-10A	NA	NA	7/10/2009	NA	7/17/2009	7	Good
LCS	0907167B-11A	NA	NA	7/10/2009	NA	7/17/2009	7	Good

Sample Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF04-070709

Lab ID#: 0907167B-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.012	20	0.25
2-Methylnaphthalene	1.0	0.012	17	0.21
Phenanthrene	1.0	0.012	1.3	0.017
di-n-Butylphthalate	5.0	0.063	79	0.99

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF04-070709

Lab ID#: 0907167B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071722**	**Date of Collection: 7/7/09 5:17:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:22 PM**	
		Date of Extraction: 7/10/09	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.063	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.063	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.063	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.063	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.063	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	20	0.25
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.063	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	17	0.21
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.063	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

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Client Sample ID: OFF04-070709

Lab ID#: 0907167B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071722**	**Date of Collection: 7/7/09 5:17:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:22 PM**	
		Date of Extraction: 7/10/09	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.063	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	1.3	0.017
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.063	79	0.99
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.063	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.063	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.063	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 79800
Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	94	50-150
Phenol-d5	99	50-150
Nitrobenzene-d5	92	50-150
2,4,6-Tribromophenol	92	50-150
Fluorene-d10	90	60-120
Pyrene-d10	89	60-120
Fluoranthene-d10	132	50-150

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Air Toxics LTD.
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Client Sample ID: OFF04-070709

Lab ID#: 0907167B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071722**	**Date of Collection: 7/7/09 5:17:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:22 PM**
		Date of Extraction: 7/10/09

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	115	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/17jul09.b/v071722.d
Lab Smp Id: 0907167B-03A
Inj Date : 17-JUL-2009 20:22
Operator : rn Inst ID: msdv.i
Smp Info : ;0907167B-03A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/17jul09.b/bnap0716.m
Meth Date : 20-Jul-2009 10:04 lzhang Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
$	1 2-Fluorophenol	112	2.835	2.836	(0.668)	377992	46.7945	46.79
$	2 Phenol-d5	99	3.924	3.924	(0.924)	453572	49.3852	49.38
	3 Phenol*	94	Compound Not Detected.					
	4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	5 2-Chlorophenol	128	Compound Not Detected.					
	6 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	7 1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	349117	40.0000	
	9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
	11 1,2-Dichlorobenzene	146	Compound Not Detected.					
	12 2-Methylphenol	108	Compound Not Detected.					
	13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
	14 4-Methylphenol	108	Compound Not Detected.					
	15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

			QUANT SIG				CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
	16	Hexachloroethane	117	Compound Not Detected.				
$	17	Nitrobenzene-d5	82	5.012	5.012 (0.849)	422544	46.1096	46.11
	18	Nitrobenzene	77	Compound Not Detected.				
	19	Isophorone	82	Compound Not Detected.				
	20	2-Nitrophenol*	139	Compound Not Detected.				
	21	2,4-Dimethylphenol	122	Compound Not Detected.				
	23	bis(2-Chloroethoxy)methane	93	Compound Not Detected.				
	24	Benzoic Acid	122	Compound Not Detected.				
	25	2,4-Dichlorophenol*	162	Compound Not Detected.				
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.				
*	27	Naphthalene-d8	136	5.903	5.903 (1.000)	884379	40.0000	
	28	Naphthalene	128	5.934	5.934 (1.005)	502406	19.7552	19.76
	29	4-Chloroaniline	127	Compound Not Detected.				
	30	Hexachlorobutadiene*	225	Compound Not Detected.				
	32	4-Chloro-3-Methylphenol*	107	Compound Not Detected.				
	33	2-Methylnaphthalene	142	6.815	6.815 (1.154)	246776	16.9162	16.92
	145	1-Methylnaphthalene	142	6.950	6.950 (1.177)	95343	6.28274	6.283
	35	Hexachlorocyclopentadiene**	237	Compound Not Detected.				
	36	2,4,6-Trichlorophenol*	196	Compound Not Detected.				
	37	2,4,5-Trichlorophenol	196	Compound Not Detected.				
	39	2-Chloronaphthalene	162	Compound Not Detected.				
	40	2-Nitroaniline	65	Compound Not Detected.				
	42	Dimethylphthalate	163	Compound Not Detected.				
	45	Acenaphthylene	152	Compound Not Detected.				
	44	2,6-Dinitrotoluene	165	Compound Not Detected.				
	46	3-Nitroaniline	138	Compound Not Detected.				
*	47	Acenaphthene-d10	164	8.121	8.121 (1.000)	447080	40.0000	
	48	Acenaphthene*	154	Compound Not Detected.				
	49	2,4-Dinitrophenol**	184	Compound Not Detected.				
	50	4-Nitrophenol**	109	Compound Not Detected.				
	51	Dibenzofuran	168	Compound Not Detected.				
	52	2,4-Dinitrotoluene	165	Compound Not Detected.				
$	147	Fluorene-d10	176	8.732	8.742 (1.075)	572039	44.8411	44.84
	56	Diethylphthalate	149	Compound Not Detected.				
	57	Fluorene	166	Compound Not Detected.				
	58	4-Chlorophenyl phenyl ether	204	Compound Not Detected.				
	59	4-Nitroaniline	138	Compound Not Detected.				
	60	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.				
	61	N-nitrosodiphenylamine*	169	Compound Not Detected.				
$	62	2,4,6-Tribromophenol	330	9.095	9.095 (1.120)	87828	46.1938	46.19
	65	4-Bromophenyl phenyl ether	248	Compound Not Detected.				
	66	Hexachlorobenzene	284	Compound Not Detected.				
	68	Pentachlorophenol*	266	Compound Not Detected.				
*	71	Phenanthrene-d10	188	9.882	9.882 (1.000)	776071	40.0000	
	72	Phenanthrene	178	9.913	9.913 (1.003)	29693	1.34088	1.341
	73	Anthracene	178	Compound Not Detected.				
	78	Di-n-butylphthalate	149	10.753	10.753 (1.088)	1835270	79.2999	79.30
	80	Fluoranthene*	202	Compound Not Detected.				

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$	148 Pyrene-d10	212	11.582	11.592	(0.867)	733038	44.7286	44.73
	81 Pyrene	202	Compound Not Detected.					
	85 Butyl benzyl phthalate	149	Compound Not Detected.					
	88 Benzo(a)Anthracene	228	Compound Not Detected.					
*	90 Chrysene-d12	240	13.364	13.375	(1.000)	702361	40.0000	
	89 3 3'-Dichlorobenzidine	252	Compound Not Detected.					
	91 Chrysene	228	Compound Not Detected.					
	93 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
	94 Di-n-octyl phthalate*	149	Compound Not Detected.					
	95 Benzo(b)fluoranthene	252	Compound Not Detected.					
	96 Benzo(k)fluoranthene	252	Compound Not Detected.					
	98 Benzo(a)pyrene*	252	Compound Not Detected.					
*	99 Perylene-d12	264	15.789	15.789	(1.000)	506925	40.0000	
	103 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	104 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	105 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$	83 Fluoranthene-d10	212	11.323	11.323	(1.146)	218556	13.2365	13.24
$	101 Benzo(a)pyrene-d12	264	15.644	15.655	(0.991)	117686	11.4847	11.48

Report Date: 20-Jul-2009 10:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071722.d
Lab Smp Id: 0907167B-03A
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 17-JUL-2009
Calibration Time: 11:17
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	335278	167639	670556	349117	4.13
27 Naphthalene-d8	773459	386730	1546918	884379	14.34
47 Acenaphthene-d10	359156	179578	718312	447080	24.48
71 Phenanthrene-d10	662052	331026	1324104	776071	17.22
90 Chrysene-d12	551895	275948	1103790	702361	27.26
99 Perylene-d12	409341	204670	818682	506925	23.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.24	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.36	-0.08
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

Report Date: 20-Jul-2009 10:44

Air Toxics Ltd.

RECOVERY REPORT

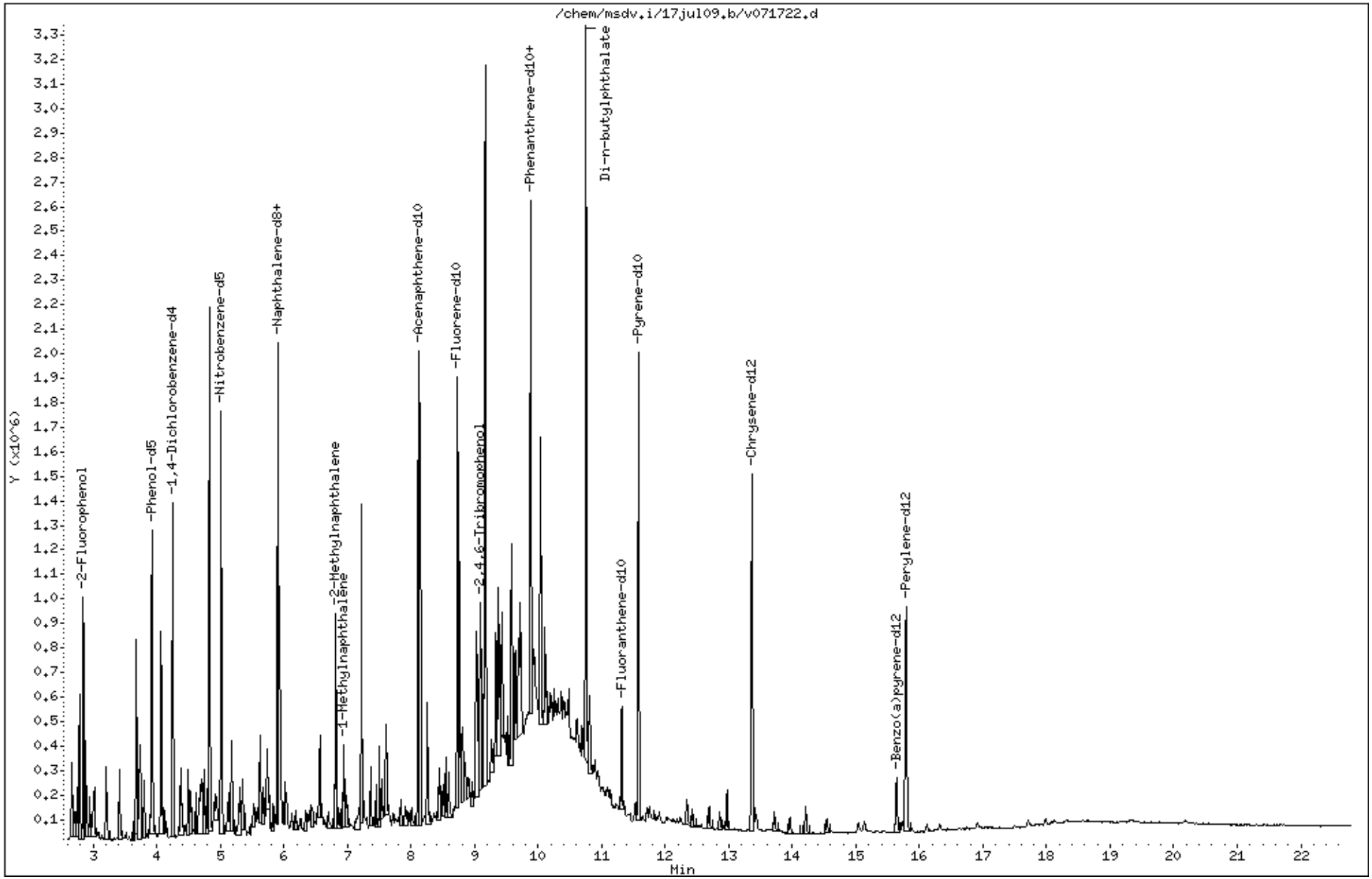
Client Name: Client SDG: 17jul09
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907167B-03A
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: TO13+fs.sub
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	46.79	93.59	50-150
$ 2 Phenol-d5	50.00	49.38	98.77	50-150
$ 17 Nitrobenzene-d5	50.00	46.11	92.22	50-150
$ 147 Fluorene-d10	50.00	44.84	89.68	60-120
$ 62 2,4,6-Tribromophen	50.00	46.19	92.39	50-150
$ 148 Pyrene-d10	50.00	44.73	89.46	60-120
$ 83 Fluoranthene-d10	10.00	13.24	132.37	50-150
$ 101 Benzo(a)pyrene-d12	10.00	11.48	114.85	50-150

0015

Data File: /chem/msdv.i/17jul09.b/v071722.d
Date : 17-JUL-2009 20:22
Client ID:
Sample Info: ;0907167B-03A;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Data File: /chem/msdv.i/17jul09.b/v071722.d

Date : 17-JUL-2009 20:22

Client ID:

Instrument: msdv.i

Sample Info: ;0907167B-03A;

Volume Injected (uL): 1.0

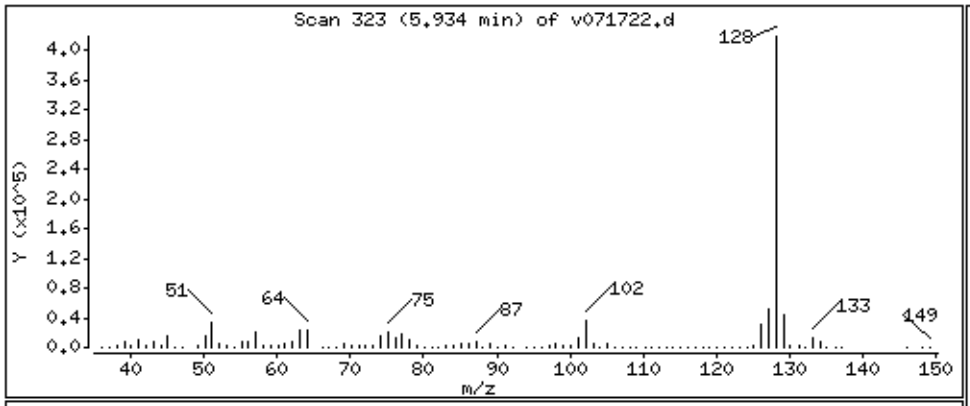
Operator: rn

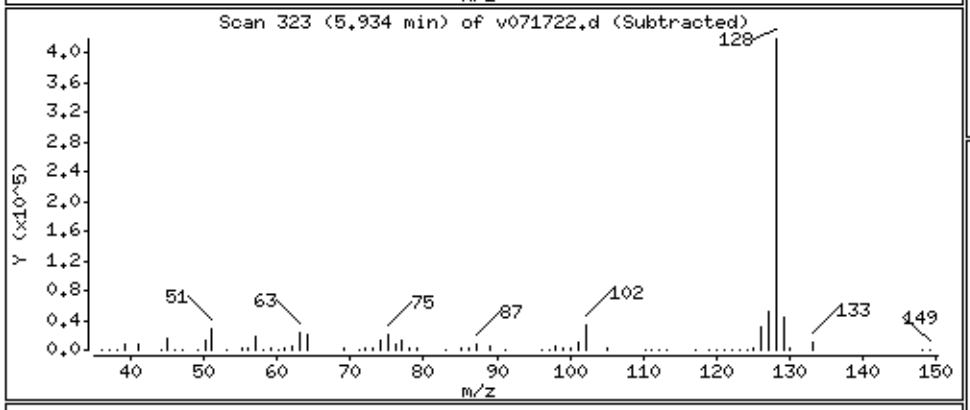
Column phase: DB-5.625

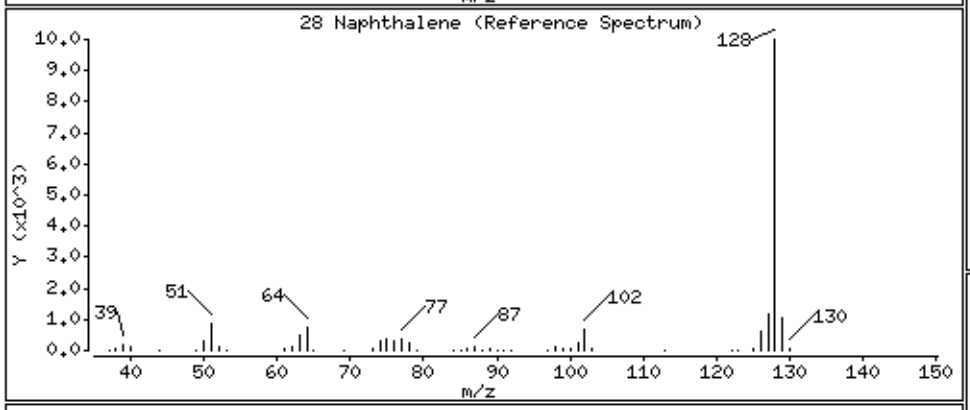
Column diameter: 0.25

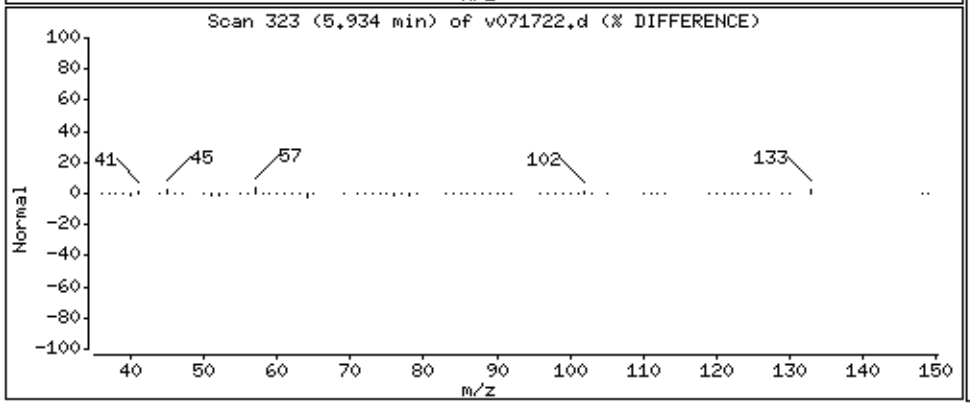
28 Naphthalene

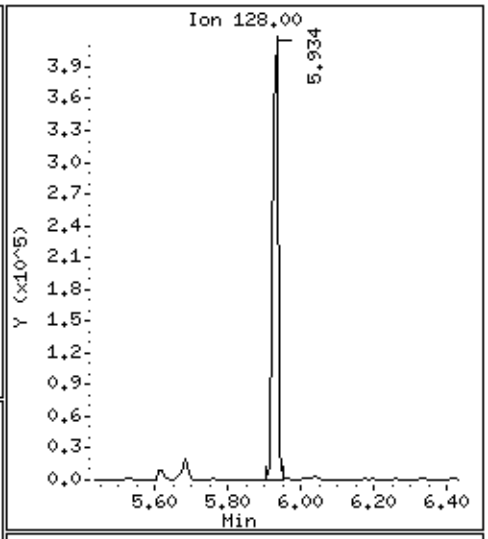
Concentration: 19.76 ug

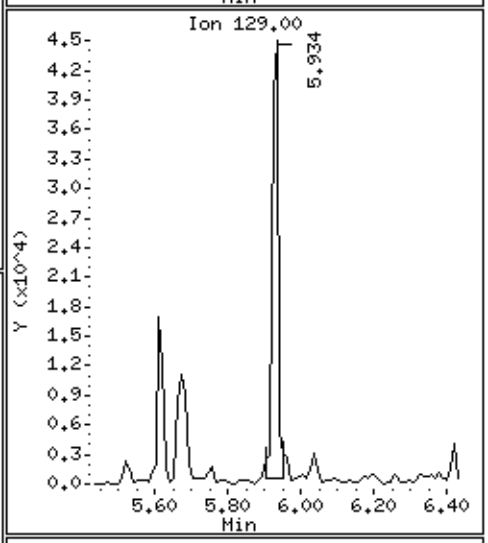


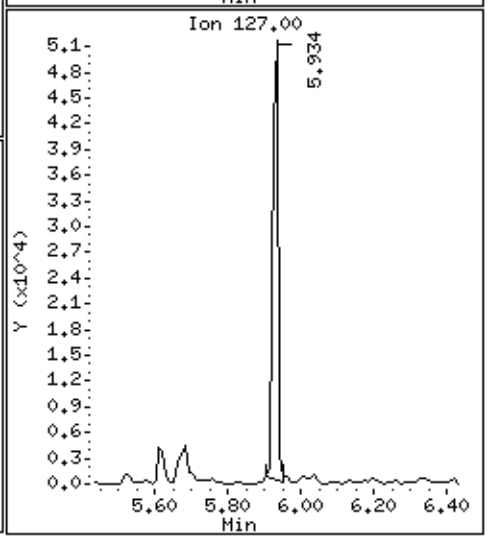












Data File: /chem/msdv.i/17jul09.b/v071722.d

Date : 17-JUL-2009 20:22

Client ID:

Instrument: msdv.i

Sample Info: ;0907167B-03A;

Volume Injected (uL): 1.0

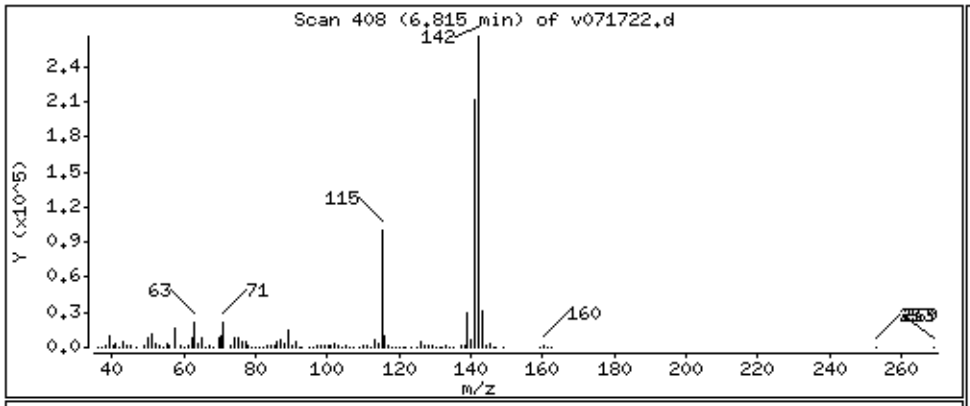
Operator: rn

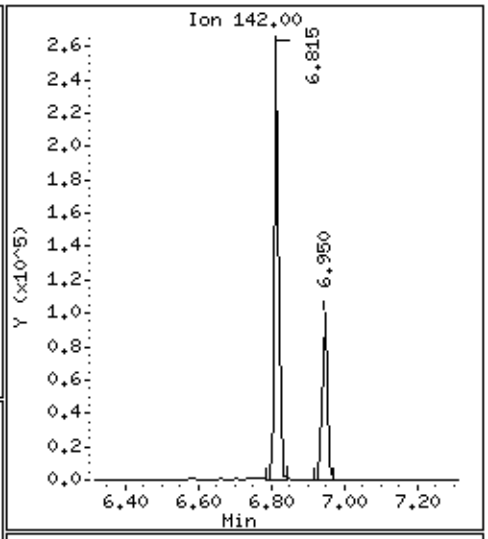
Column phase: DB-5.625

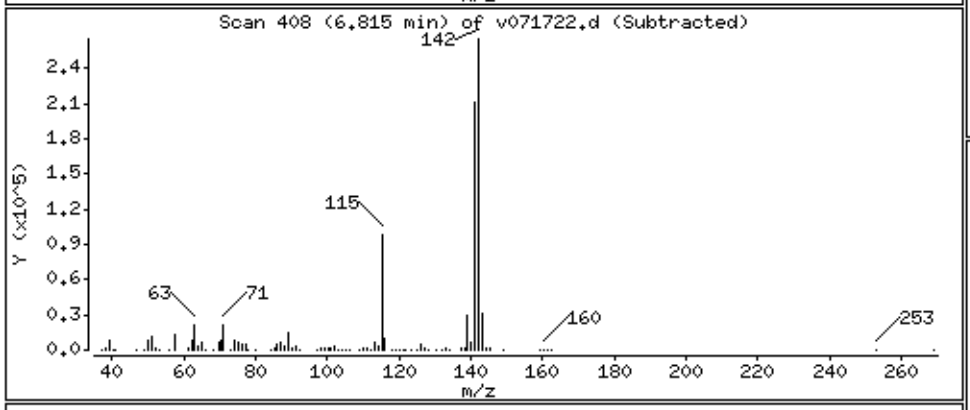
Column diameter: 0.25

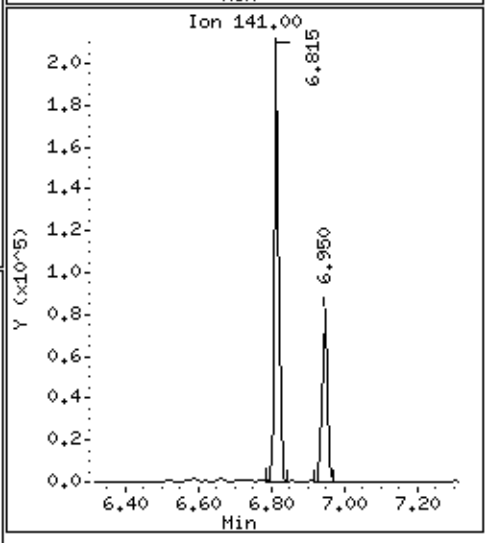
33 2-Methylnaphthalene

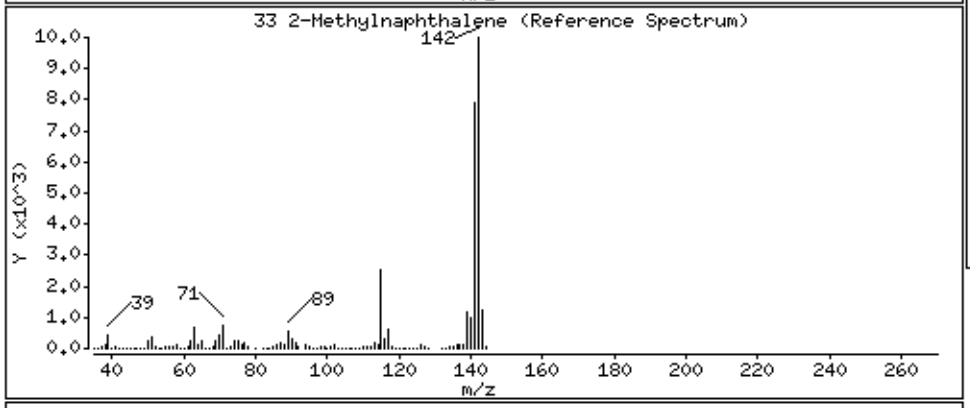
Concentration: 16.92 ug

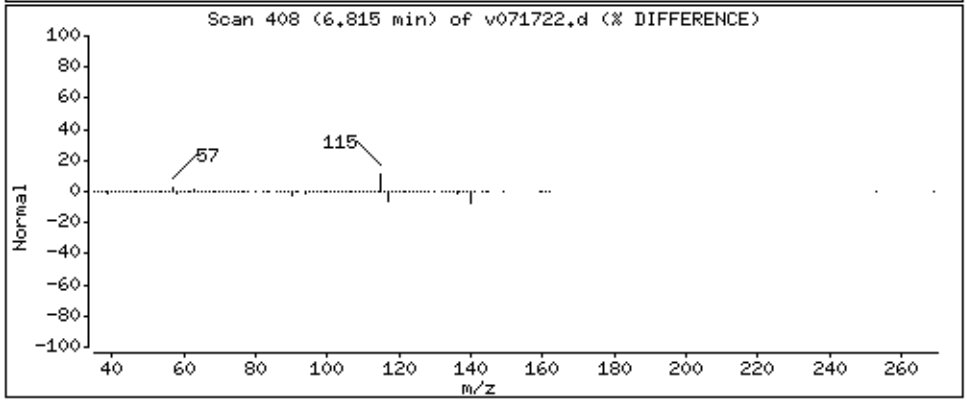












Data File: /chem/msdv.i/17jul09.b/v071722.d

Date : 17-JUL-2009 20:22

Client ID:

Instrument: msdv.i

Sample Info: ;0907167B-03A;

Volume Injected (uL): 1.0

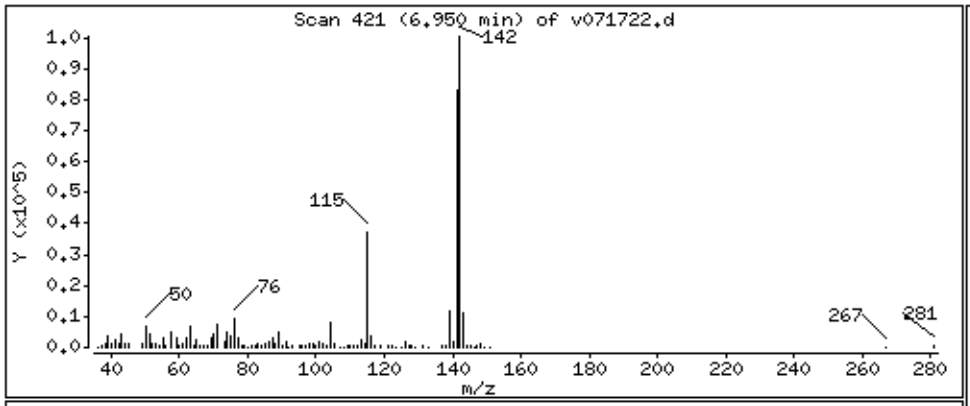
Operator: rn

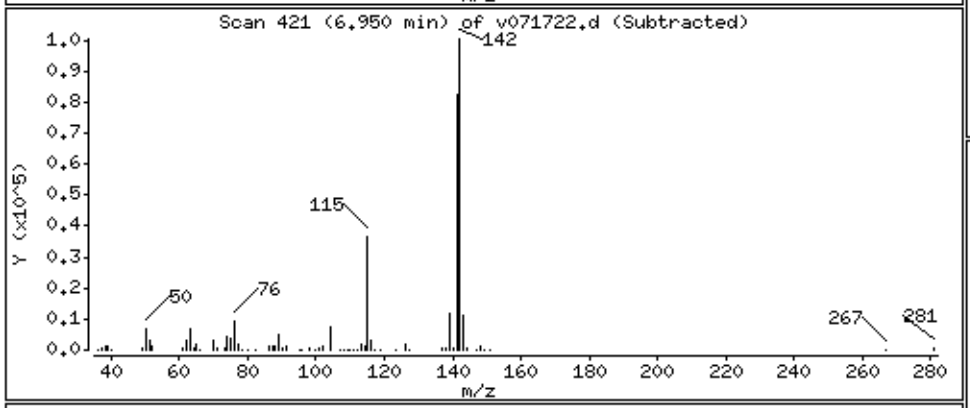
Column phase: DB-5.625

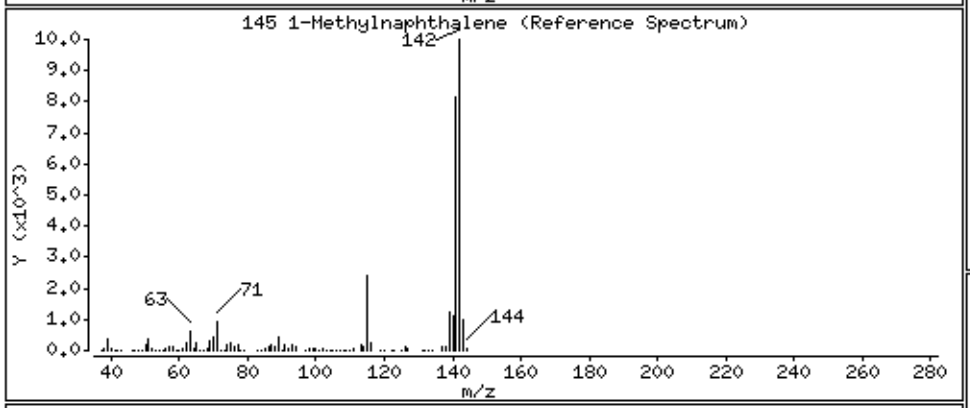
Column diameter: 0.25

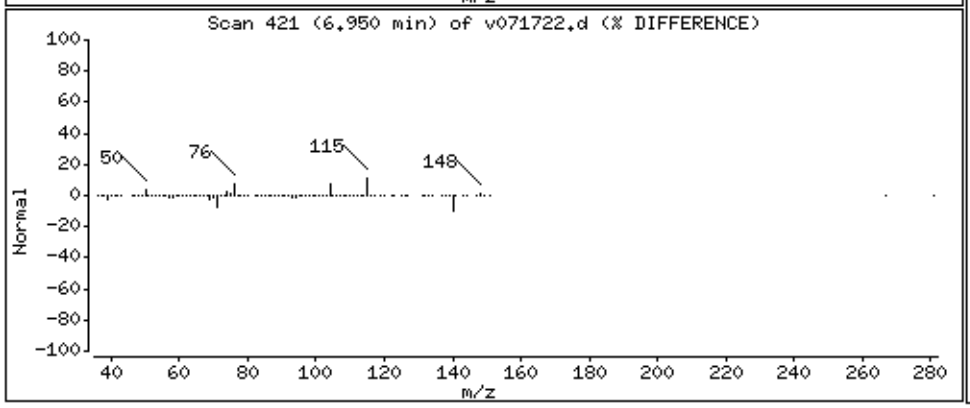
145 1-Methylnaphthalene

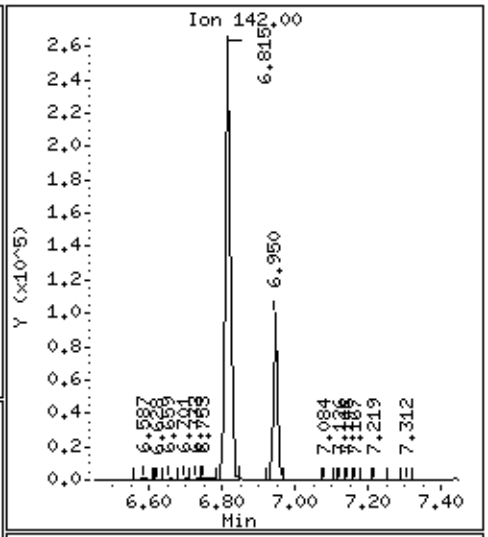
Concentration: 6.283 ug

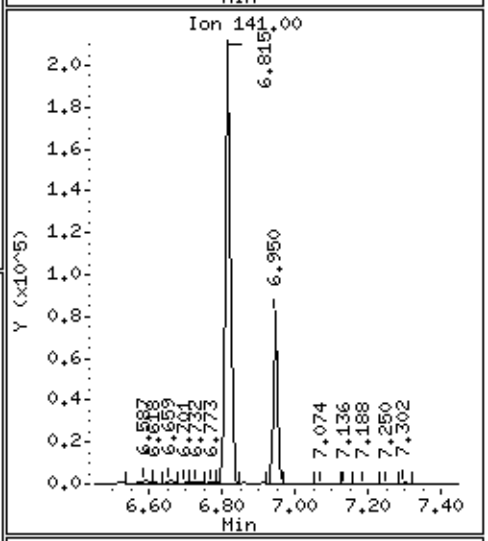


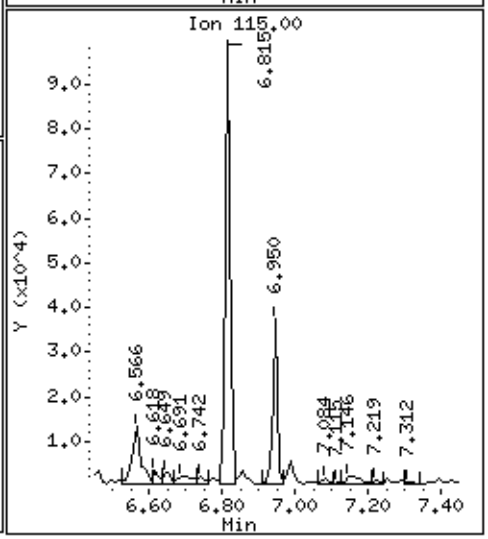












Data File: /chem/msdv.i/17jul09.b/v071722.d

Date : 17-JUL-2009 20:22

Client ID:

Instrument: msdv.i

Sample Info: ;0907167B-03A;

Volume Injected (uL): 1.0

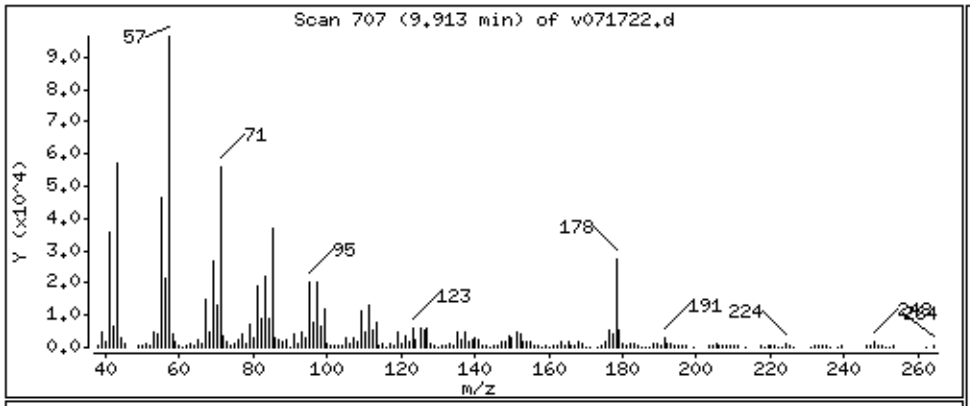
Operator: rn

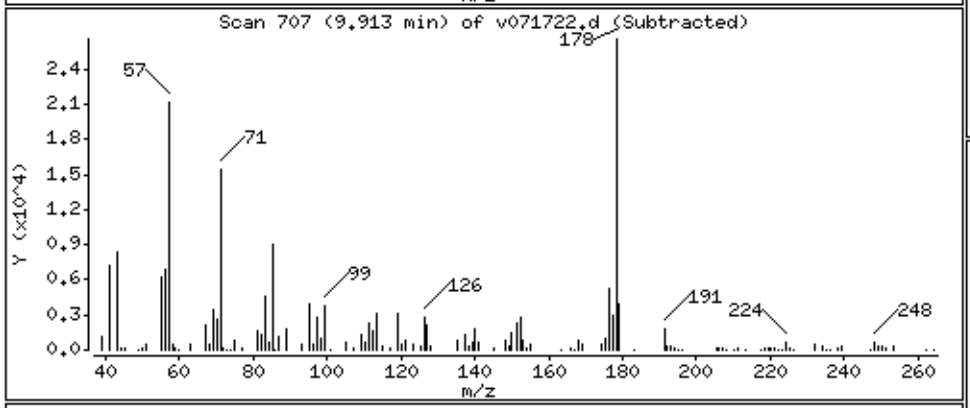
Column phase: DB-5.625

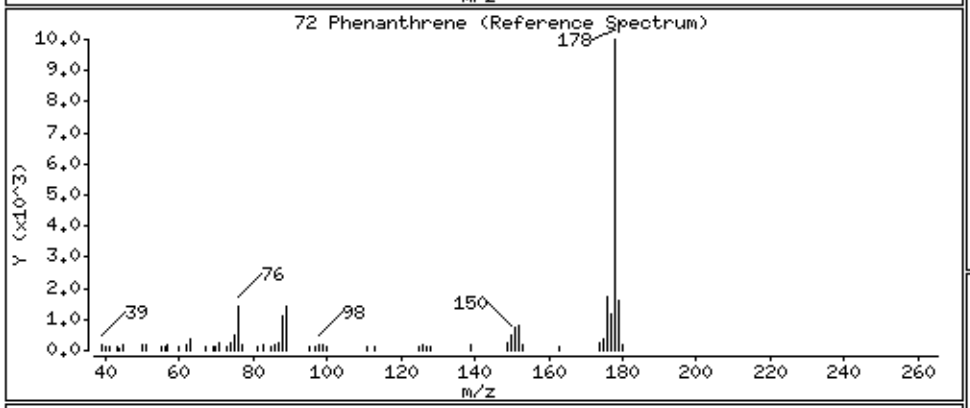
Column diameter: 0.25

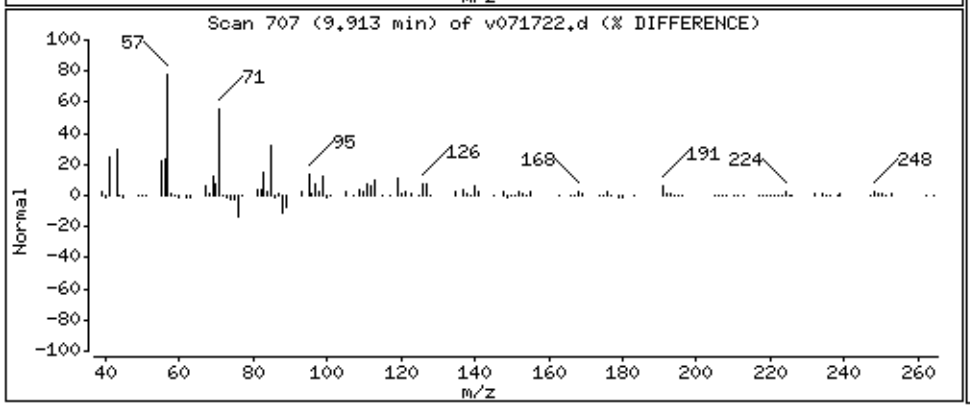
72 Phenanthrene

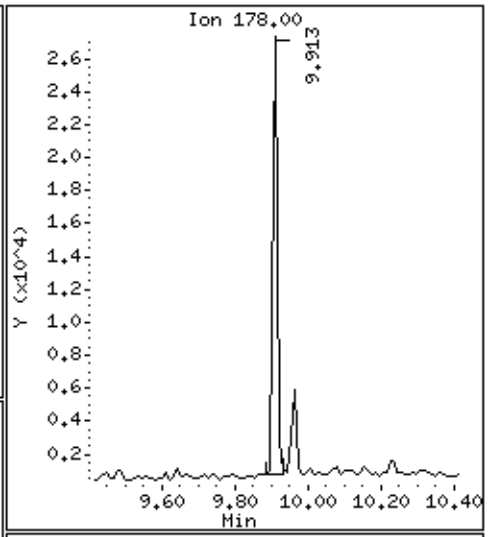
Concentration: 1.341 ug

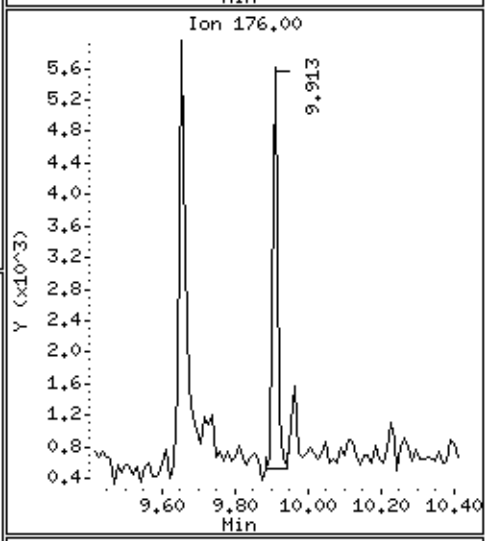


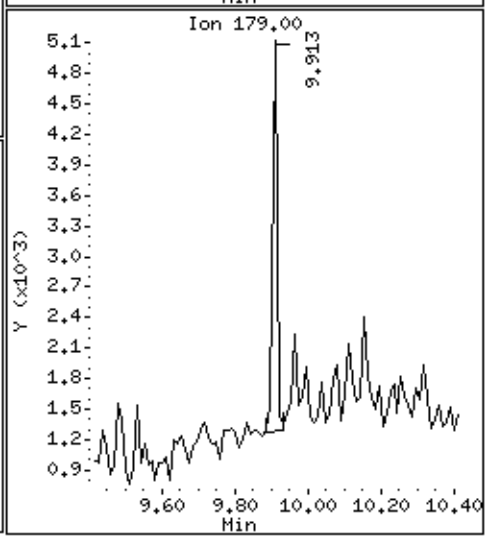












Data File: /chem/msdv.i/17jul09.b/v071722.d

Date : 17-JUL-2009 20:22

Client ID:

Instrument: msdv.i

Sample Info: ;0907167B-03A;

Volume Injected (uL): 1.0

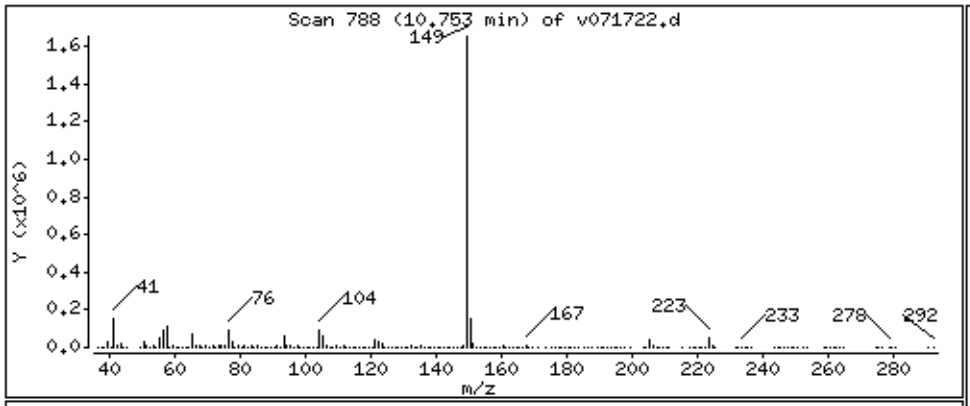
Operator: rn

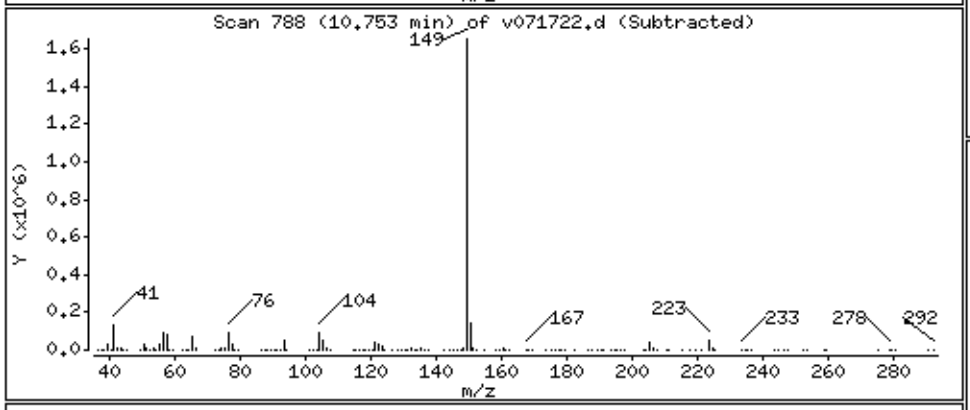
Column phase: DB-5.625

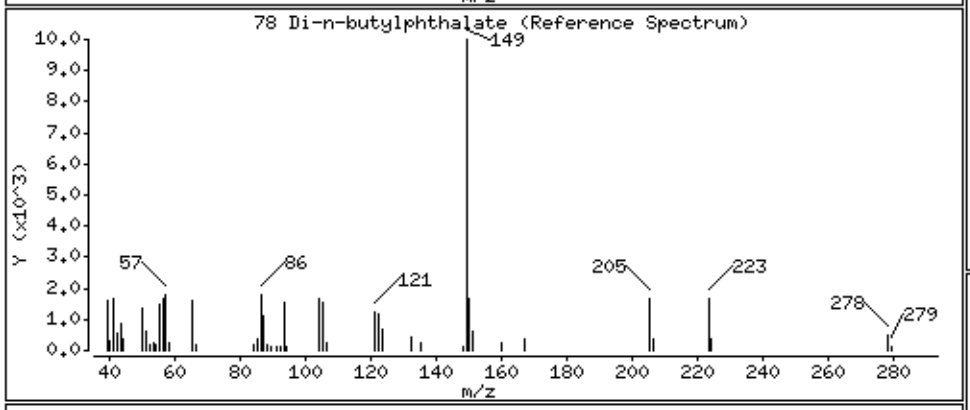
Column diameter: 0.25

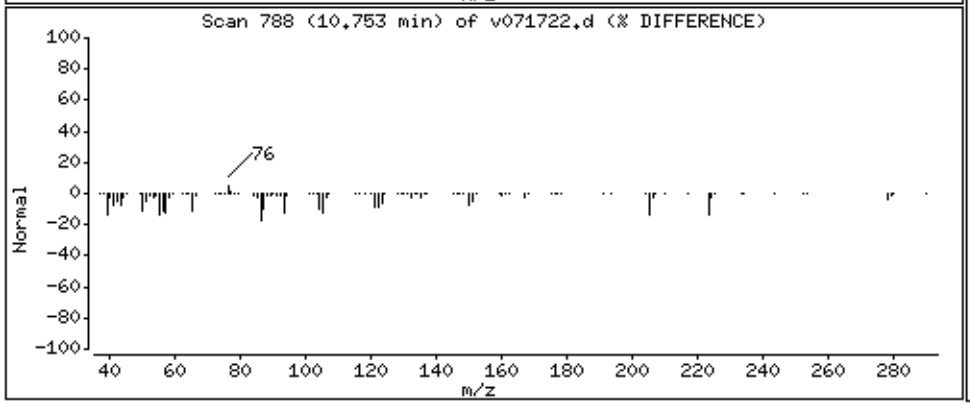
78 Di-n-butylphthalate

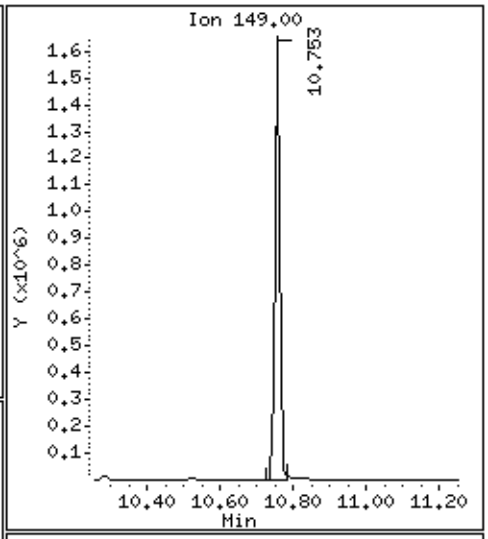
Concentration: 79.30 ug

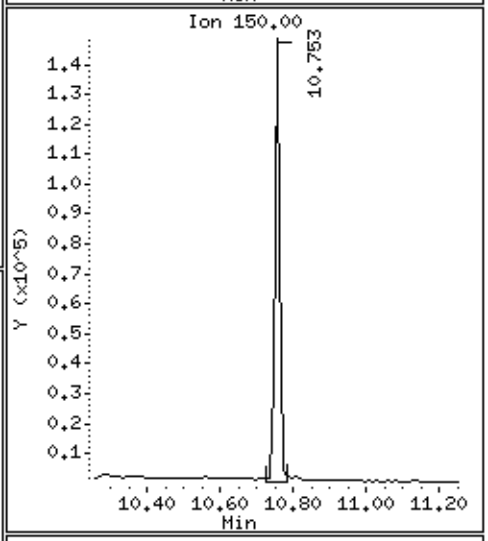


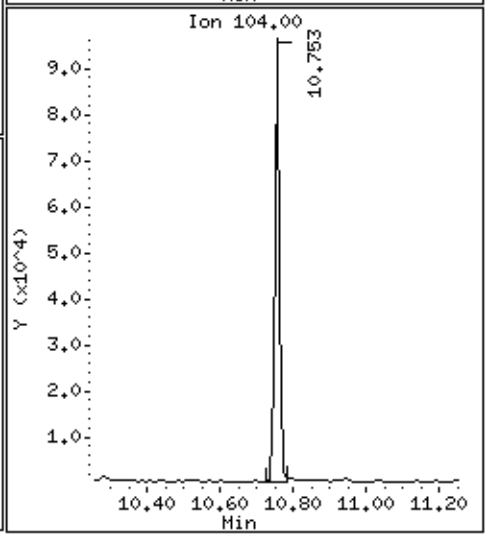












Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF03-070709

Lab ID#: 0907167B-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
di-n-Butylphthalate	5.0	0.11	57	1.3

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070709

Lab ID#: 0907167B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071723**	**Date of Collection: 7/7/09 5:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:50 PM**	
		Date of Extraction: 7/10/09	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.11	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.022	Not Detected	Not Detected
2-Chlorophenol	5.0	0.11	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.022	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.022	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.022	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.11	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.022	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.022	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.11	Not Detected	Not Detected
Hexachloroethane	1.0	0.022	Not Detected	Not Detected
Nitrobenzene	1.0	0.022	Not Detected	Not Detected
Isophorone	1.0	0.022	Not Detected	Not Detected
2-Nitrophenol	5.0	0.11	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.11	Not Detected	Not Detected
Benzoic Acid	30	0.67	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.022	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.11	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.022	Not Detected	Not Detected
Naphthalene	1.0	0.022	Not Detected	Not Detected
4-Chloroaniline	10	0.22	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.022	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.11	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.022	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	0.45	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.11	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.11	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.022	Not Detected	Not Detected
2-Nitroaniline	10	0.22	Not Detected	Not Detected
Dimethylphthalate	5.0	0.11	Not Detected	Not Detected
Acenaphthylene	1.0	0.022	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.11	Not Detected	Not Detected
3-Nitroaniline	10	0.22	Not Detected	Not Detected
Acenaphthene	1.0	0.022	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.45	Not Detected	Not Detected
4-Nitrophenol	20	0.45	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.11	Not Detected	Not Detected
Dibenzofuran	1.0	0.022	Not Detected	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070709

Lab ID#: 0907167B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071723**	**Date of Collection: 7/7/09 5:50:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:50 PM**	
		Date of Extraction: 7/10/09	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.11	Not Detected	Not Detected
Fluorene	1.0	0.022	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.022	Not Detected	Not Detected
4-Nitroaniline	10	0.22	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.22	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.22	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.022	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.022	Not Detected	Not Detected
Pentachlorophenol	20	0.45	Not Detected	Not Detected
Phenanthrene	1.0	0.022	Not Detected	Not Detected
Anthracene	1.0	0.022	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.11	57	1.3
Fluoranthene	1.0	0.022	Not Detected	Not Detected
Pyrene	1.0	0.022	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.11	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.45	Not Detected	Not Detected
Chrysene	1.0	0.022	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.022	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.11	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.11	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.022	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.022	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.022	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.022	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.022	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.022	Not Detected	Not Detected

Air Sample Volume(L): 44400
Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	86	50-150
Phenol-d5	89	50-150
Nitrobenzene-d5	89	50-150
2,4,6-Tribromophenol	86	50-150
Fluorene-d10	84	60-120
Pyrene-d10	83	60-120
Fluoranthene-d10	125	50-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070709

Lab ID#: 0907167B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071723**	**Date of Collection: 7/7/09 5:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:50 PM**
		Date of Extraction: 7/10/09

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	107	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/17jul09.b/v071723.d
Lab Smp Id: 0907167B-06A
Inj Date : 17-JUL-2009 20:50
Operator : rn Inst ID: msdv.i
Smp Info : ;0907167B-06A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/17jul09.b/bnap0716.m
Meth Date : 20-Jul-2009 10:04 lzhang Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1	2-Fluorophenol	112	2.836	2.836	(0.668)	367319	43.1674	43.17
$ 2	Phenol-d5	99	3.924	3.924	(0.924)	431297	44.5787	44.58
3	Phenol*	94	Compound Not Detected.					
4	bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5	2-Chlorophenol	128	Compound Not Detected.					
6	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7	1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	367765	40.0000	
9	1,4-Dichlorobenzene*	146	Compound Not Detected.					
11	1,2-Dichlorobenzene	146	Compound Not Detected.					
12	2-Methylphenol	108	Compound Not Detected.					
13	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14	4-Methylphenol	108	Compound Not Detected.					
15	N-Nitrosodipropylamine**	70	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug)
	16	Hexachloroethane	117	Compound Not Detected.					
$	17	Nitrobenzene-d5	82	5.012	5.012	(0.849)	434923	44.5835	44.58
	18	Nitrobenzene	77	Compound Not Detected.					
	19	Isophorone	82	Compound Not Detected.					
	20	2-Nitrophenol*	139	Compound Not Detected.					
	21	2,4-Dimethylphenol	122	Compound Not Detected.					
	23	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24	Benzoic Acid	122	Compound Not Detected.					
	25	2,4-Dichlorophenol*	162	Compound Not Detected.					
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27	Naphthalene-d8	136	5.903	5.903	(1.000)	941447	40.0000	
	28	Naphthalene	128	Compound Not Detected.					
	29	4-Chloroaniline	127	Compound Not Detected.					
	30	Hexachlorobutadiene*	225	Compound Not Detected.					
	32	4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33	2-Methylnaphthalene	142	Compound Not Detected.					
	145	1-Methylnaphthalene	142	Compound Not Detected.					
	35	Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36	2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37	2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39	2-Chloronaphthalene	162	Compound Not Detected.					
	40	2-Nitroaniline	65	Compound Not Detected.					
	42	Dimethylphthalate	163	Compound Not Detected.					
	45	Acenaphthylene	152	Compound Not Detected.					
	44	2,6-Dinitrotoluene	165	Compound Not Detected.					
	46	3-Nitroaniline	138	Compound Not Detected.					
*	47	Acenaphthene-d10	164	8.121	8.121	(1.000)	469743	40.0000	
	48	Acenaphthene*	154	Compound Not Detected.					
	49	2,4-Dinitrophenol**	184	Compound Not Detected.					
	50	4-Nitrophenol**	109	Compound Not Detected.					
	51	Dibenzofuran	168	Compound Not Detected.					
	52	2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147	Fluorene-d10	176	8.732	8.742	(1.075)	562907	41.9964	42.00
	56	Diethylphthalate	149	Compound Not Detected.					
	57	Fluorene	166	Compound Not Detected.					
	58	4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59	4-Nitroaniline	138	Compound Not Detected.					
	60	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61	N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62	2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	85970	43.0351	43.04
	65	4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66	Hexachlorobenzene	284	Compound Not Detected.					
	68	Pentachlorophenol*	266	Compound Not Detected.					
*	71	Phenanthrene-d10	188	9.883	9.882	(1.000)	833195	40.0000	
	72	Phenanthrene	178	Compound Not Detected.					
	73	Anthracene	178	Compound Not Detected.					
	78	Di-n-butylphthalate	149	10.753	10.753	(1.088)	1426491	57.4112	57.41
	80	Fluoranthene*	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 148	Pyrene-d10	212	11.582	11.592	(0.867)	713268	41.4897	41.49
81	Pyrene	202	Compound Not Detected.					
85	Butyl benzyl phthalate	149	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
* 90	Chrysene-d12	240	13.364	13.375	(1.000)	736770	40.0000	
89	3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
93	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
94	Di-n-octyl phthalate*	149	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
* 99	Perylene-d12	264	15.789	15.789	(1.000)	544586	40.0000	
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 83	Fluoranthene-d10	212	11.323	11.323	(1.146)	221952	12.5206	12.52
$ 101	Benzo(a)pyrene-d12	264	15.644	15.655	(0.991)	117779	10.6989	10.70

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071723.d
Lab Smp Id: 0907167B-06A
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 17-JUL-2009
Calibration Time: 11:17
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	335278	167639	670556	367765	9.69
27 Naphthalene-d8	773459	386730	1546918	941447	21.72
47 Acenaphthene-d10	359156	179578	718312	469743	30.79
71 Phenanthrene-d10	662052	331026	1324104	833195	25.85
90 Chrysene-d12	551895	275948	1103790	736770	33.50
99 Perylene-d12	409341	204670	818682	544586	33.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.25	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.36	-0.08
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

Report Date: 20-Jul-2009 10:45

Air Toxics Ltd.

RECOVERY REPORT

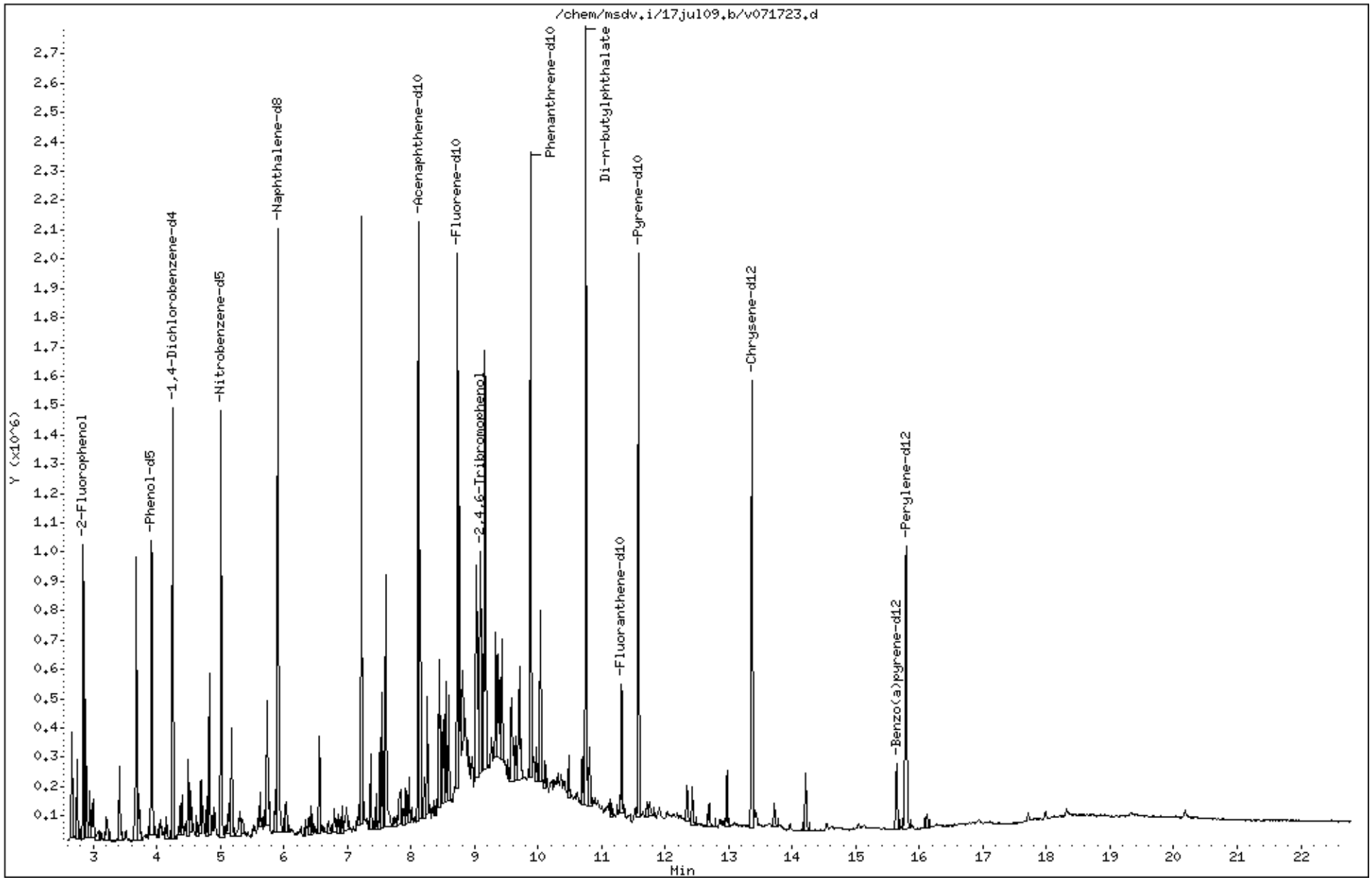
Client Name: Client SDG: 17jul09
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907167B-06A
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: TO13+fs.sub
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	43.17	86.33	50-150
$ 2 Phenol-d5	50.00	44.58	89.16	50-150
$ 17 Nitrobenzene-d5	50.00	44.58	89.17	50-150
$ 147 Fluorene-d10	50.00	42.00	83.99	60-120
$ 62 2,4,6-Tribromophen	50.00	43.04	86.07	50-150
$ 148 Pyrene-d10	50.00	41.49	82.98	60-120
$ 83 Fluoranthene-d10	10.00	12.52	125.21	50-150
$ 101 Benzo(a)pyrene-d12	10.00	10.70	106.99	50-150

0030

Data File: /chem/msdv.i/17jul09.b/v071723.d
Date : 17-JUL-2009 20:50
Client ID:
Sample Info: ;0907167B-06A;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Data File: /chem/msdv.i/17jul09.b/v071723.d

Date : 17-JUL-2009 20:50

Client ID:

Instrument: msdv.i

Sample Info: ;0907167B-06A;

Volume Injected (uL): 1.0

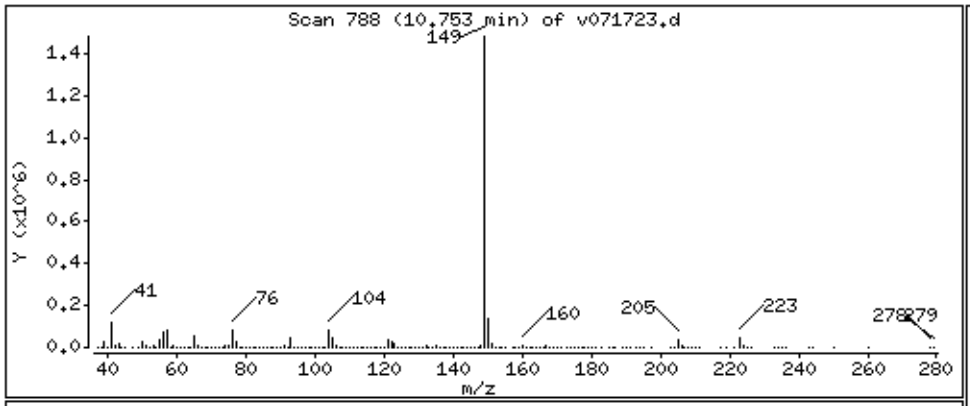
Operator: rn

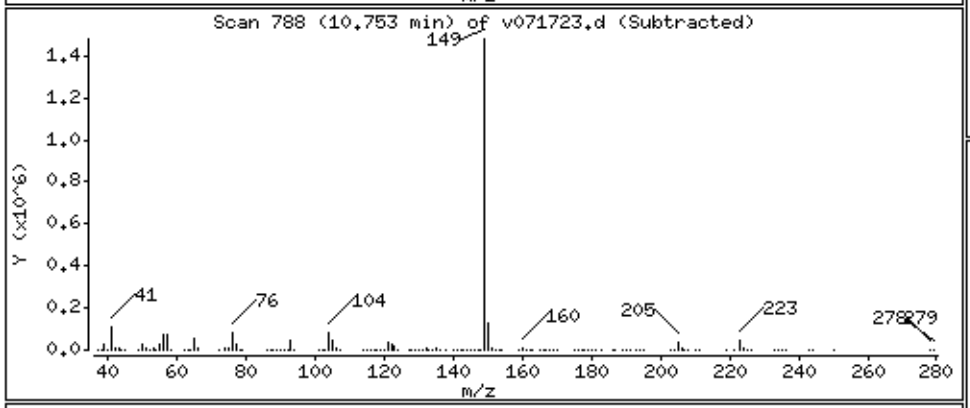
Column phase: DB-5.625

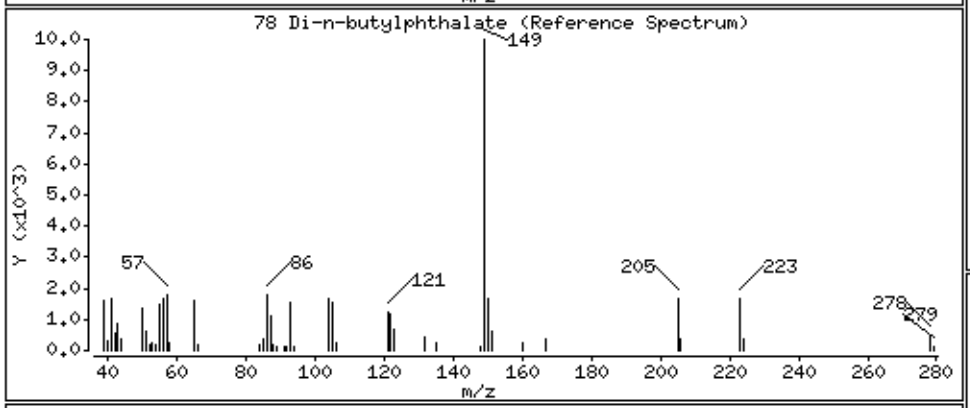
Column diameter: 0.25

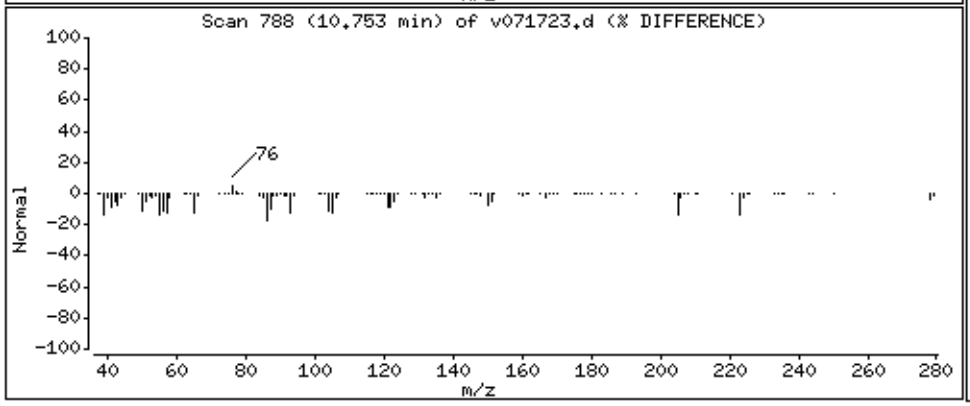
78 Di-n-butylphthalate

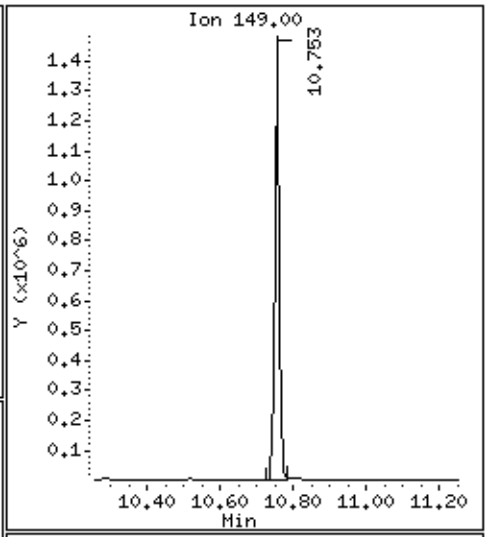
Concentration: 57.41 ug

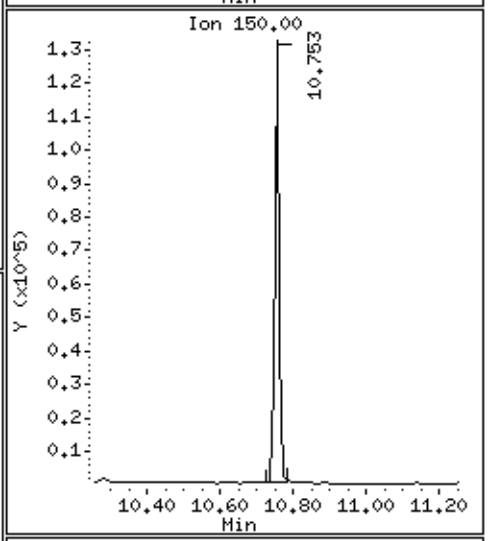


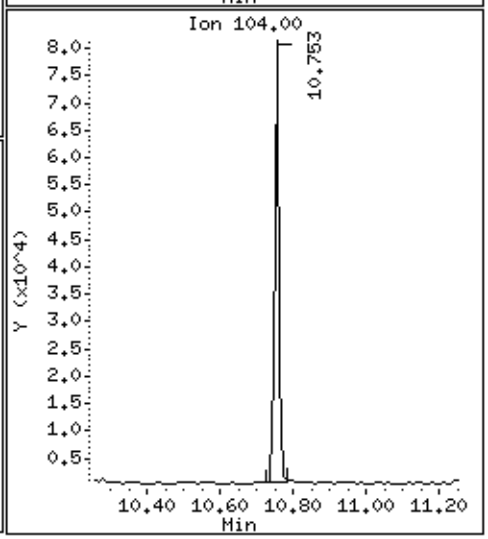












Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF03-070709BS

Lab ID#: 0907167B-09A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070709BS

Lab ID#: 0907167B-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071724**	**Date of Collection:**	**7/7/09 1/1/1990**
Dil. Factor:	**1.00**	**Date of Analysis:**	**7/17/09 09:17 PM**
		Date of Extraction:	**7/10/09**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.062	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.062	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.062	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.062	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.062	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	Not Detected	Not Detected
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.062	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.062	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070709BS

Lab ID#: 0907167B-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071724**	**Date of Collection:**	**7/7/09 1/1/1990**
Dil. Factor:	**1.00**	**Date of Analysis:**	**7/17/09 09:17 PM**
		Date of Extraction:	**7/10/09**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.062	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.062	Not Detected	Not Detected
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.062	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.062	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.062	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 80000
Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	83	50-150
Phenol-d5	87	50-150
Nitrobenzene-d5	80	50-150
2,4,6-Tribromophenol	72	50-150
Fluorene-d10	76	60-120
Pyrene-d10	81	60-120
Fluoranthene-d10	122	50-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070709BS

Lab ID#: 0907167B-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071724**	**Date of Collection: 7/7/09 1/1/1990**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 09:17 PM**
		Date of Extraction: 7/10/09

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	118	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/17jul09.b/v071724.d
Lab Smp Id: 0907167B-09A
Inj Date : 17-JUL-2009 21:17
Operator : rn Inst ID: msdv.i
Smp Info : ;0907167B-09A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/17jul09.b/bnap0716.m
Meth Date : 20-Jul-2009 10:04 lzhang Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1	2-Fluorophenol	112	2.835	2.836	(0.668)	349538	41.5199	41.52
$ 2	Phenol-d5	99	3.924	3.924	(0.924)	418455	43.7169	43.72
3	Phenol*	94	Compound Not Detected.					
4	bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5	2-Chlorophenol	128	Compound Not Detected.					
6	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7	1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	363849	40.0000	
9	1,4-Dichlorobenzene*	146	Compound Not Detected.					
11	1,2-Dichlorobenzene	146	Compound Not Detected.					
12	2-Methylphenol	108	Compound Not Detected.					
13	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14	4-Methylphenol	108	Compound Not Detected.					
15	N-Nitrosodipropylamine**	70	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug)
	16	Hexachloroethane	117	Compound Not Detected.					
$	17	Nitrobenzene-d5	82	5.012	5.012	(0.849)	394587	39.9818	39.98
	18	Nitrobenzene	77	Compound Not Detected.					
	19	Isophorone	82	Compound Not Detected.					
	20	2-Nitrophenol*	139	Compound Not Detected.					
	21	2,4-Dimethylphenol	122	Compound Not Detected.					
	23	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24	Benzoic Acid	122	Compound Not Detected.					
	25	2,4-Dichlorophenol*	162	Compound Not Detected.					
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27	Naphthalene-d8	136	5.903	5.903	(1.000)	952442	40.0000	
	28	Naphthalene	128	Compound Not Detected.					
	29	4-Chloroaniline	127	Compound Not Detected.					
	30	Hexachlorobutadiene*	225	Compound Not Detected.					
	32	4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33	2-Methylnaphthalene	142	Compound Not Detected.					
	145	1-Methylnaphthalene	142	Compound Not Detected.					
	35	Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36	2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37	2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39	2-Chloronaphthalene	162	Compound Not Detected.					
	40	2-Nitroaniline	65	Compound Not Detected.					
	42	Dimethylphthalate	163	Compound Not Detected.					
	45	Acenaphthylene	152	Compound Not Detected.					
	44	2,6-Dinitrotoluene	165	Compound Not Detected.					
	46	3-Nitroaniline	138	Compound Not Detected.					
*	47	Acenaphthene-d10	164	8.121	8.121	(1.000)	472179	40.0000	
	48	Acenaphthene*	154	Compound Not Detected.					
	49	2,4-Dinitrophenol**	184	Compound Not Detected.					
	50	4-Nitrophenol**	109	Compound Not Detected.					
	51	Dibenzofuran	168	Compound Not Detected.					
	52	2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147	Fluorene-d10	176	8.732	8.742	(1.075)	511248	37.9456	37.94
	56	Diethylphthalate	149	Compound Not Detected.					
	57	Fluorene	166	Compound Not Detected.					
	58	4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59	4-Nitroaniline	138	Compound Not Detected.					
	60	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61	N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62	2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	72766	36.2375	36.24
	65	4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66	Hexachlorobenzene	284	Compound Not Detected.					
	68	Pentachlorophenol*	266	Compound Not Detected.					
*	71	Phenanthrene-d10	188	9.882	9.882	(1.000)	836090	40.0000	
	72	Phenanthrene	178	Compound Not Detected.					
	73	Anthracene	178	Compound Not Detected.					
	78	Di-n-butylphthalate	149	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
80	Fluoranthene*	202	Compound Not Detected.					
$ 148	Pyrene-d10	212	11.582	11.592	(0.867)	679634	40.5541	40.55
81	Pyrene	202	Compound Not Detected.					
85	Butyl benzyl phthalate	149	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
* 90	Chrysene-d12	240	13.364	13.375	(1.000)	718224	40.0000	
89	3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
93	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
94	Di-n-octyl phthalate*	149	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
* 99	Perylene-d12	264	15.789	15.789	(1.000)	548845	40.0000	
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 83	Fluoranthene-d10	212	11.312	11.323	(1.145)	216712	12.1827	12.18
$ 101	Benzo(a)pyrene-d12	264	15.644	15.655	(0.991)	131397	11.8433	11.84

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071724.d
Lab Smp Id: 0907167B-09A
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 17-JUL-2009
Calibration Time: 11:17
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	335278	167639	670556	363849	8.52
27 Naphthalene-d8	773459	386730	1546918	952442	23.14
47 Acenaphthene-d10	359156	179578	718312	472179	31.47
71 Phenanthrene-d10	662052	331026	1324104	836090	26.29
90 Chrysene-d12	551895	275948	1103790	718224	30.14
99 Perylene-d12	409341	204670	818682	548845	34.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.24	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.36	-0.08
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

Report Date: 20-Jul-2009 10:47

Air Toxics Ltd.

RECOVERY REPORT

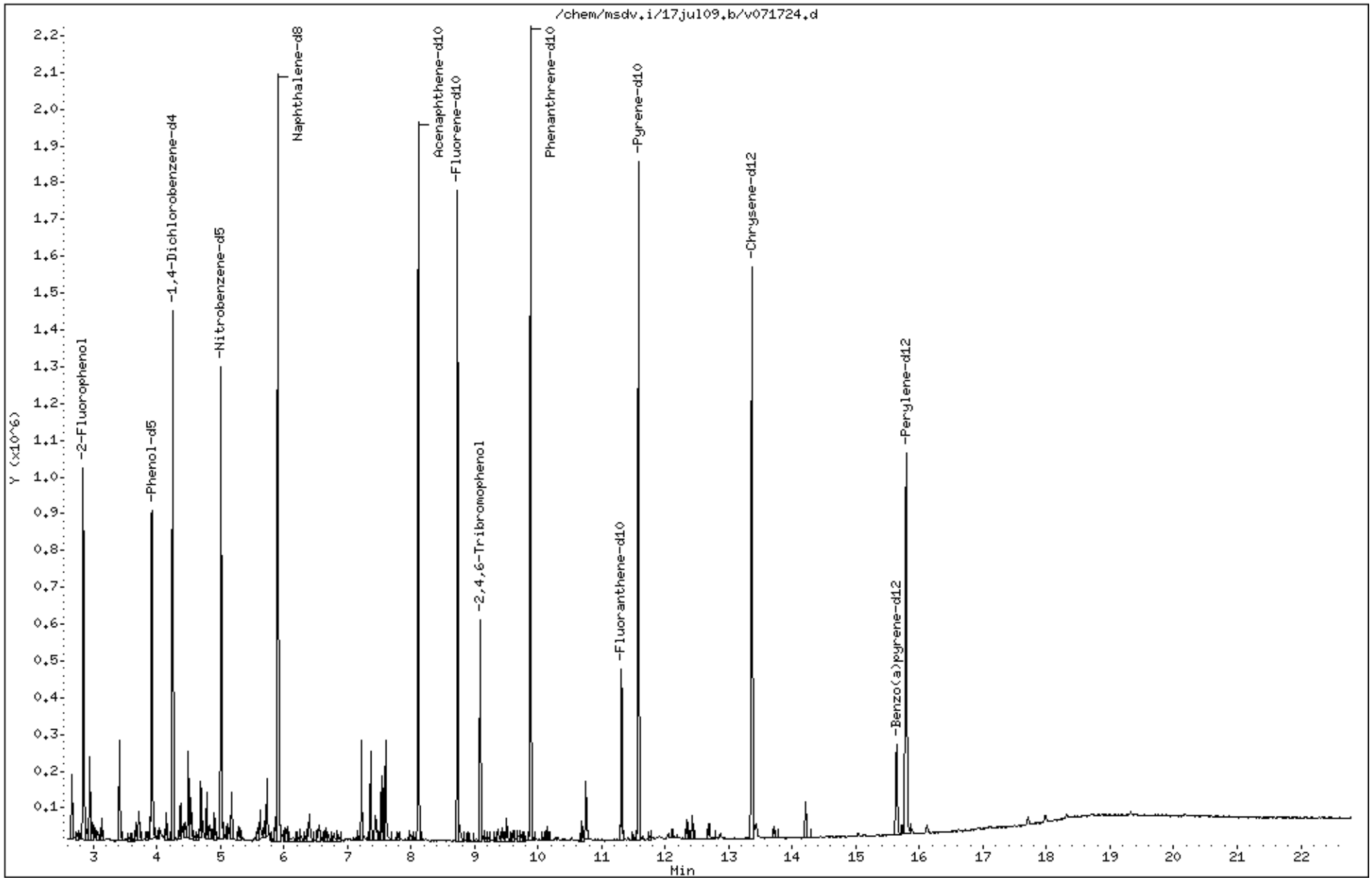
Client Name: Client SDG: 17jul09
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907167B-09A
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: TO13+fs.sub
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	41.52	83.04	50-150
$ 2 Phenol-d5	50.00	43.72	87.43	50-150
$ 17 Nitrobenzene-d5	50.00	39.98	79.96	50-150
$ 147 Fluorene-d10	50.00	37.94	75.89	60-120
$ 62 2,4,6-Tribromophen	50.00	36.24	72.47	50-150
$ 148 Pyrene-d10	50.00	40.55	81.11	60-120
$ 83 Fluoranthene-d10	10.00	12.18	121.83	50-150
$ 101 Benzo(a)pyrene-d12	10.00	11.84	118.43	50-150

0041

Data File: /chem/msdv.i/17jul09.b/v071724.d
Date : 17-JUL-2009 21:17
Client ID:
Sample Info: ;0907167B-09A;
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907167B-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071720**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 07:27 PM**	
		Date of Extraction: 7/10/09	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.062	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.062	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.062	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.062	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.062	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	Not Detected	Not Detected
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.062	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.062	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907167B-10A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071720**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 07:27 PM**	
		Date of Extraction: 7/10/09	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.062	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.062	Not Detected	Not Detected
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.062	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.062	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.062	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 80000
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	77	50-150
Phenol-d5	80	50-150
Nitrobenzene-d5	71	50-150
2,4,6-Tribromophenol	68	50-150
Fluorene-d10	74	60-120
Pyrene-d10	76	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/17jul09.b/v071720.d
Lab Smp Id: 0907167B/168B-Blank Client Smp ID: Lab Blank
Inj Date : 17-JUL-2009 19:27
Operator : rn Inst ID: msdv.i
Smp Info : ;0907167B/168B-Blank;Lab Blank
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/17jul09.b/bnap0716.m
Meth Date : 17-Jul-2009 11:51 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$	1 2-Fluorophenol	112	2.835	2.836	(0.668)	335163	38.4620	38.46
$	2 Phenol-d5	99	3.913	3.924	(0.922)	393953	39.7612	39.76
	3 Phenol*	94	Compound Not Detected.					
	4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	5 2-Chlorophenol	128	Compound Not Detected.					
	6 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	7 1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	376623	40.0000	
	9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
	11 1,2-Dichlorobenzene	146	Compound Not Detected.					
	12 2-Methylphenol	108	Compound Not Detected.					
	13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
	14 4-Methylphenol	108	Compound Not Detected.					
	15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
	16	Hexachloroethane	117	Compound Not Detected.					
$	17	Nitrobenzene-d5	82	5.012	5.012	(0.849)	361571	35.6009	35.60
	18	Nitrobenzene	77	Compound Not Detected.					
	19	Isophorone	82	Compound Not Detected.					
	20	2-Nitrophenol*	139	Compound Not Detected.					
	21	2,4-Dimethylphenol	122	Compound Not Detected.					
	23	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24	Benzoic Acid	122	Compound Not Detected.					
	25	2,4-Dichlorophenol*	162	Compound Not Detected.					
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27	Naphthalene-d8	136	5.903	5.903	(1.000)	980145	40.0000	
	28	Naphthalene	128	Compound Not Detected.					
	29	4-Chloroaniline	127	Compound Not Detected.					
	30	Hexachlorobutadiene*	225	Compound Not Detected.					
	32	4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33	2-Methylnaphthalene	142	Compound Not Detected.					
	145	1-Methylnaphthalene	142	Compound Not Detected.					
	35	Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36	2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37	2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39	2-Chloronaphthalene	162	Compound Not Detected.					
	40	2-Nitroaniline	65	Compound Not Detected.					
	42	Dimethylphthalate	163	Compound Not Detected.					
	45	Acenaphthylene	152	Compound Not Detected.					
	44	2,6-Dinitrotoluene	165	Compound Not Detected.					
	46	3-Nitroaniline	138	Compound Not Detected.					
*	47	Acenaphthene-d10	164	8.121	8.121	(1.000)	484036	40.0000	
	48	Acenaphthene*	154	Compound Not Detected.					
	49	2,4-Dinitrophenol**	184	Compound Not Detected.					
	50	4-Nitrophenol**	109	Compound Not Detected.					
	51	Dibenzofuran	168	Compound Not Detected.					
	52	2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147	Fluorene-d10	176	8.732	8.742	(1.075)	510240	36.9431	36.94
	56	Diethylphthalate	149	Compound Not Detected.					
	57	Fluorene	166	Compound Not Detected.					
	58	4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59	4-Nitroaniline	138	Compound Not Detected.					
	60	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61	N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62	2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	70294	34.1489	34.15
	65	4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66	Hexachlorobenzene	284	Compound Not Detected.					
	68	Pentachlorophenol*	266	Compound Not Detected.					
*	71	Phenanthrene-d10	188	9.882	9.882	(1.000)	869931	40.0000	
	72	Phenanthrene	178	Compound Not Detected.					
	73	Anthracene	178	Compound Not Detected.					
	78	Di-n-butylphthalate	149	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
80	Fluoranthene*	202	Compound Not Detected.					
$ 148	Pyrene-d10	212	11.582	11.592	(0.867)	650025	37.8982	37.90
81	Pyrene	202	Compound Not Detected.					
85	Butyl benzyl phthalate	149	Compound Not Detected.					
88	Benzo(a)Anthracene	228	Compound Not Detected.					
* 90	Chrysene-d12	240	13.364	13.375	(1.000)	735075	40.0000	
89	3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91	Chrysene	228	Compound Not Detected.					
93	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
94	Di-n-octyl phthalate*	149	Compound Not Detected.					
95	Benzo(b)fluoranthene	252	Compound Not Detected.					
96	Benzo(k)fluoranthene	252	Compound Not Detected.					
98	Benzo(a)pyrene*	252	Compound Not Detected.					
* 99	Perylene-d12	264	15.789	15.789	(1.000)	543154	40.0000	
103	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105	Benzo(g,h,i)perylene	276	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071720.d
Lab Smp Id: 0907167B/168B-Blank
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 17-JUL-2009
Calibration Time: 11:17
Client Smp ID: Lab Blank
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	335278	167639	670556	376623	12.33
27 Naphthalene-d8	773459	386730	1546918	980145	26.72
47 Acenaphthene-d10	359156	179578	718312	484036	34.77
71 Phenanthrene-d10	662052	331026	1324104	869931	31.40
90 Chrysene-d12	551895	275948	1103790	735075	33.19
99 Perylene-d12	409341	204670	818682	543154	32.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.24	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.36	-0.08
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

Report Date: 20-Jul-2009 09:37

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 17jul09
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907167B/168B-Blank Client Smp ID: Lab Blank
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: TO13.sub
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	38.46	76.92	50-150
$ 2 Phenol-d5	50.00	39.76	79.52	50-150
$ 17 Nitrobenzene-d5	50.00	35.60	71.20	50-150
$ 147 Fluorene-d10	50.00	36.94	73.89	60-120
$ 62 2,4,6-Tribromophen	50.00	34.15	68.30	50-150
$ 148 Pyrene-d10	50.00	37.90	75.80	60-120

Data File: /chem/msdv.i/17jul09.b/v071720.d

Date : 17-JUL-2009 19:27

Client ID: Lab Blank

Sample Info: ;0907167B/168B-Blank;Lab Blank

Volume Injected (uL): 1.0

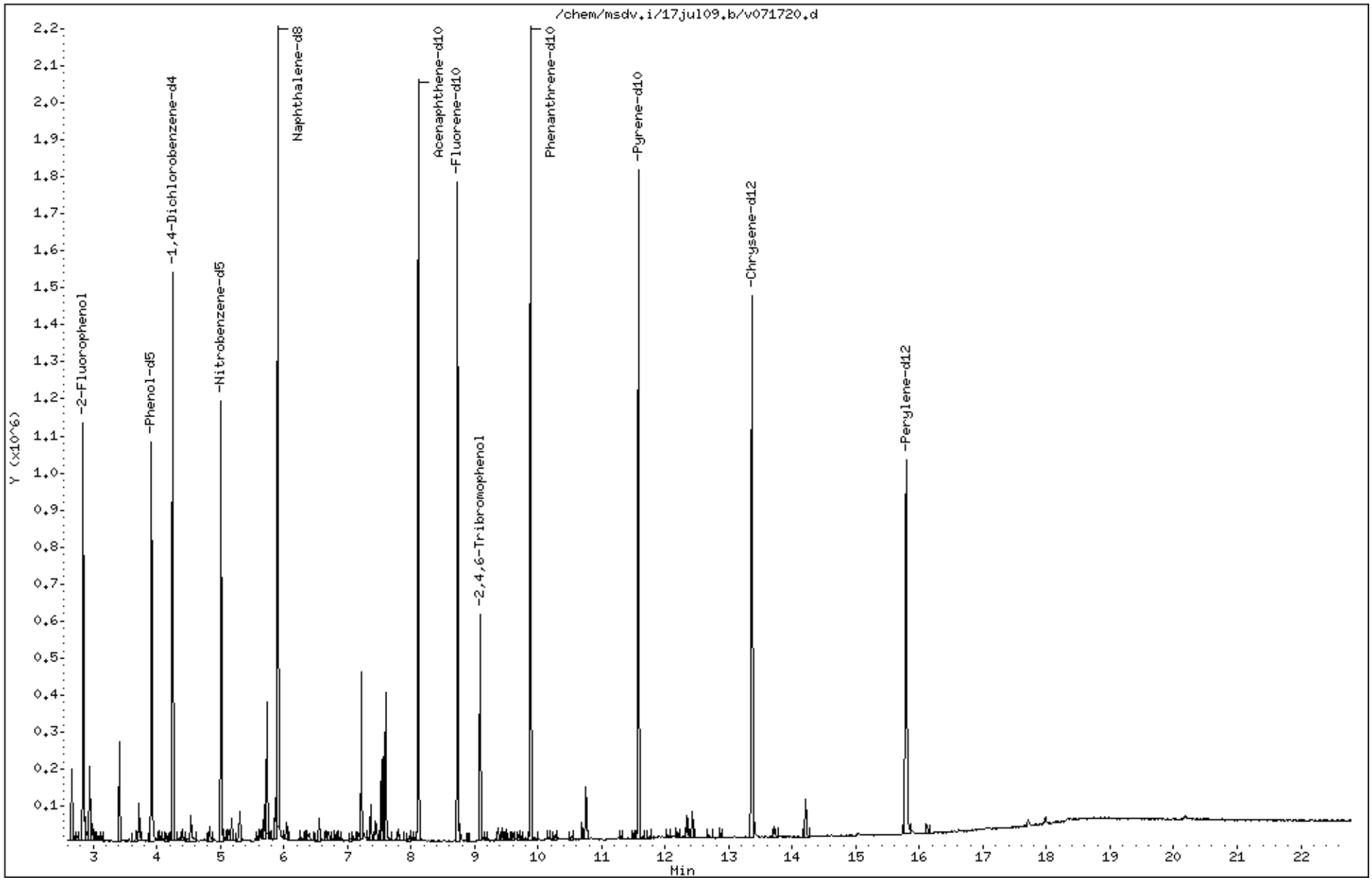
Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

0050



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0907167B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		2,4,6-Tribromophenol	#	Pyrene-d10	#	2-Fluorophenol	#	Nitrobenzene-d5	#	TOTAL OUT
01	OFF04-070709	92		89		94		92		0
02	OFF03-070709	86		83		86		89		0
03	OFF03-070709BS	72		81		83		80		0
04	Lab Blank	68		76		77		71		0
05	LCS	75		83		74		79		0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

2,4,6-Tribromophenol 50 - 150
Pyrene-d10 60 - 120
2-Fluorophenol 50 - 150
Nitrobenzene-d5 50 - 150

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0907167B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Phenol-d5	#	Fluorene-d10	#	Fluoranthene-d10	#	Benzo(a)pyrene-d12	#	TOTAL OUT
01	OFF04-070709	99		90		132		115		0
02	OFF03-070709	89		84		125		107		0
03	OFF03-070709BS	87		76		122		118		0
04	Lab Blank	80		74						0
05	LCS	79		77						0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

Phenol-d5 50 - 150
Fluorene-d10 60 - 120
Fluoranthene-d10 50 - 150
Benzo(a)pyrene-d12 50 - 150

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0907167B
Lab File ID: v071703.d
Date Analyzed: 07/17/2009
Instrument ID: msdv.i
Time Analyzed: 11:17 AM

		Naphthalene-d8 Area	#	RT	#	Acenaphthene-d12 Area	#	RT	#	Phenanthrene-d10 Area	#	RT	#
	24-HOUR STD	773459		5.9		359156		8.12		662052		9.88	
	UPPER LIMIT	1546918		06.23		718312		08.45		1324104		10.21	
	LOWER LIMIT	386730		05.57		179578		07.79		331026		09.55	
	CLIENT SAMPLE NO												
01	OFF04-070709	884379		5.9		447080		8.12		776071		9.88	
02	OFF03-070709	941447		5.9		469743		8.12		833195		9.88	
03	OFF03-070709BS	952442		5.9		472179		8.12		836090		9.88	
04	Lab Blank	980145		5.9		484036		8.12		869931		9.88	
05	LCS	966591		5.9		481206		8.12		849584		9.88	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+200% of internal standard area'
'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0907167B

Lab File ID: v071703.d | Date Analyzed: 07/17/2009

Instrument ID: msdv.i | Time Analyzed: 11:17 AM

		Perylene-d12 Area	#	RT	#	Chrysene-d12 Area	#	RT	#	1,4-Dichlorobenzene-d4 Area	#	RT	#
	24-HOUR STD	409341		15.79		551895		13.37		335278		4.24	
	UPPER LIMIT	818682		16.12		1103790		13.70		670556		04.57	
	LOWER LIMIT	204670		15.46		275948		13.04		167639		03.91	
	CLIENT SAMPLE NO												
01	OFF04-070709	506925		15.79		702361		13.36		349117		4.24	
02	OFF03-070709	544586		15.79		736770		13.36		367765		4.25	
03	OFF03-070709BS	548845		15.79		718224		13.36		363849		4.24	
04	Lab Blank	543154		15.79		735075		13.36		376623		4.24	
05	LCS	543295		15.79		718112		13.36		411838		4.25	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdv.i/16jul09a.b/v071607.d
Level 2: /chem/msdv.i/16jul09a.b/v071608.d
Level 3: /chem/msdv.i/16jul09a.b/v071609.d
Level 4: /chem/msdv.i/16jul09a.b/v071610.d
Level 5: /chem/msdv.i/16jul09a.b/v071611.d
Level 6: /chem/msdv.i/16jul09a.b/v071612.d
Level 7: /chem/msdv.i/16jul09a.b/v071613.d
Level 8: /chem/msdv.i/16jul09a.b/v071614.d
Level 9: /chem/msdv.i/16jul09a.b/v071615.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
3 Phenol*	+++++	1.37634	1.46526	1.43979	1.22020	1.27444		
	1.13677	1.11882	0.94758				1.24740	14.252
4 bis(2-Chloroethyl)ether	1.26591	1.28153	1.28772	1.21806	1.02294	1.10911		
	0.97425	0.93814	0.82948				1.10301	15.399
5 2-Chlorophenol	+++++	1.00748	1.07099	1.05170	0.90224	0.96419		
	0.85753	0.82766	0.70998				0.92397	13.348
6 1,3-Dichlorobenzene	1.26784	1.13835	1.17144	1.10337	0.92519	0.97979		
	0.85760	0.83036	0.69912				0.99701	18.646
9 1,4-Dichlorobenzene*	1.32598	1.17765	1.20183	1.14865	0.91976	1.00523		
	0.87036	0.84741	0.71411				1.02344	19.664
10 Benzyl Alcohol	0.56896	0.62538	0.68788	0.69748	0.61103	0.65871		
	0.56541	0.56643	0.46642				0.60530	12.015
11 1,2-Dichlorobenzene	1.23807	1.09078	1.11933	1.06003	0.85704	0.91546		
	0.79494	0.76235	0.61167				0.93885	21.502

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Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
12 2-Methylphenol	+++++	0.95897	1.02999	0.97519	0.84212	0.87382			
	0.75784	0.72623	0.62202				0.84827	16.452	
13 bis(2-Chloroisopropyl)ether	2.24464	2.02325	2.06151	1.94329	1.57619	1.62028			
	1.36477	1.27938	1.00046				1.67931	24.799	
14 4-Methylphenol	+++++	0.98654	1.07922	1.04187	0.86749	0.89698			
	0.76060	0.74351	0.60798				0.87302	18.580	
15 N-Nitrosodipropylamine**	0.79891	0.76313	0.81099	0.81467	0.69836	0.70585			
	0.61685	0.58270	0.46022				0.69463	17.423	
16 Hexachloroethane	0.54614	0.50105	0.49941	0.48496	0.39276	0.41192			
	0.35040	0.32922	0.26201				0.41976	22.578	
18 Nitrobenzene	0.44237	0.43282	0.48468	0.46188	0.41908	0.46980			
	0.45529	0.44709	0.44540				0.45093	4.362	
19 Isophorone	0.77690	0.77259	0.86227	0.86842	0.77622	0.84938			
	0.83520	0.84788	0.81365				0.82250	4.710	
20 2-Nitrophenol*	+++++	0.13852	0.16155	0.18126	0.16720	0.19403			
	0.19077	0.19768	0.19070				0.17771	11.502	
21 2,4-Dimethylphenol	+++++	0.32197	0.36196	0.36437	0.30862	0.35446			
	0.34483	0.34103	0.31204				0.33866	6.495	
22 N-nitrosodimethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
23 bis(2-Chloroethoxy)methane	0.53121	0.52671	0.55867	0.55330	0.47431	0.54046			
	0.50637	0.51128	0.48061				0.52032	5.723	
24 Benzoic Acid	+++++	+++++	+++++	0.13517	0.15094	0.17301			
	0.19801	0.20734	0.21358				0.17968	17.778	
25 2,4-Dichlorophenol*	+++++	0.24963	0.26235	0.27519	0.24183	0.26961			
	0.25813	0.26158	0.23225				0.25632	5.584	
26 1,2,4-Trichlorobenzene	0.37778	0.34872	0.36318	0.34522	0.29899	0.33146			
	0.30897	0.29959	0.27428				0.32758	10.436	
28 Naphthalene	1.37803	1.23240	1.25876	1.22007	1.03865	1.14909			
	1.04998	1.04733	0.97798				1.15026	11.421	
29 4-Chloroaniline	+++++	+++++	0.52003	0.52104	0.46414	0.51283			
	0.47313	0.47069	0.45669				0.48836	5.794	
30 Hexachlorobutadiene*	0.18702	0.17665	0.17920	0.17737	0.14752	0.17407			
	0.15971	0.15732	0.14369				0.16695	9.157	
150 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
32 4-Chloro-3-Methylphenol*	+++++	0.27949	0.29506	0.31927	0.28913	0.33230			
	0.31284	0.32351	0.31078				0.30780	5.921	
33 2-Methylnaphthalene	0.74581	0.69766	0.71414	0.71375	0.60652	0.66719			
	0.61529	0.62447	0.55348				0.65981	9.603	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
145 1-Methylnaphthalene	0.79901	0.73041	0.76406	0.73535	0.62678	0.68083			
	0.63084	0.62512	0.58497				0.68637	10.776	
35 Hexachlorocyclopentadiene**	+++++	+++++	+++++	0.34136	0.31225	0.39317			
	0.37836	0.39213	0.36261				0.36331	8.737	
36 2,4,6-Trichlorophenol*	+++++	0.31985	0.36156	0.38456	0.34540	0.40225			
	0.38544	0.39118	0.34929				0.36744	7.633	
37 2,4,5-Trichlorophenol	+++++	0.35007	0.41058	0.44759	0.38811	0.40388			
	0.38878	0.38297	0.36039				0.39154	7.746	
39 2-Chloronaphthalene	1.39617	1.32513	1.39738	1.38778	1.15945	1.33295			
	1.20356	1.17470	1.07654				1.27263	9.466	
40 2-Nitroaniline	+++++	0.37567	0.46659	0.52380	0.48935	0.57283			
	0.52693	0.55028	0.51104				0.50206	12.115	
41 Aniline	1.80445	1.68759	1.81779	1.76632	1.50599	1.61095			
	1.45382	1.42364	1.23240				1.58922	12.586	
42 Dimethylphthalate	+++++	1.38741	1.44840	1.46192	1.22463	1.36992			
	1.26304	1.18689	1.04014				1.29779	11.208	
43 Bicyclo[2.2.1]hepta-2,5-diene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
44 2,6-Dinitrotoluene	+++++	0.28034	0.32833	0.34375	0.30357	0.34513			
	0.33735	0.33974	0.29301				0.32140	7.899	

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
45 Acenaphthylene	2.08001	2.17701	2.32091	2.25077	1.93117	2.21336			
	1.96851	1.89037	1.55213				2.04269	11.624	
46 3-Nitroaniline	+++++	+++++	0.39771	0.40574	0.38413	0.44651			
	0.40649	0.44587	0.39101				0.41107	6.141	
149 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
48 Acenaphthene*	1.48099	1.34539	1.38646	1.33518	1.15658	1.30255			
	1.15580	1.12861	1.01951				1.25679	11.807	
49 2,4-Dinitrophenol**	+++++	+++++	+++++	0.08967	0.11060	0.14875			
	0.18315	0.18835	0.19822				0.15312	29.249	
50 4-Nitrophenol**	+++++	+++++	+++++	0.18489	0.19297	0.22980			
	0.23921	0.24338	0.24395				0.22237	11.924	
51 Dibenzofuran	1.92299	1.81177	1.89988	1.86129	1.58702	1.80410			
	1.60228	1.57066	1.46542				1.72505	9.774	
52 2,4-Dinitrotoluene	+++++	0.33353	0.41018	0.44352	0.40454	0.45270			
	0.43801	0.44814	0.42317				0.41922	9.263	
53 1-Chloro-3,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
54 2-Methyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
55 N,N-Dimethyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
56 Diethylphthalate	+++++	1.41557	1.53247	1.52830	1.30240	1.47426			
	1.35132	1.32193	1.15972				1.38575	9.204	
57 Fluorene	1.55951	1.43671	1.49657	1.50787	1.28306	1.39382			
	1.25796	1.23978	1.06156				1.35965	11.837	
58 4-Chlorophenyl phenyl ether	0.78993	0.70203	0.69615	0.67942	0.57908	0.65724			
	0.60339	0.58070	0.48472				0.64141	13.944	
151 2-Methylthiobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
59 4-Nitroaniline	+++++	+++++	0.39656	0.43023	0.39936	0.45303			
	0.44511	0.43378	0.43604				0.42773	5.078	
155 2-Aminobenothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
60 4,6-Dinitro-2-methylphenol	+++++	+++++	0.06764	0.09169	0.09425	0.11453			
	0.11212	0.12650	0.12696				0.10481	20.516	
61 N-nitrosodiphenylamine*	+++++	+++++	0.69809	0.66490	0.57702	0.64772			
	0.54239	0.56327	0.48691				0.59718	12.613	
152 2-Hydroxybenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

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Integrator : HP RTE
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Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
63 2,4-Dimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
64 N,N,4-Trimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
65 4-Bromophenyl phenyl ether	0.19710	0.19782	0.21012	0.21170	0.17380	0.19502			
	0.17875	0.18449	0.16737				0.19069	8.165	
66 Hexachlorobenzene	0.25733	0.24118	0.24300	0.23405	0.20287	0.22432			
	0.20629	0.21351	0.19002				0.22362	9.864	
67 Cumene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
144 Carbazole	2.18908	2.26174	2.43759	2.36638	2.12828	2.11635			
	1.77819	1.75785	1.50641				2.06021	15.145	
68 Pentachlorophenol*	+++++	+++++	+++++	0.07846	0.08329	0.10365			
	0.09863	0.10616	0.10597				0.09603	12.644	
69 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
70 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
72 Phenanthrene	1.36287	1.27622	1.27634	1.23152	1.05403	1.14657			
	0.98065	1.01476	0.92932				1.14136	13.434	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
73 Anthracene	1.16294	1.11600	1.24548	1.21369	1.05104	1.12228			
	1.00302	1.03870	0.91061				1.09597	9.683	
74 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
76 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
78 Di-n-butylphthalate	+++++	1.04265	1.22222	1.27864	1.14105	1.31032			
	1.18189	1.23544	1.13060				1.19285	7.300	
153 2-Mercaptobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
154 2-Morpholinothiobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
79 Lindane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
80 Fluoranthene*	1.09888	1.10865	1.16797	1.14059	0.97802	1.07113			
	0.93766	0.96237	0.89030				1.03951	9.523	
81 Pyrene	1.45427	1.49211	1.51935	1.44919	1.22119	1.35334			
	1.26869	1.25696	1.12484				1.34888	10.224	
84 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
85 Butyl benzyl phthalate	+++++	0.39113	0.49349	0.56015	0.52457	0.64737			
	0.64874	0.66595	0.62868				0.57001	16.885	
86 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
87 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
88 Benzo(a)Anthracene	1.11341	1.12369	1.25472	1.26208	1.12045	1.27242			
	1.25067	1.24025	1.16683				1.20050	5.667	
89 3 3'-Dichlorobenzidine	+++++	+++++	+++++	0.38497	0.34402	0.41308			
	0.40343	0.41118	0.36634				0.38717	7.133	
91 Chrysene	1.90703	1.42604	1.36310	1.30455	1.08670	1.21925			
	1.15023	1.14181	1.04521				1.29377	20.311	
92 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
93 bis(2-ethylhexyl)Phthalate	+++++	0.54213	0.70049	0.79403	0.72599	0.89035			
	0.90194	0.93175	0.87562				0.79529	16.693	
94 Di-n-octyl phthalate*	+++++	0.88250	1.19005	1.49198	1.49507	1.79925			
	1.93242	1.98180	1.91302				1.58576	24.974	
95 Benzo(b)fluoranthene	1.16156	1.42766	1.52845	1.54266	1.31749	1.65855			
	1.49664	1.63738	1.62295				1.48815	10.980	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
96 Benzo(k)fluoranthene	1.54556	1.69706	1.76671	1.80090	1.61107	1.66576			
	1.74038	1.56651	1.32281				1.63520	8.954	
97 Benzo(e)pyrene	1.21816	1.30862	1.42145	1.45168	1.25925	1.43014			
	1.37640	1.36542	1.30718				1.34870	5.975	
98 Benzo(a)pyrene*	1.22726	1.48484	1.58696	1.57547	1.35565	1.55684			
	1.49611	1.47861	1.41638				1.46424	7.931	
103 Indeno(1,2,3-cd)pyrene	0.80099	1.07557	1.19257	1.29690	1.16300	1.42951			
	1.37886	1.37197	1.39001				1.23327	16.366	
104 Dibenzo(a,h)anthracene	0.96758	1.26229	1.32585	1.40270	1.25287	1.38780			
	1.42597	1.31616	1.28495				1.29180	10.558	
105 Benzo(g,h,i)perylene	1.23140	1.42367	1.49675	1.53279	1.37495	1.58340			
	1.52698	1.51002	1.46646				1.46071	7.250	
106 3,3'-Dimethoxybenzidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
139 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
140 Perylene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
143 Coronene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
141 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 1 2-Fluorophenol	+++++	1.03010	1.04839	1.05329	0.88900	0.95778			
	0.85664	0.84202	0.72678				0.92550	12.650	
$ 2 Phenol-d5	+++++	1.22384	1.25585	1.20071	1.00610	1.07134			
	0.93765	0.92395	0.79894				1.05230	15.623	
$ 8 13C-Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 17 Nitrobenzene-d5	0.37778	0.39736	0.43224	0.43465	0.38486	0.43734			
	0.42332	0.43011	0.41264				0.41448	5.454	
$ 31 d4-1,4-dibromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 146 2-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 34 1-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 38 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 62 2,4,6-Tribromophenol	+++++	0.13757	0.16174	0.17534	0.15837	0.18516			
	0.18048	0.18460	0.17761				0.17011	9.671	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
$ 75 13c-Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 77 d10-Anthracene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 82 Terphenyl-d14	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 83 Fluoranthene-d10	0.80278	0.79851	0.88096	0.88220	0.92498	0.81677			
	+++++	+++++	+++++				0.85103	6.127	
$ 100 Benzo(e)pyrene-d12	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 101 Benzo(a)pyrene-d12	0.58459	0.73438	0.83560	0.88774	0.93762	0.87154			
	+++++	+++++	+++++				0.80858	15.962	
$ 102 d12-Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 142 1,3,5-Trichlorobenzene-d3	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 147 Fluorene-d10	1.20114	1.18564	1.23008	1.24570	1.06418	1.21135			
	1.08873	1.07284	0.97261				1.14136	8.259	
$ 148 Pyrene-d10	0.94948	0.97475	1.05081	1.00195	0.85378	0.95213			
	0.89476	0.89566	0.82676				0.93334	7.711	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 11.8363571
Maximun Average %RSD = 15
* Passed Average %RSD Test.

Calibration History

Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Start Cal Date: 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
16-JUL-2009 15:05	1ng	/chem/msdv.i/16jul09a.b/v071607.d
Cal Level: 2 , Cal Amount: 5.00000		
16-JUL-2009 15:33	5ng	/chem/msdv.i/16jul09a.b/v071608.d
Cal Level: 3 , Cal Amount: 10.00000		
16-JUL-2009 16:01	10ng	/chem/msdv.i/16jul09a.b/v071609.d
Cal Level: 4 , Cal Amount: 20.00000		
16-JUL-2009 16:28	20ng	/chem/msdv.i/16jul09a.b/v071610.d
Cal Level: 5 , Cal Amount: 40.00000		
16-JUL-2009 16:56	50ng	/chem/msdv.i/16jul09a.b/v071611.d
Cal Level: 6 , Cal Amount: 50.00000		
16-JUL-2009 17:23	50ccv	/chem/msdv.i/16jul09a.b/v071612.d
Cal Level: 7 , Cal Amount: 80.00000		
16-JUL-2009 17:51	160ng	/chem/msdv.i/16jul09a.b/v071613.d
Cal Level: 8 , Cal Amount: 100.00000		
16-JUL-2009 18:19	160ng	/chem/msdv.i/16jul09a.b/v071614.d

Cal Level: 9 , Cal Amount: 160.00000		
16-JUL-2009 18:46	160ng	/chem/msdv.i/16jul09a.b/v071615.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.00		
16-JUL-2009 17:23	50ccv	/chem/msdv.i/16jul09a.b/v071612.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 16-JUL-2009 15:05
End Cal Date : 16-JUL-2009 18:46
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/16jul09a.b/bnap0716.m
Cal Date : 17-Jul-2009 09:48 rnoonan
Curve Type : Average

Second source: V071616

2,4-Dinitrophenol - %RSD>20% but <30%. Acceptable TO13, not 8270c

Calibration File Names:
Level 1: /chem/msdv.i/16jul09a.b/v071607.d
Level 2: /chem/msdv.i/16jul09a.b/v071608.d
Level 3: /chem/msdv.i/16jul09a.b/v071609.d
Level 4: /chem/msdv.i/16jul09a.b/v071610.d
Level 5: /chem/msdv.i/16jul09a.b/v071611.d
Level 6: /chem/msdv.i/16jul09a.b/v071612.d
Level 7: /chem/msdv.i/16jul09a.b/v071613.d
Level 8: /chem/msdv.i/16jul09a.b/v071614.d
Level 9: /chem/msdv.i/16jul09a.b/v071615.d

7/17/09

Based on 1 uL injection in DCM

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
unit in ng/mL or ng on column	80.000 Level 7	100.000 Level 8	160.000 Level 9						
3 Phenol*	+++++	1.37634	1.46526	1.43979	1.22020	1.27444			
	1.13677	1.11882	0.94758				1.24740	14.252	CCC
4 bis(2-Chloroethyl)ether	1.26591	1.28153	1.28772	1.21806	1.02294	1.10911			
	0.97425	0.93814	0.82948				1.10301	15.399	RRM 7/19/09
5 2-Chlorophenol	+++++	1.00748	1.07099	1.05170	0.90224	0.96419			
	0.85753	0.82766	0.70998				0.92397	13.348	
6 1,3-Dichlorobenzene	1.26784	1.13835	1.17144	1.10337	0.92519	0.97979			
	0.85760	0.83036	0.69912				0.99701	18.646	
9 1,4-Dichlorobenzene*	1.32598	1.17765	1.20183	1.14865	0.91976	1.00523			
	0.87036	0.84741	0.71411				1.02344	19.664	CCC
10 Benzyl Alcohol	0.56896	0.62538	0.68788	0.69748	0.61103	0.65871			
	0.56541	0.56643	0.46642				0.60530	12.015	
11 1,2-Dichlorobenzene	1.23807	1.09078	1.11933	1.06003	0.85704	0.91546			
	0.79494	0.76235	0.61167				0.93885	21.502	

Initial Calibration Narrative

A nine point initial calibration was analyzed on MSD-V on 7/16/09. 2,4-Dinitrophenol an SPCC compound for 8270c was found to have %RSD >20% but <30%. The %RSD is acceptable for TO-13A analysis.

Report Date: 16-Jul-2009 14:35

RM 7/17/09

Air Toxics Ltd.

Performance Check for 8270C

Data file : /chem/msdv.i/16Jul2009.b/v071605a.d
Lab Smp Id: DFTPP 50ng Client Smp ID: Breakdown
Inj Date : 16-JUL-2009 14:19
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10C-50;
Misc Info :
Comment :
Method : /chem/msdv.i/16Jul2009.b/BREAK.m
Meth Date : 18-May-2009 13:40 rnoonan Quant Type: ESTD
Cal Date : 20-OCT-2004 08:05 Cal File: p102001a.d
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	CONCENTRATIONS FINAL (ug)
M 1 Total DDT				439696	18.2967	
2 Pentachlorophenol	4.372	4.631	-0.259	210170	18.0589	
3 Benzidine	6.610	6.890	-0.280	353613	11.4405	
4 p,p'-DDE	Compound Not Detected.					
5 p,p'-DDD	Compound Not Detected.					
6 p,p'-DDT	7.978	7.978	0.000	439696	18.2967	

Breakdown = $\frac{0+0}{439696} \times 100 = 0\%$

MSD-V Run Log

@Air Toxics Ltd.

Logbook#: 1837

Method: TO15A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	56.53
68	Less than 2.00% of mass 69	0.35 (0.69) 1
69	Less than 99.90% of mass 198	50.48
70	Less than 2.00% of mass 69	0.00 (0.00) 1
127	40.00 – 60.00% of mass 198	58.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	20.53
365	Greater than 1.00% of mass 198	2.38
441	Present, but less than mass 443	9.02
442	40.00 - 100.00% of mass 198	61.17
443	17.00 - 23.00% of mass 442	11.72 (19.16) 2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-V

DFTPP File ID: V071605

DFTPP Injection Date: 7/16/09

DFTPP Injection Time 1419

IS#	Area Counts
1,4-Dichlorobenzene-d_4:	344510
Naphthalene-d_8:	803185
Acenaphthene-d_{10}:	364531
Phenanthrene-d_{10}:	1686990
Chrysene-d_{12}:	1791675
Perylene-d_{12}:	1439467

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	X	V071601	DCM Wash	1	1.0	7/16/09	~~1419~~	nm	Time Analyzed = 0919
2	X	02	1685-10C-50	2			1438		= 1000
3	X	03	1685-124-4 Sim CCV	3			1505 nm 7/17/09		= 1241
4	X	04	DCM Blank Sim	4			1308		
5	✓	05	1685-10C-50	2			1419		Breakdown 0%
6	✓	06	DCM Blank	3			1438		
7	✓	07	1685-171-1	4			1505		Level 1
8	✓	08	-5	5			1533		Level 2
9	✓	09	-10	6			1601		Level 3
10	✓	10	-20	7			1628		Level 4
11	✓	11	-40	8			1656		Level 5
12	✓	12	-50	9			1723		Level 6, CCV
13	✓	13	-80	10			1751		Level 7
14	✓	14	-100	11			1819		Level 8
15	✓	15	-160	12			1846		Level 9
16	✓	16	1685-155-50 LCS	13			1914		LCS
17	✓	17	DCM Blank	14			1941		
18									
19									
20									
21									
22								nm 7/17/09	

Calculation Check:

ng of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{548823}{344510}$ × $\frac{40.0}{1.24740}$ = 51.08

344510 nm 7/17/09

File ID: V071612

Compound: phenol

Initials: nm

7/17/09

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071616.d
Lab Smp Id: 1685-155-50 Client Smp ID: LCS
Inj Date : 16-JUL-2009 19:14
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-155-50;LCS
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 10:00 lzhang Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: second.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
3	Phenol*	94	3.934	3.934	(0.927)	586696	50.2332	50.23
41	Aniline	93	3.892	3.893	(0.917)	744025	50.0019	50.00
4	bis(2-Chloroethyl)ether	93	3.996	3.986	(0.941)	499463	48.3621	48.36
5	2-Chlorophenol	128	4.038	4.038	(0.951)	433699	50.1318	50.13
6	1,3-Dichlorobenzene	146	4.203	4.204	(0.990)	473899	50.7656	50.76
* 7	1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	374522	40.0000	
9	1,4-Dichlorobenzene*	146	4.266	4.266	(1.005)	472382	49.2961	49.30
10	Benzyl Alcohol	108	4.494	4.494	(1.059)	312314	55.1064	55.11
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	446689	50.8149	50.81
12	2-Methylphenol	108	4.701	4.701	(1.107)	401811	50.5905	50.59
13	bis(2-Chloroisopropyl)ether	45	4.711	4.711	(1.110)	719598	45.7659	45.76
14	4-Methylphenol	108	4.898	4.908	(1.154)	400009	48.9357	48.94
15	N-Nitrosodipropylamine**	70	4.887	4.888	(1.151)	333216	51.2334	51.23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	16 Hexachloroethane	117	4.908	4.908	(1.156)	200736	51.0744	51.07
	18 Nitrobenzene	77	5.043	5.043	(0.853)	536436	53.6966	53.70
	19 Isophorone	82	5.354	5.354	(0.905)	993080	54.4991	54.50
	20 2-Nitrophenol*	139	5.457	5.457	(0.923)	211157	53.6322	53.63
	21 2,4-Dimethylphenol	122	5.582	5.582	(0.944)	361786	48.2201	48.22
	24 Benzoic Acid	122	5.799	5.789	(0.981)	226891	56.9990	57.00
	23 bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.963)	566885	49.1772	49.18
	25 2,4-Dichlorophenol*	162	5.779	5.779	(0.977)	290740	51.1990	51.20
	26 1,2,4-Trichlorobenzene	180	5.872	5.872	(0.993)	359428	49.5268	49.53
*	27 Naphthalene-d8	136	5.913	5.913	(1.000)	886172	40.0000	
	28 Naphthalene	128	5.934	5.934	(1.004)	1211999	47.5608	47.56
	29 4-Chloroaniline	127	6.069	6.069	(1.026)	559869	51.7469	51.75
	30 Hexachlorobutadiene*	225	6.203	6.204	(1.049)	187861	50.7919	50.79
	32 4-Chloro-3-Methylphenol*	107	6.742	6.743	(1.140)	357518	52.4294	52.43
	33 2-Methylnaphthalene	142	6.815	6.815	(1.152)	764817	52.3213	52.32
	145 1-Methylnaphthalene	142	6.950	6.950	(1.175)	729451	47.9708	47.97
	35 Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	194316	52.1060	52.11
	36 2,4,6-Trichlorophenol*	196	7.229	7.240	(0.890)	202960	53.8124	53.81
	37 2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	205054	51.0209	51.02
	39 2-Chloronaphthalene	162	7.416	7.416	(0.913)	697833	53.4207	53.42
	40 2-Nitroaniline	65	7.613	7.613	(0.937)	292753	56.8073	56.81
	42 Dimethylphthalate	163	7.913	7.914	(0.974)	688822	51.7084	51.71
	44 2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	177998	53.9544	53.95
	45 Acenaphthylene	152	7.924	7.924	(0.976)	1083367	51.6693	51.67
	46 3-Nitroaniline	138	8.131	8.131	(1.001)	231281	54.8136	54.81
*	47 Acenaphthene-d10	164	8.121	8.121	(1.000)	410582	40.0000	
	48 Acenaphthene*	154	8.162	8.162	(1.005)	635929	49.2955	49.30
	49 2,4-Dinitrophenol**	184	8.245	8.256	(1.015)	81844	52.0719	52.07
	50 4-Nitrophenol**	109	8.400	8.411	(1.034)	118737	52.0210	52.02
	51 Dibenzofuran	168	8.359	8.359	(1.029)	917710	51.8281	51.83
	52 2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	248959	57.8552	57.86
	56 Diethylphthalate	149	8.784	8.784	(1.082)	756360	53.1746	53.17
	58 4-Chlorophenyl phenyl ether	204	8.805	8.805	(1.084)	326228	49.5505	49.55
	57 Fluorene	166	8.773	8.774	(1.080)	708014	50.7313	50.73
	59 4-Nitroaniline	138	8.877	8.877	(1.093)	241976	55.1139	55.11
	60 4,6-Dinitro-2-methylphenol	198	8.929	8.929	(0.904)	112837	54.4211	54.42
	61 N-nitrosodiphenylamine*	169	8.970	8.971	(0.908)	507474	42.9572	42.96
	65 4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	181903	48.2226	48.22
	66 Hexachlorobenzene	284	9.530	9.530	(0.964)	229085	51.7864	51.79
	68 Pentachlorophenol*	266	9.768	9.769	(0.988)	100940	53.1359	53.14
*	71 Phenanthrene-d10	188	9.882	9.883	(1.000)	791278	40.0000	
	72 Phenanthrene	178	9.913	9.914	(1.003)	1060102	46.9520	46.95(H)
	73 Anthracene	178	9.965	9.965	(1.008)	1064430	49.0962	49.10
	144 Carbazole	167	10.193	10.193	(2.401)	1028791	53.3333	53.33
	78 Di-n-butylphthalate	149	10.753	10.753	(1.088)	1255803	53.2190	53.22
	80 Fluoranthene*	202	11.344	11.344	(1.148)	1058075	51.4541	51.45
	81 Pyrene	202	11.603	11.613	(0.868)	1089359	49.2398	49.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	85 Butyl benzyl phthalate	149	12.680	12.691	(0.948)	536153	57.3490	57.35
	89 3 3'-Dichlorobenzidine	252	13.395	13.396	(1.002)	340747	53.6597	53.66
	88 Benzo(a)Anthracene	228	13.344	13.344	(0.998)	1007630	51.1750	51.17
*	90 Chrysene-d12	240	13.375	13.375	(1.000)	656056	40.0000	
	91 Chrysene	228	13.416	13.416	(1.003)	987393	46.5320	46.53
	93 bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	725925	55.6527	55.65
	94 Di-n-octyl phthalate*	149	14.805	14.805	(0.938)	1156258	58.9380	58.94
	95 Benzo(b)fluoranthene	252	15.167	15.168	(0.961)	1022046	55.5140	55.51
	96 Benzo(k)fluoranthene	252	15.209	15.209	(0.963)	1008203	49.8376	49.84
	97 Benzo(e)pyrene	252	15.613	15.613	(0.989)	913162	54.7282	54.73
	98 Benzo(a)pyrene*	252	15.696	15.696	(0.994)	887001	48.9657	48.96(H)
*	99 Perylene-d12	264	15.789	15.789	(1.000)	494859	40.0000	
	103 Indeno(1,2,3-cd)pyrene	276	17.541	17.530	(1.111)	858907	56.2948	56.29
	104 Dibenzo(a,h)anthracene	278	17.592	17.593	(1.114)	796218	49.8214	49.82
	105 Benzo(g,h,i)perylene	276	17.914	17.914	(1.135)	960713	53.1627	53.16

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071616.d
Lab Smp Id: 1685-155-50
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: LCS
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	374522	8.71
27 Naphthalene-d8	803185	401592	1606370	886172	10.33
47 Acenaphthene-d10	364531	182266	729062	410582	12.63
71 Phenanthrene-d10	686990	343495	1373980	791278	15.18
90 Chrysene-d12	579675	289838	1159350	656056	13.18
99 Perylene-d12	439467	219734	878934	494859	12.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.24	-0.01
27 Naphthalene-d8	5.91	5.41	6.41	5.91	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

Report Date: 17-Jul-2009 10:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 16jul09a
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1685-155-50 Client Smp ID: LCS
Level: LOW Operator: rn
Data Type: MS DATA SampleType: LCS
SpikeList File: 8270sec.spk Quant Type: ISTD
Sublist File: second.sub
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

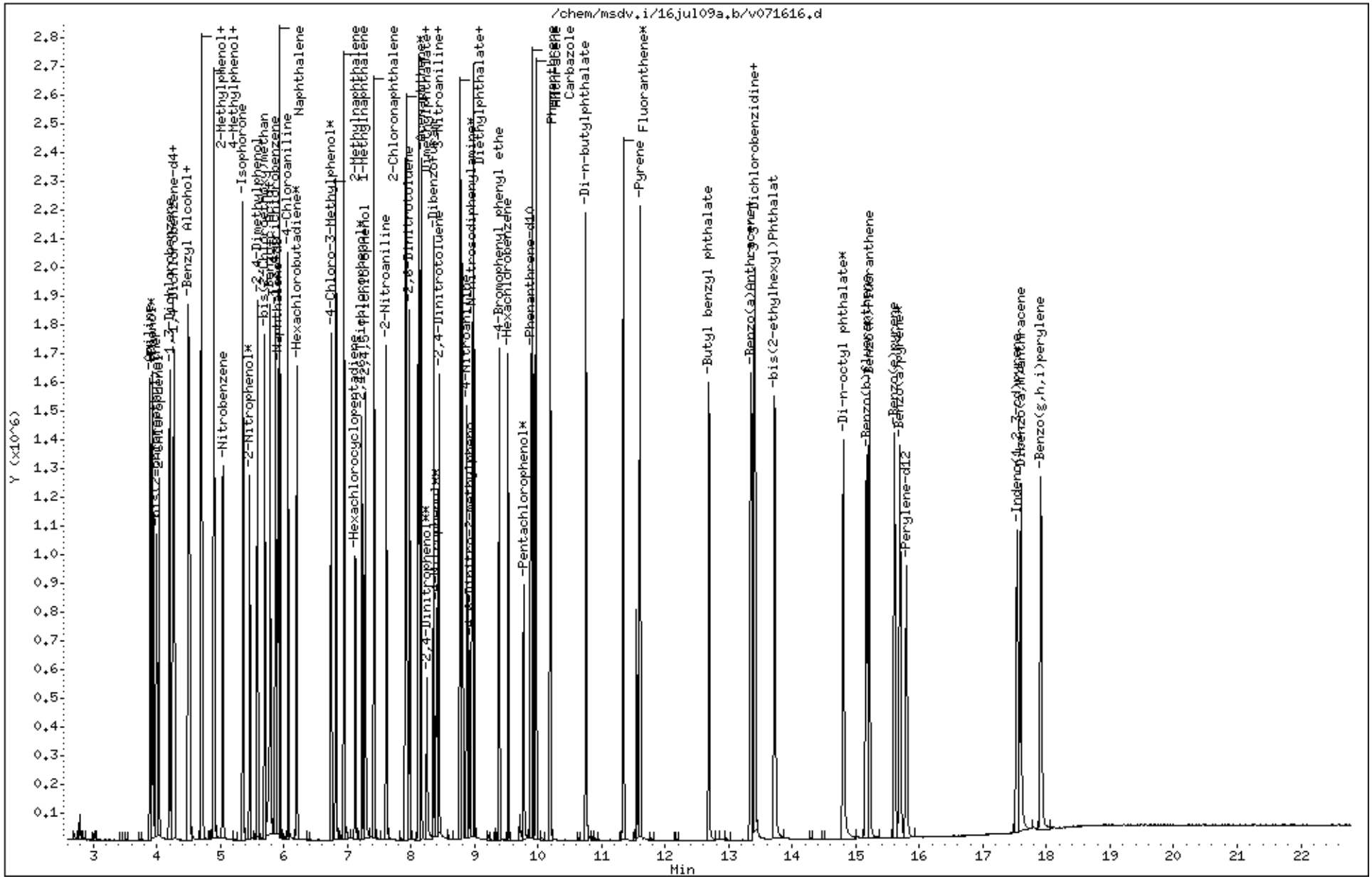
SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3 Phenol*	50.00	50.23	100.47	70-130
4 bis(2-Chloroethyl)	50.00	48.36	96.72	70-130
5 2-Chlorophenol	50.00	50.13	100.26	70-130
6 1,3-Dichlorobenzen	50.00	50.76	101.53	70-130
9 1,4-Dichlorobenzen	50.00	49.30	98.59	70-130
10 Benzyl Alcohol	50.00	55.11	110.21	70-130
11 1,2-Dichlorobenzen	50.00	50.81	101.63	70-130
12 2-Methylphenol	50.00	50.59	101.18	70-130
13 bis(2-Chloroisopro	50.00	45.76	91.53	70-130
14 4-Methylphenol	50.00	48.94	97.87	70-130
15 N-Nitrosodipropyla	50.00	51.23	102.47	70-130
16 Hexachloroethane	50.00	51.07	102.15	70-130
18 Nitrobenzene	50.00	53.70	107.39	70-130
19 Isophorone	50.00	54.50	109.00	70-130
20 2-Nitrophenol*	50.00	53.63	107.26	70-130
21 2,4-Dimethylphenol	50.00	48.22	96.44	70-130
23 bis(2-Chloroethoxy	50.00	49.18	98.35	70-130
24 Benzoic Acid	50.00	57.00	114.00	70-130
25 2,4-Dichlorophenol	50.00	51.20	102.40	70-130
26 1,2,4-Trichloroben	50.00	49.53	99.05	70-130
28 Naphthalene	50.00	47.56	95.12	70-130
29 4-Chloroaniline	50.00	51.75	103.49	70-130
30 Hexachlorobutadien	50.00	50.79	101.58	70-130
32 4-Chloro-3-Methylp	50.00	52.43	104.86	70-130
33 2-Methylnaphthalen	50.00	52.32	104.64	70-130
145 1-Methylnaphthalen	50.00	47.97	95.94	70-130
35 Hexachlorocyclopen	50.00	52.11	104.21	70-130
36 2,4,6-Trichlorophe	50.00	53.81	107.62	70-130
37 2,4,5-Trichlorophe	50.00	51.02	102.04	70-130
39 2-Chloronaphthalen	50.00	53.42	106.84	70-130
40 2-Nitroaniline	50.00	56.81	113.61	70-130
46 3-Nitroaniline	50.00	54.81	109.63	70-130
42 Dimethylphthalate	50.00	51.71	103.42	70-130

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
44	2,6-Dinitrotoluene	50.00	53.95	107.91	70-130
45	Acenaphthylene	50.00	51.67	103.34	70-130
48	Acenaphthene*	50.00	49.30	98.59	70-130
49	2,4-Dinitrophenol*	50.00	52.07	104.14	70-130
50	4-Nitrophenol**	50.00	52.02	104.04	70-130
52	2,4-Dinitrotoluene	50.00	57.86	115.71	70-130
51	Dibenzofuran	50.00	51.83	103.66	70-130
56	Diethylphthalate	50.00	53.17	106.35	70-130
57	Fluorene	50.00	50.73	101.46	70-130
58	4-Chlorophenyl phe	50.00	49.55	99.10	70-130
59	4-Nitroaniline	50.00	55.11	110.23	70-130
60	4,6-Dinitro-2-meth	50.00	54.42	108.84	70-130
61	N-nitrosodiphenyla	50.00	42.96	85.91	70-130
65	4-Bromophenyl phen	50.00	48.22	96.45	70-130
66	Hexachlorobenzene	50.00	51.79	103.57	70-130
144	Carbazole	50.00	53.33	106.67	70-130
68	Pentachlorophenol*	50.00	53.14	106.27	70-130
72	Phenanthrene	50.00	46.95	93.90	70-130
73	Anthracene	50.00	49.10	98.19	70-130
78	Di-n-butylphthalat	50.00	53.22	106.44	70-130
80	Fluoranthene*	50.00	51.45	102.91	70-130
81	Pyrene	50.00	49.24	98.48	70-130
85	Butyl benzyl phtha	50.00	57.35	114.70	70-130
89	3 3'-Dichlorobenzi	50.00	53.66	107.32	70-130
88	Benzo(a)Anthracene	50.00	51.17	102.35	70-130
91	Chrysene	50.00	46.53	93.06	70-130
93	bis(2-ethylhexyl)P	50.00	55.65	111.31	70-130
94	Di-n-octyl phthala	50.00	58.94	117.88	70-130
95	Benzo(b)fluoranthe	50.00	55.51	111.03	70-130
96	Benzo(k)fluoranthe	50.00	49.84	99.68	70-130
97	Benzo(e)pyrene	50.00	54.73	109.46	70-130
98	Benzo(a)pyrene*	50.00	48.96	97.93	70-130
103	Indeno(1,2,3-cd)py	50.00	56.29	112.59	70-130
104	Dibenzo(a,h)anthra	50.00	49.82	99.64	70-130
105	Benzo(g,h,i)peryle	50.00	53.16	106.33	70-130

0080

Data File: /chem/msdv.i/16jul09a.b/v071616.d
Date : 16-JUL-2009 19:14
Client ID: LCS
Sample Info: ;1685-155-50;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

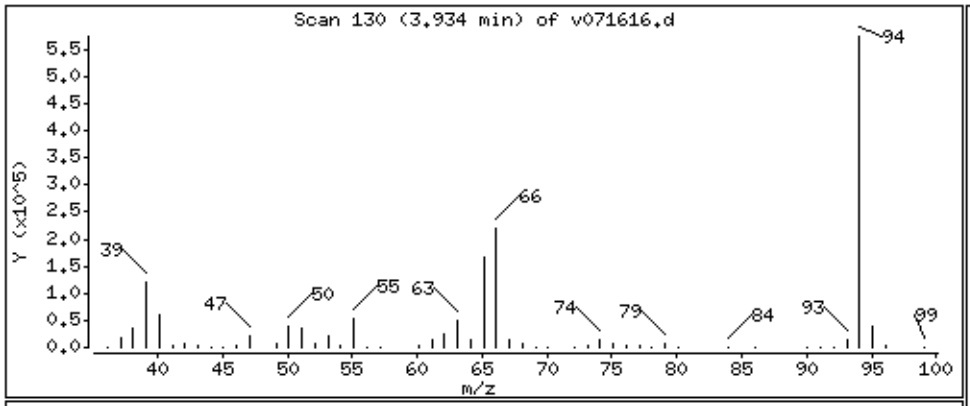
Operator: rn

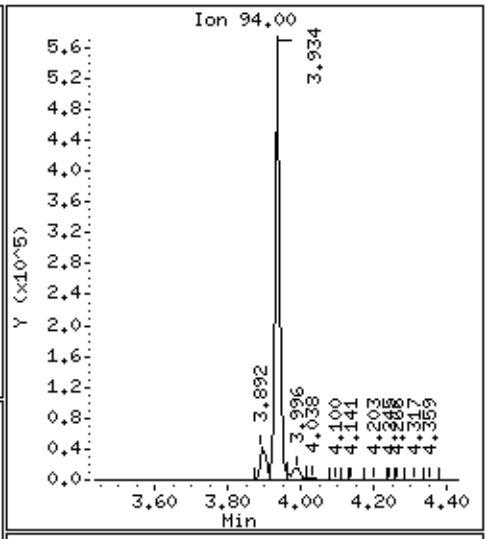
Column phase: DB-5.625

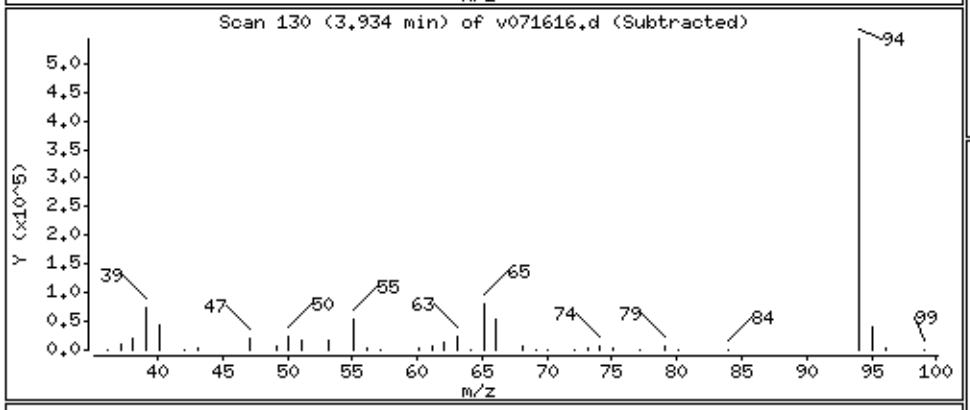
Column diameter: 0.25

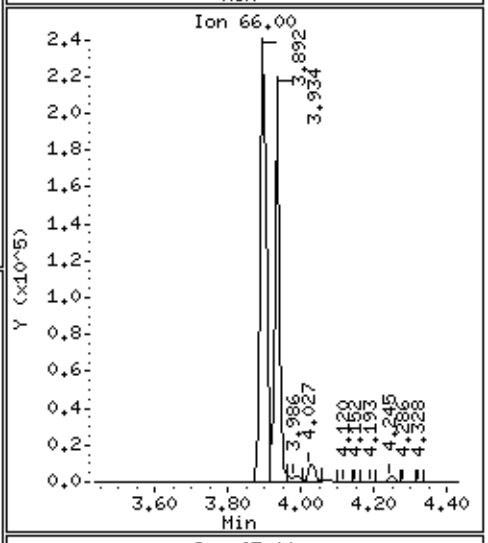
3 Phenol*

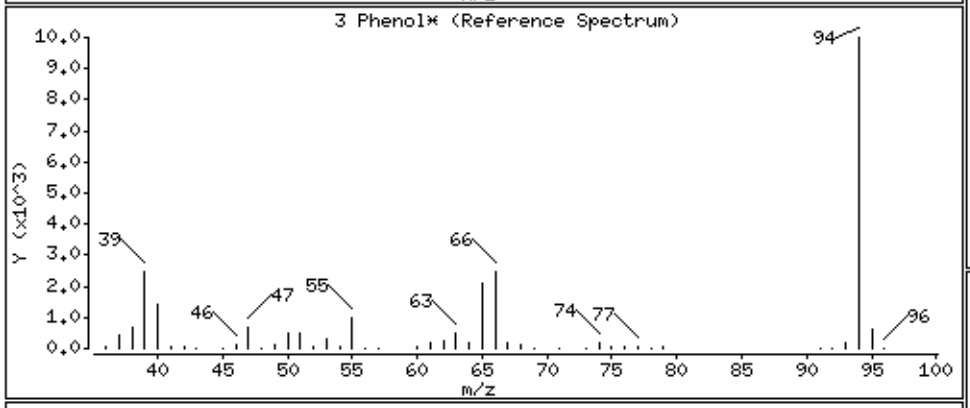
Concentration: 50.23 ug

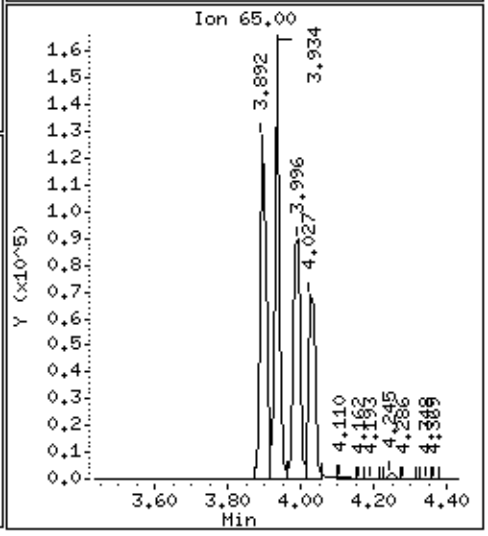


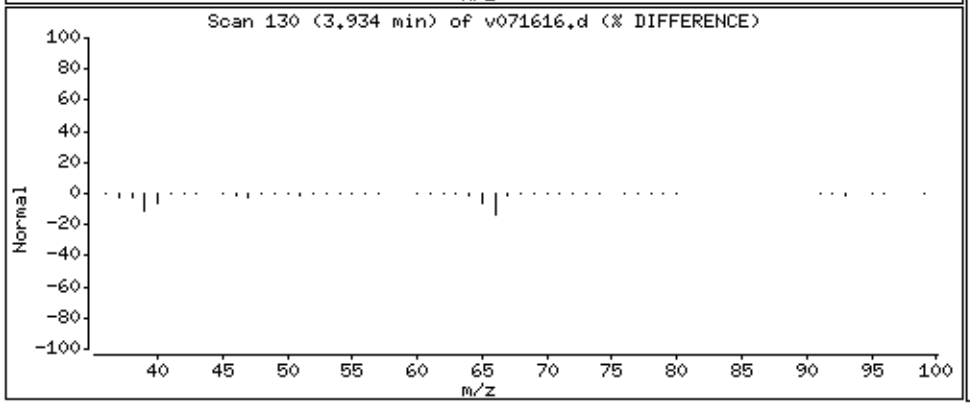












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

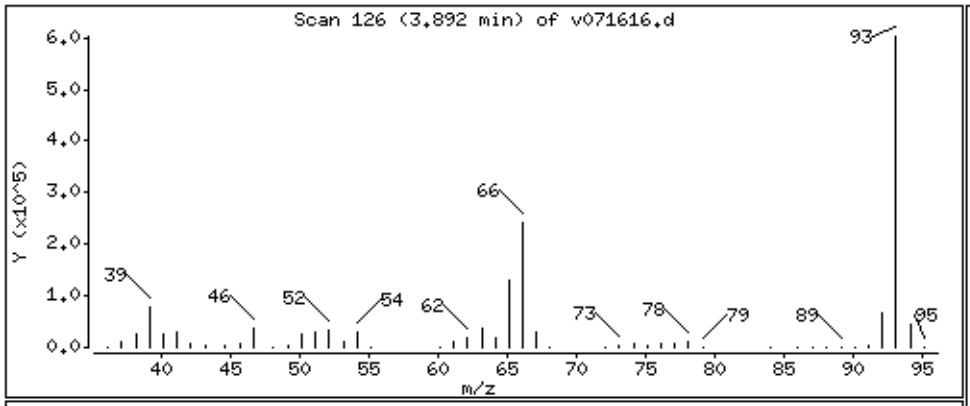
Operator: rn

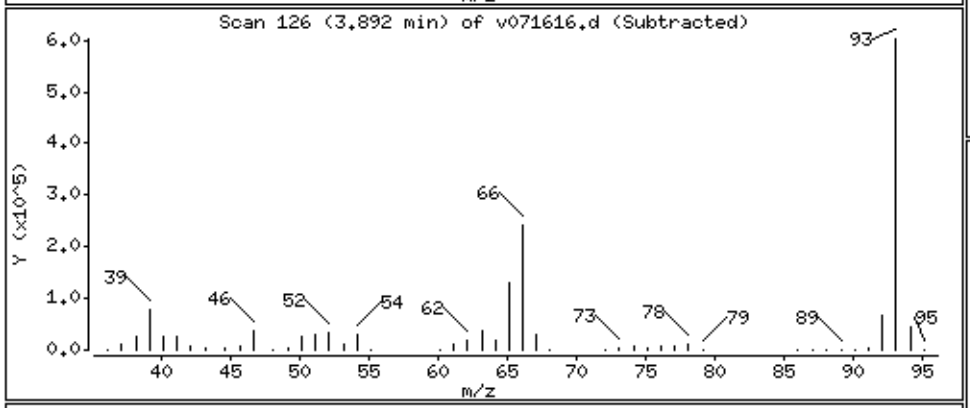
Column phase: DB-5.625

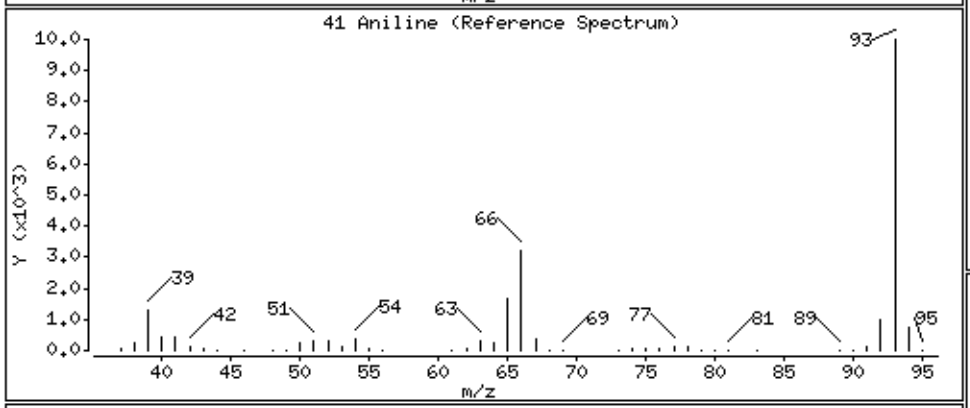
Column diameter: 0.25

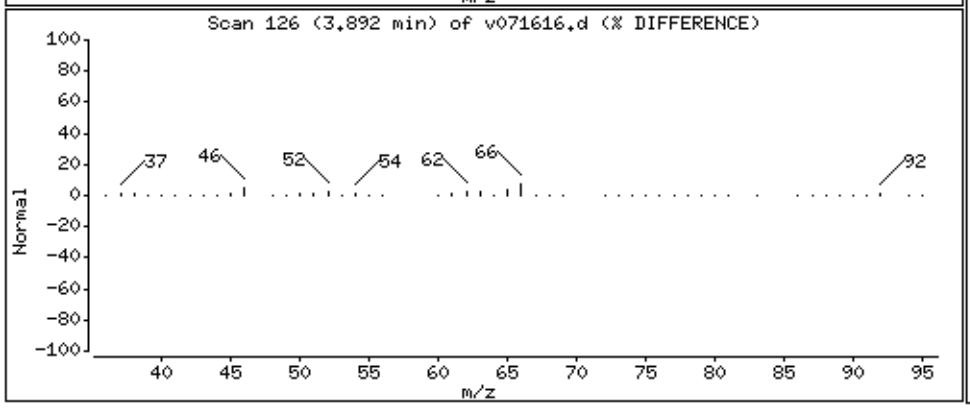
41 Aniline

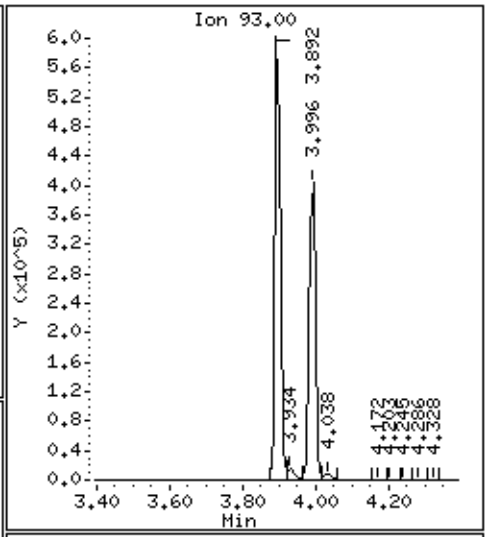
Concentration: 50.00 ug

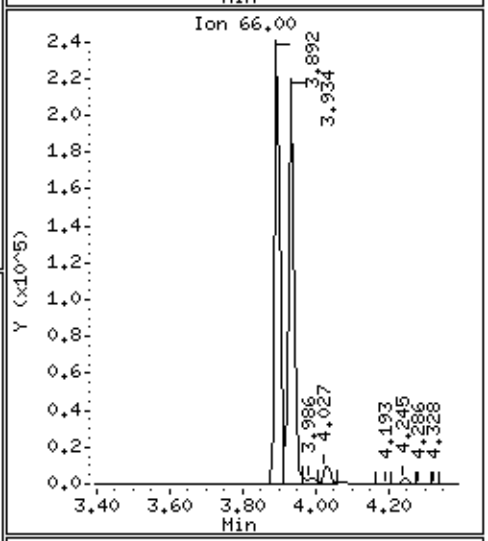


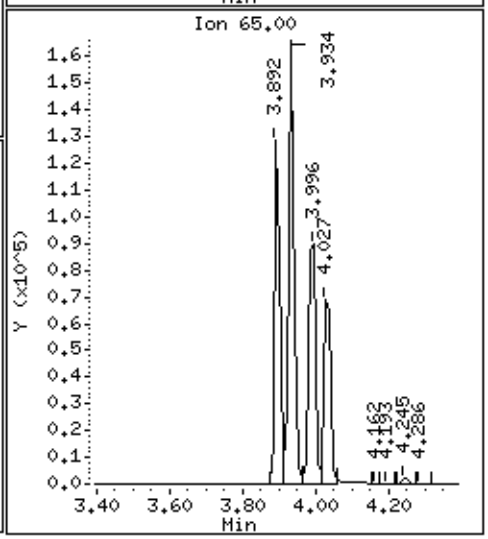












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

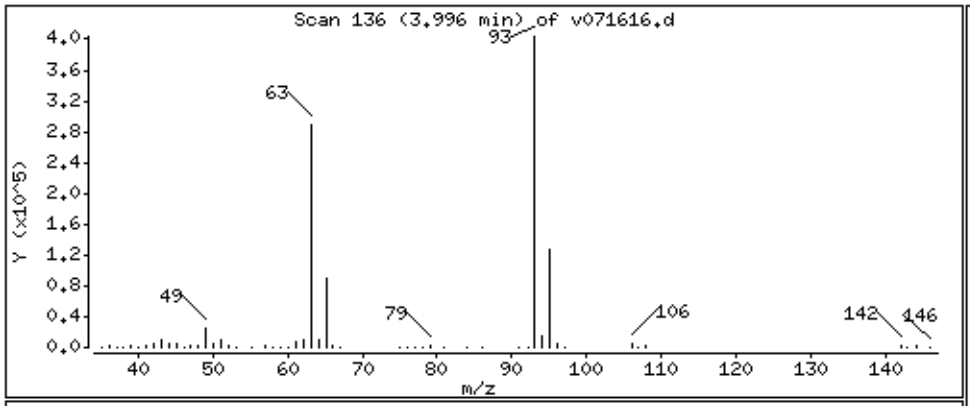
Operator: rn

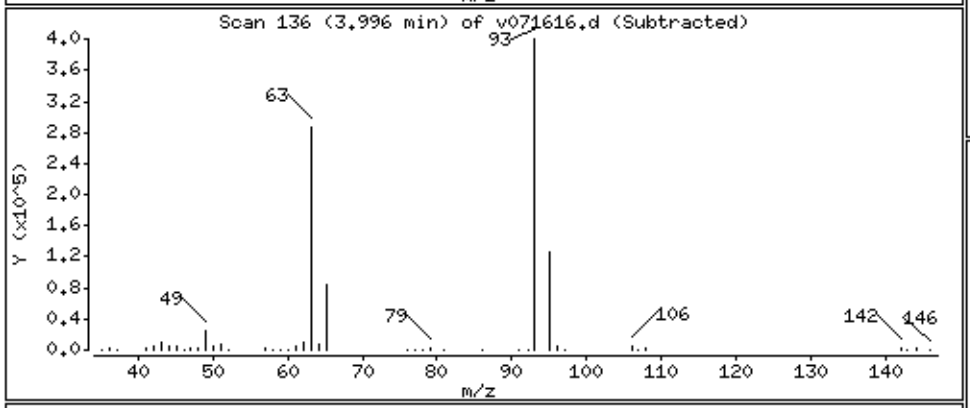
Column phase: DB-5.625

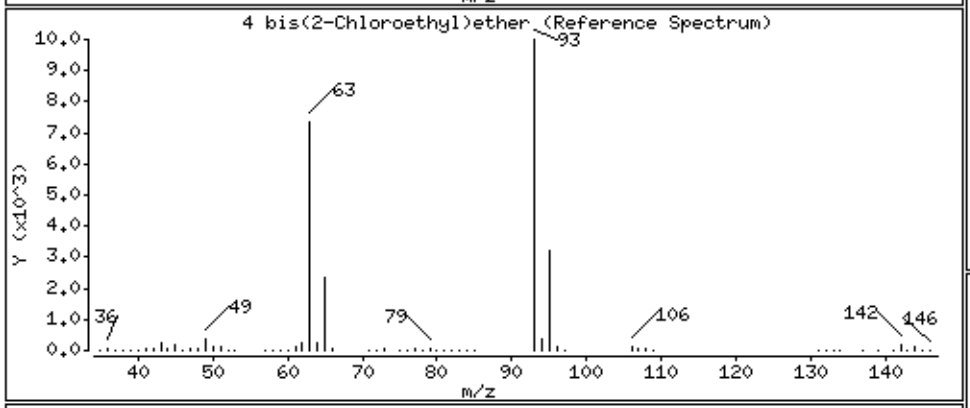
Column diameter: 0.25

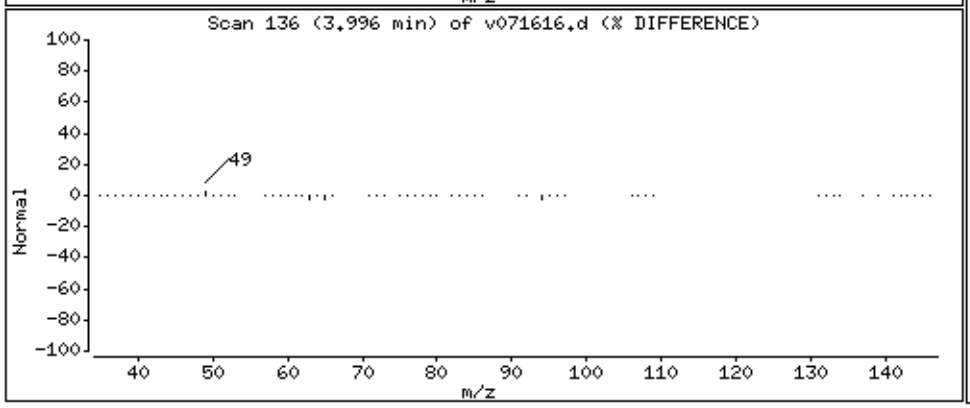
4 bis(2-Chloroethyl)ether

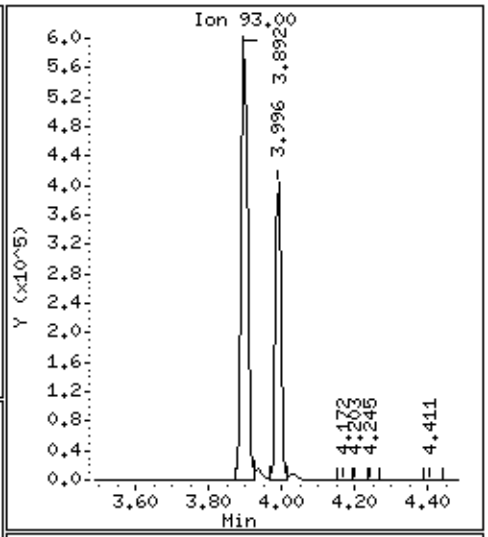
Concentration: 48.36 ug

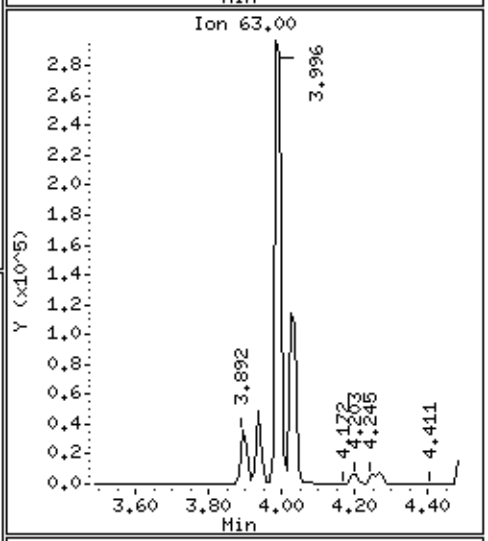


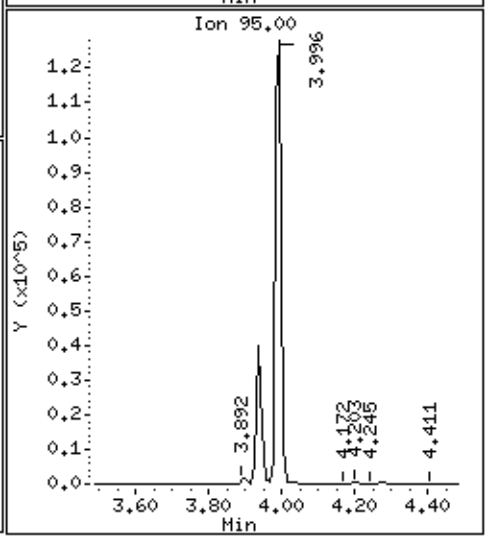












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

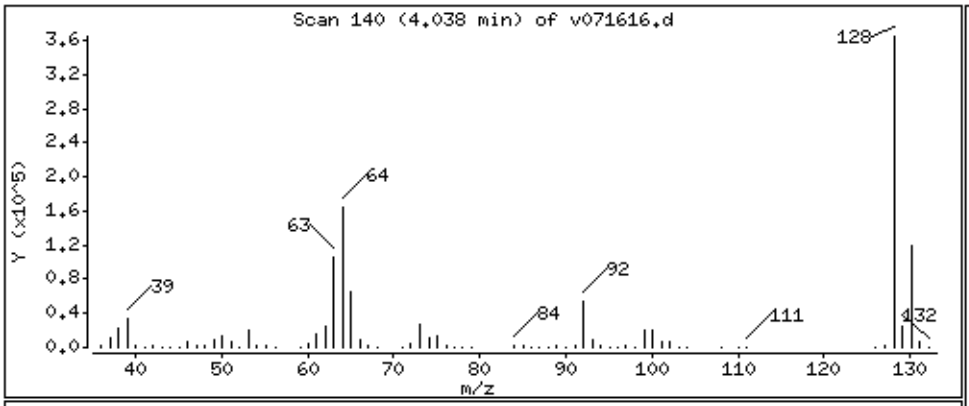
Operator: rn

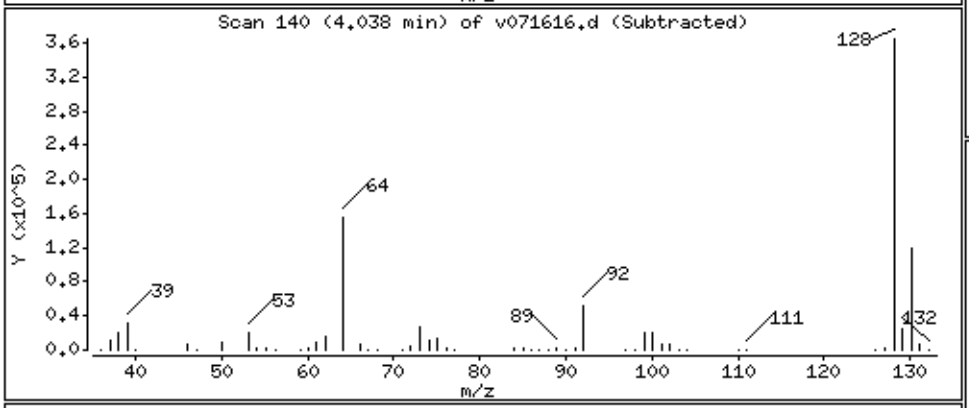
Column phase: DB-5.625

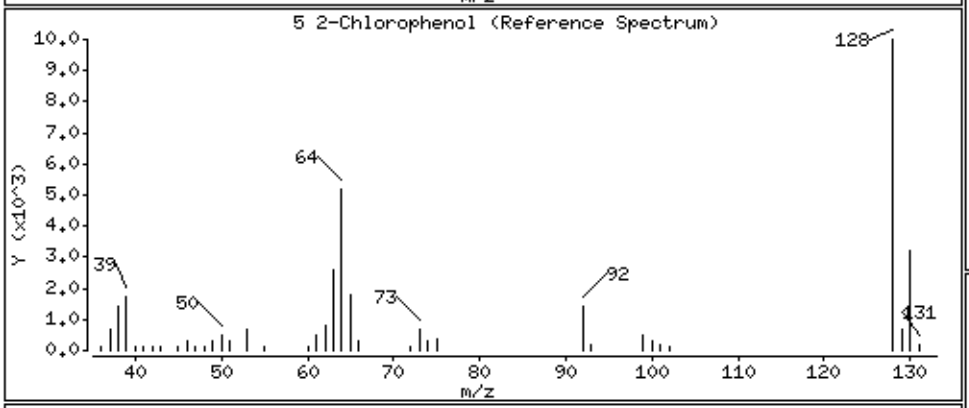
Column diameter: 0.25

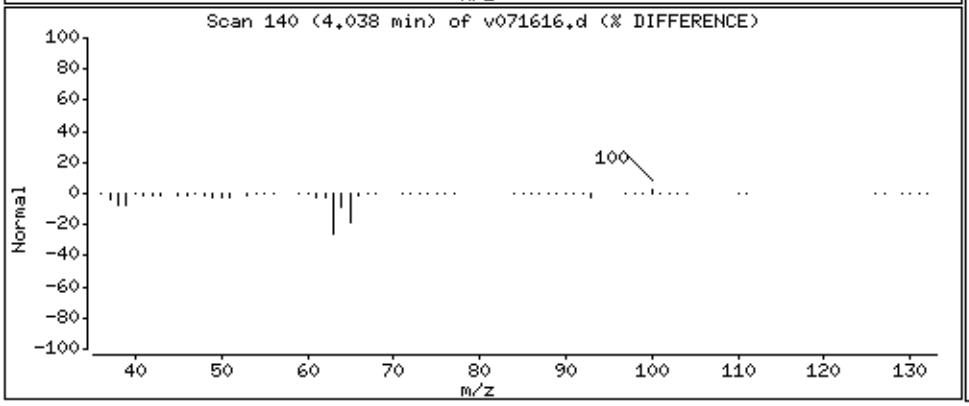
5 2-Chlorophenol

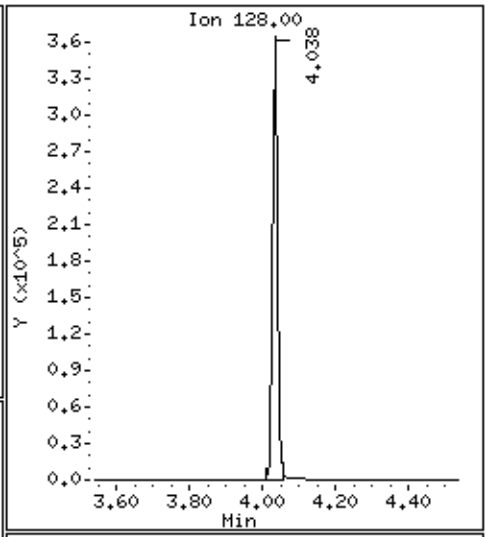
Concentration: 50.13 ug

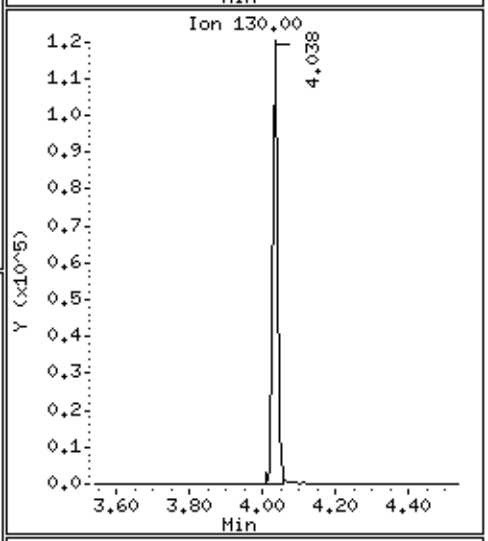


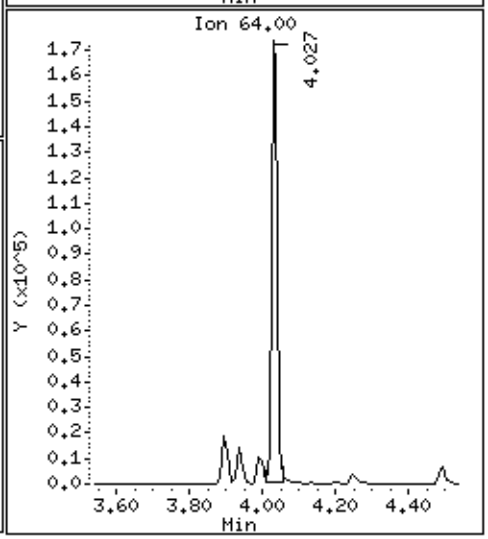












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

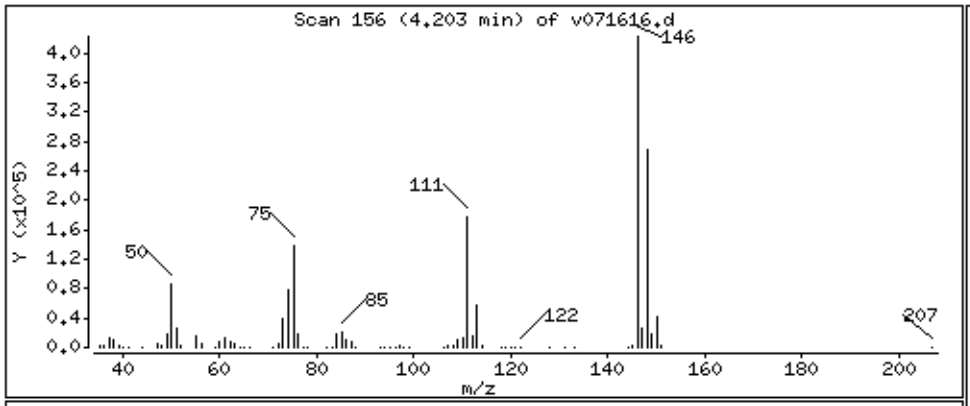
Operator: rn

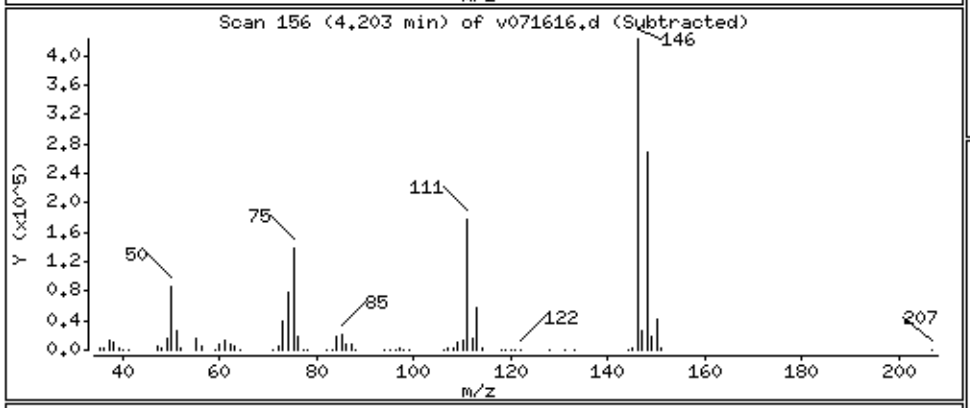
Column phase: DB-5.625

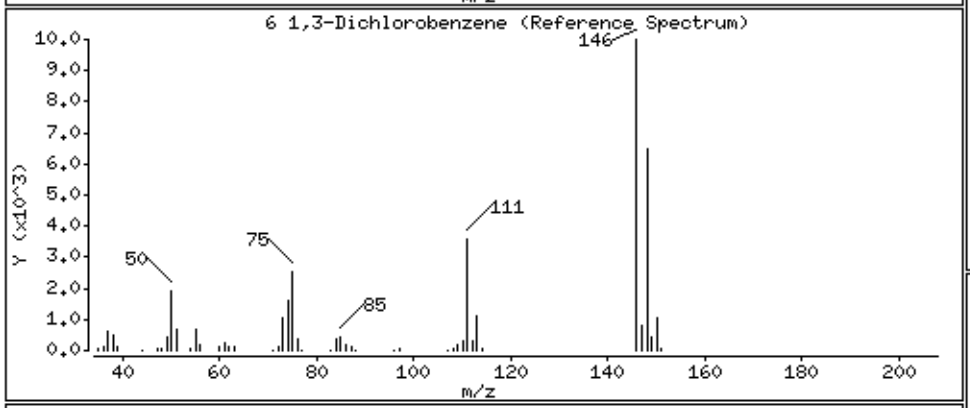
Column diameter: 0.25

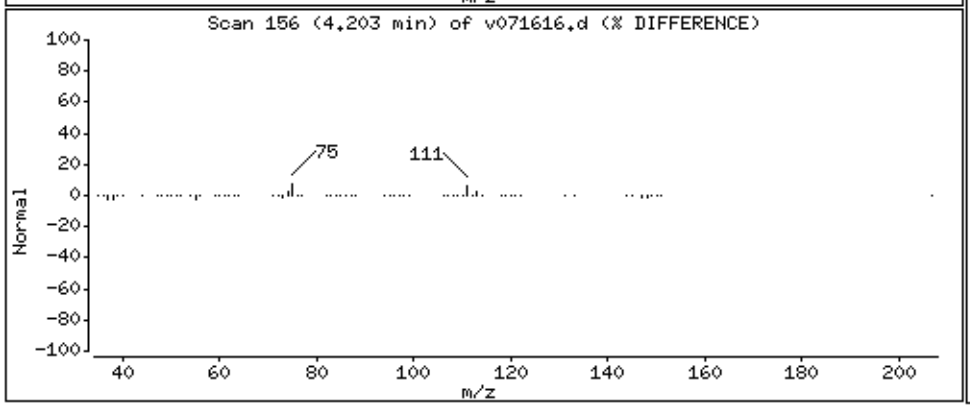
6 1,3-Dichlorobenzene

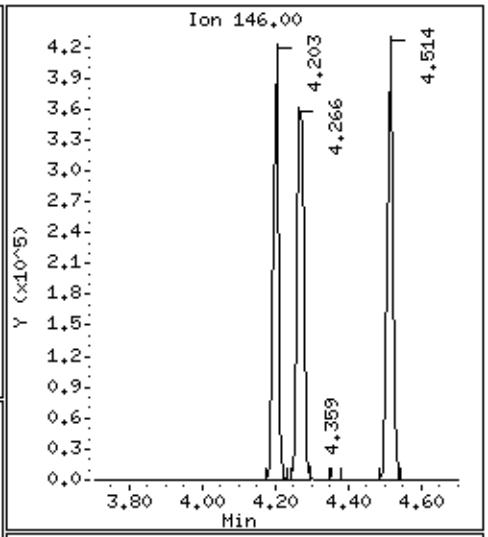
Concentration: 50.76 ug

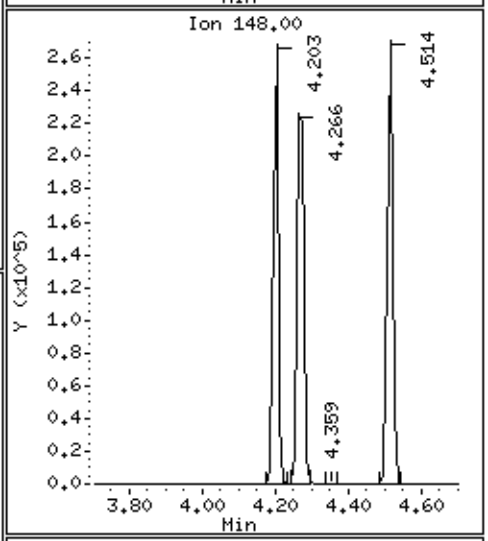


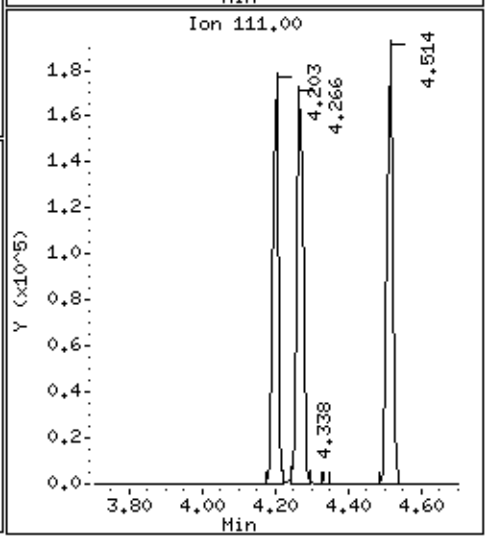












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

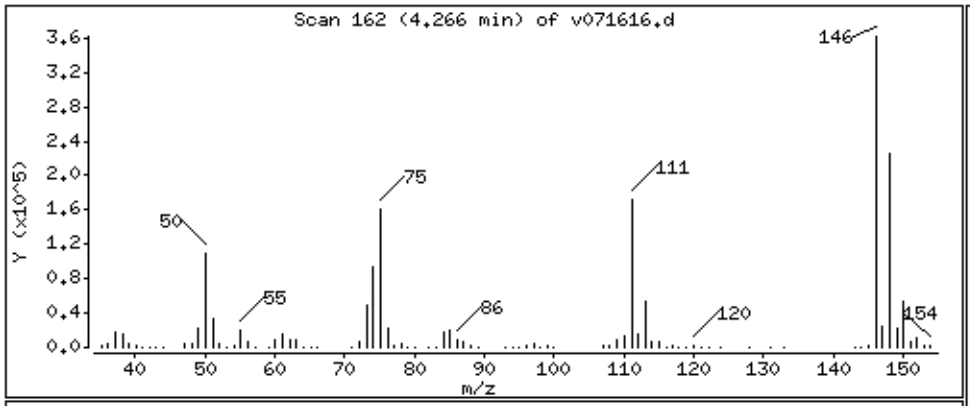
Operator: rn

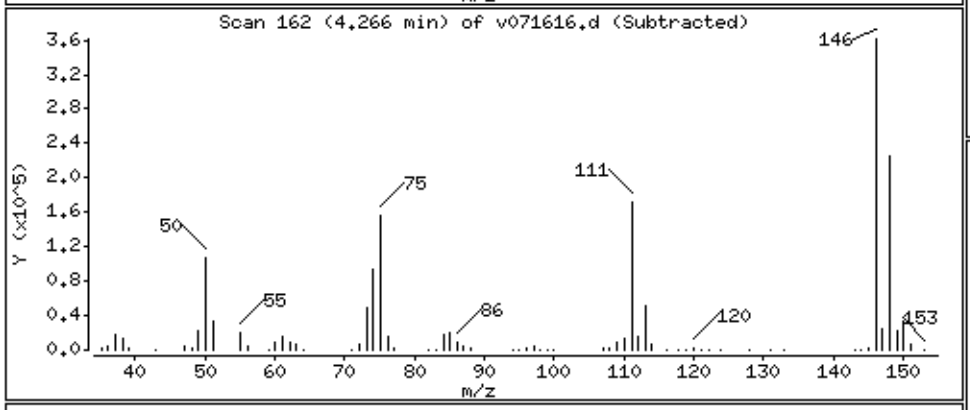
Column phase: DB-5.625

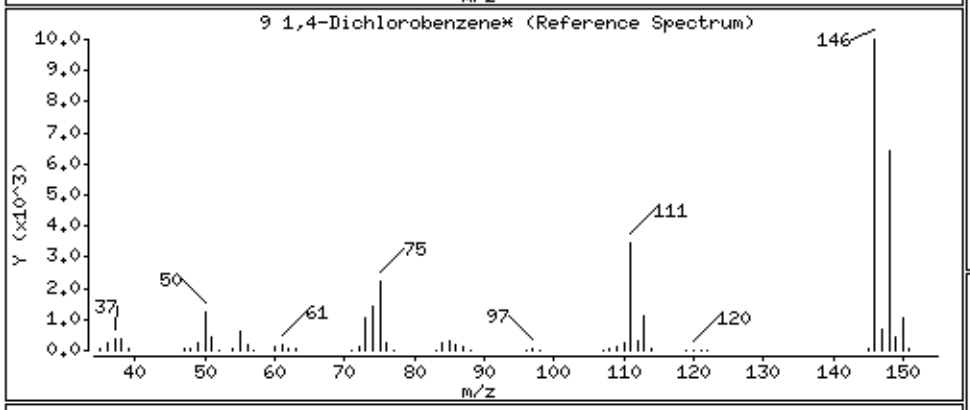
Column diameter: 0.25

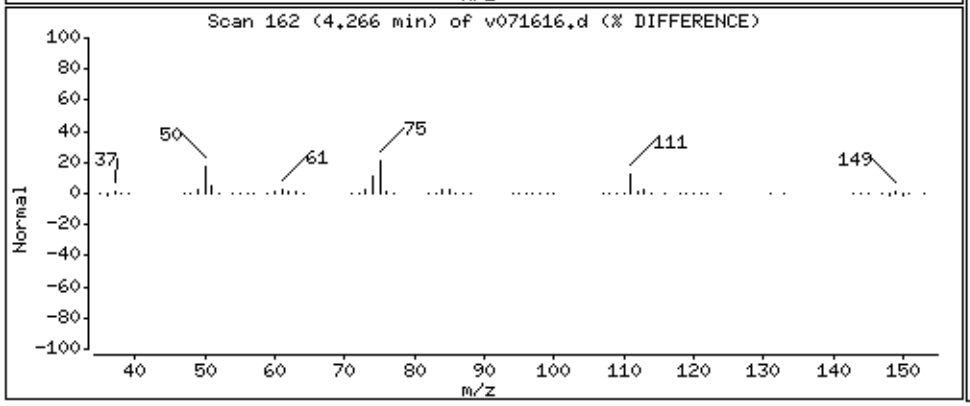
9 1,4-Dichlorobenzene*

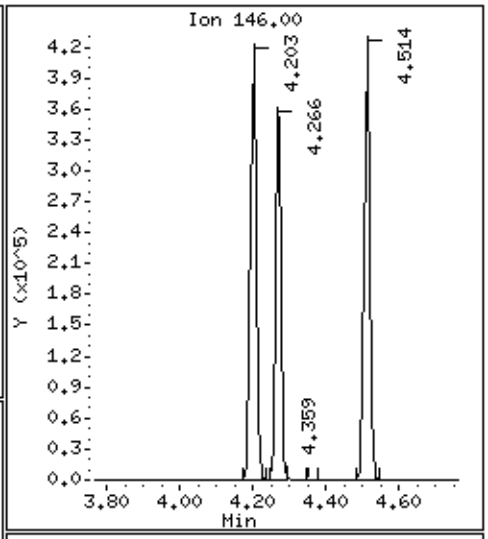
Concentration: 49.30 ug

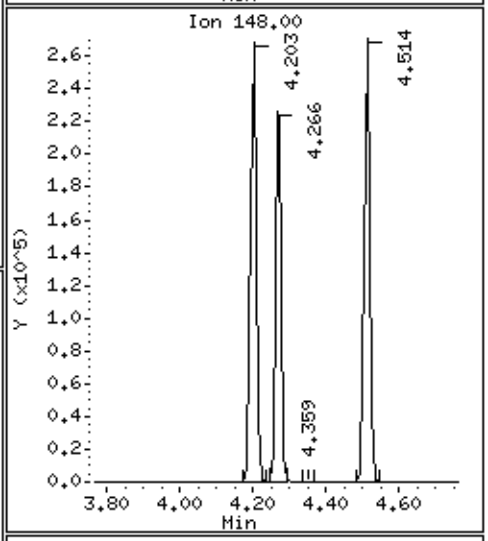


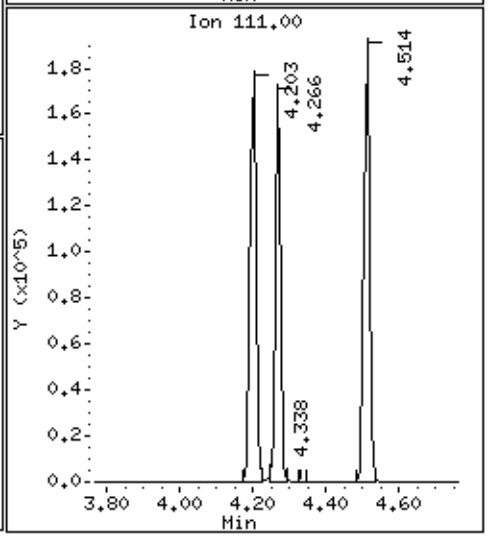












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

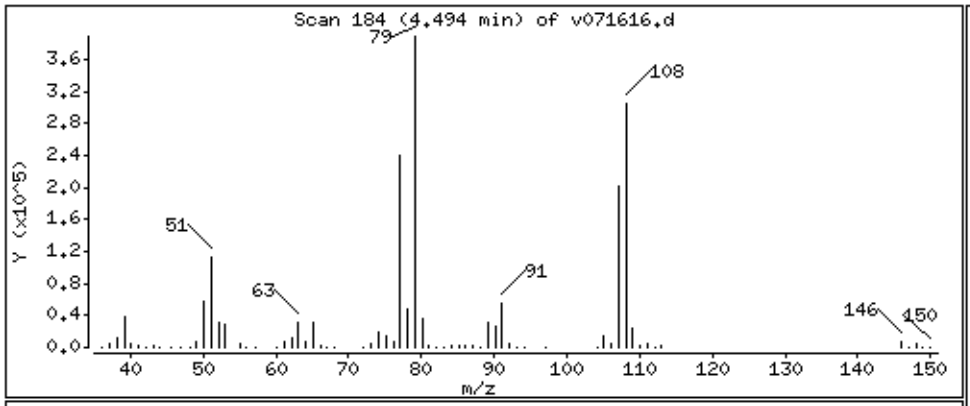
Operator: rn

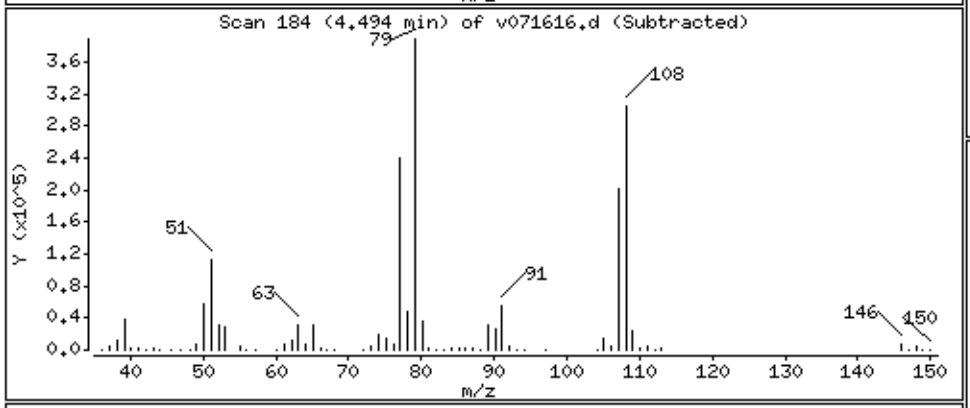
Column phase: DB-5.625

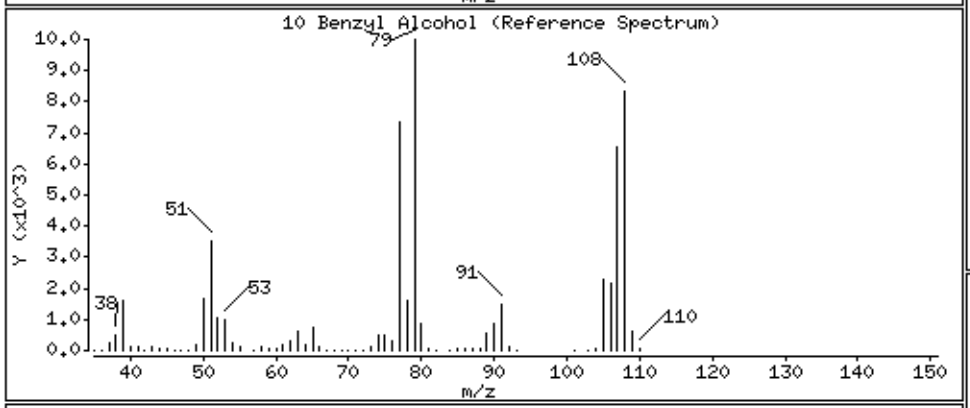
Column diameter: 0.25

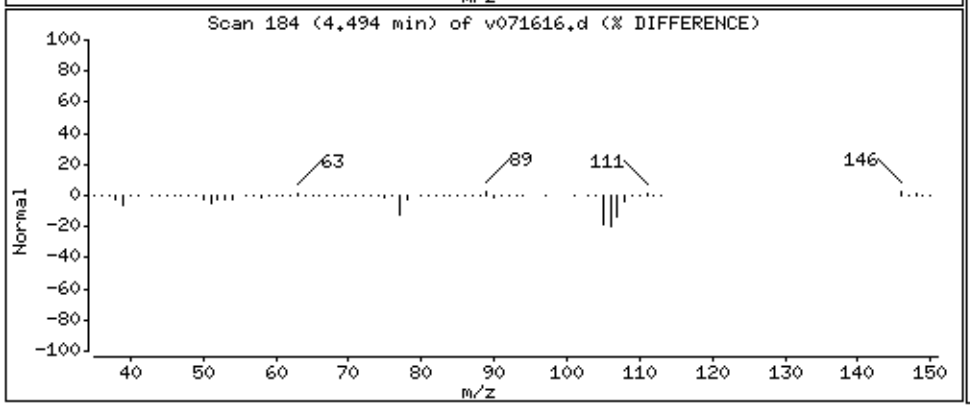
10 Benzyl Alcohol

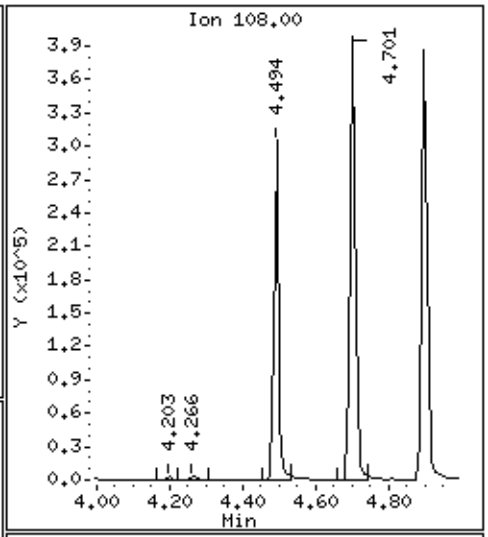
Concentration: 55.11 ug

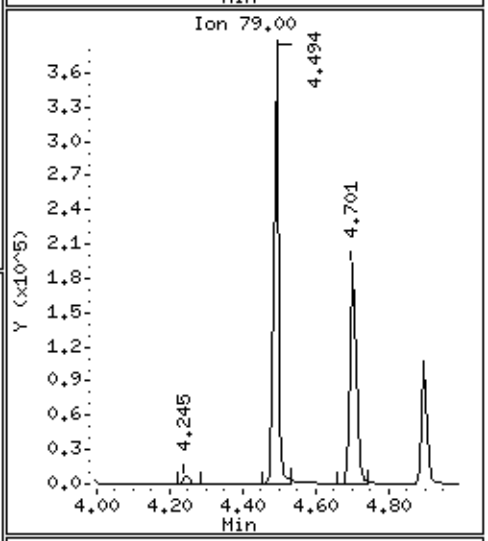


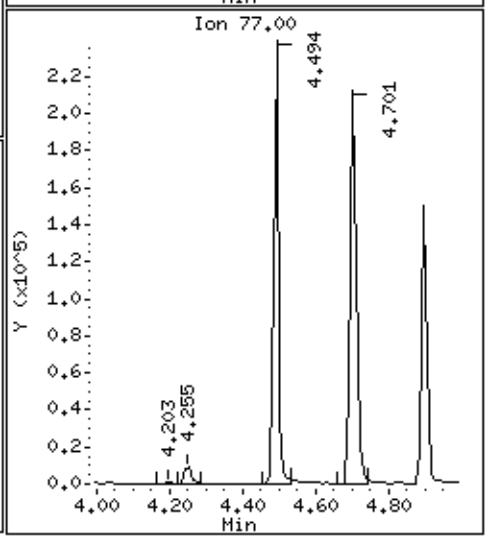












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

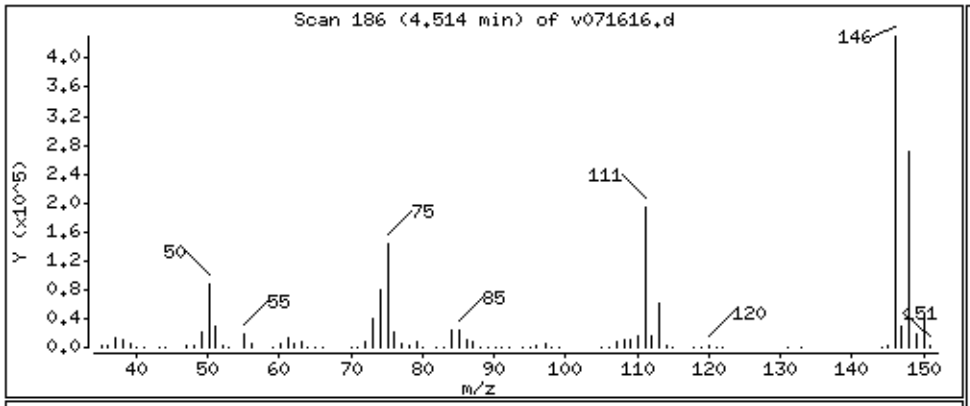
Operator: rn

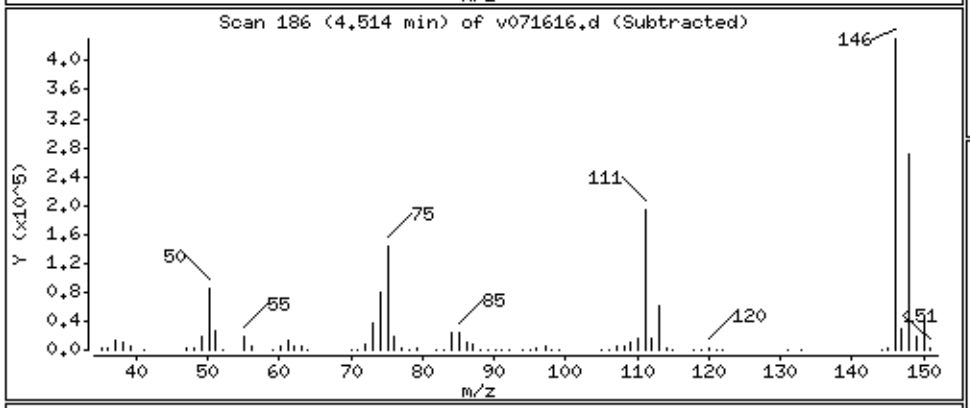
Column phase: DB-5.625

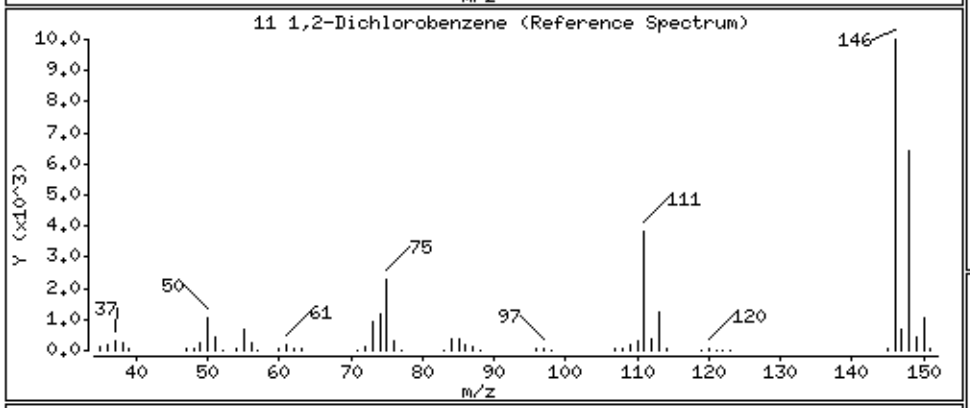
Column diameter: 0.25

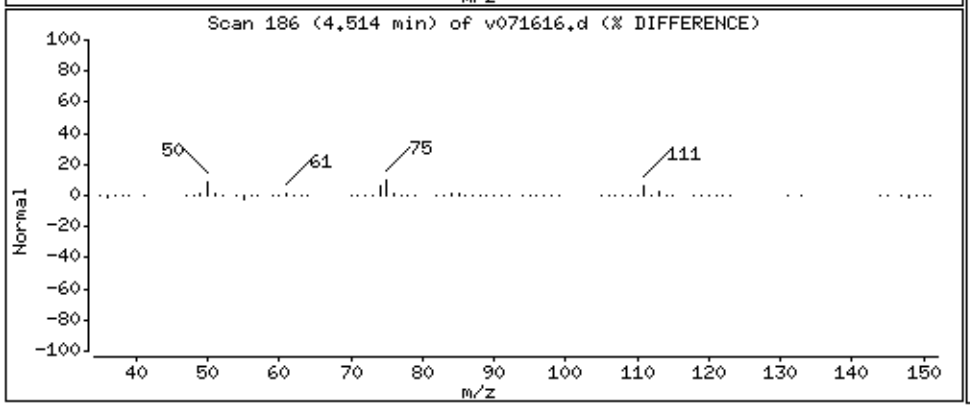
11 1,2-Dichlorobenzene

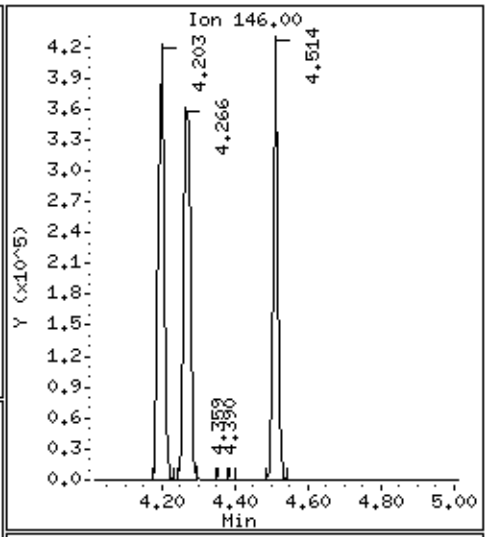
Concentration: 50.81 ug

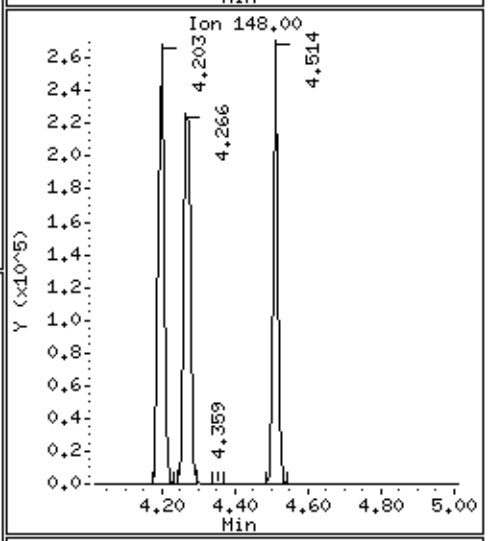


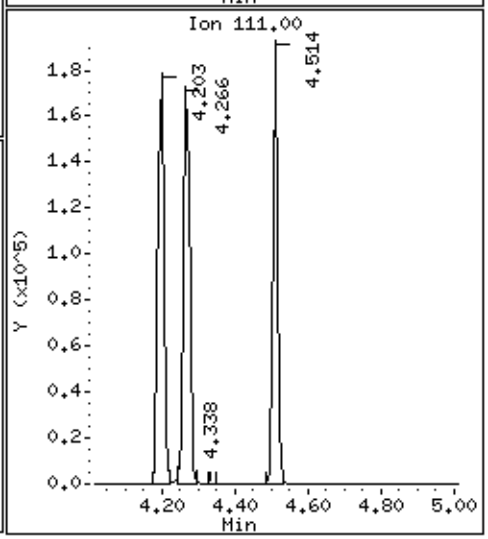












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

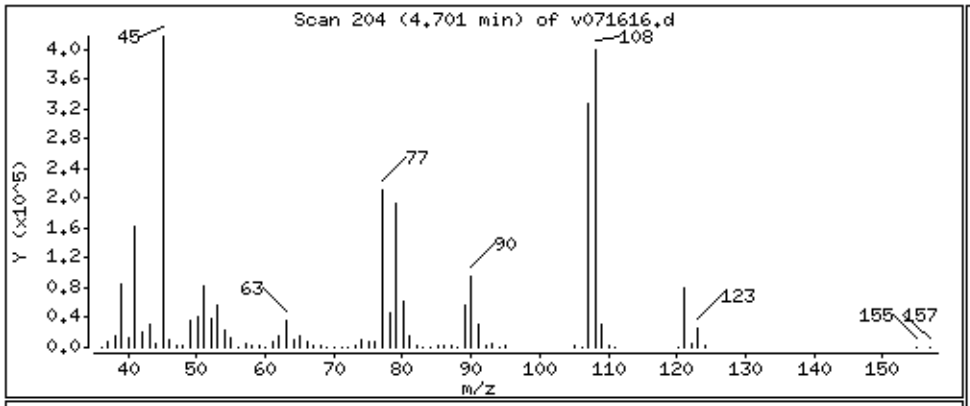
Operator: rn

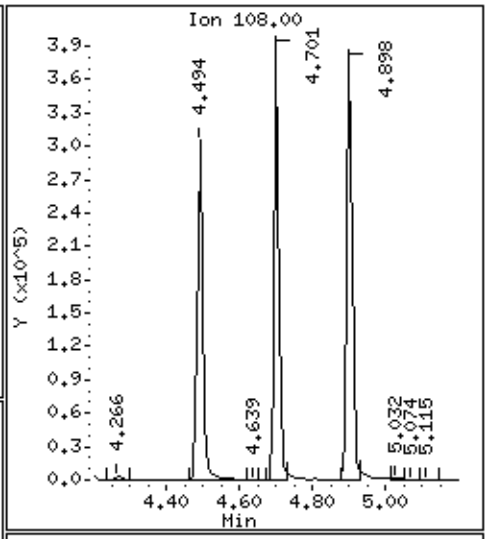
Column phase: DB-5.625

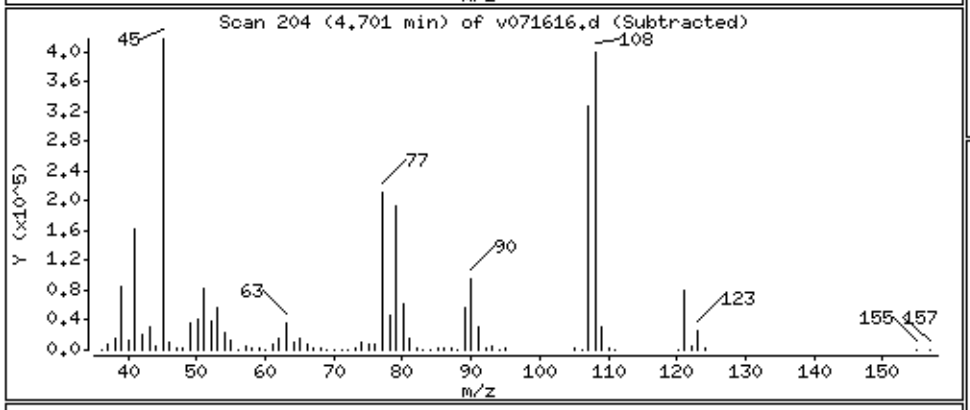
Column diameter: 0.25

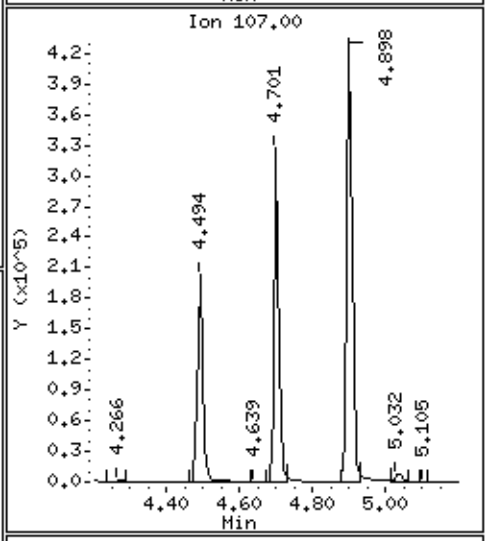
12 2-Methylphenol

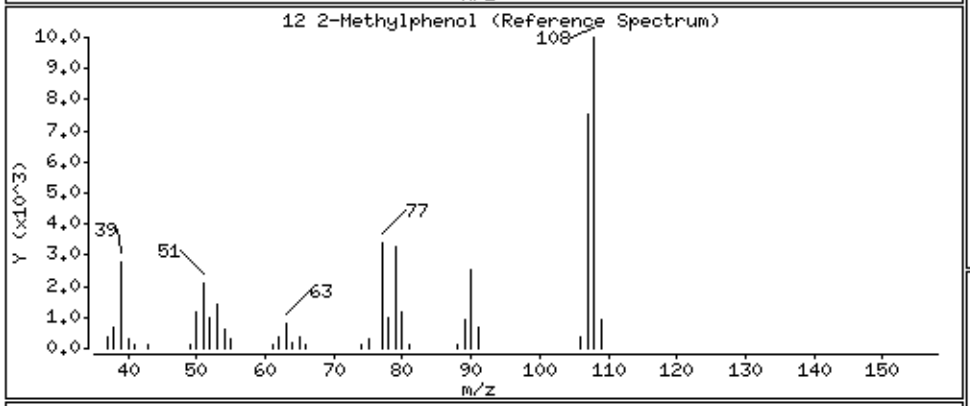
Concentration: 50.59 ug

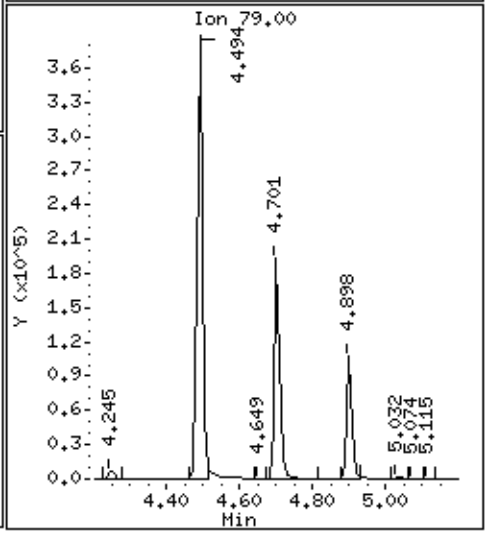


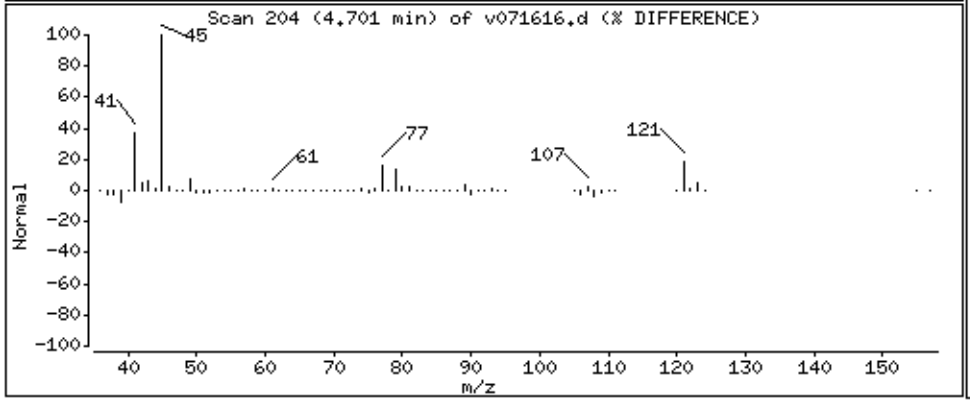












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

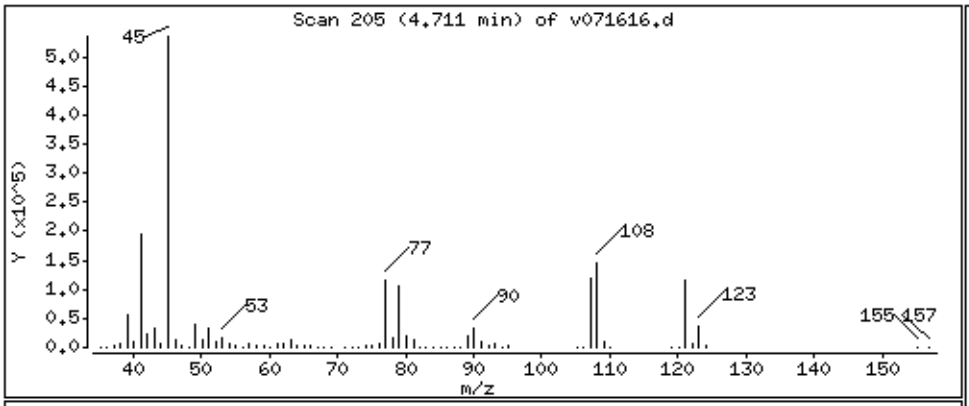
Operator: rn

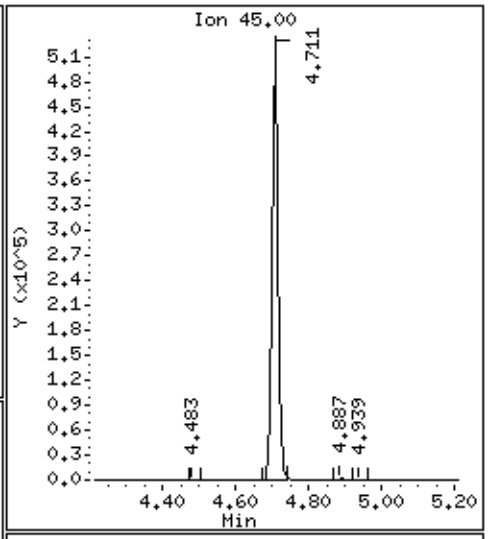
Column phase: DB-5.625

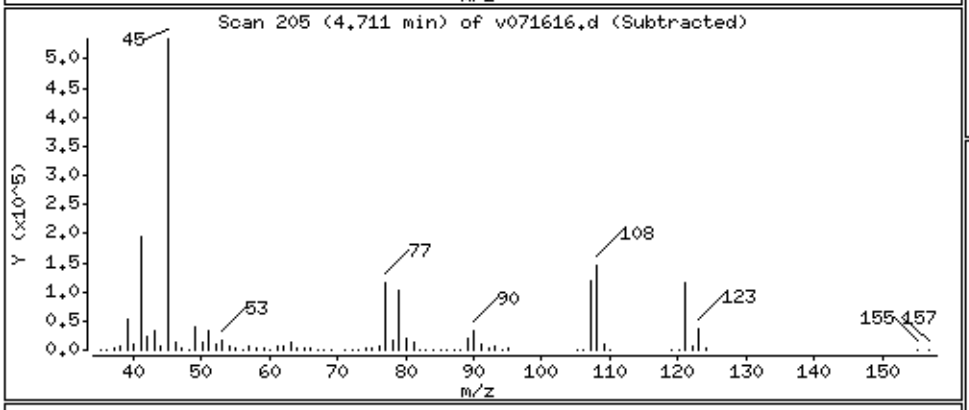
Column diameter: 0.25

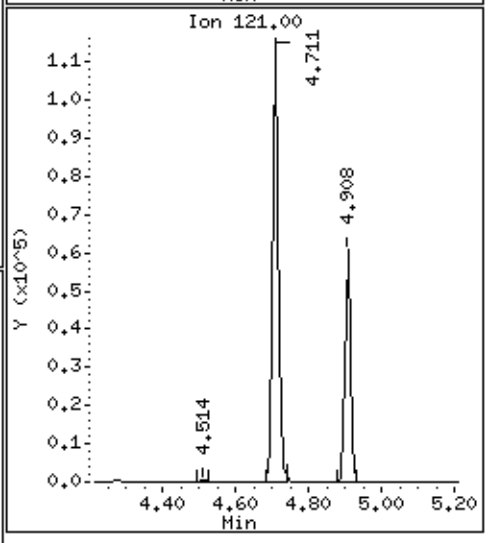
13 bis(2-Chloroisopropyl)ether

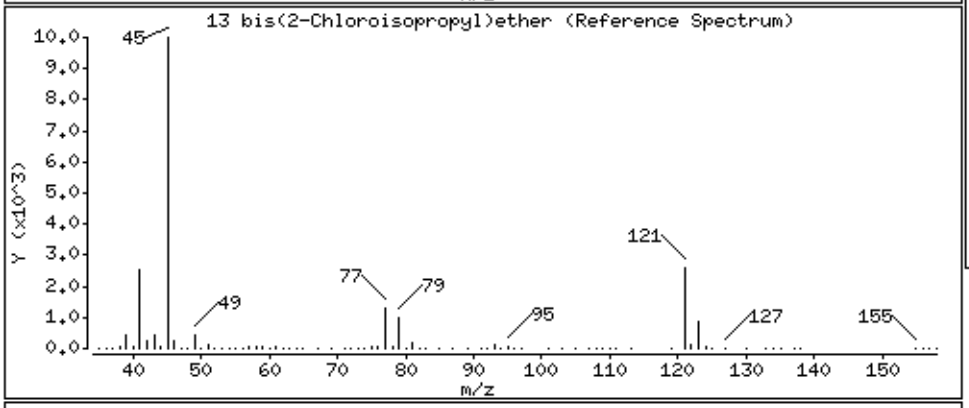
Concentration: 45.76 ug

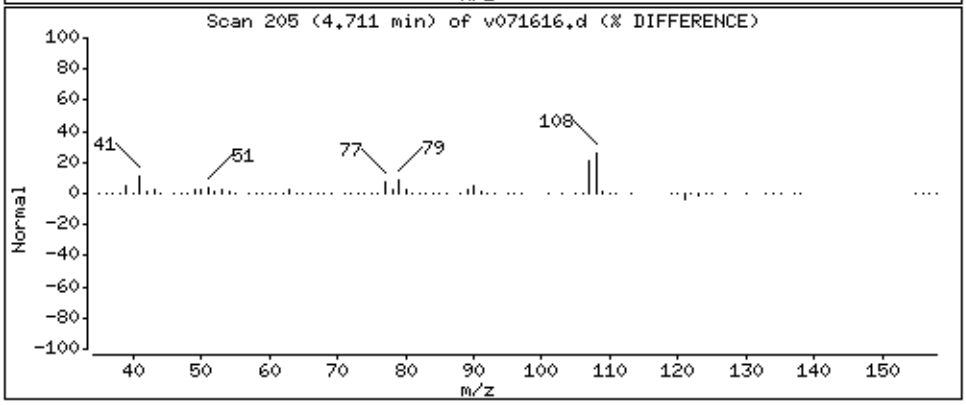












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

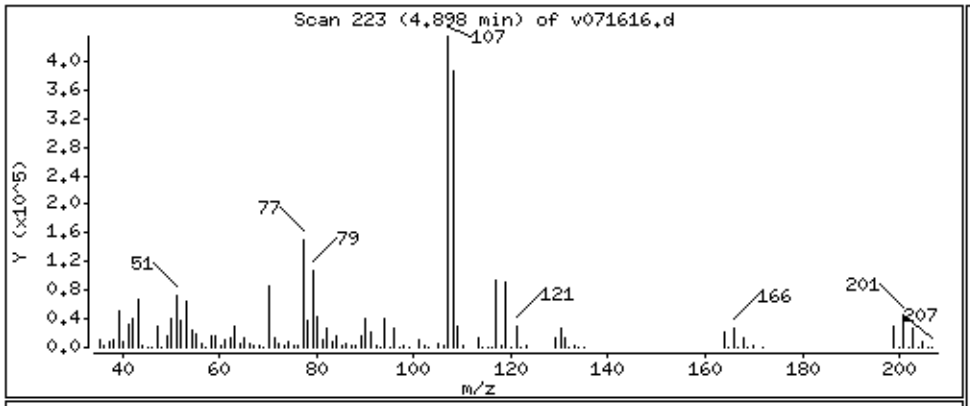
Operator: rn

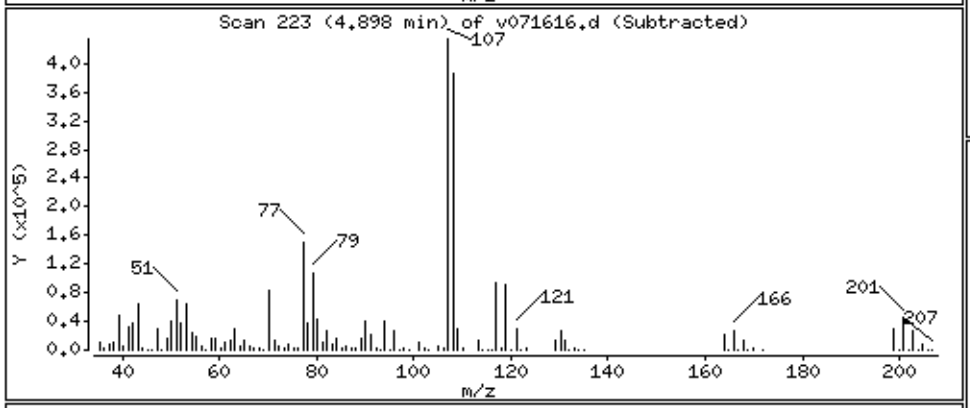
Column phase: DB-5.625

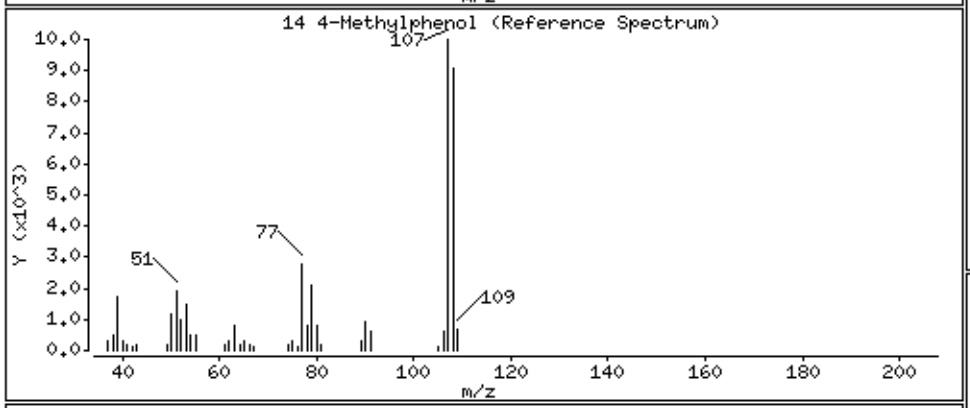
Column diameter: 0.25

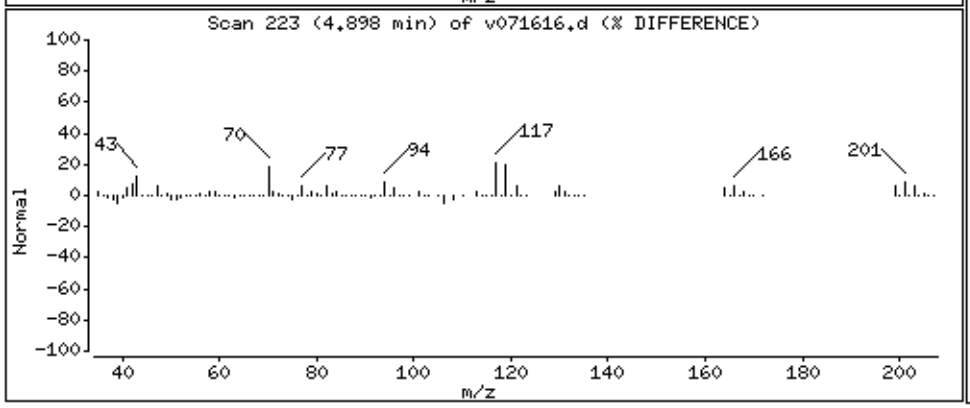
14 4-Methylphenol

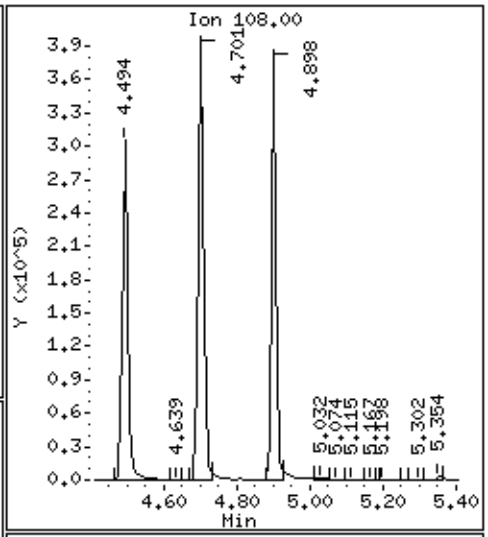
Concentration: 48.94 ug

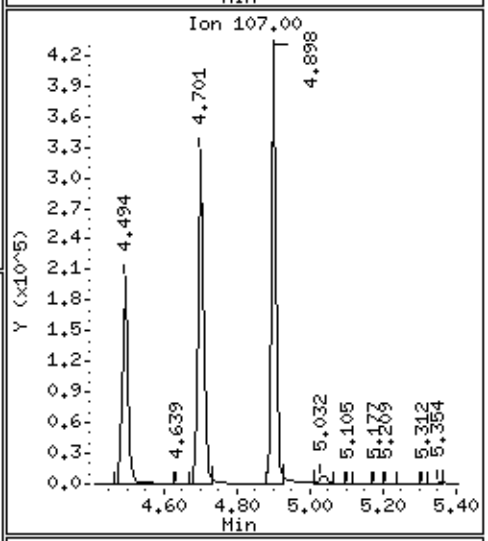


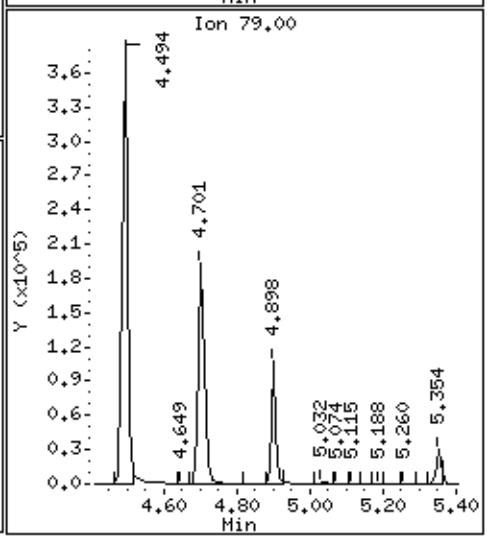












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

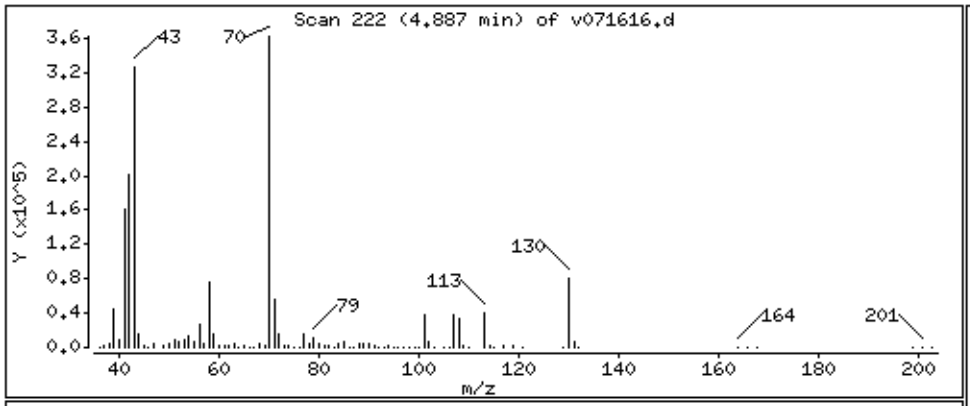
Operator: rn

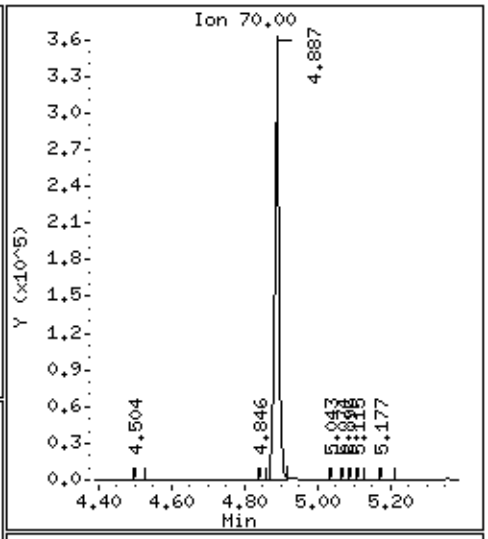
Column phase: DB-5.625

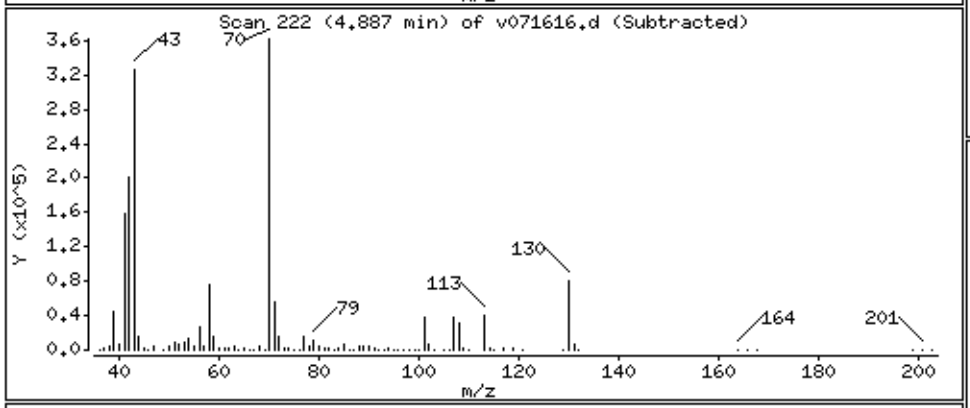
Column diameter: 0.25

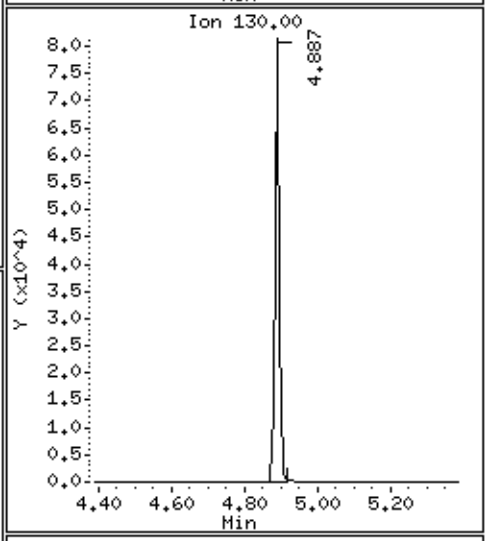
15 N-Nitrosodipropylamine**

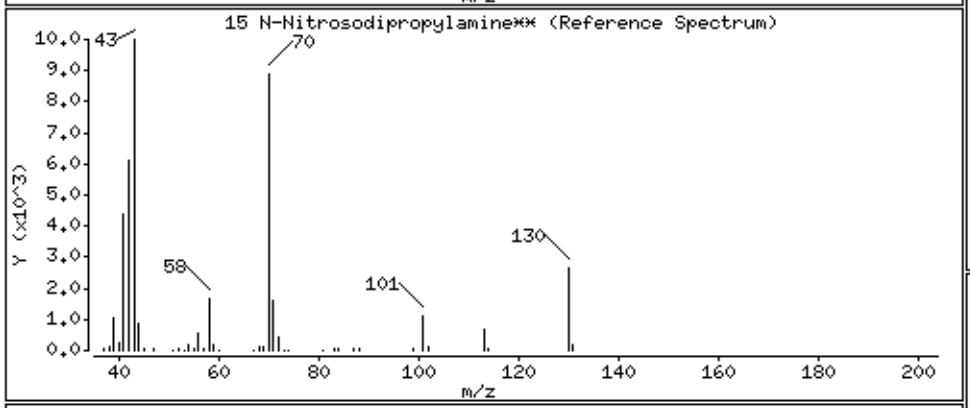
Concentration: 51.23 ug

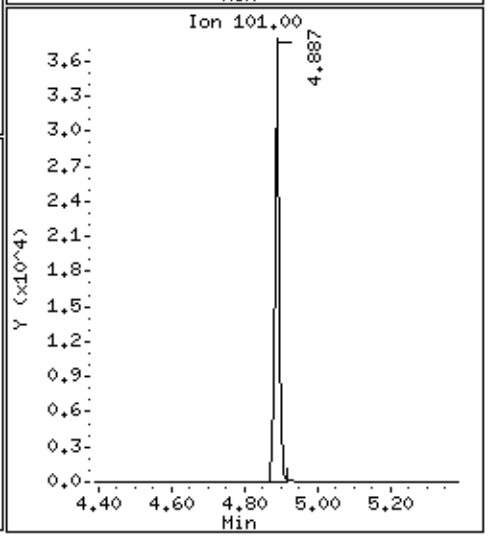


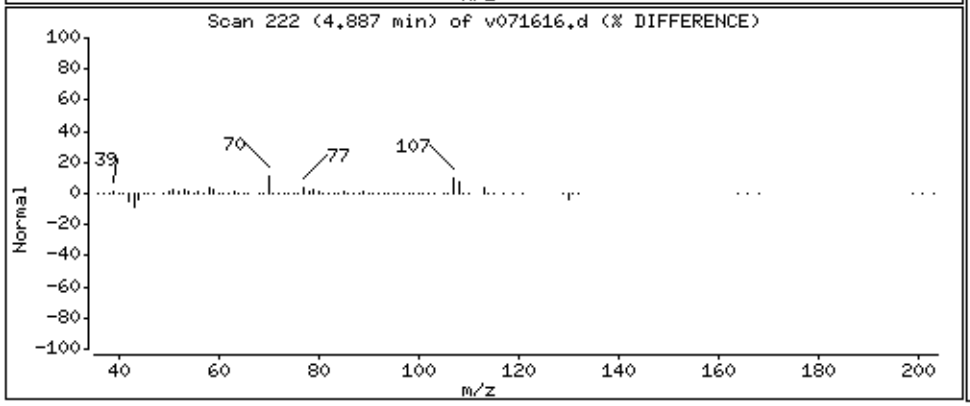












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

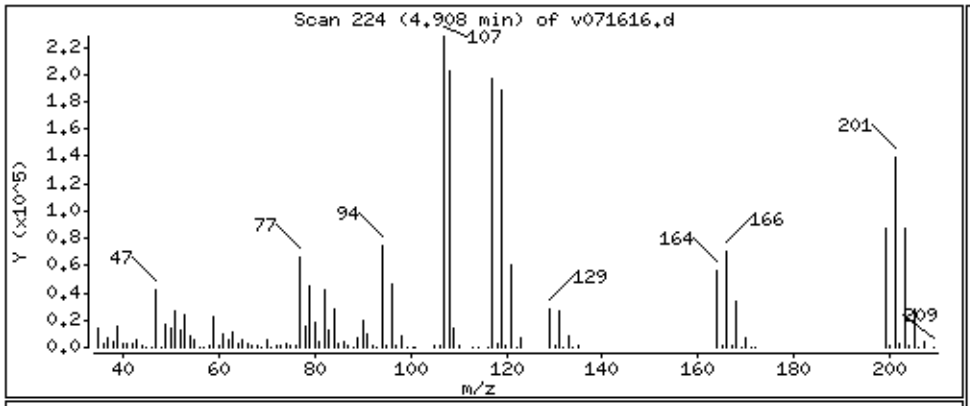
Operator: rn

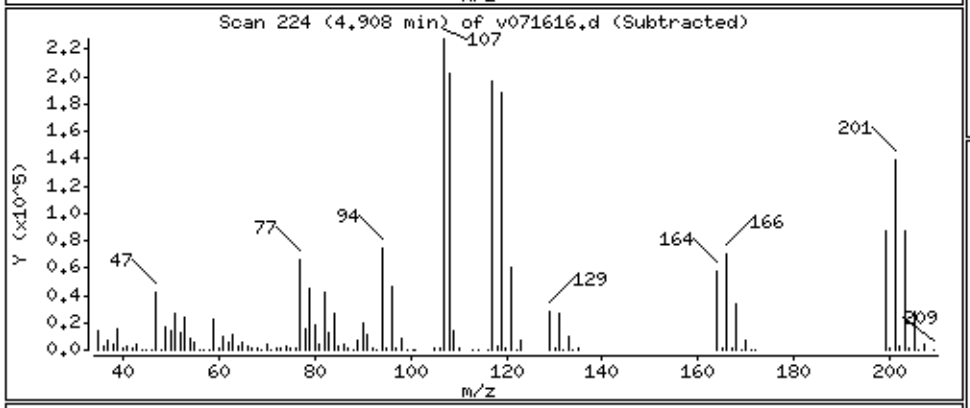
Column phase: DB-5.625

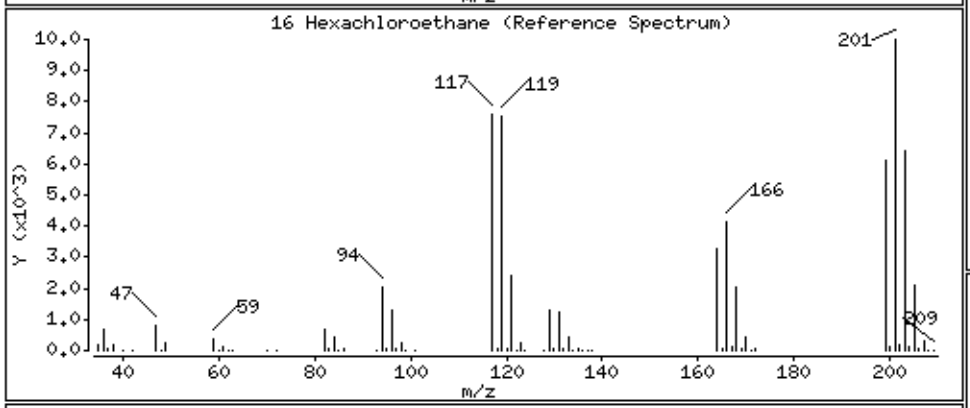
Column diameter: 0.25

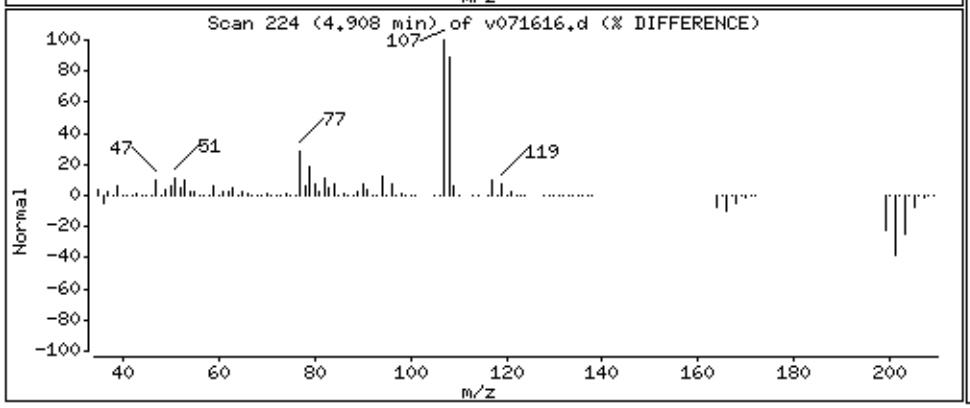
16 Hexachloroethane

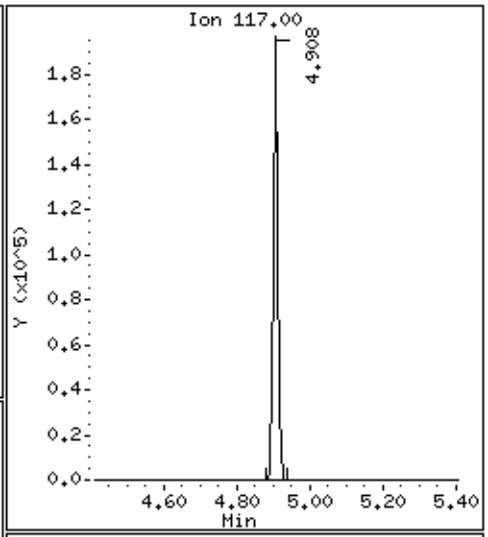
Concentration: 51.07 ug

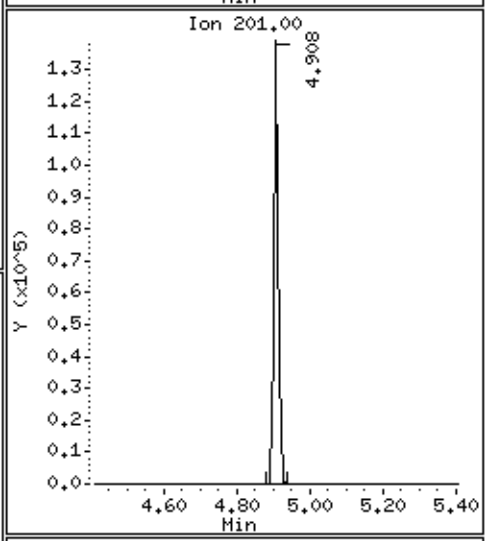


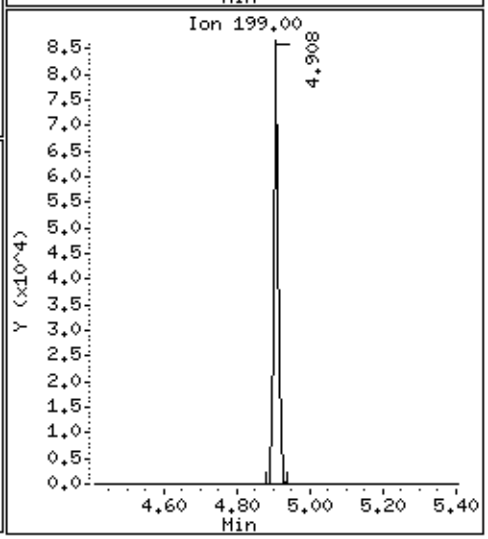












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

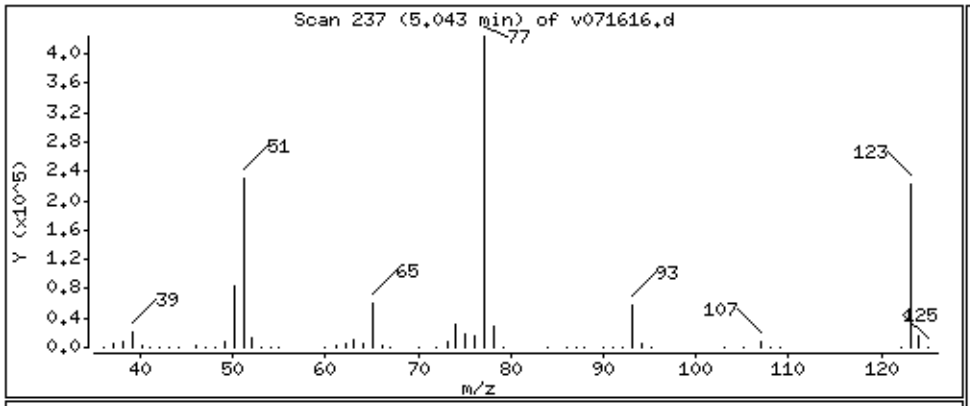
Operator: rn

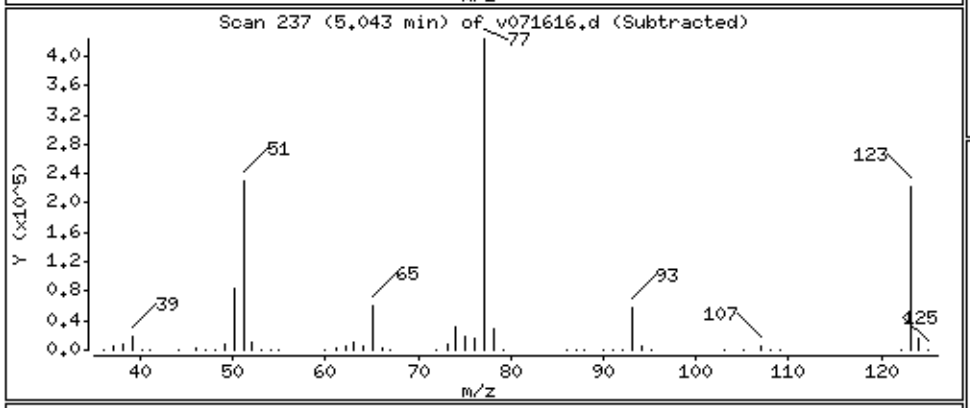
Column phase: DB-5.625

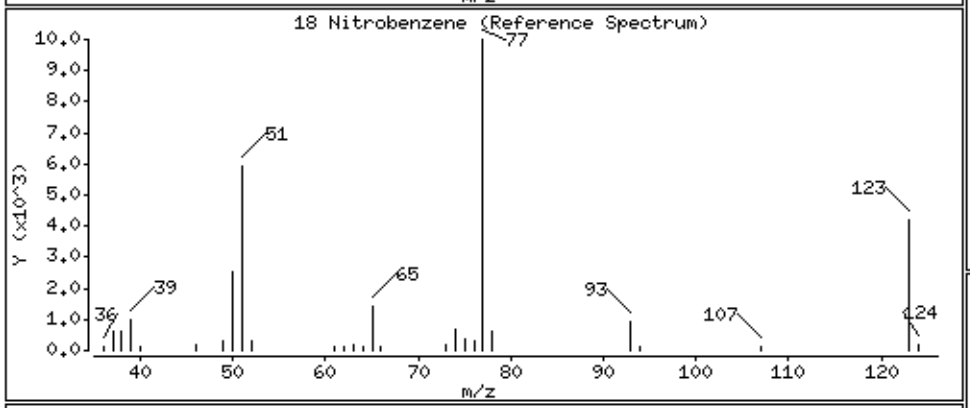
Column diameter: 0.25

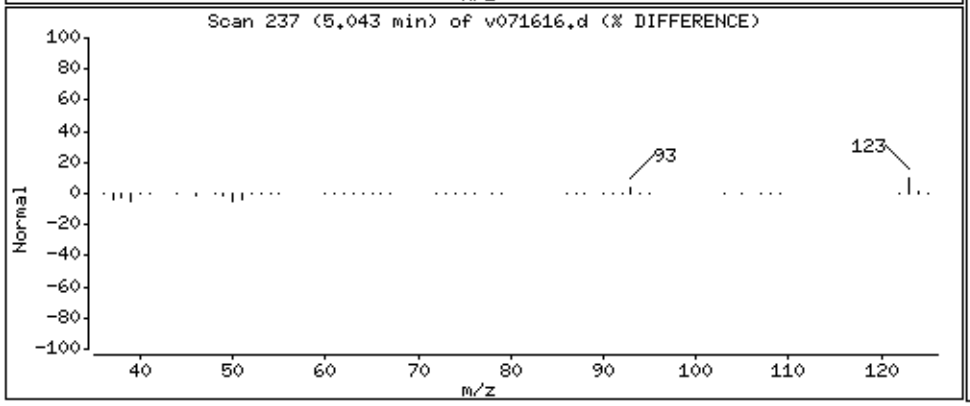
18 Nitrobenzene

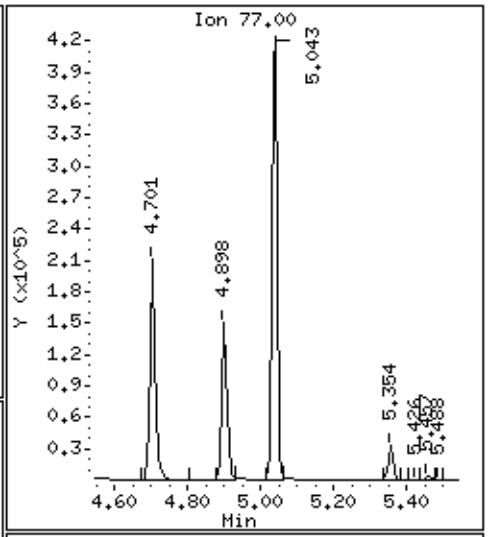
Concentration: 53.70 ug

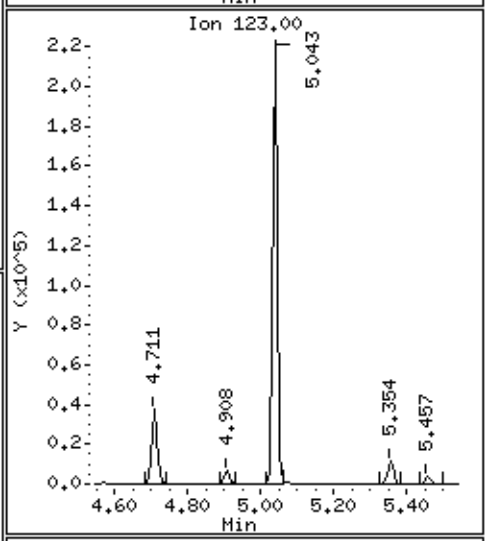


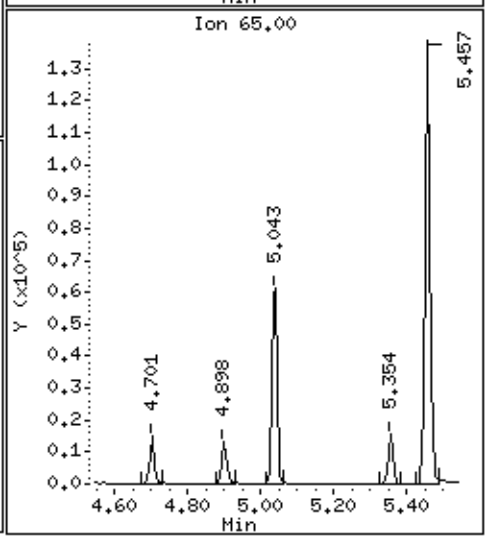












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

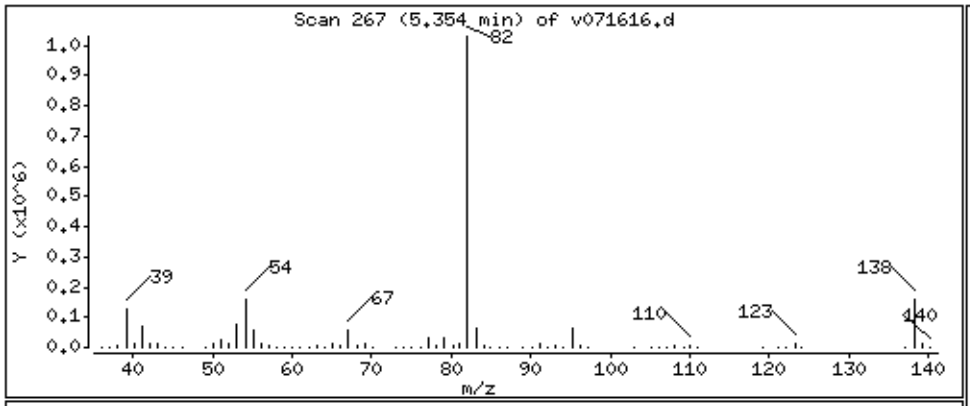
Operator: rn

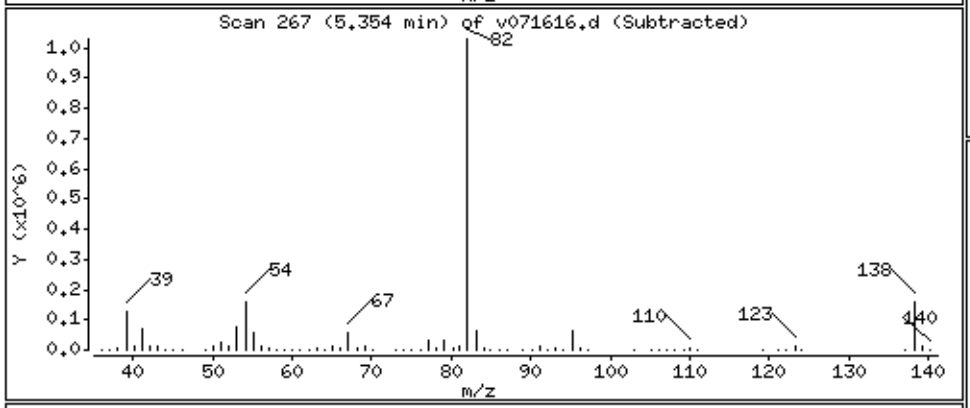
Column phase: DB-5.625

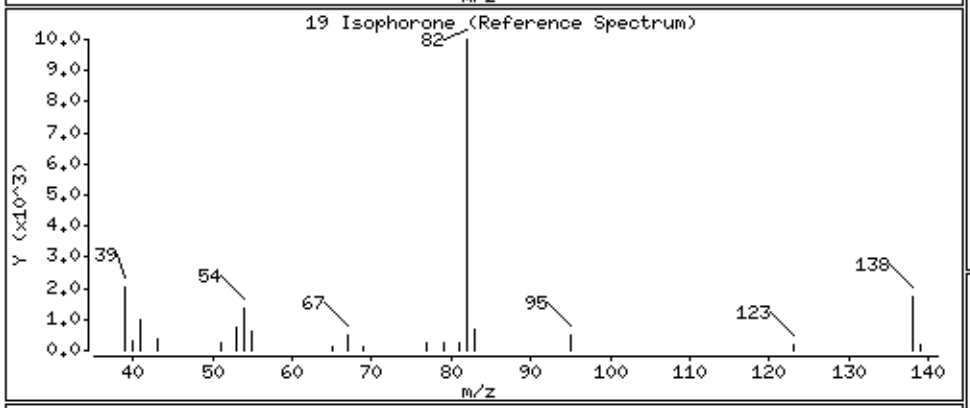
Column diameter: 0.25

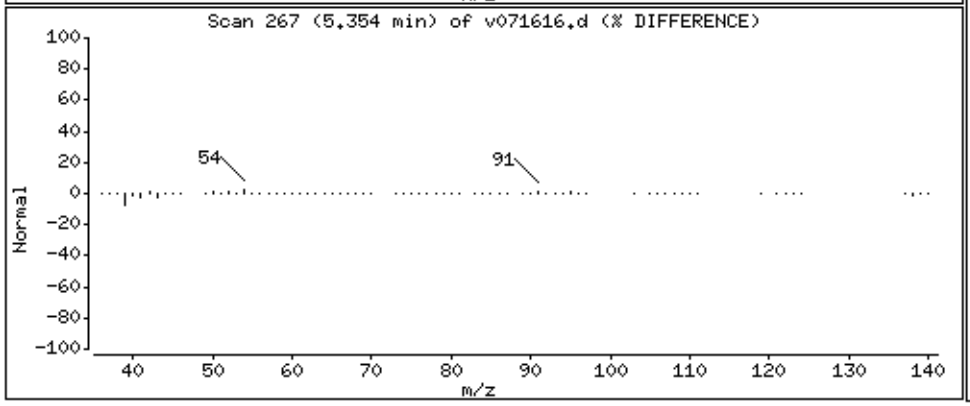
19 Isophorone

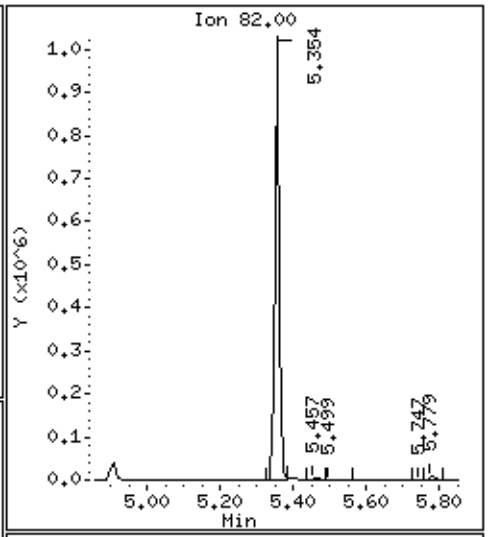
Concentration: 54.50 ug

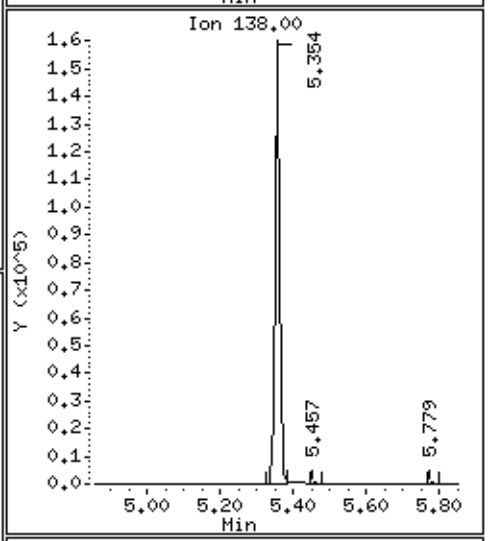


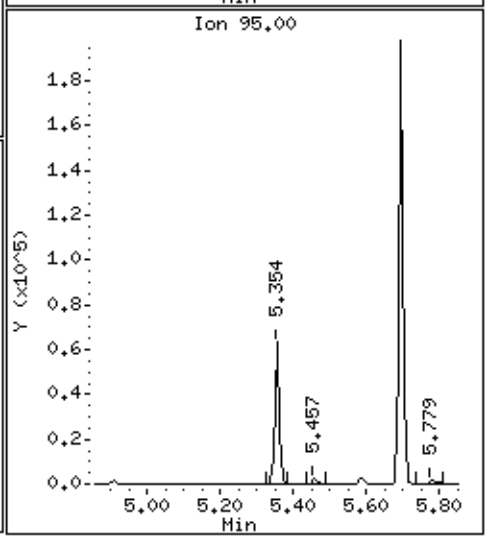












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

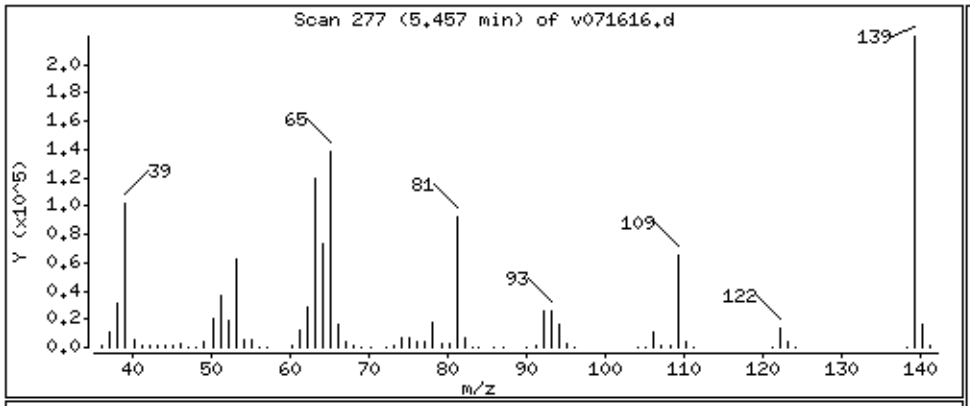
Operator: rn

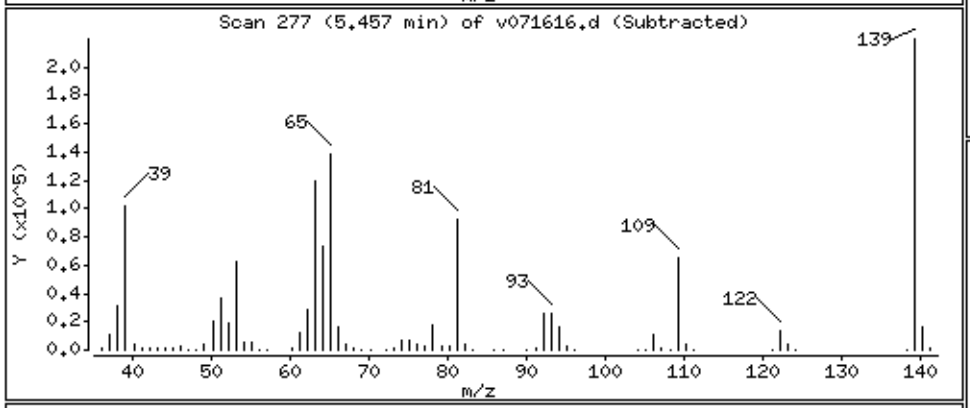
Column phase: DB-5.625

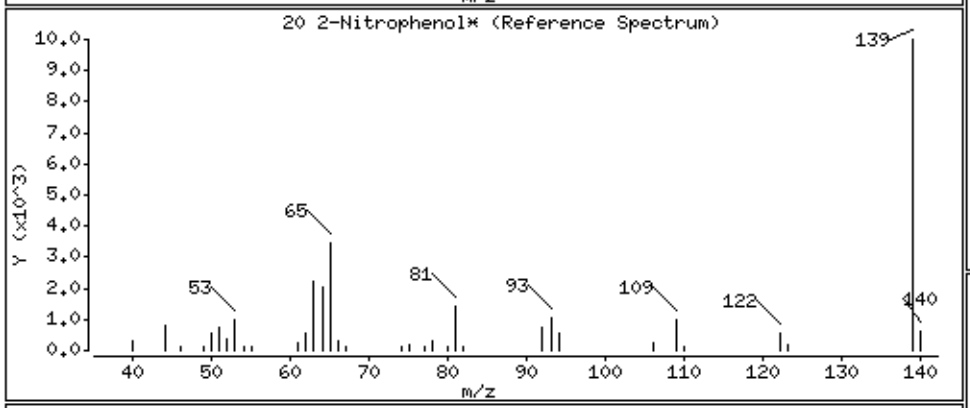
Column diameter: 0.25

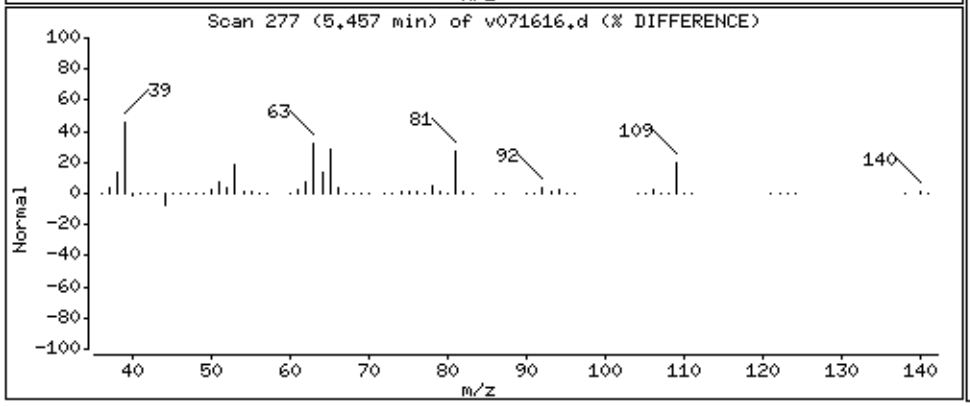
20 2-Nitrophenol*

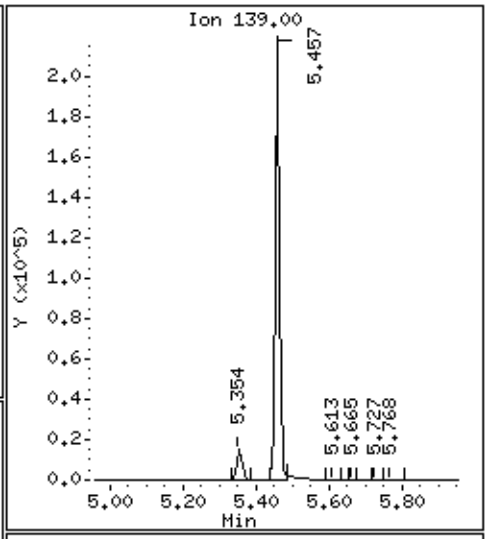
Concentration: 53.63 ug

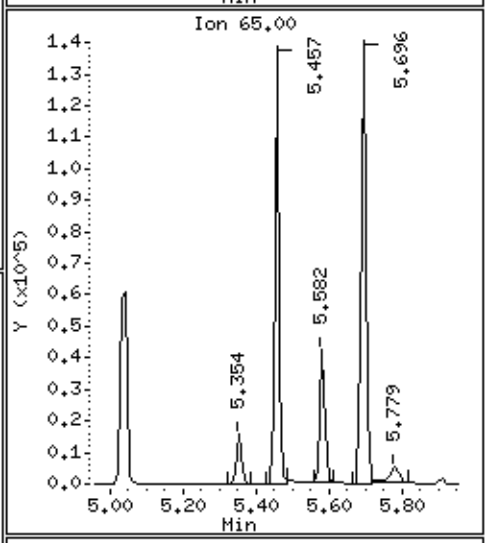


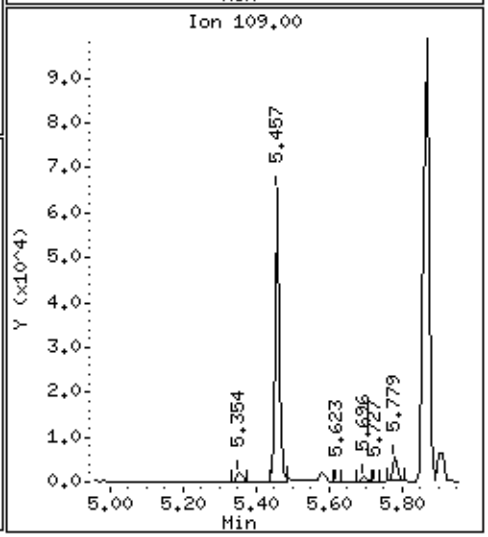












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

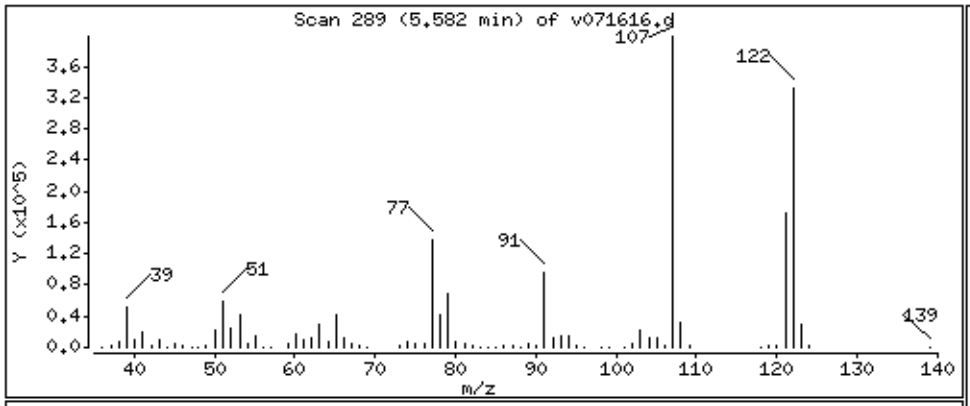
Operator: rn

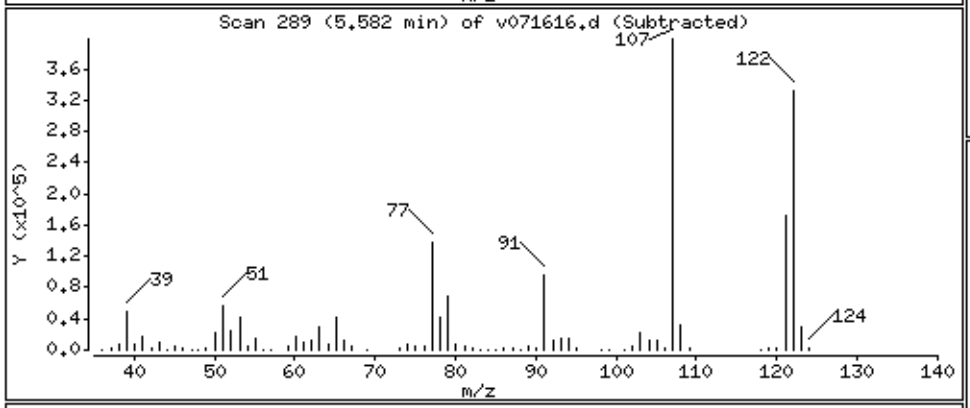
Column phase: DB-5.625

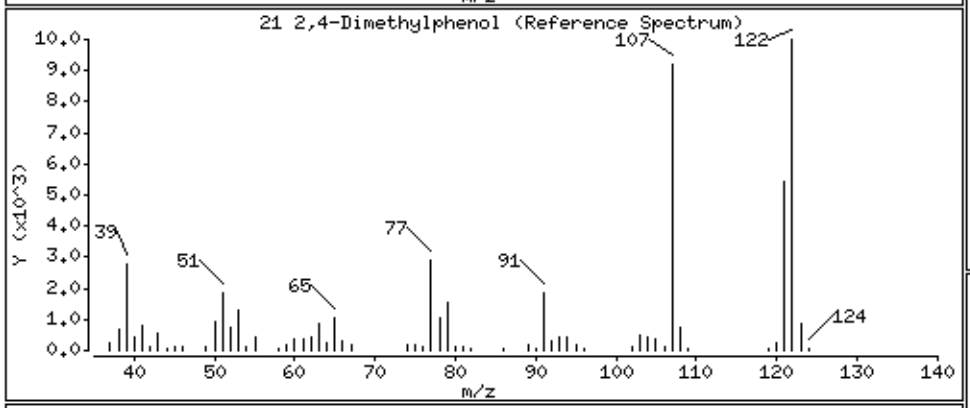
Column diameter: 0.25

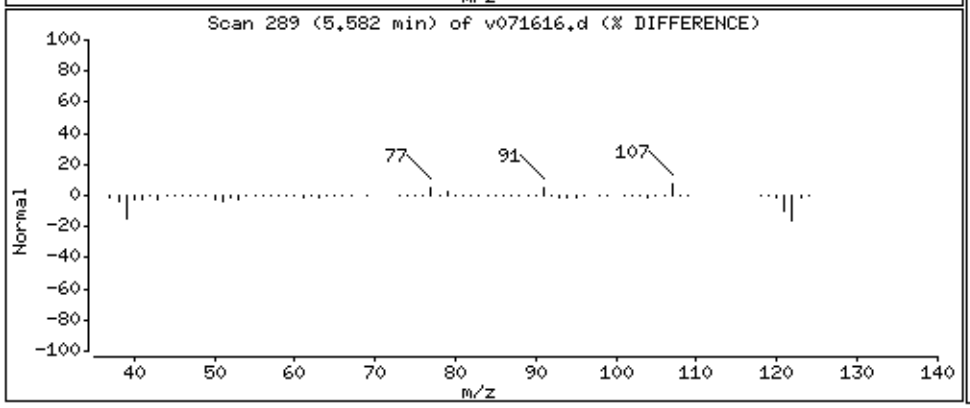
21 2,4-Dimethylphenol

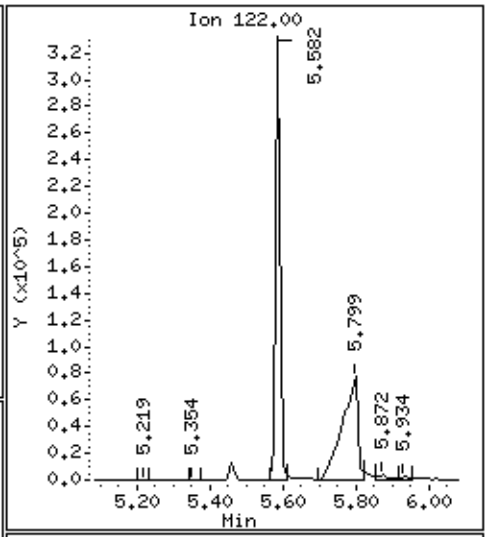
Concentration: 48.22 ug

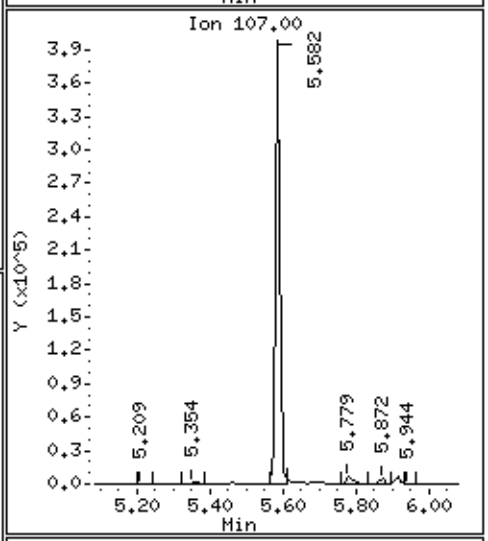


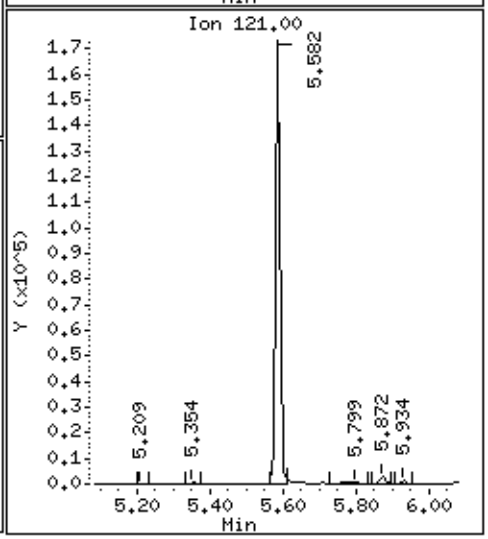












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

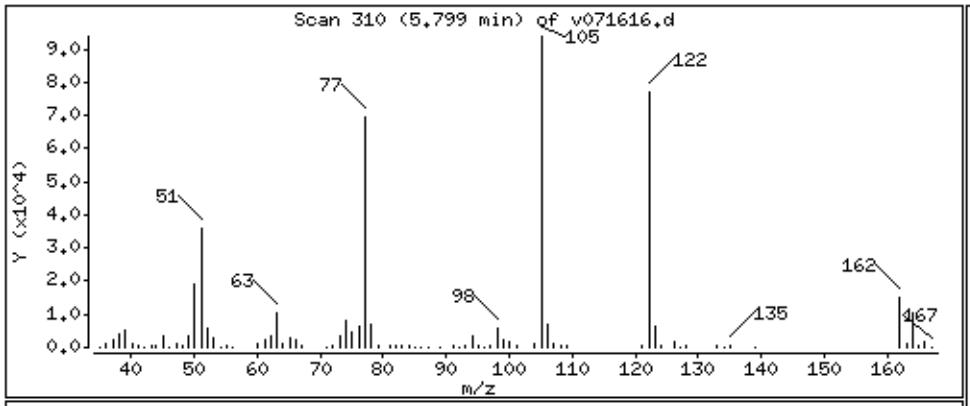
Operator: rn

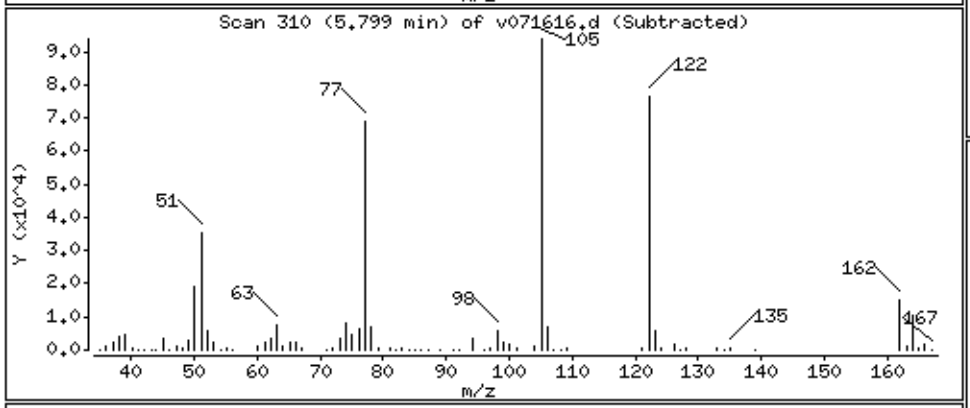
Column phase: DB-5.625

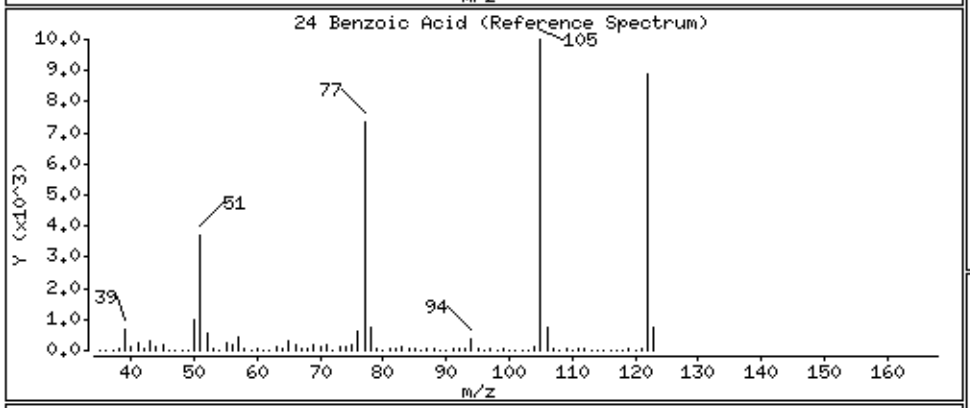
Column diameter: 0.25

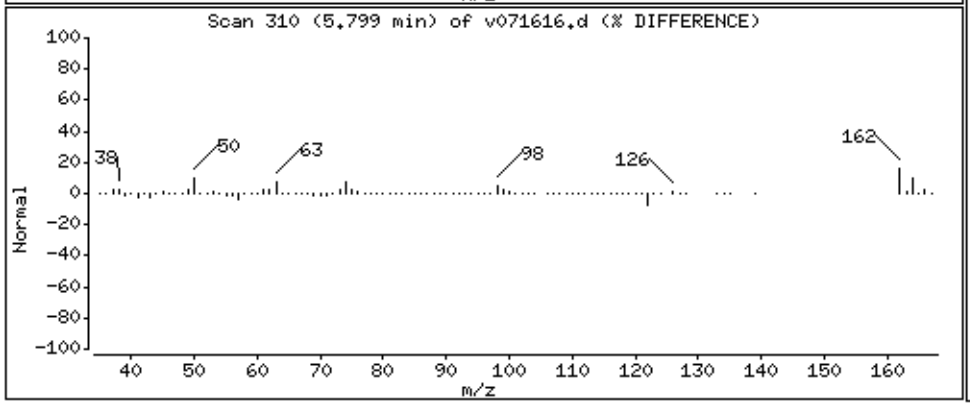
24 Benzoic Acid

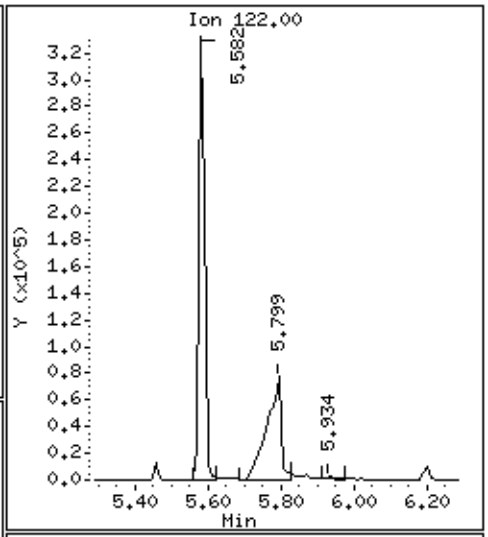
Concentration: 57.00 ug

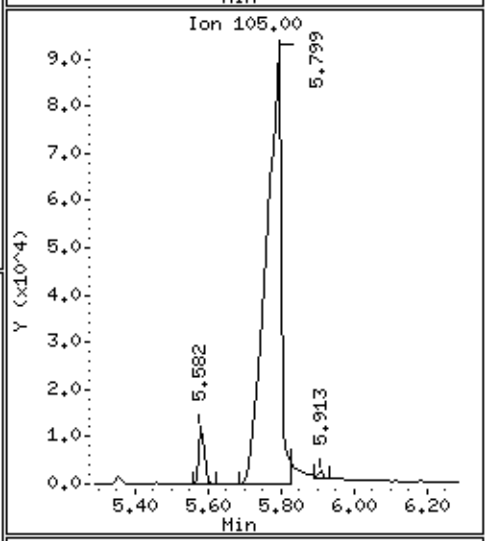


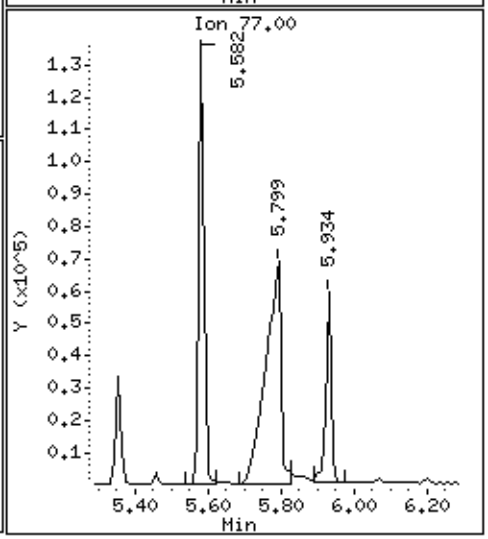












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

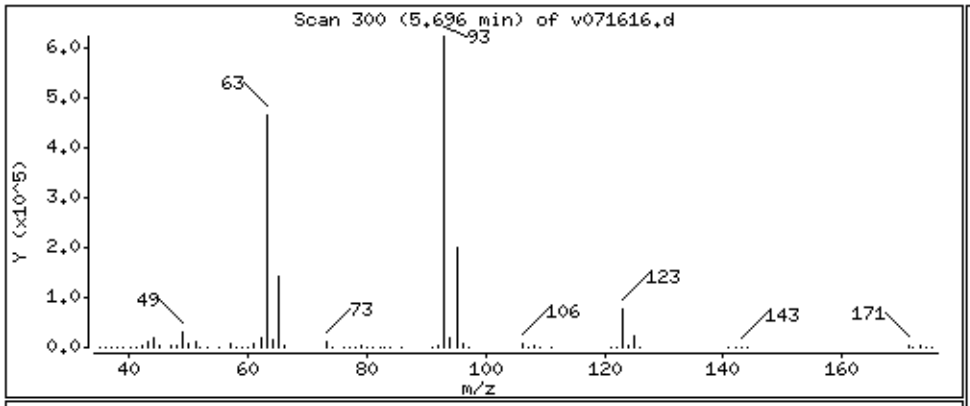
Operator: rn

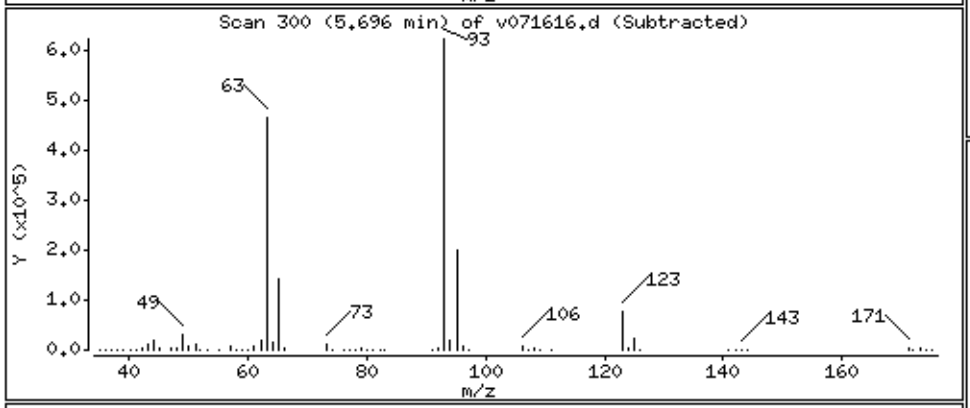
Column phase: DB-5.625

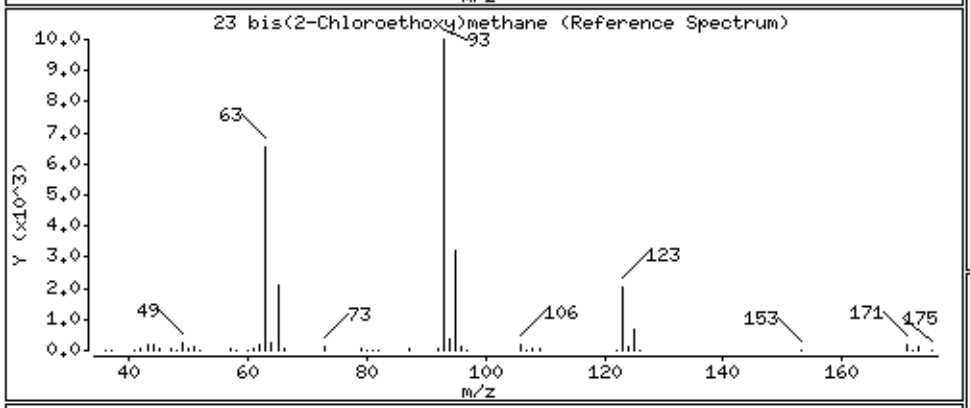
Column diameter: 0.25

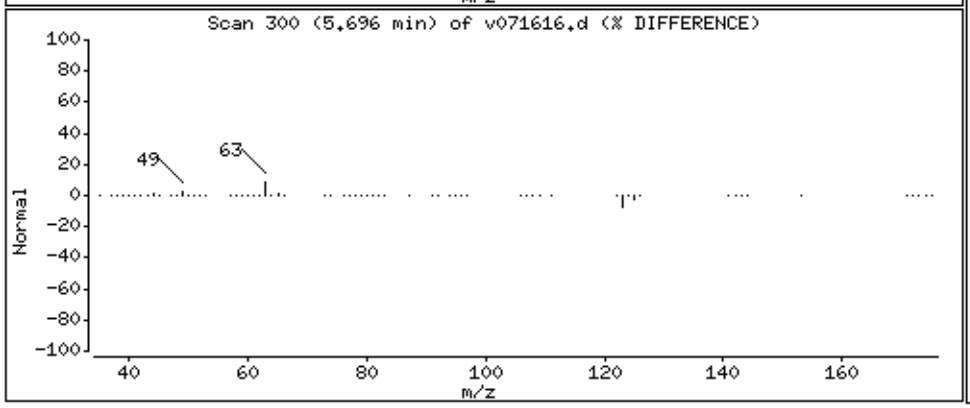
23 bis(2-Chloroethoxy)methane

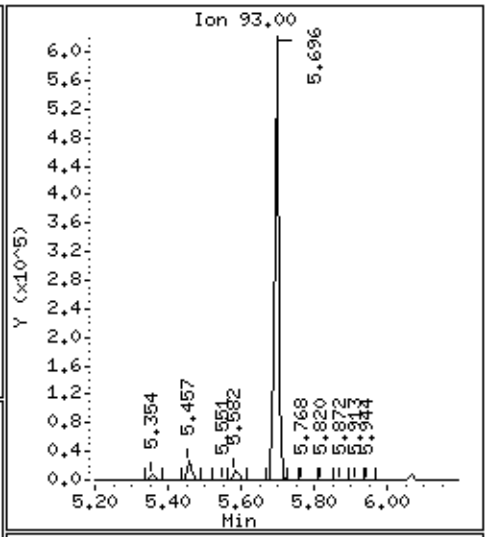
Concentration: 49.18 ug

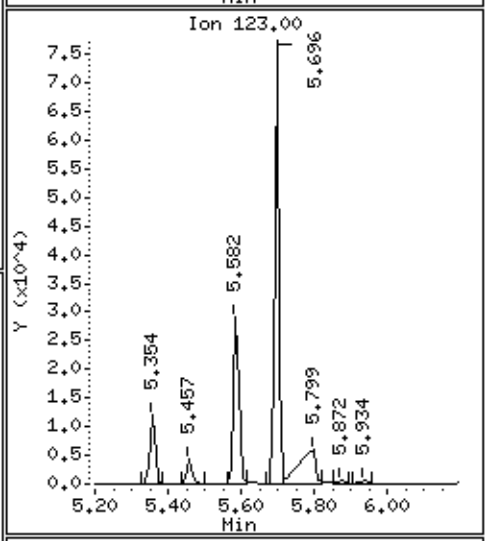


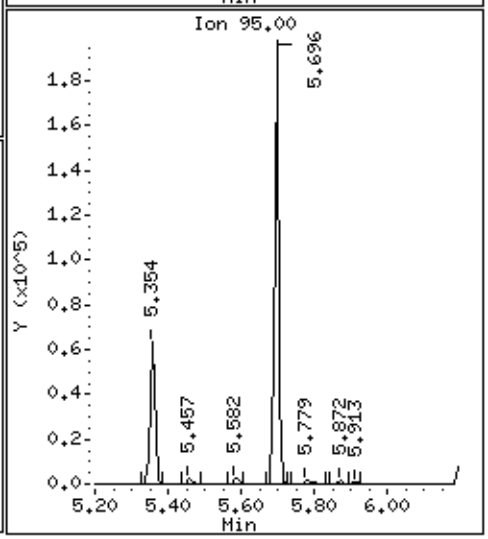












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

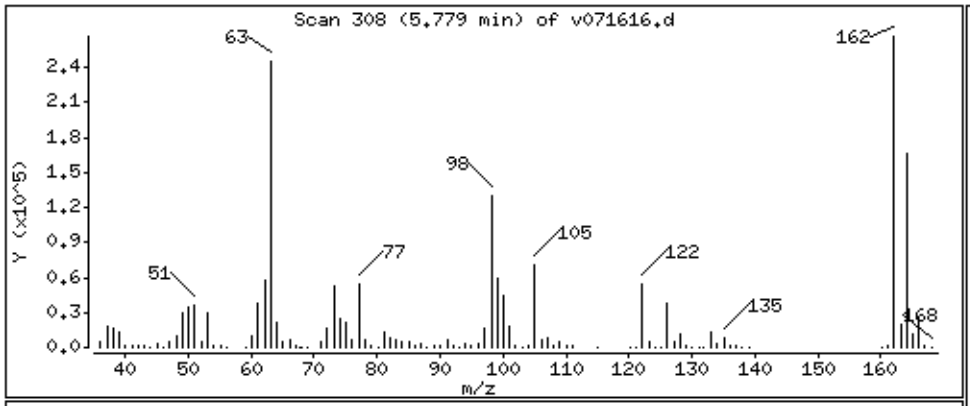
Operator: rn

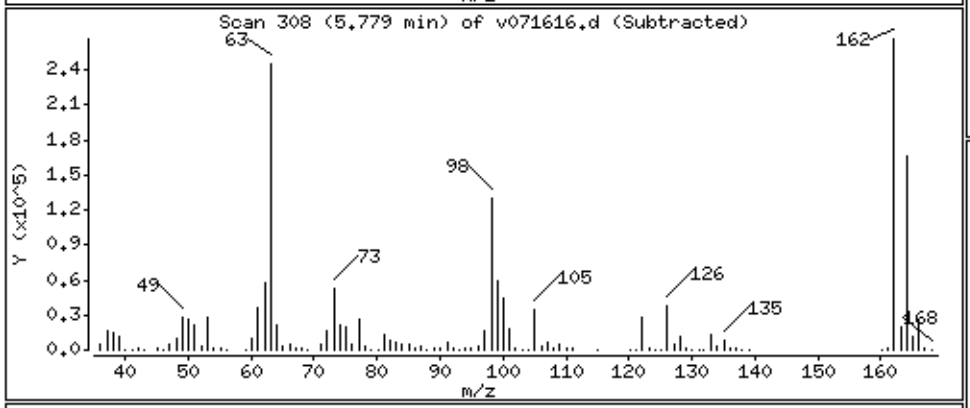
Column phase: DB-5.625

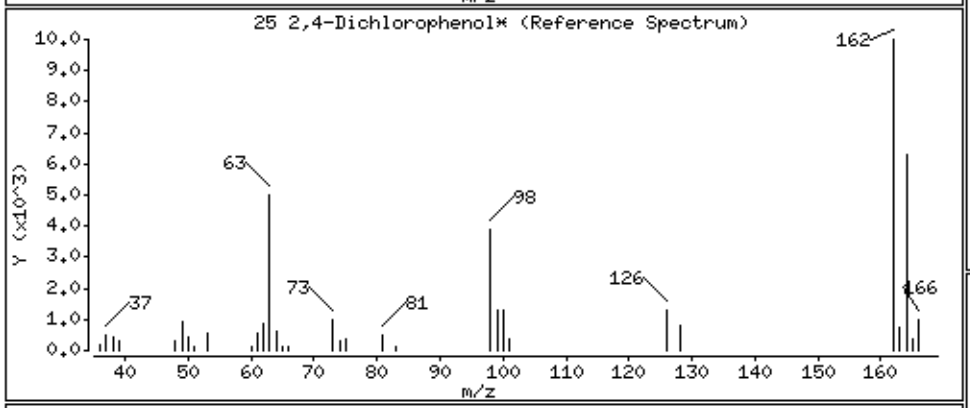
Column diameter: 0.25

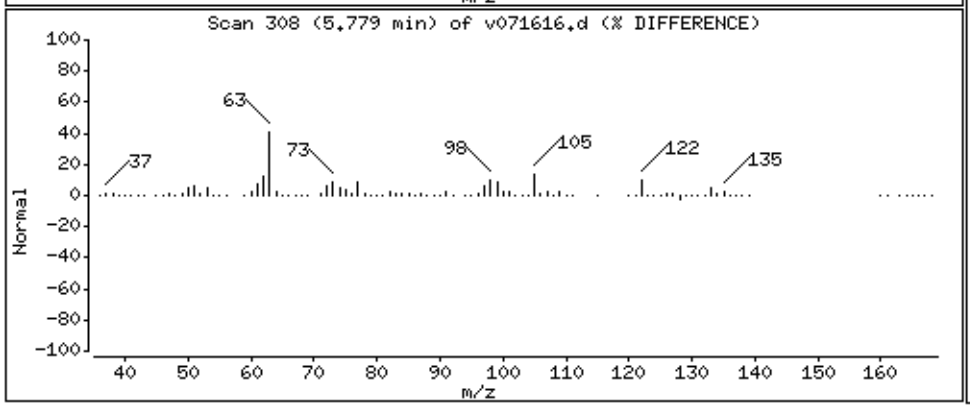
25 2,4-Dichlorophenol*

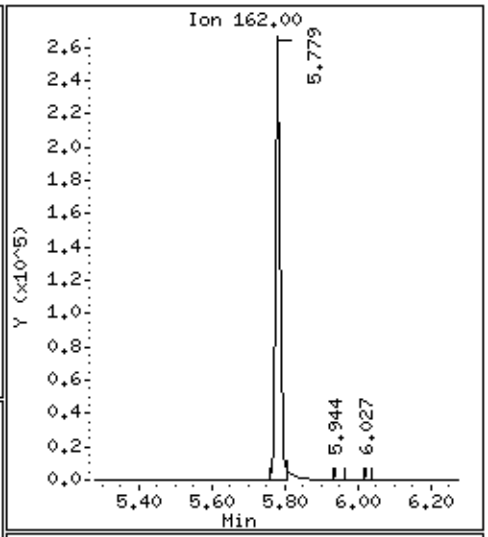
Concentration: 51.20 ug

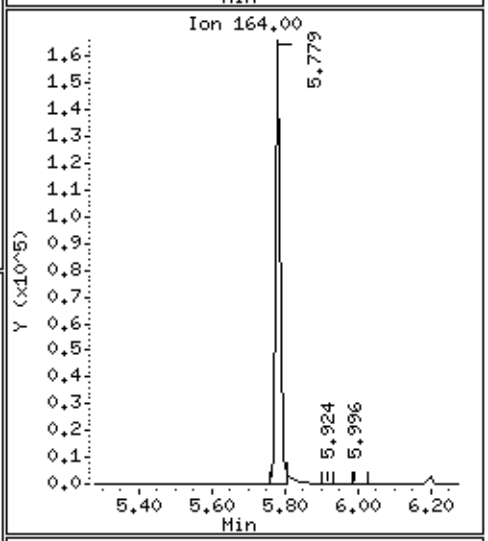


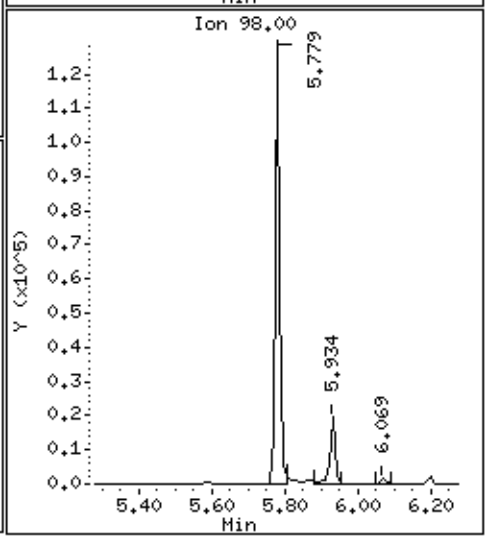












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

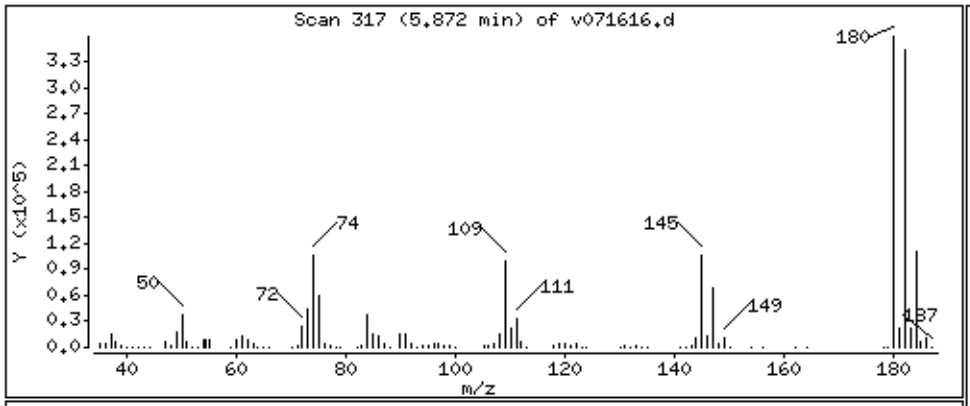
Operator: rn

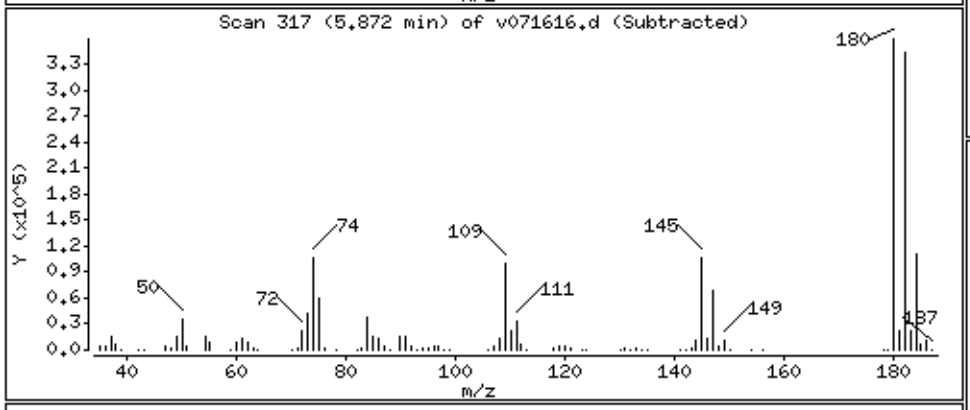
Column phase: DB-5.625

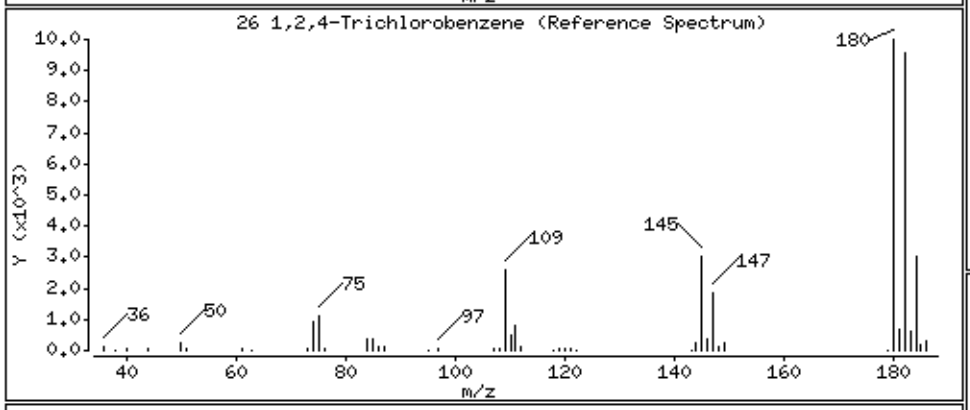
Column diameter: 0.25

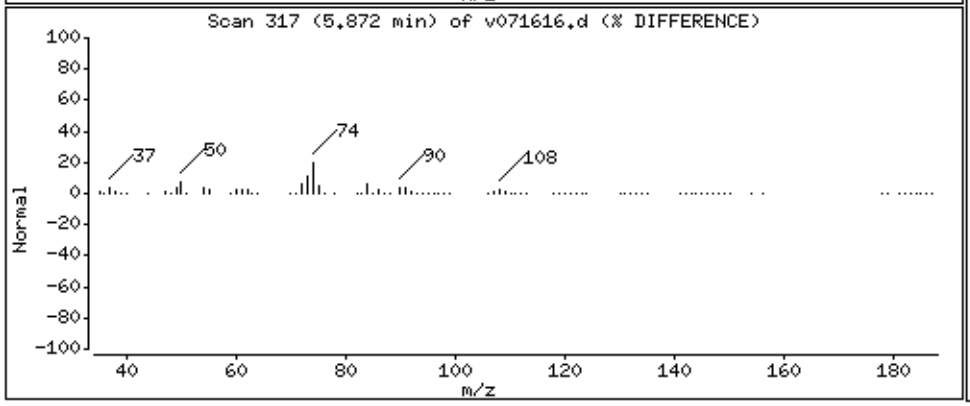
26 1,2,4-Trichlorobenzene

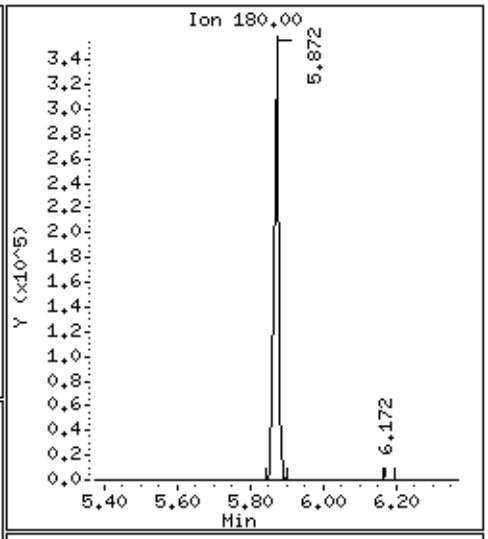
Concentration: 49.53 ug

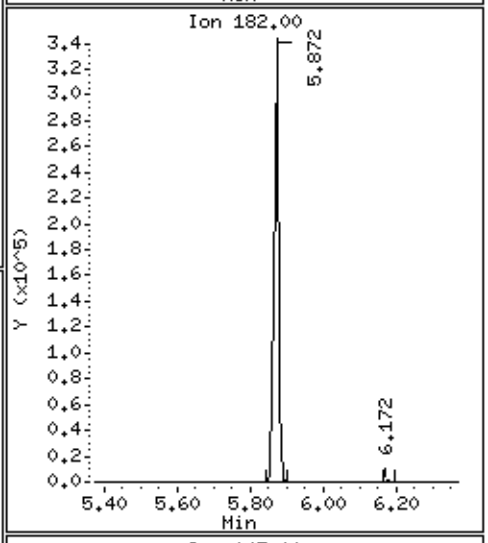


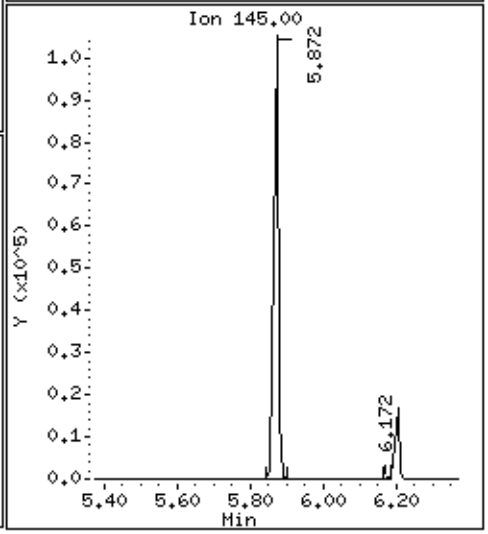












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

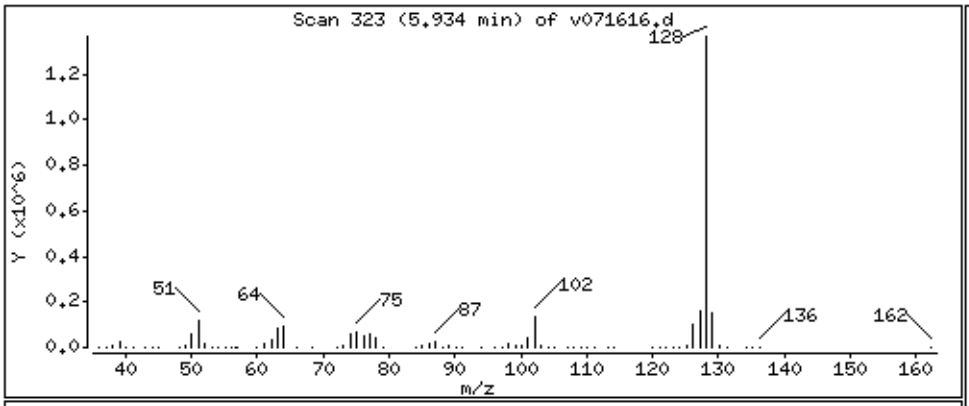
Operator: rn

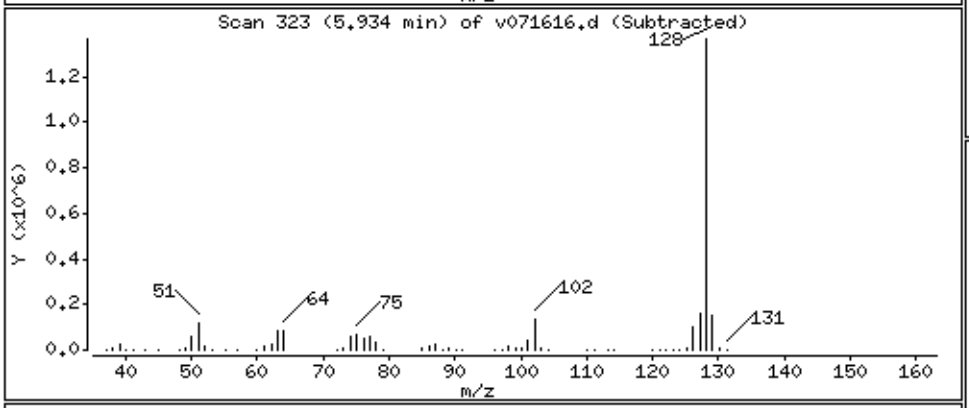
Column phase: DB-5.625

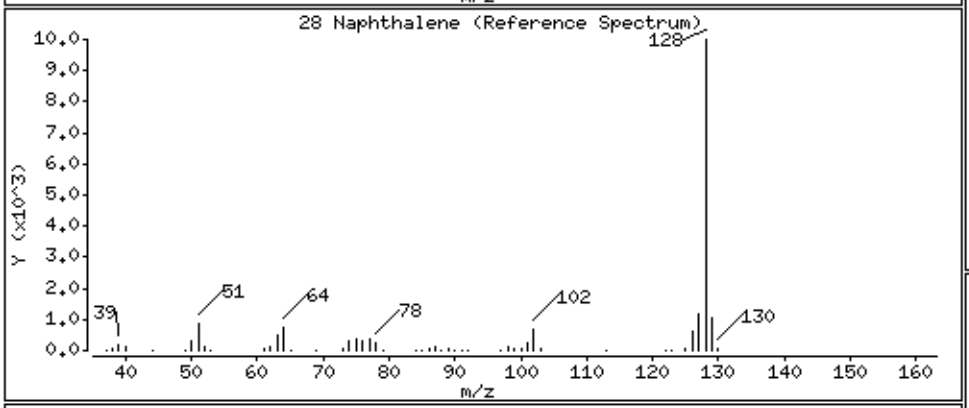
Column diameter: 0.25

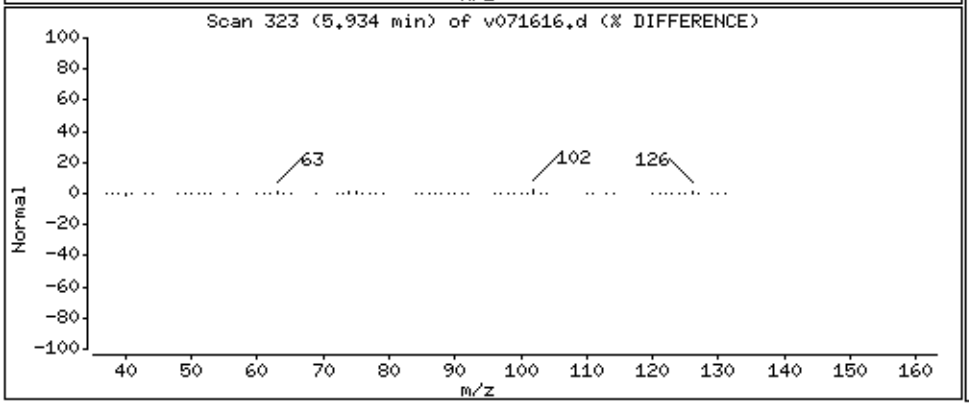
28 Naphthalene

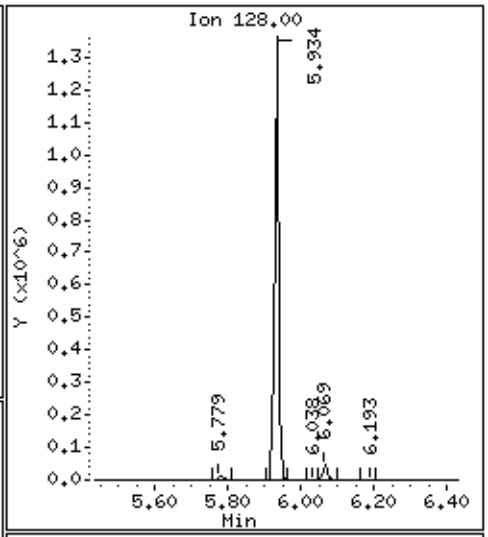
Concentration: 47.56 ug

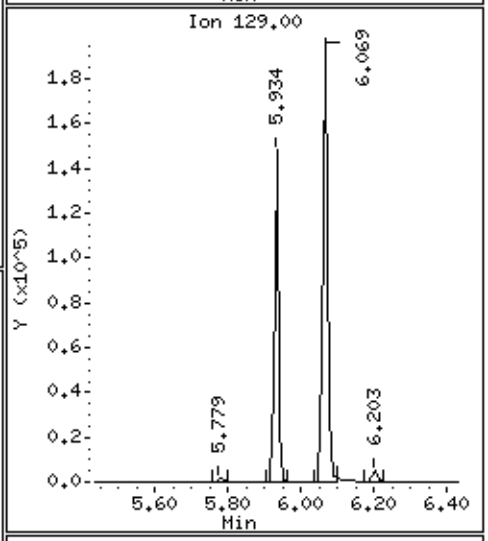


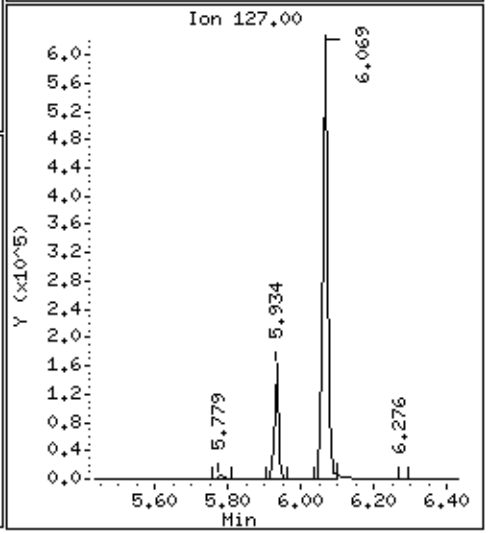












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

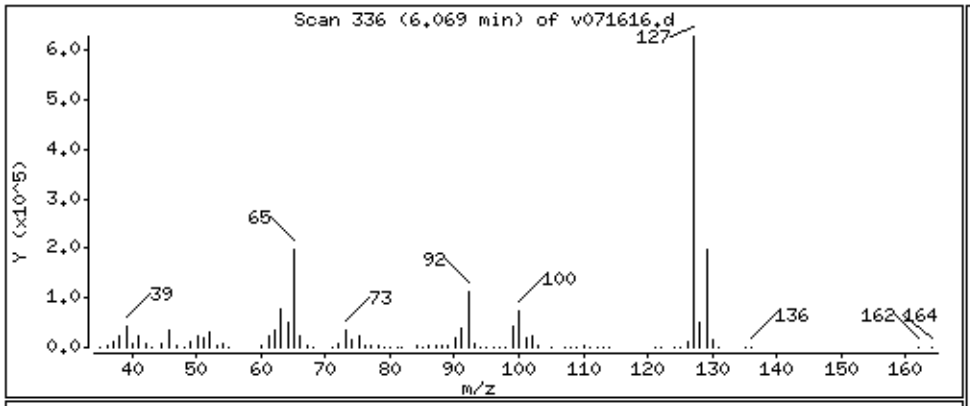
Operator: rn

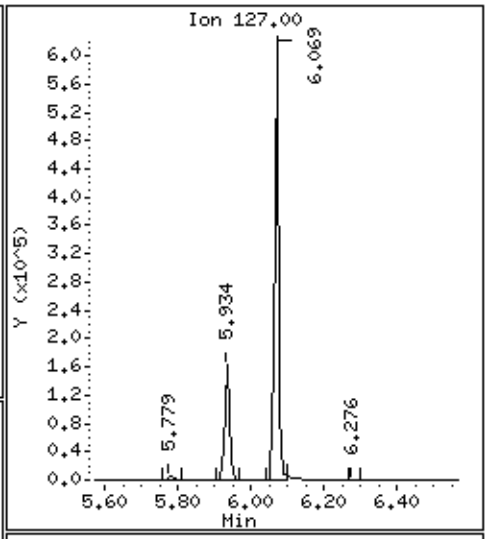
Column phase: DB-5.625

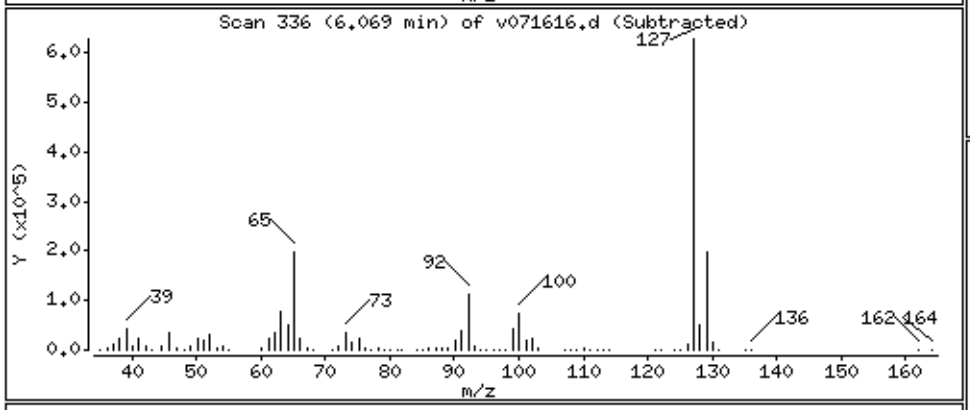
Column diameter: 0.25

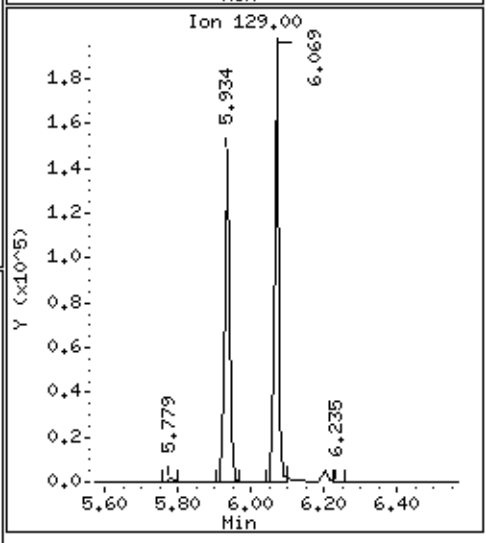
29 4-Chloroaniline

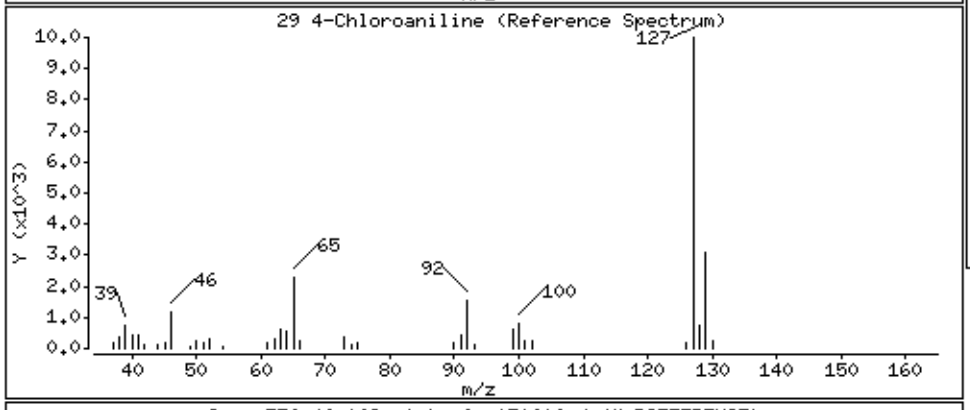
Concentration: 51.75 ug

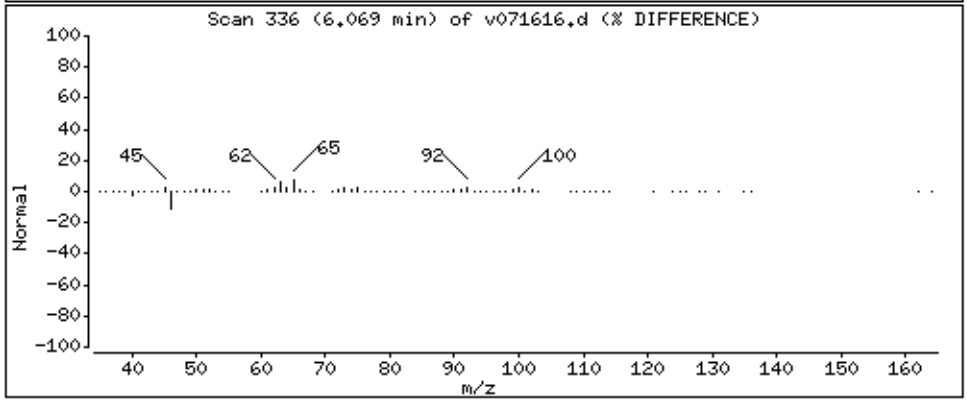












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

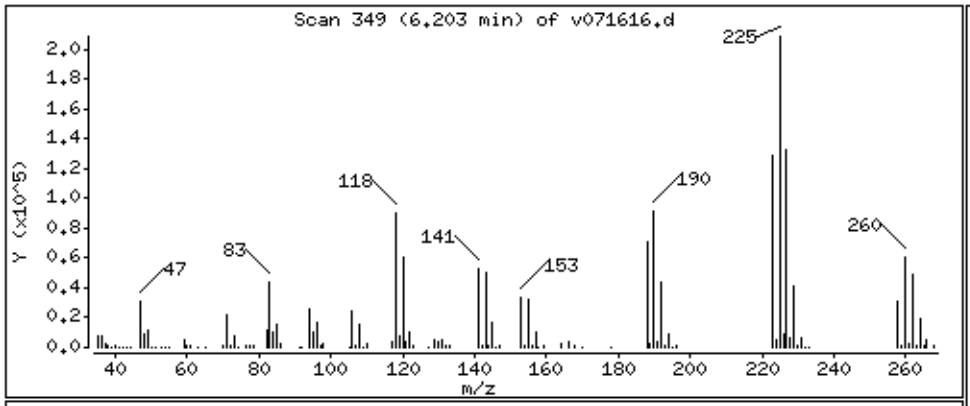
Operator: rn

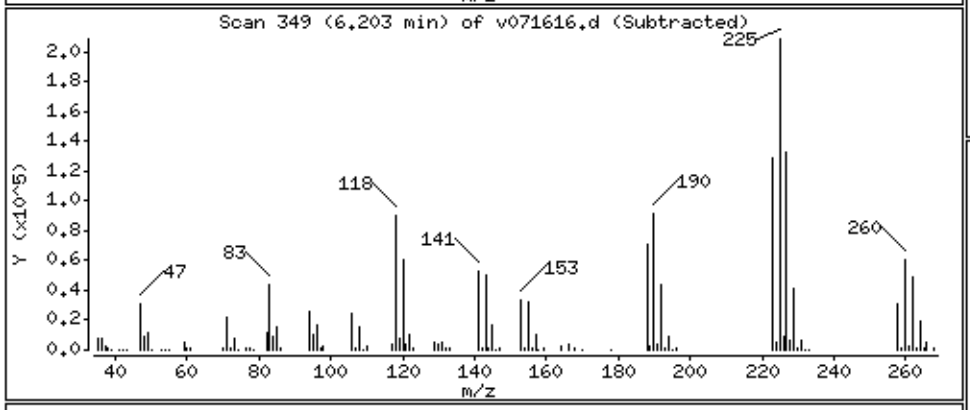
Column phase: DB-5.625

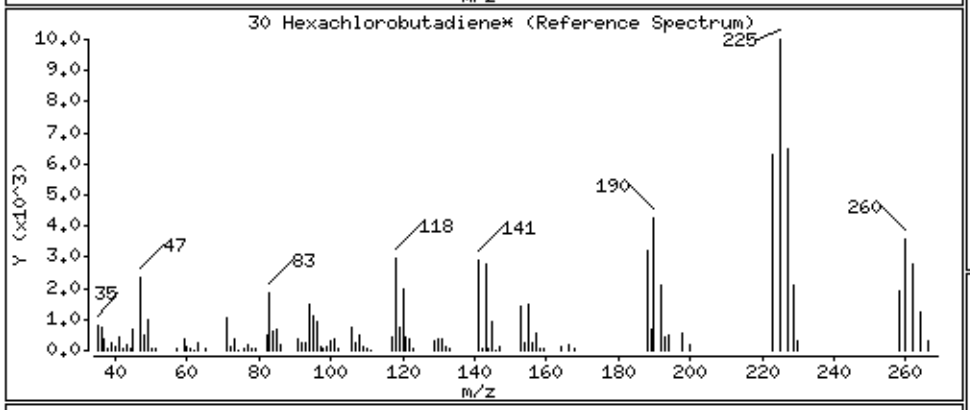
Column diameter: 0.25

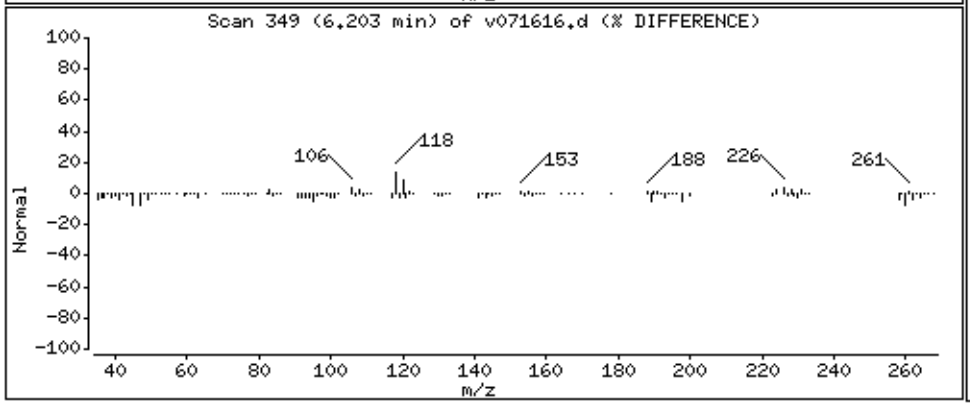
30 Hexachlorobutadiene*

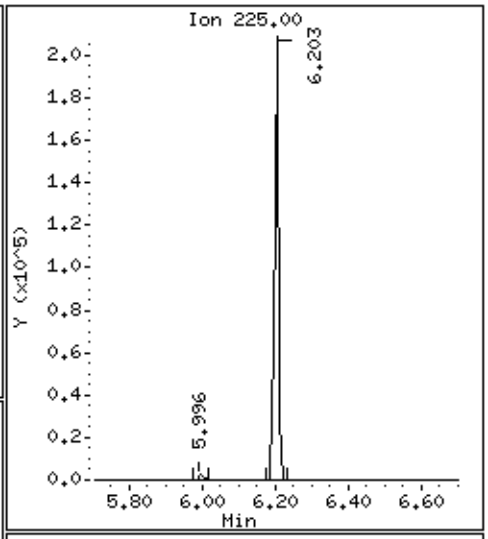
Concentration: 50.79 ug

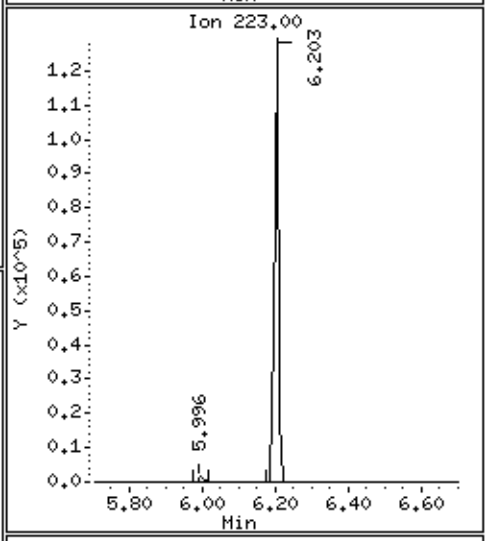


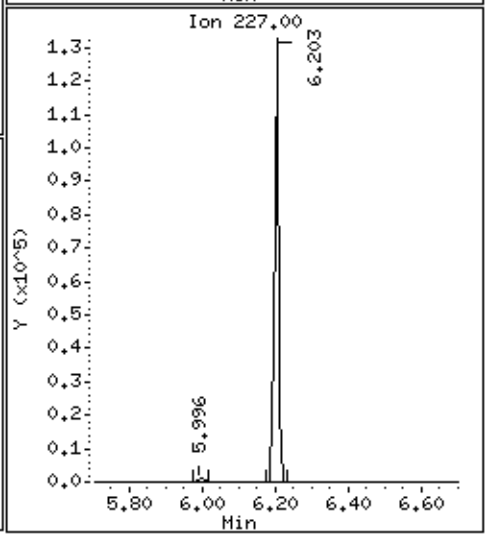












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

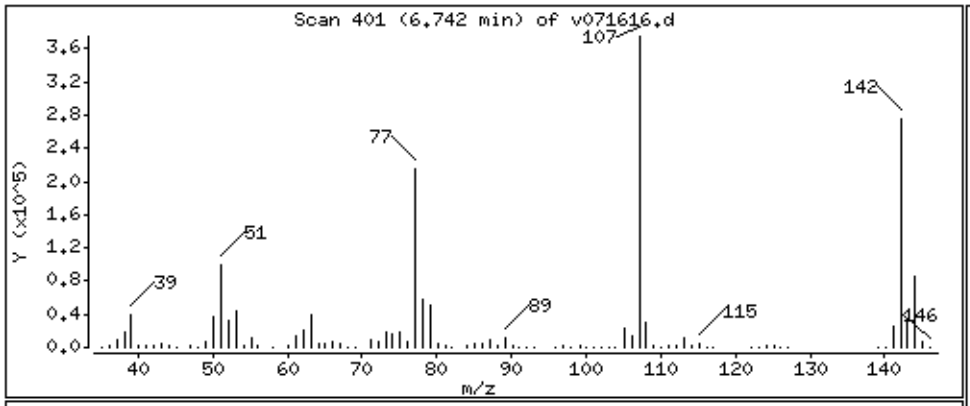
Operator: rn

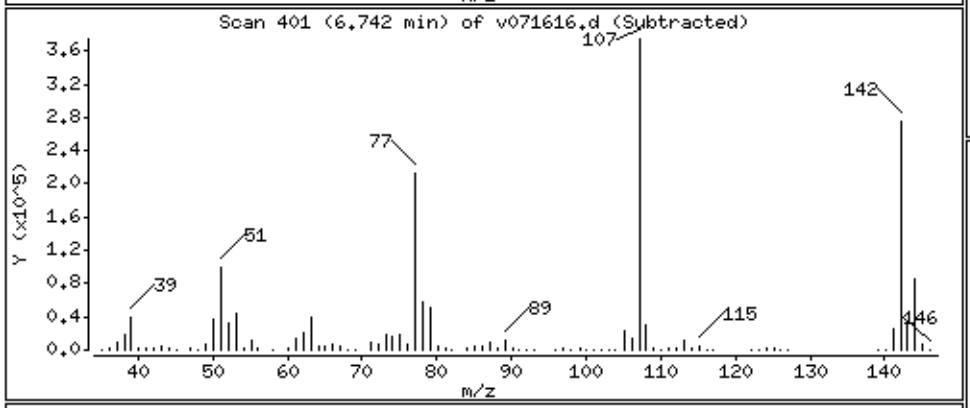
Column phase: DB-5.625

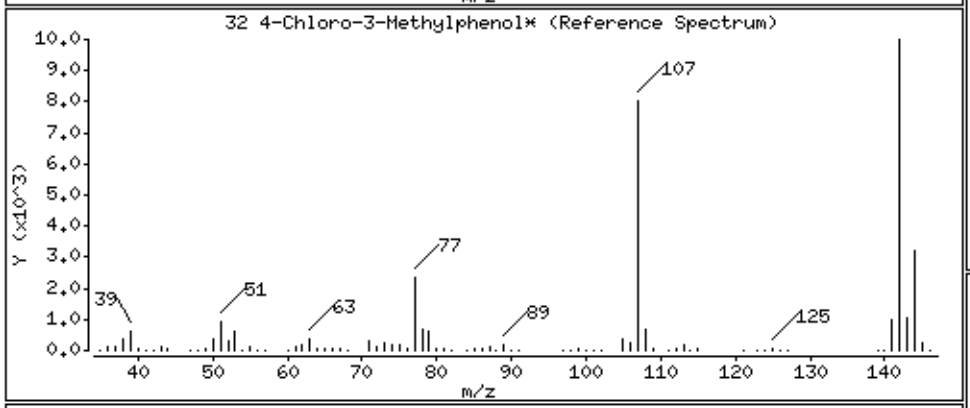
Column diameter: 0.25

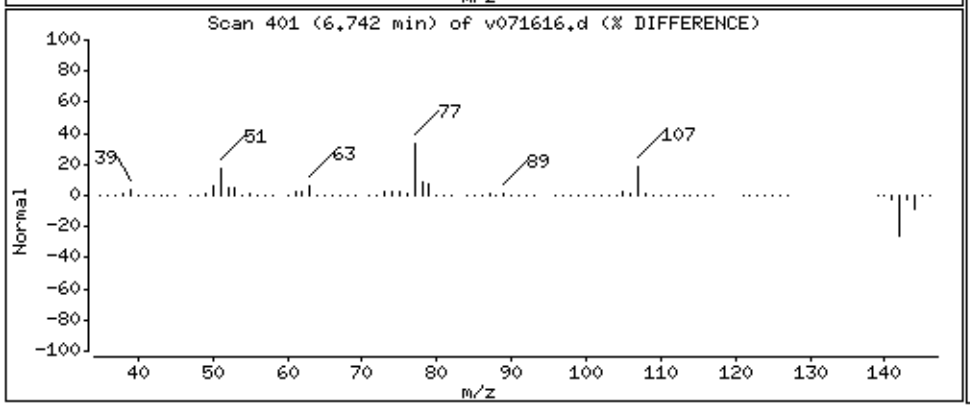
32 4-Chloro-3-Methylphenol*

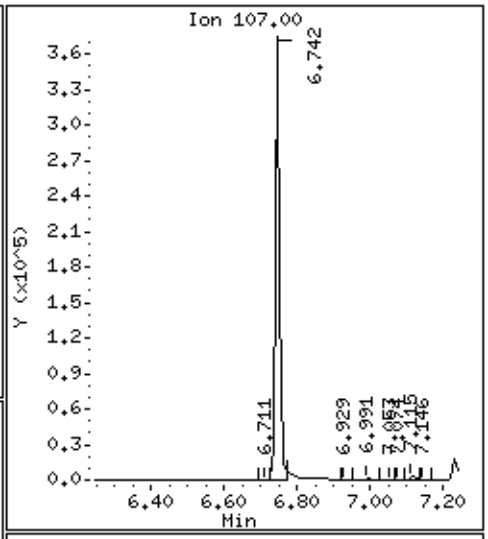
Concentration: 52.43 ug

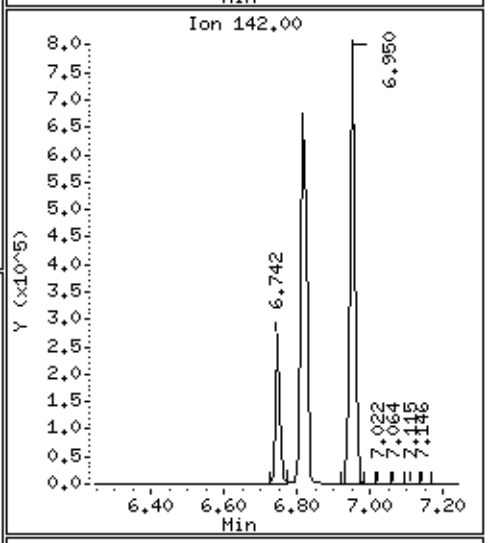


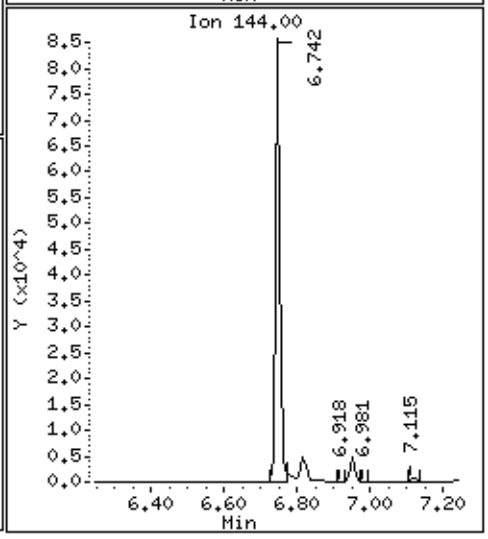












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

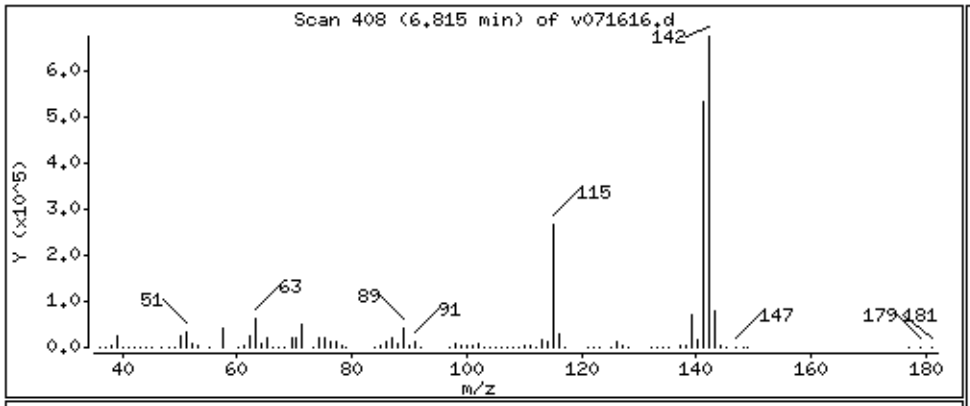
Operator: rn

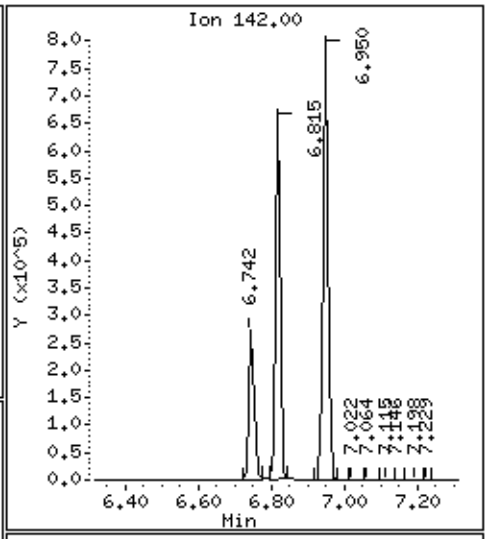
Column phase: DB-5.625

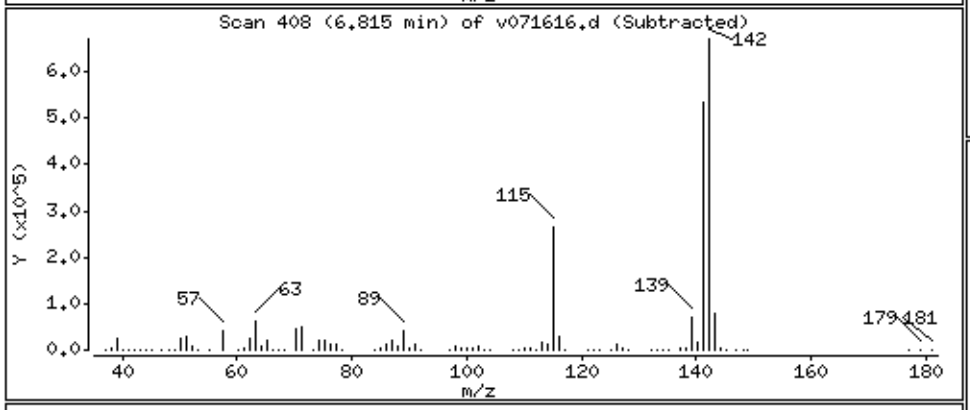
Column diameter: 0.25

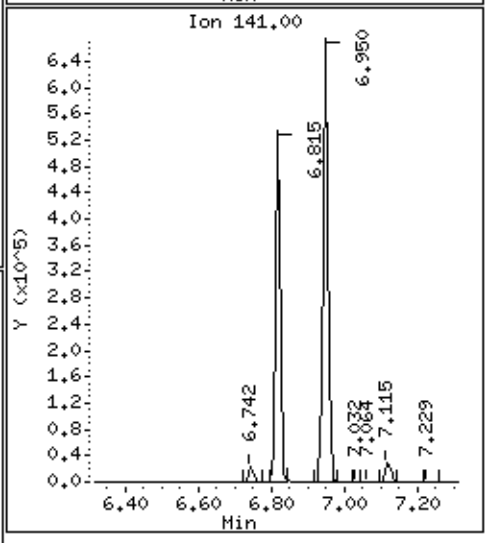
33 2-Methylnaphthalene

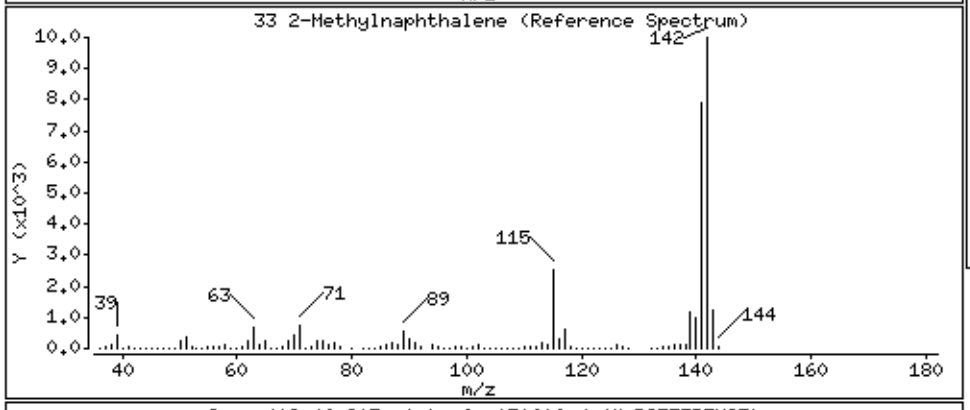
Concentration: 52.32 ug

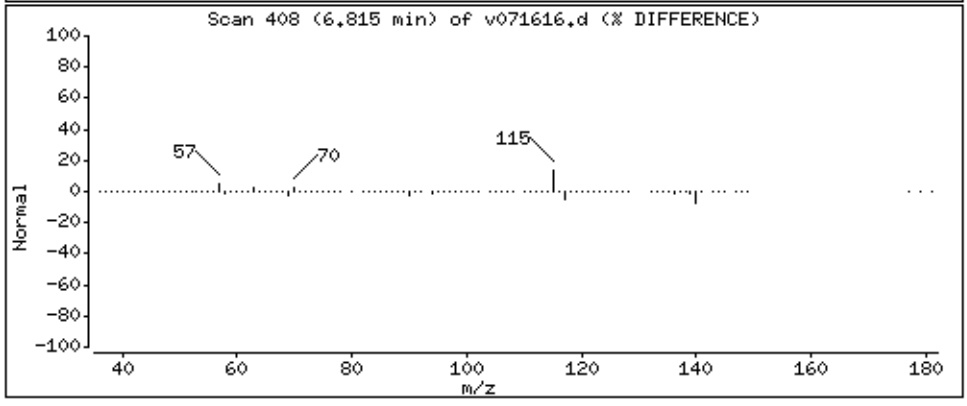












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

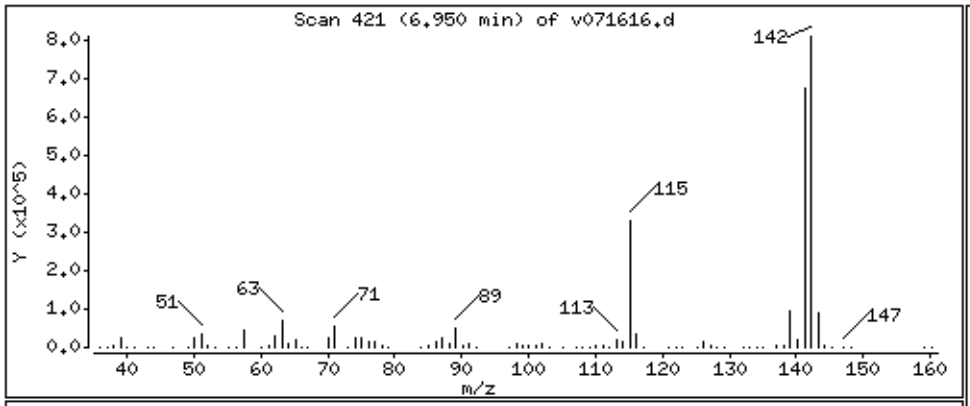
Operator: rn

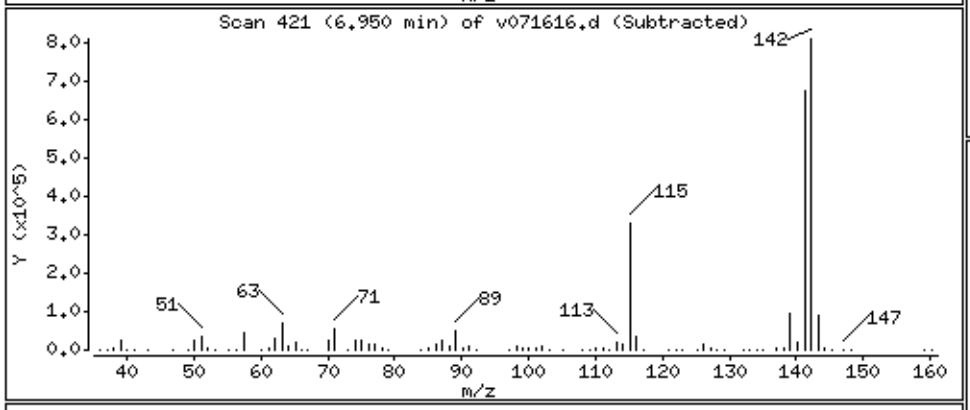
Column phase: DB-5.625

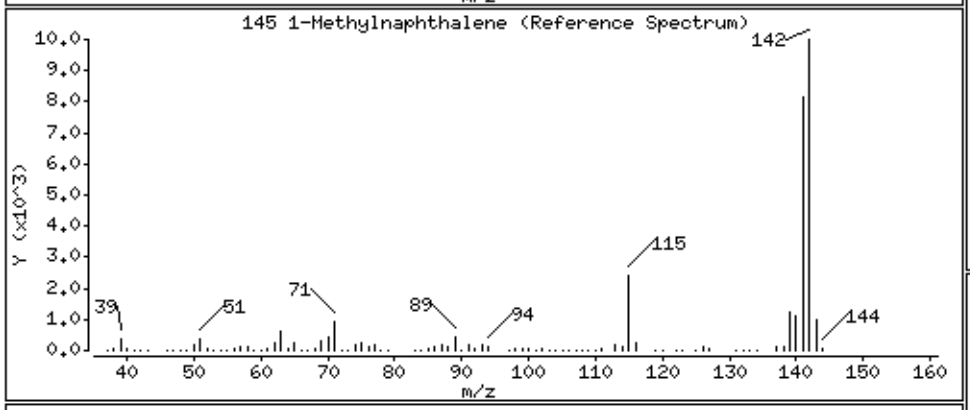
Column diameter: 0.25

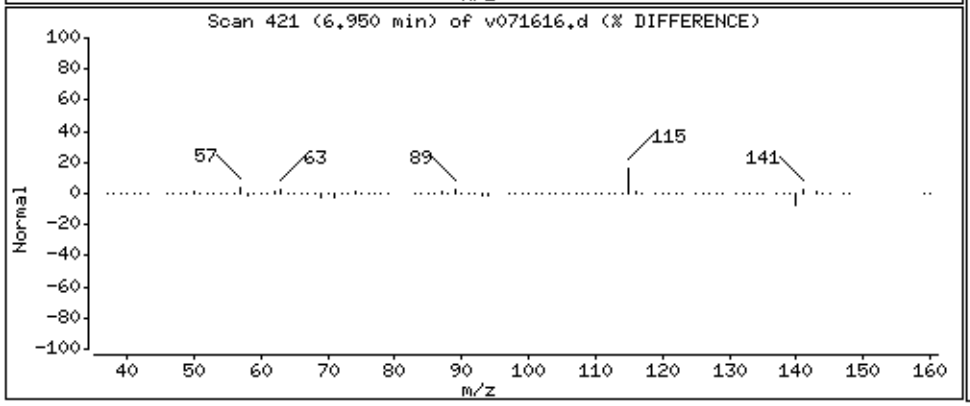
145 1-Methylnaphthalene

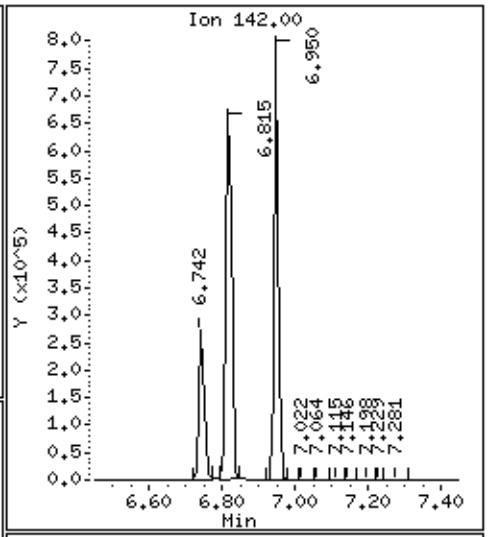
Concentration: 47.97 ug

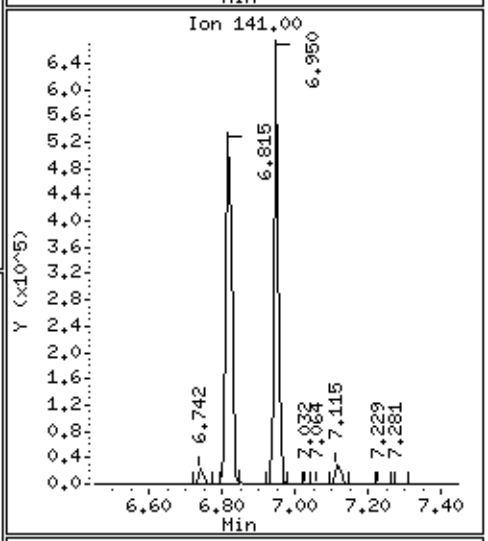


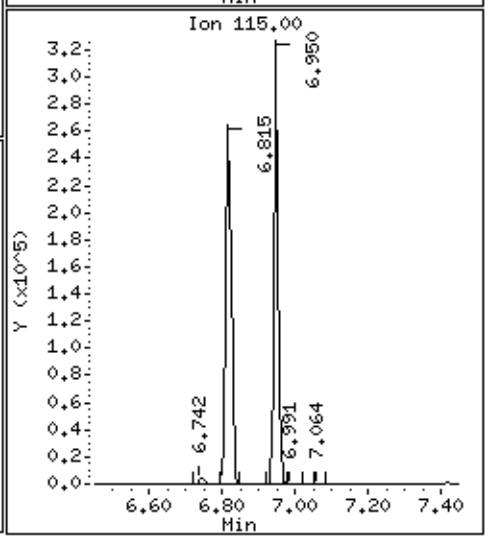












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

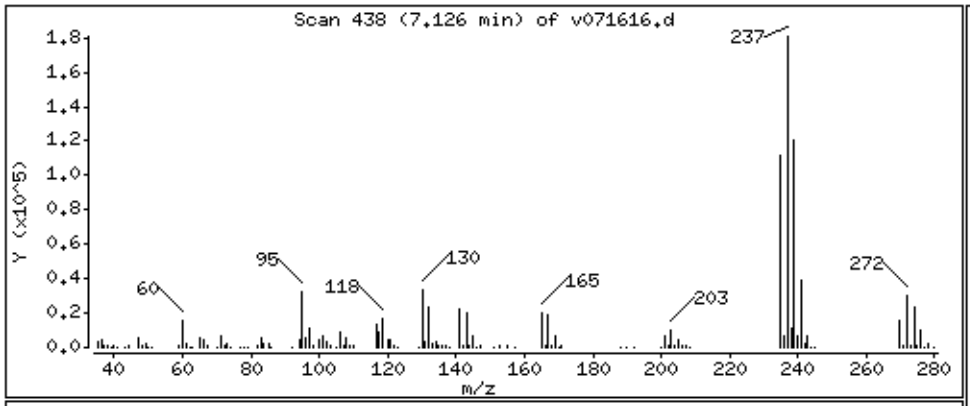
Operator: rn

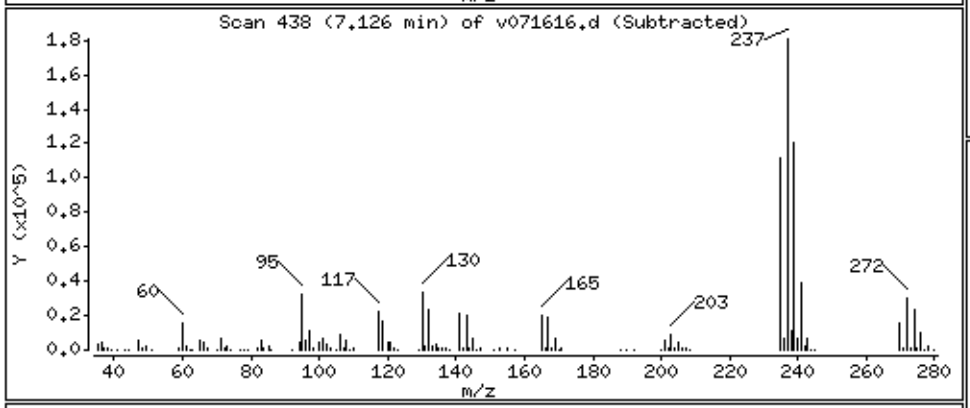
Column phase: DB-5.625

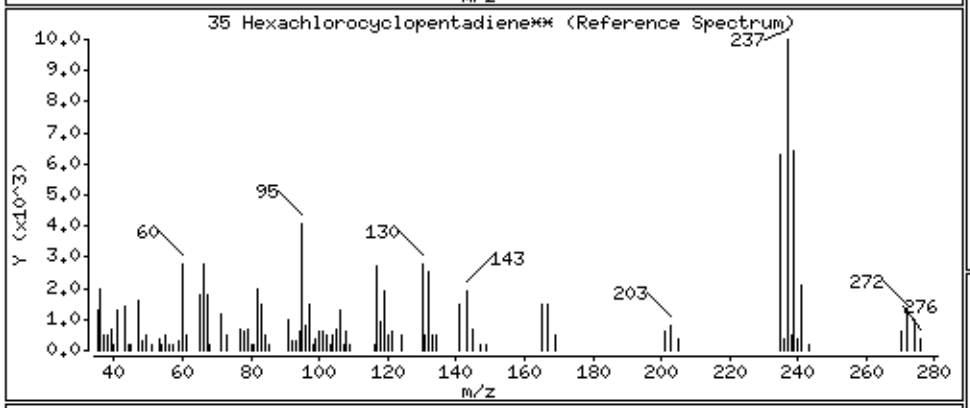
Column diameter: 0.25

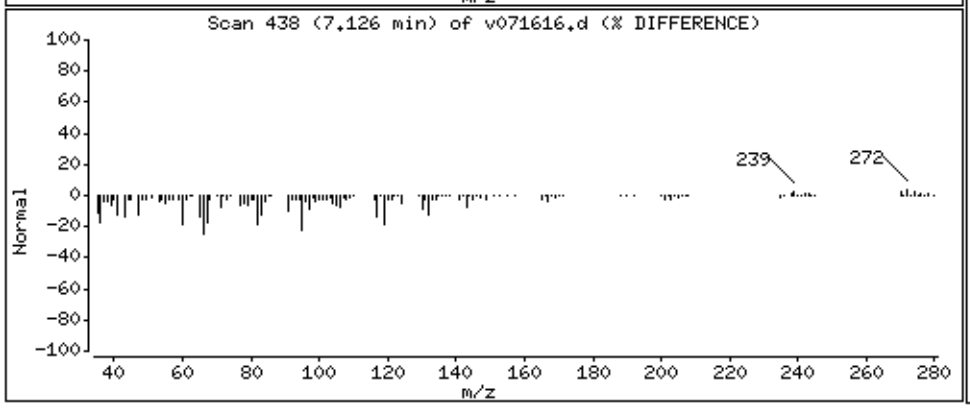
35 Hexachlorocyclopentadiene**

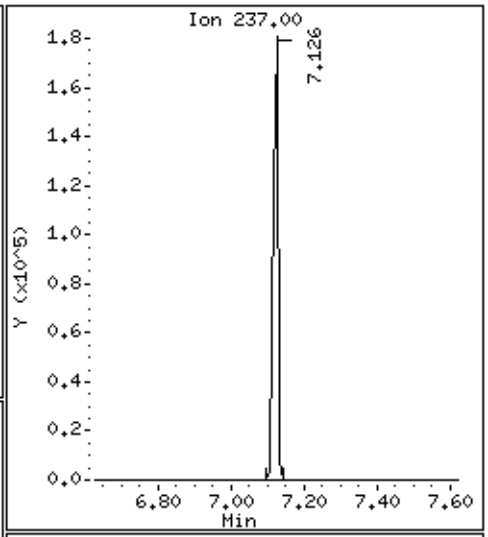
Concentration: 52.11 ug

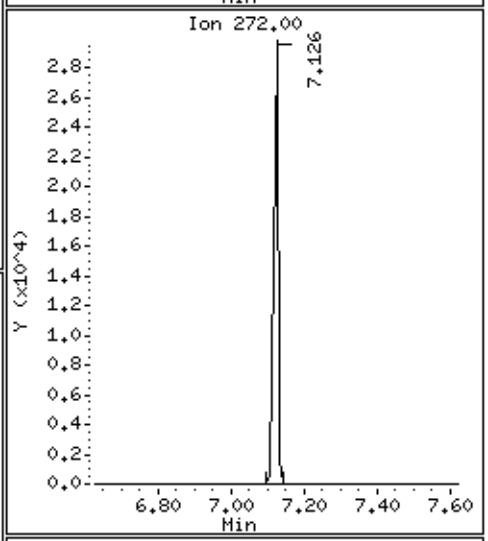


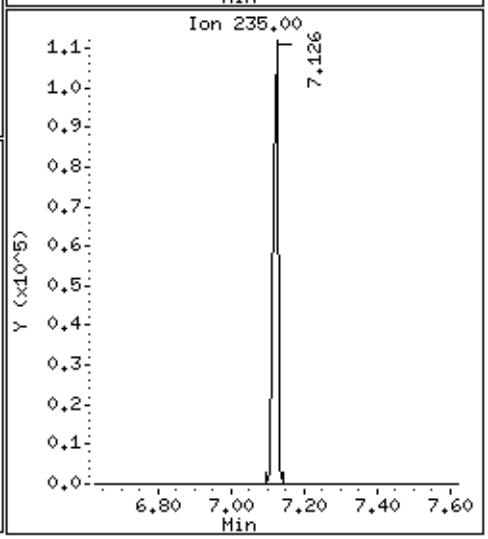












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

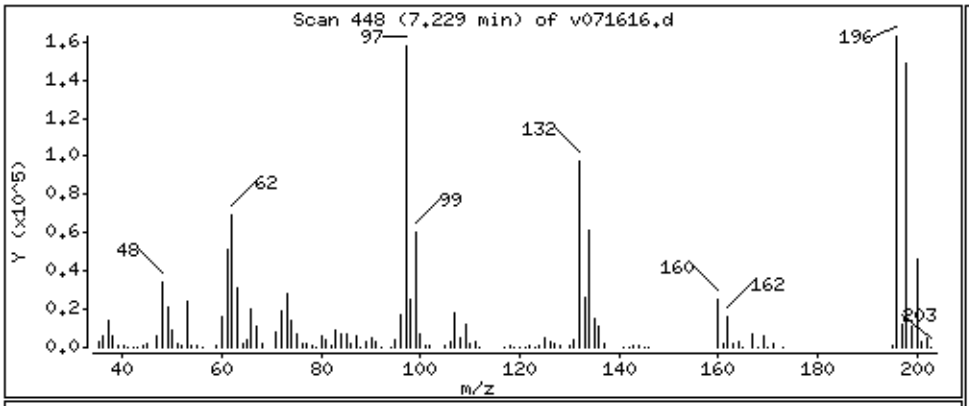
Operator: rn

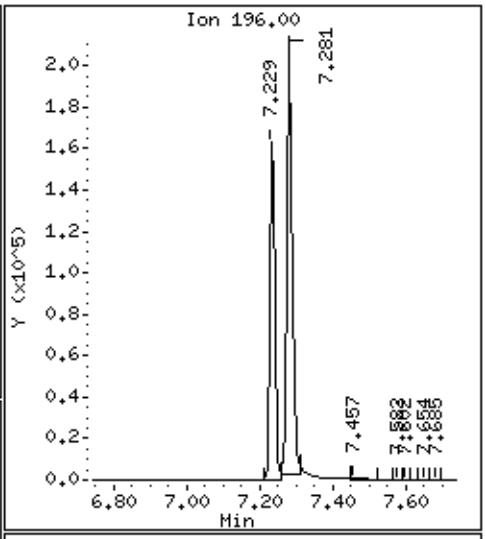
Column phase: DB-5.625

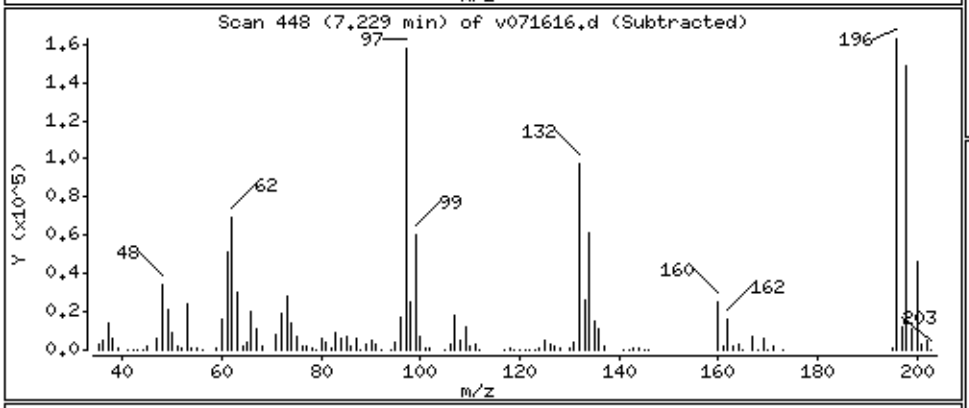
Column diameter: 0.25

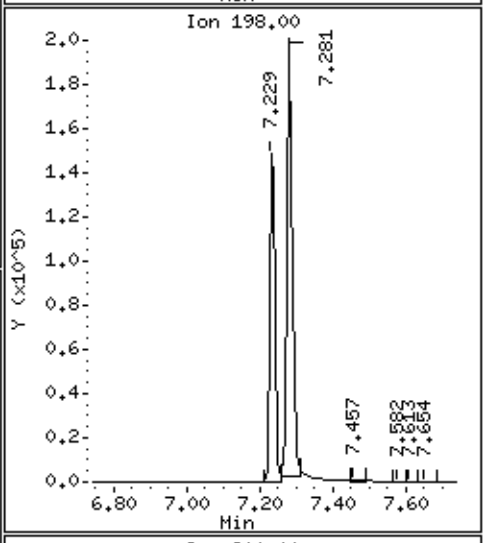
36 2,4,6-Trichlorophenol*

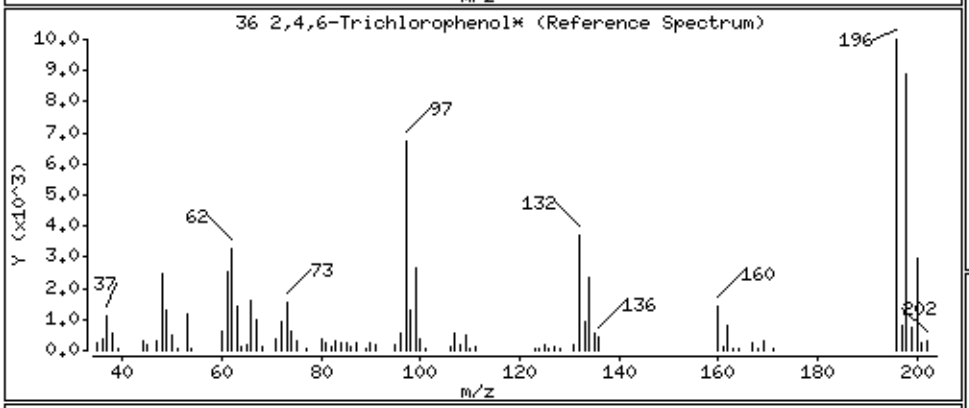
Concentration: 53.81 ug

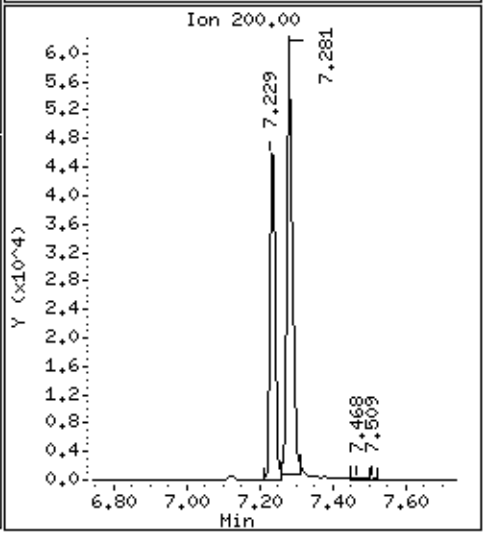


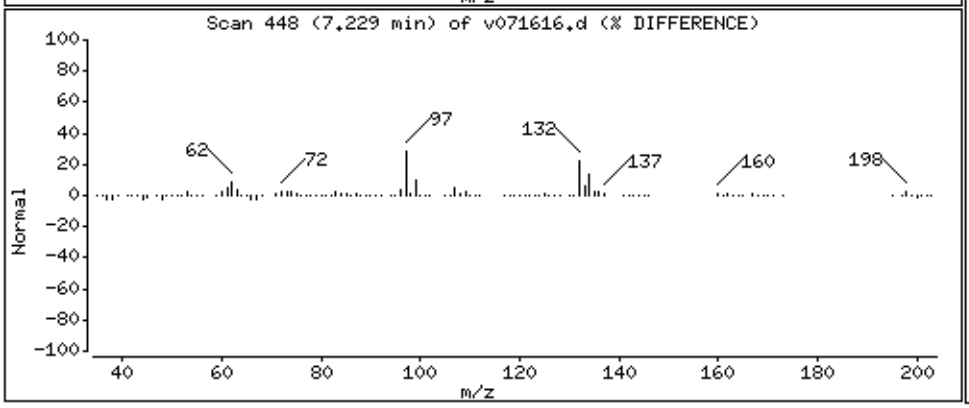












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

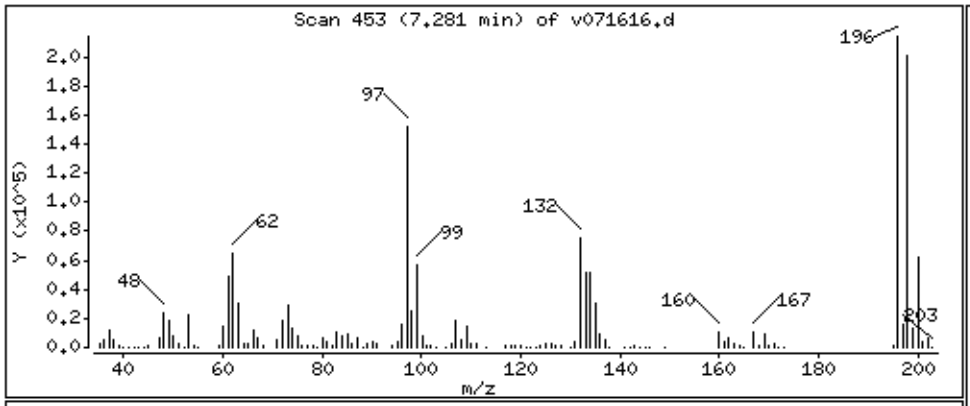
Operator: rn

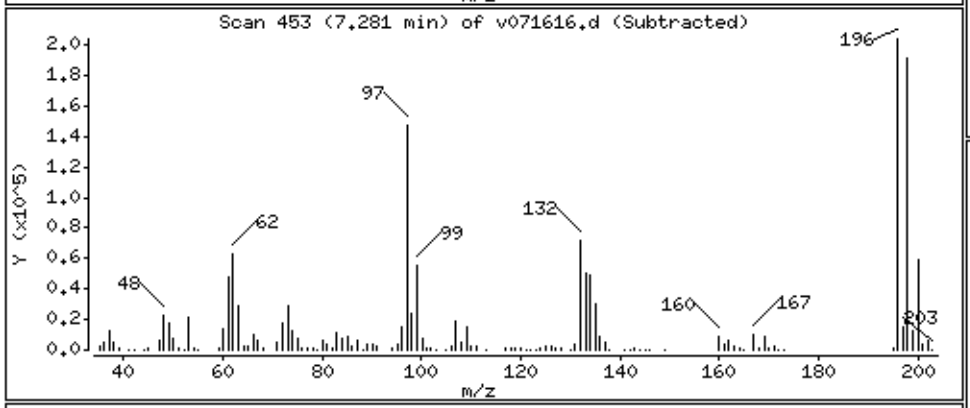
Column phase: DB-5.625

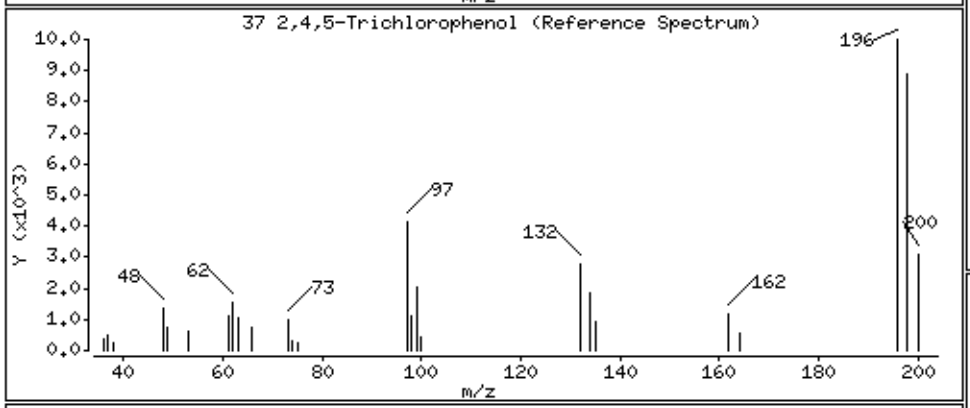
Column diameter: 0.25

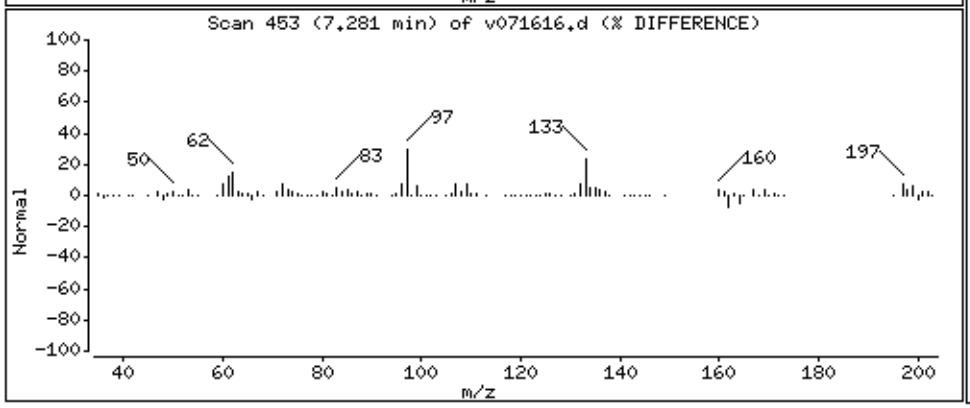
37 2,4,5-Trichlorophenol

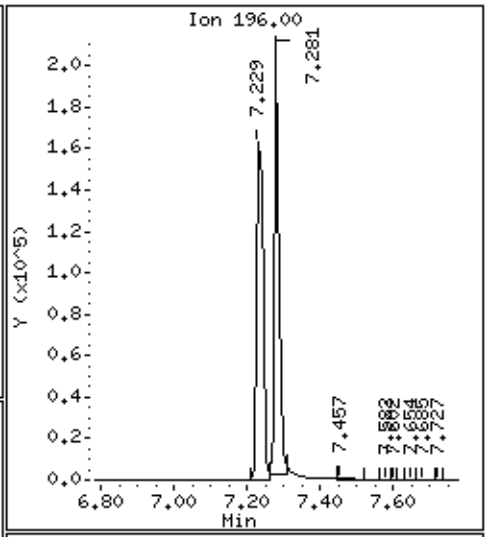
Concentration: 51.02 ug

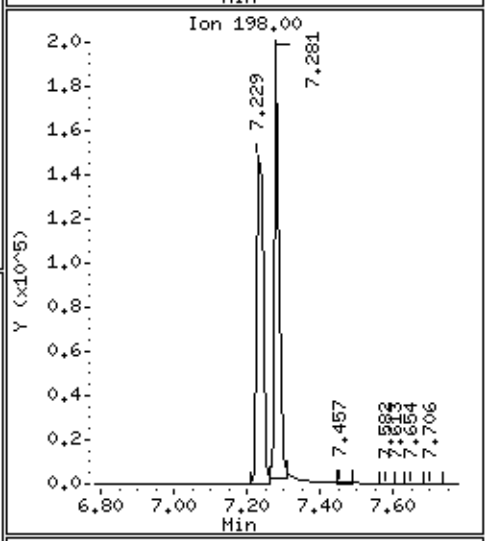


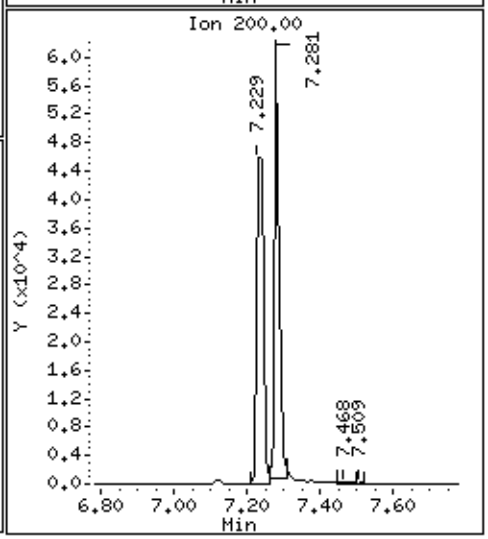












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

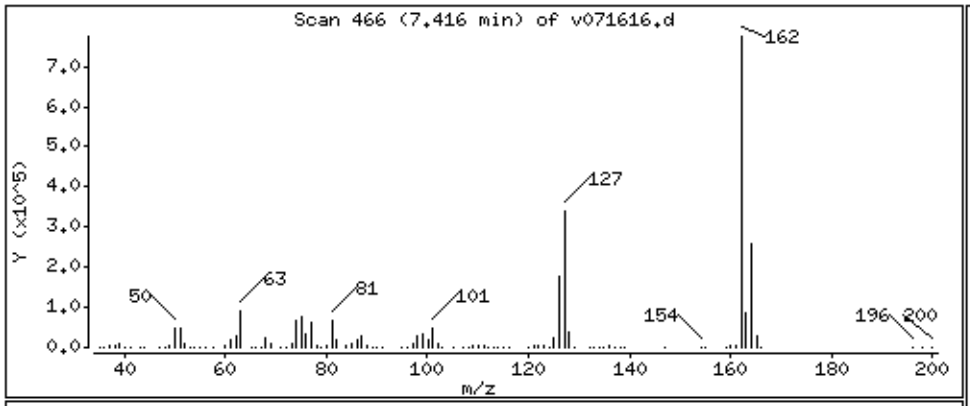
Operator: rn

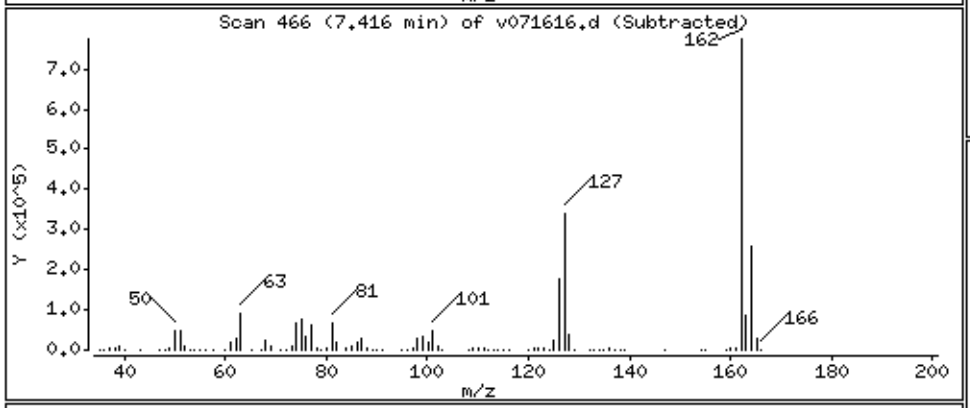
Column phase: DB-5.625

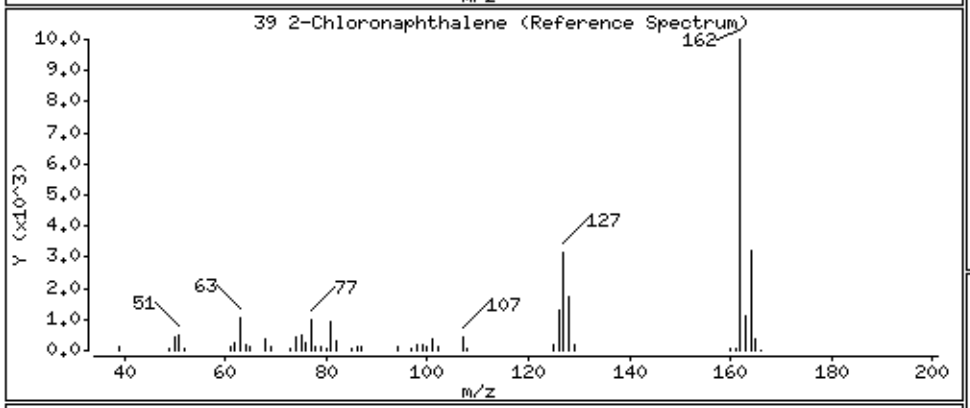
Column diameter: 0.25

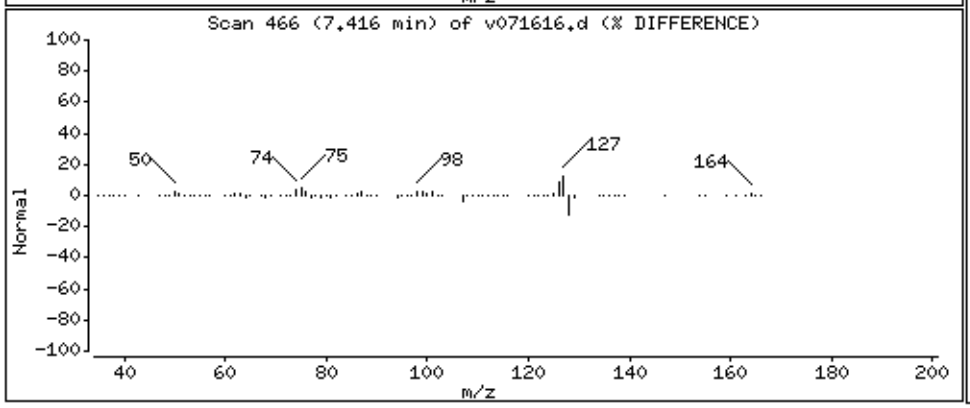
39 2-Chloronaphthalene

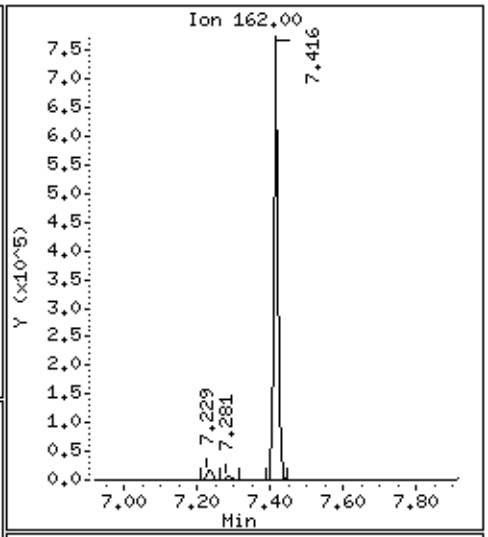
Concentration: 53.42 ug

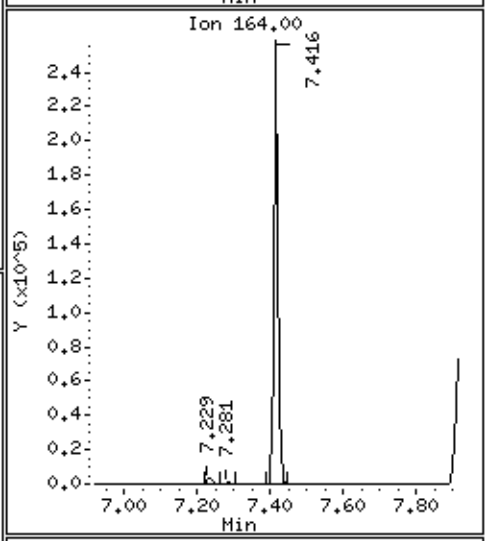


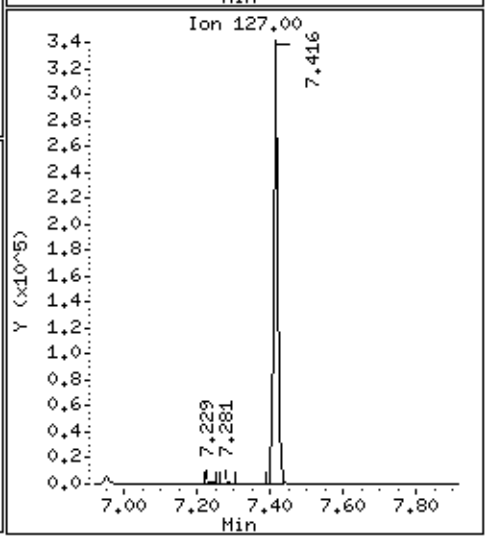












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

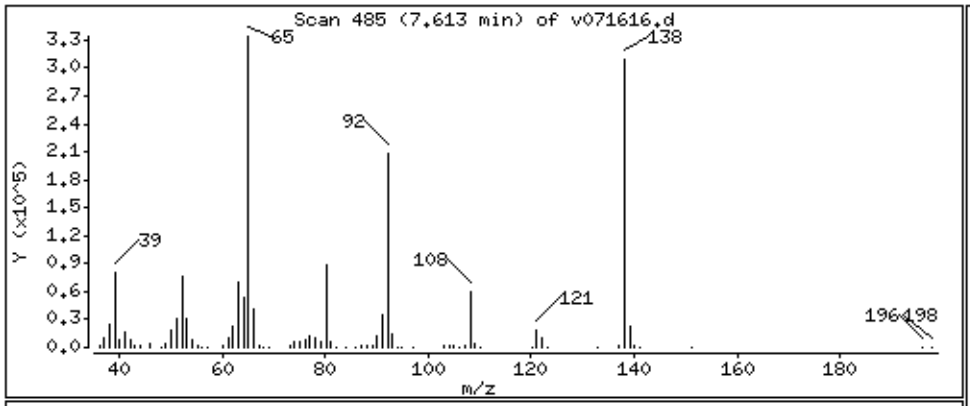
Operator: rn

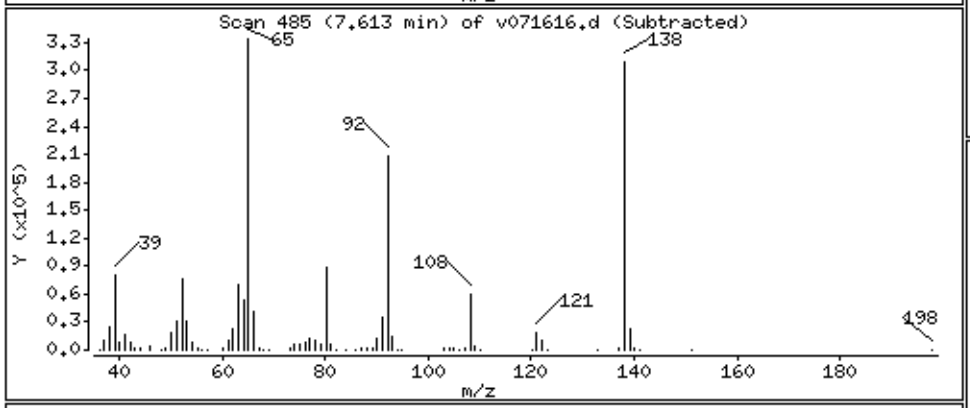
Column phase: DB-5.625

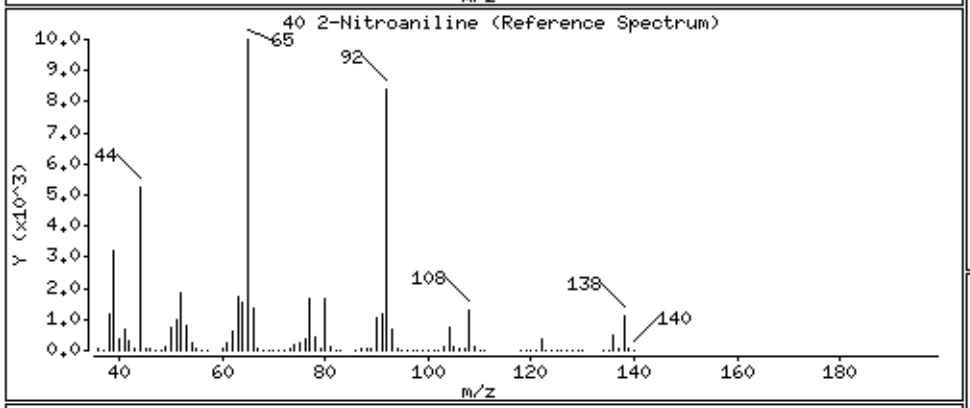
Column diameter: 0.25

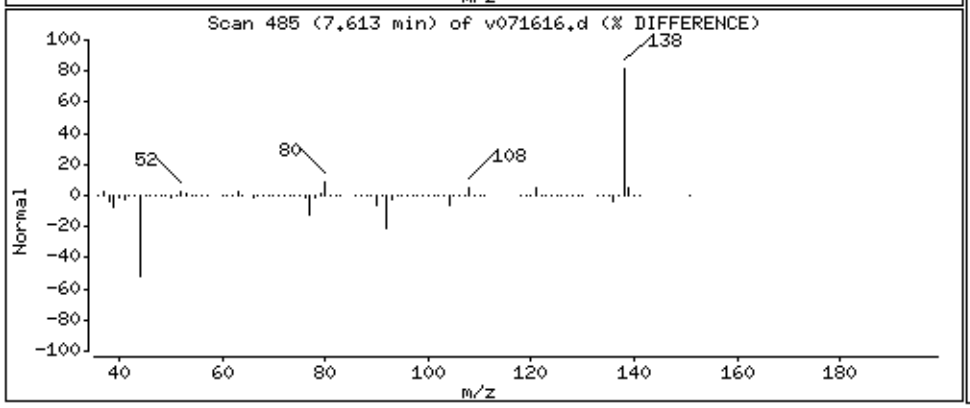
40 2-Nitroaniline

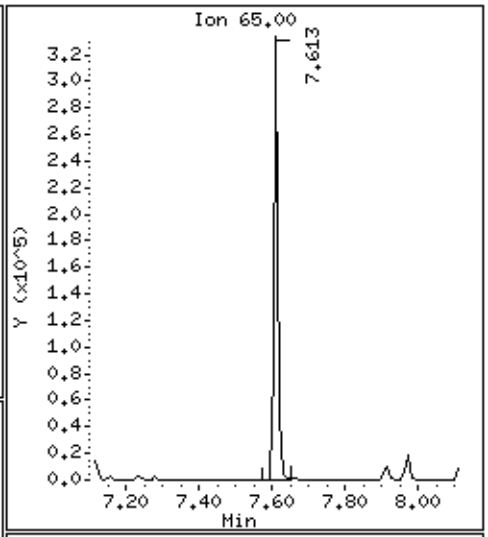
Concentration: 56.81 ug

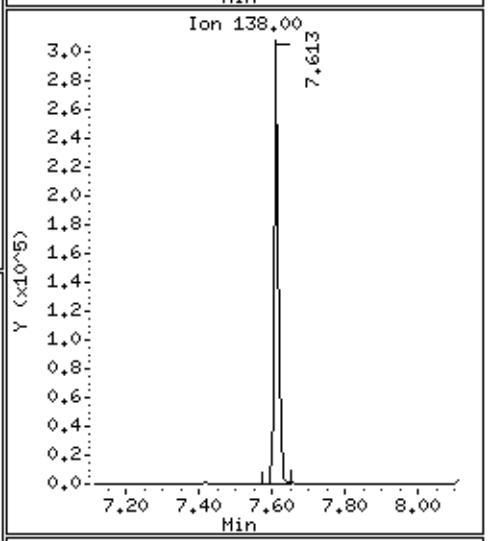


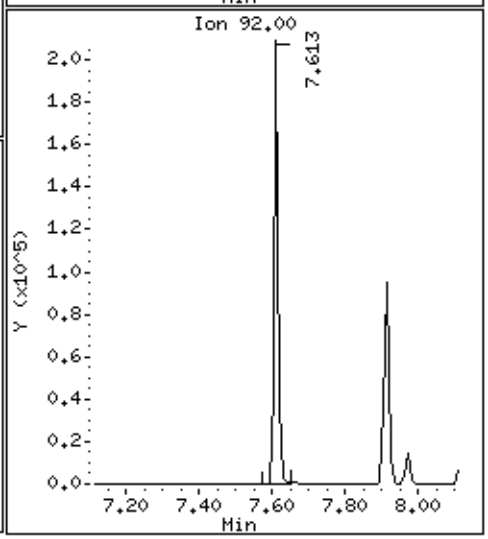












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

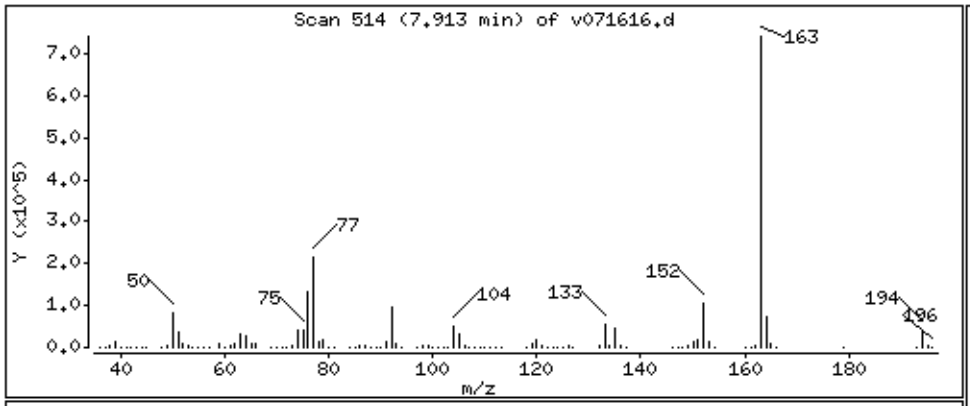
Operator: rn

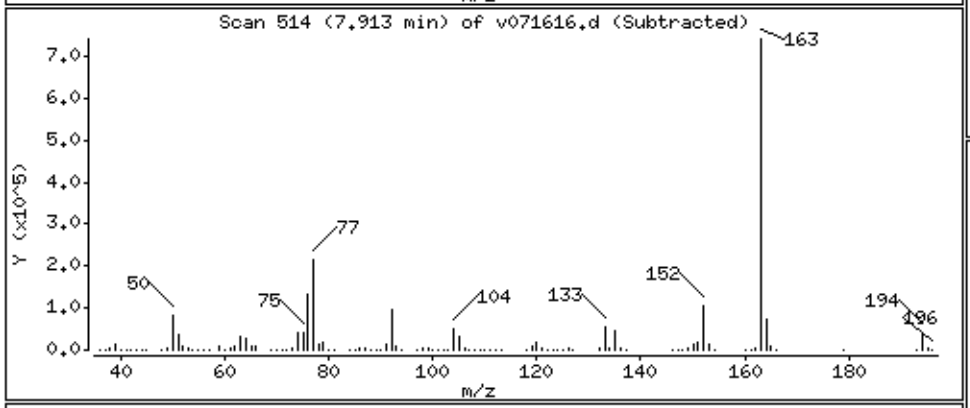
Column phase: DB-5.625

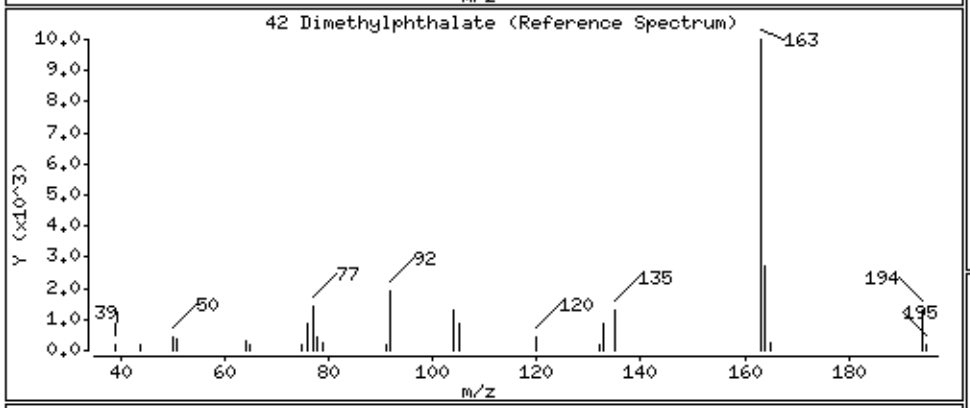
Column diameter: 0.25

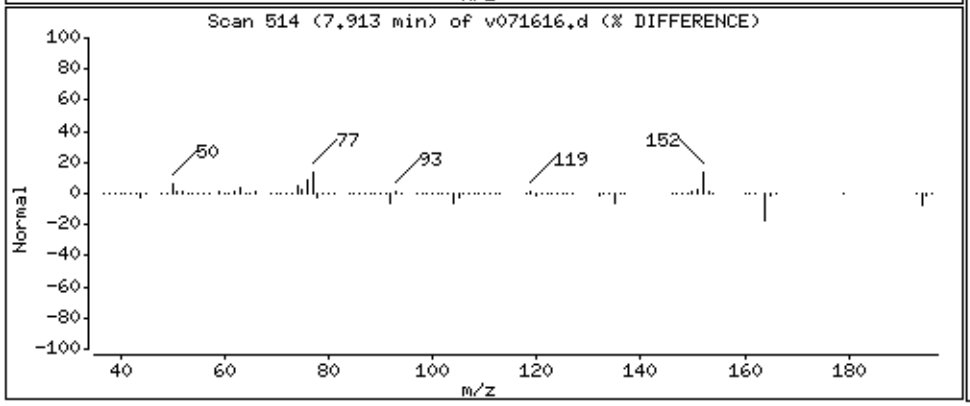
42 Dimethylphthalate

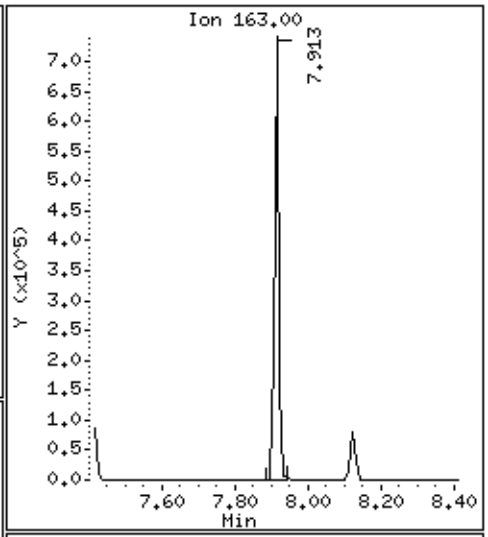
Concentration: 51.71 ug

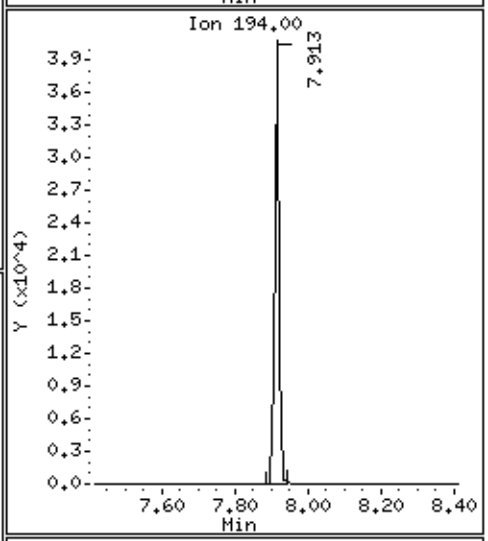


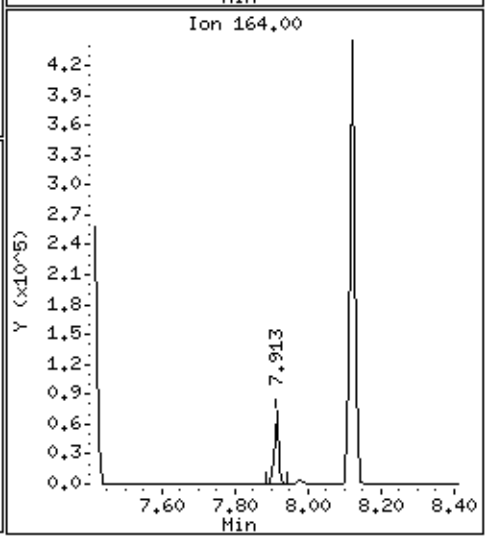












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

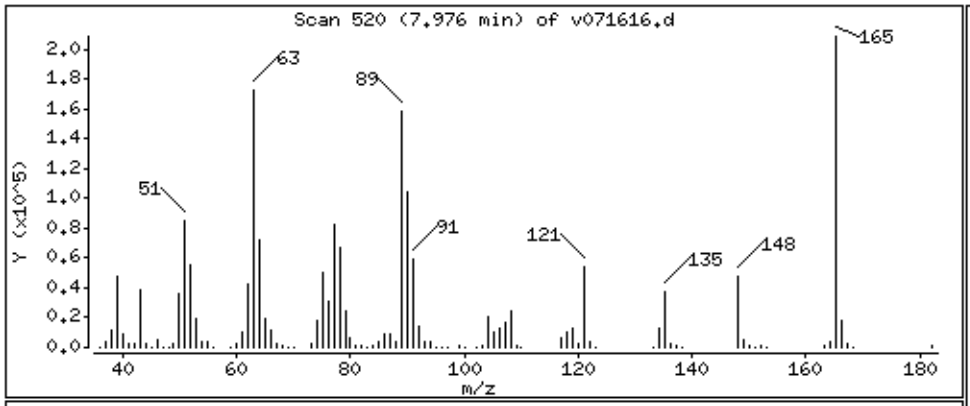
Operator: rn

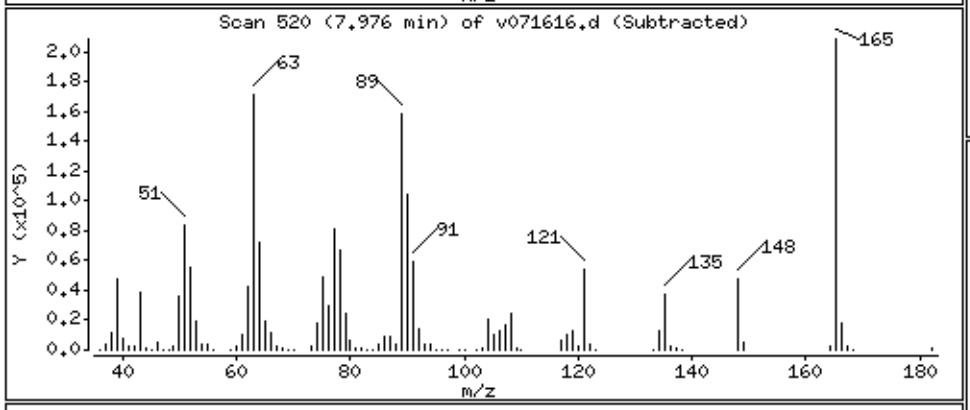
Column phase: DB-5.625

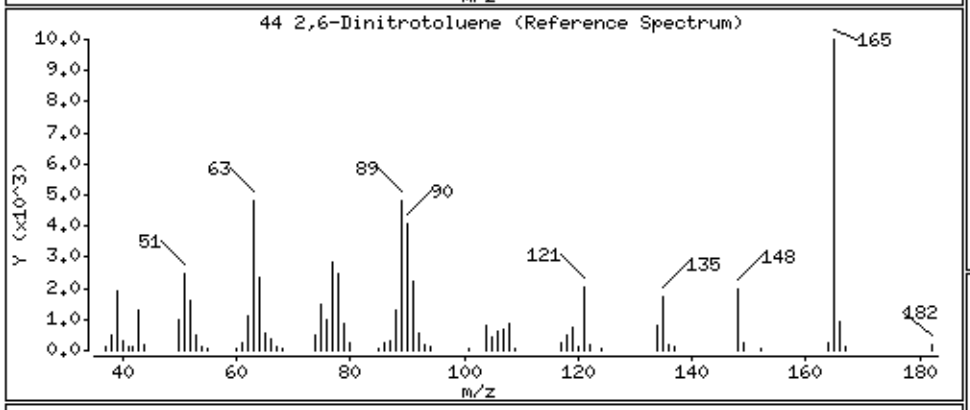
Column diameter: 0.25

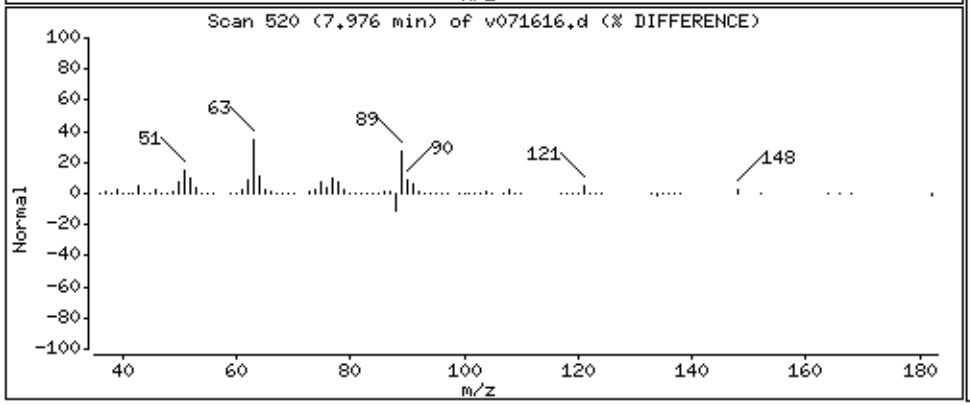
44 2,6-Dinitrotoluene

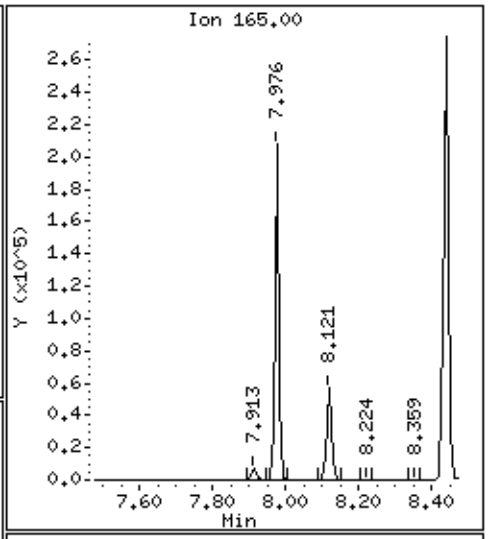
Concentration: 53.95 ug

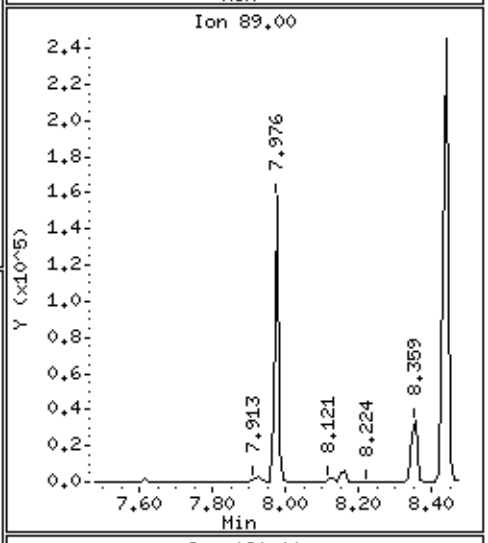


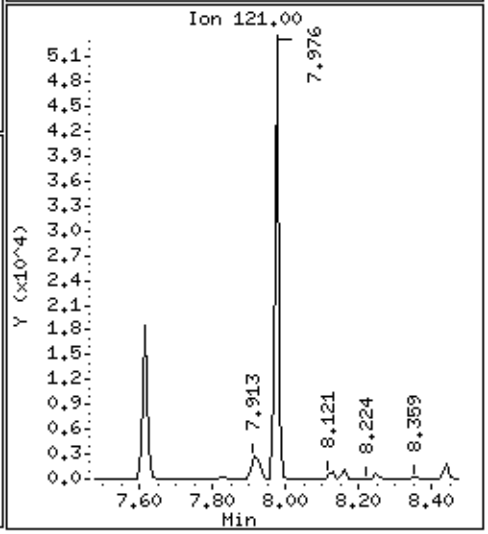












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

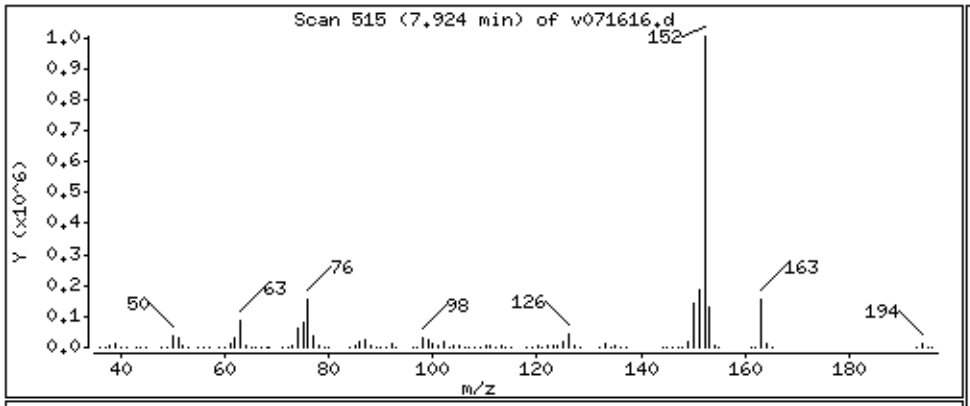
Operator: rn

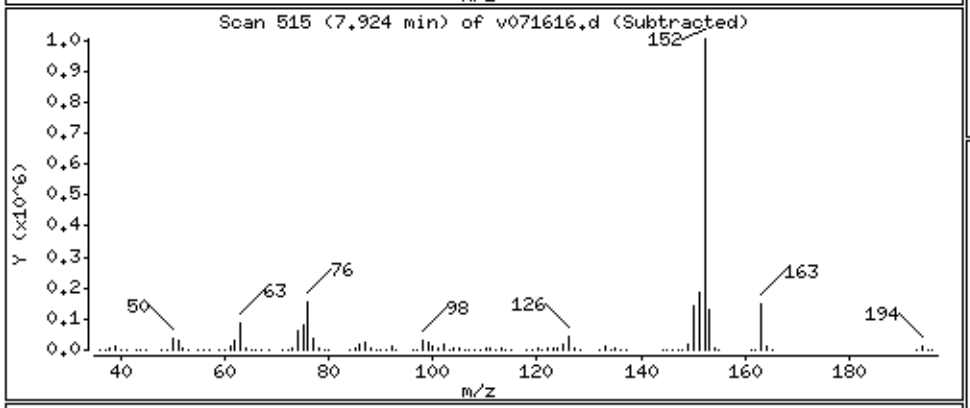
Column phase: DB-5.625

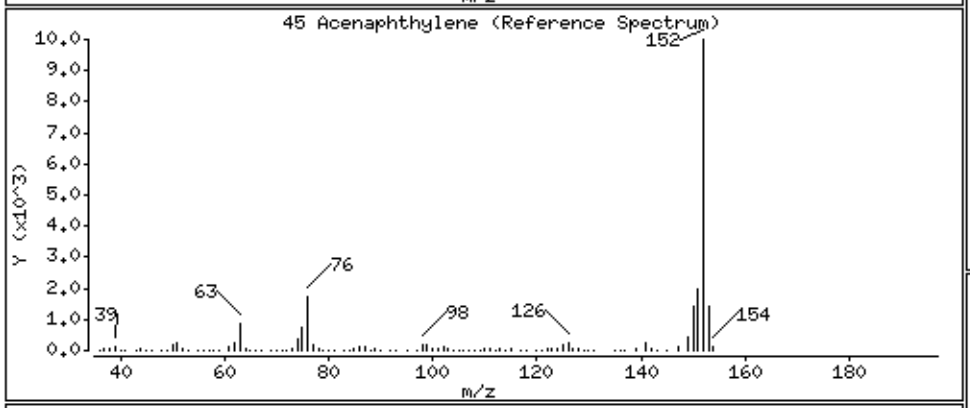
Column diameter: 0.25

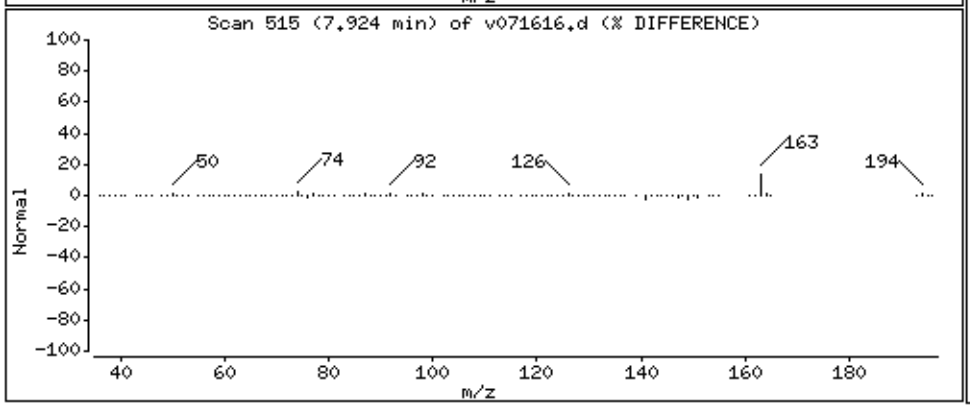
45 Acenaphthylene

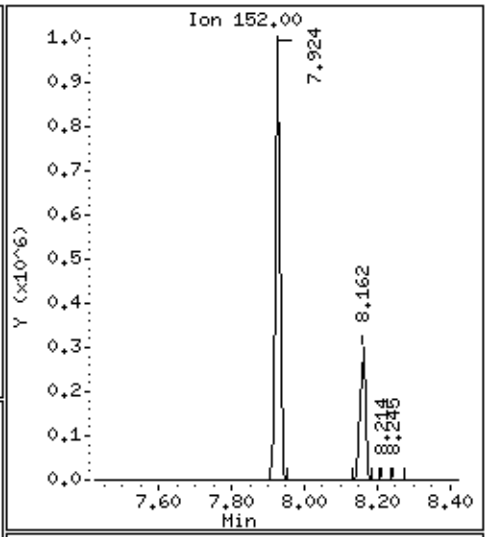
Concentration: 51.67 ug

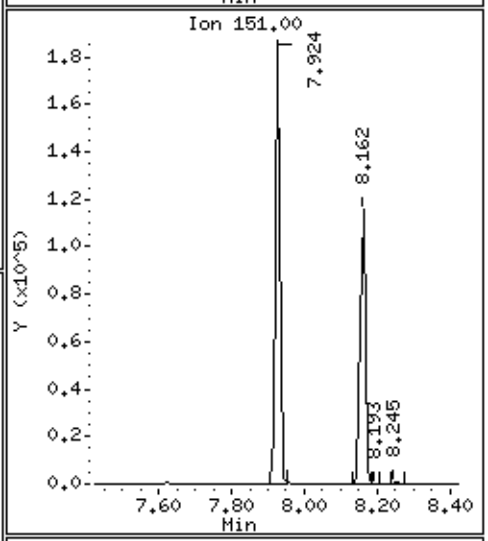


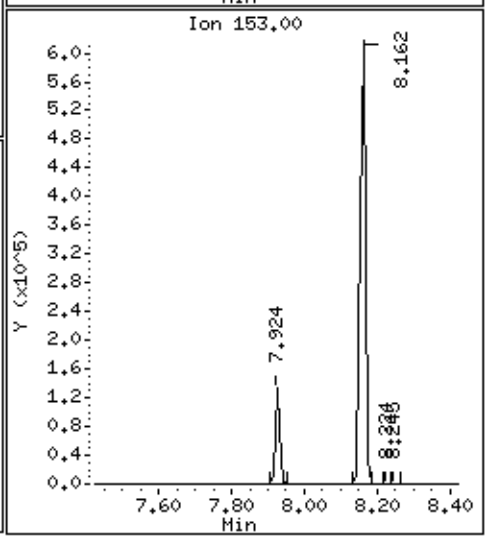












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

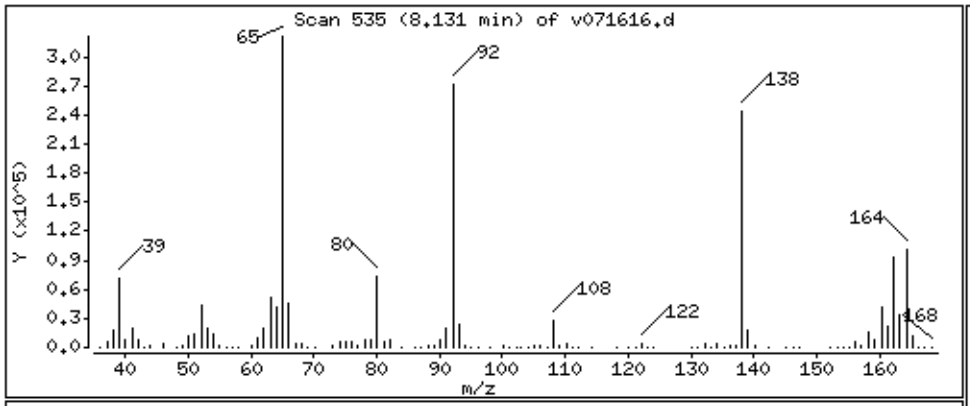
Operator: rn

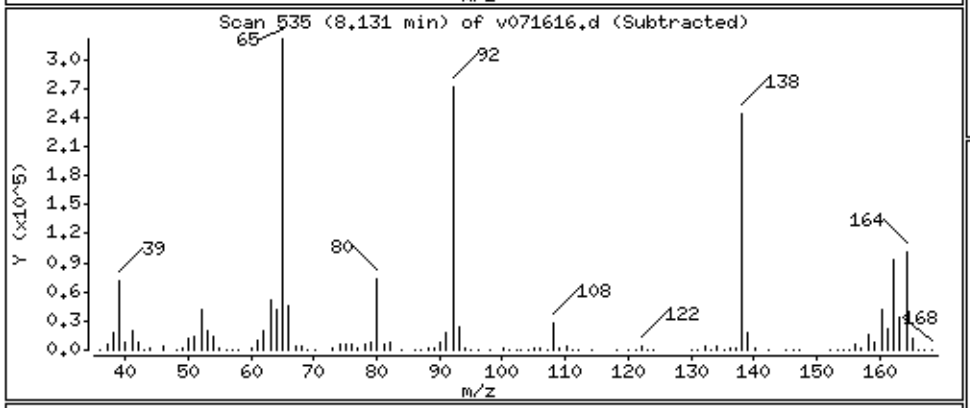
Column phase: DB-5.625

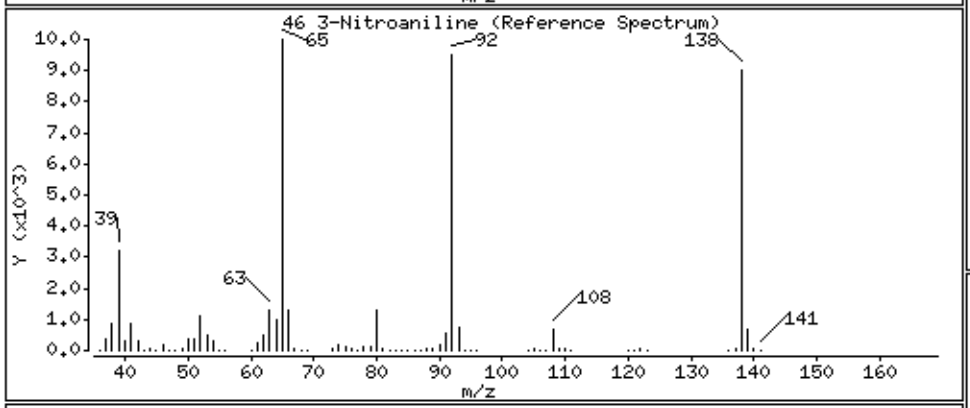
Column diameter: 0.25

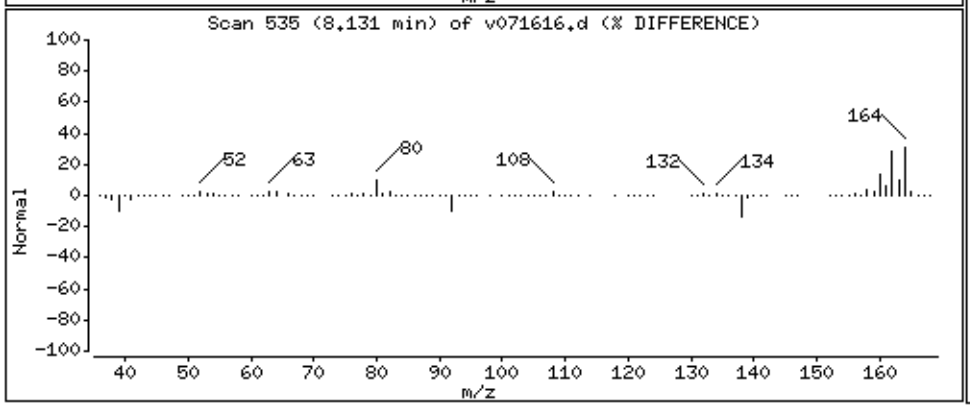
46 3-Nitroaniline

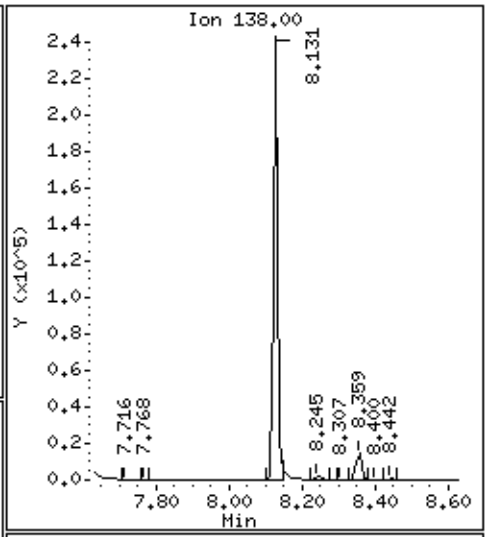
Concentration: 54.81 ug

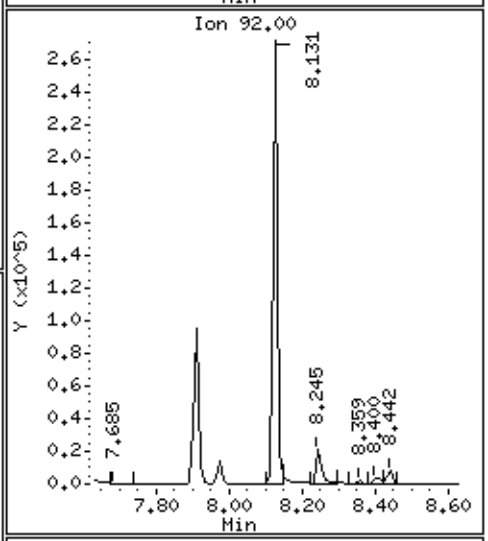


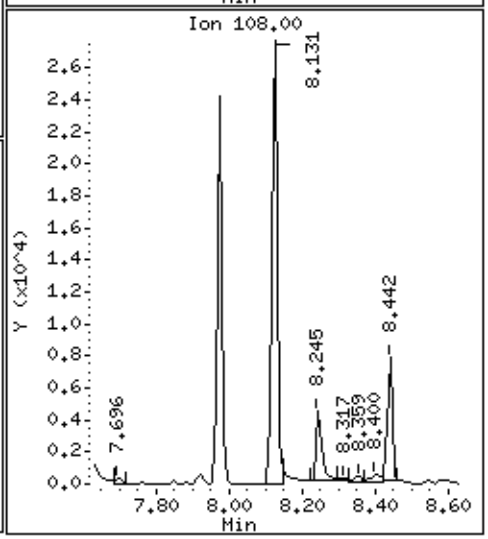












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

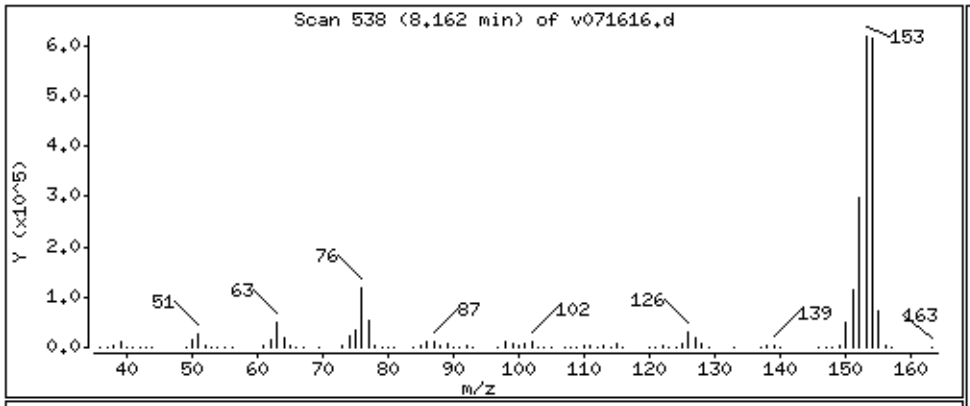
Operator: rn

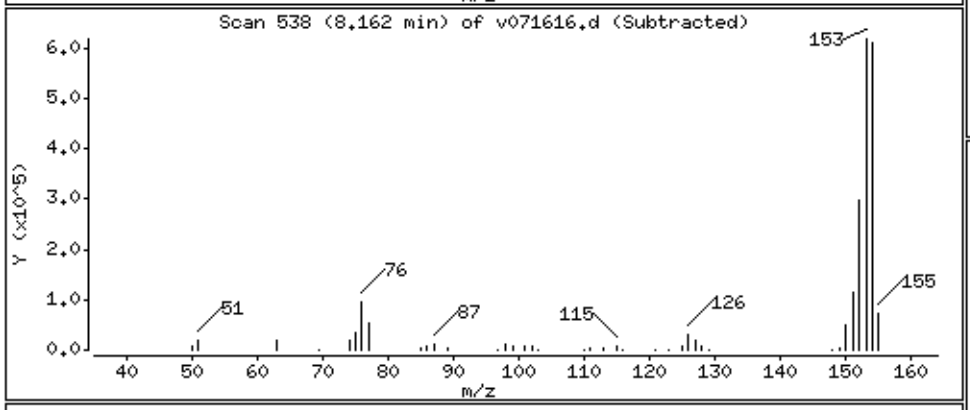
Column phase: DB-5.625

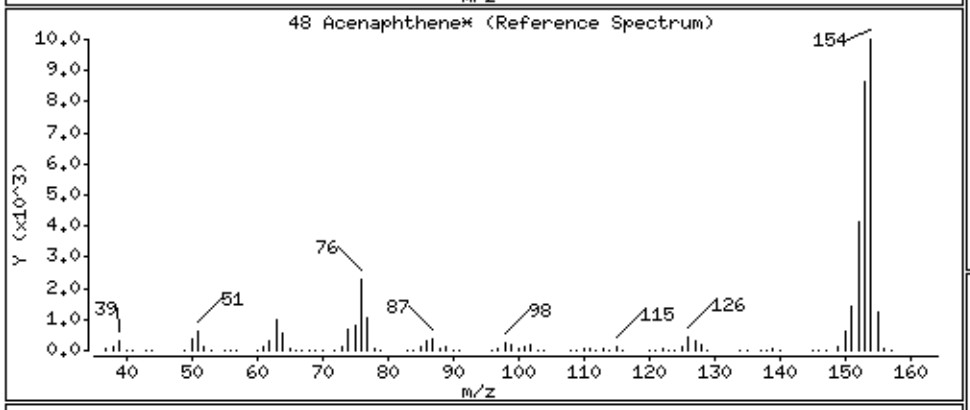
Column diameter: 0.25

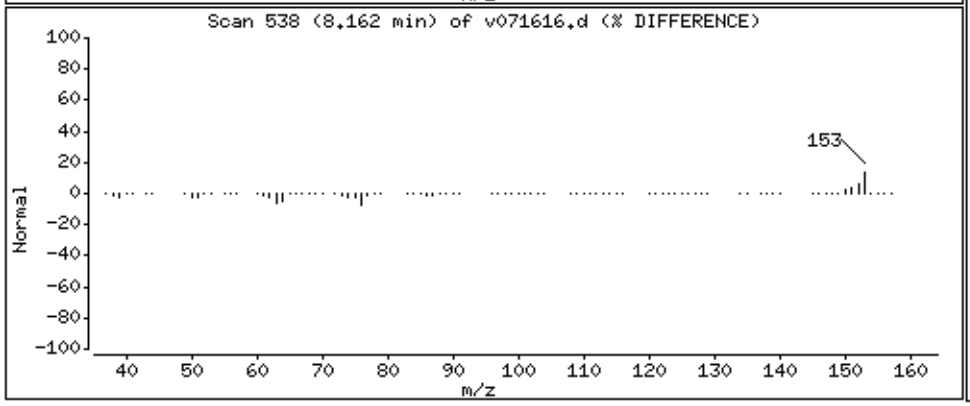
48 Acenaphthene*

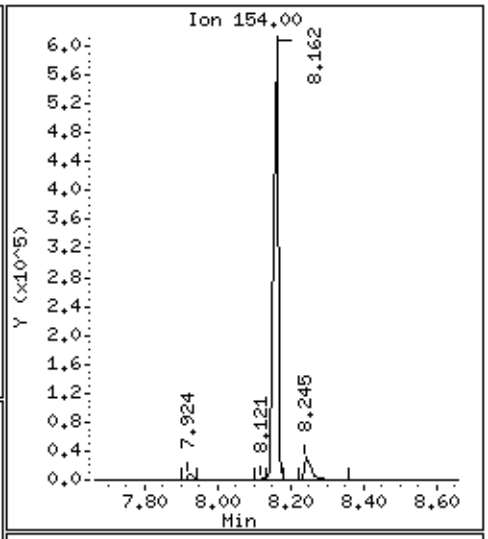
Concentration: 49.30 ug

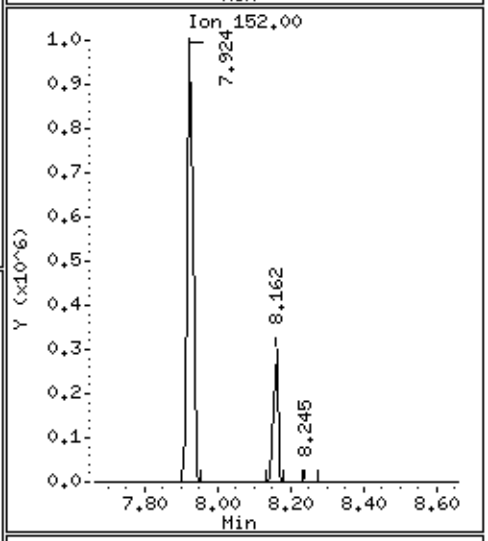


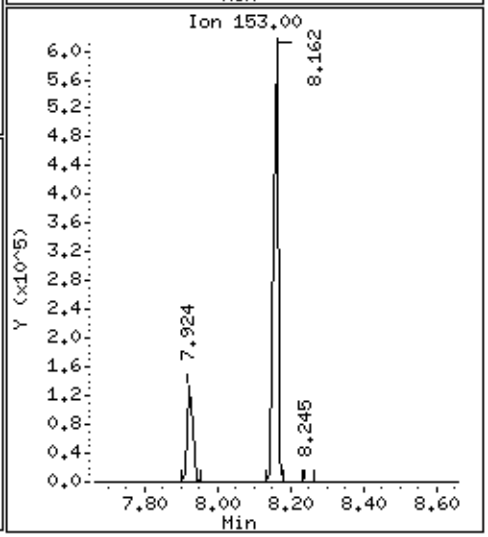












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

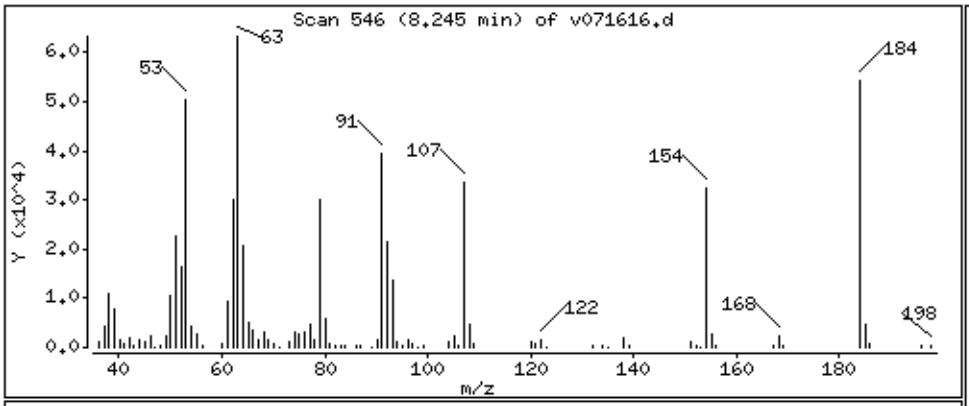
Operator: rn

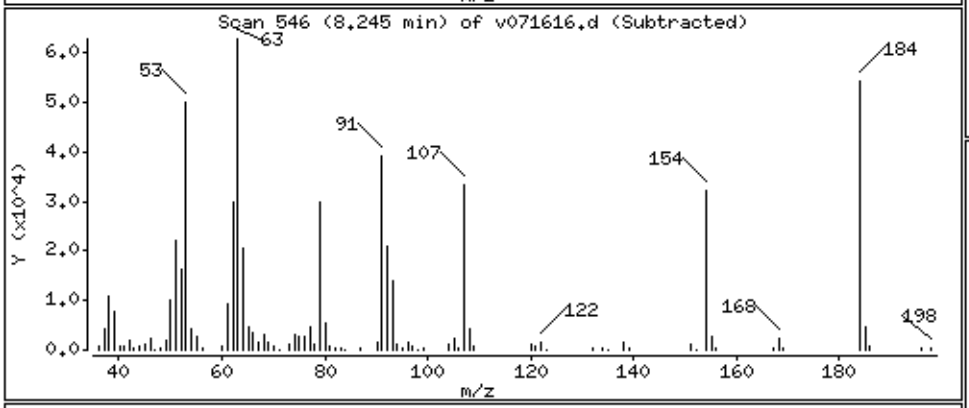
Column phase: DB-5.625

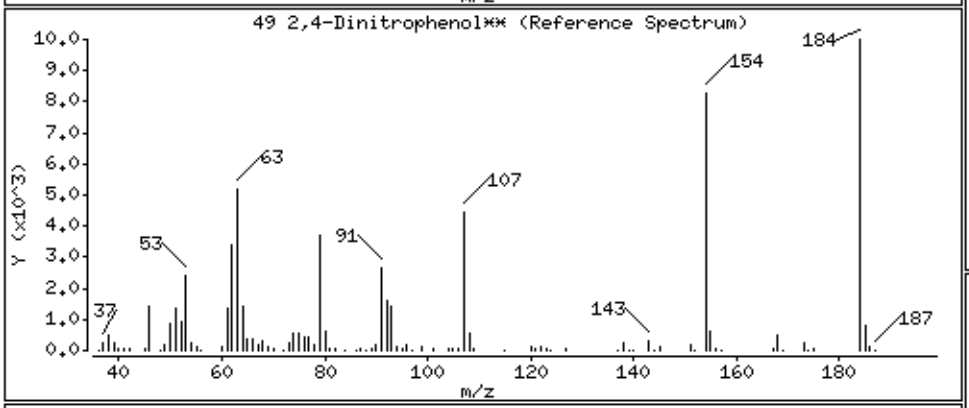
Column diameter: 0.25

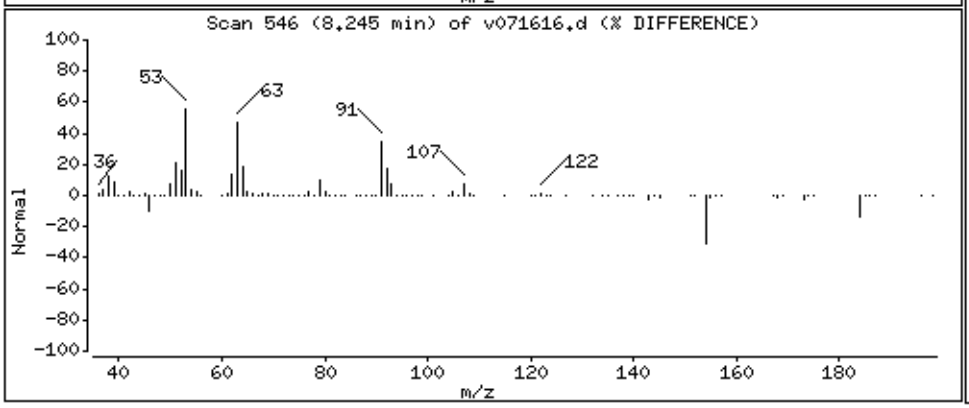
49 2,4-Dinitrophenol**

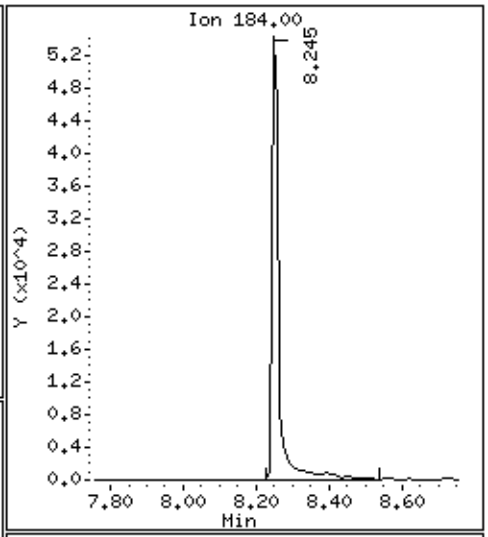
Concentration: 52.07 ug

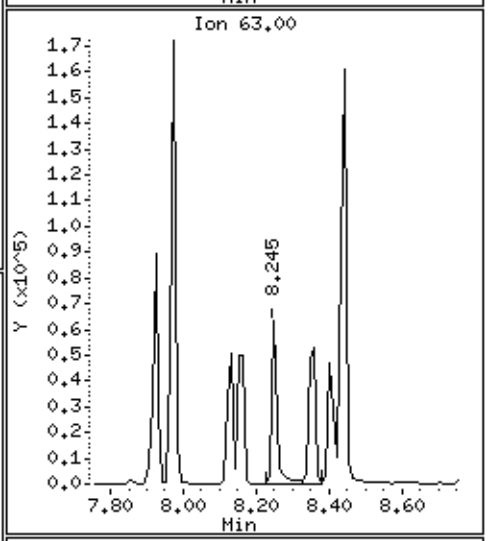


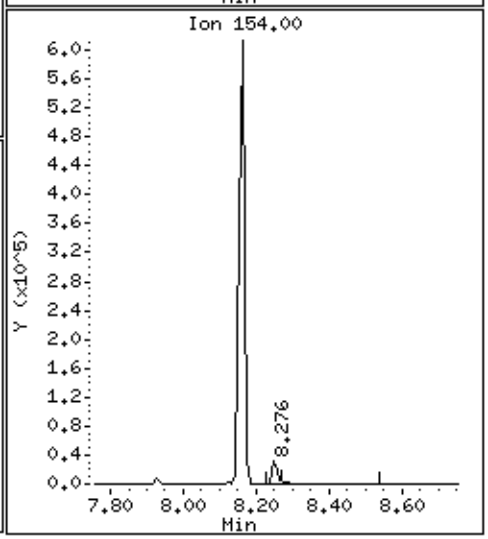












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

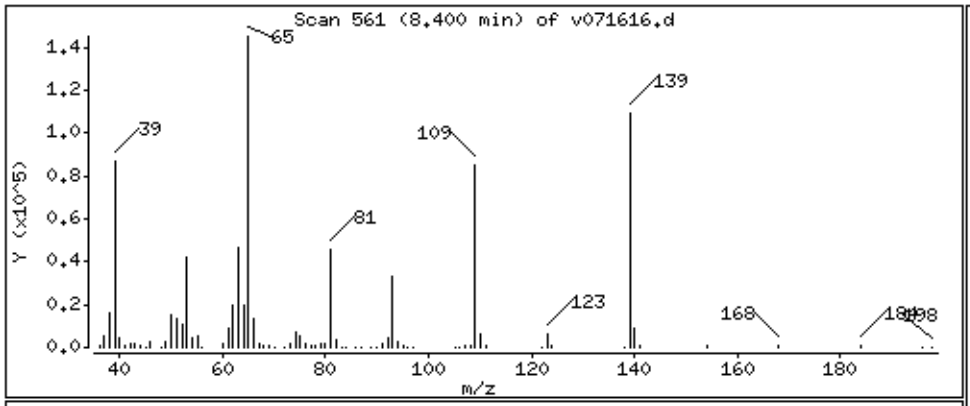
Operator: rn

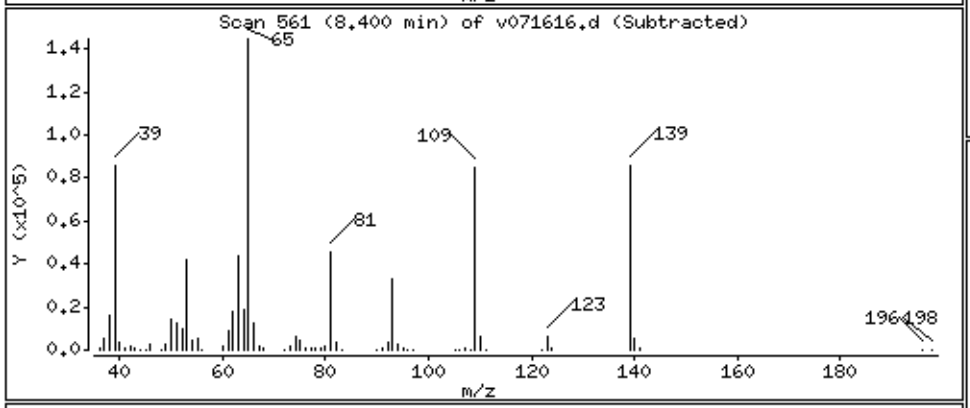
Column phase: DB-5.625

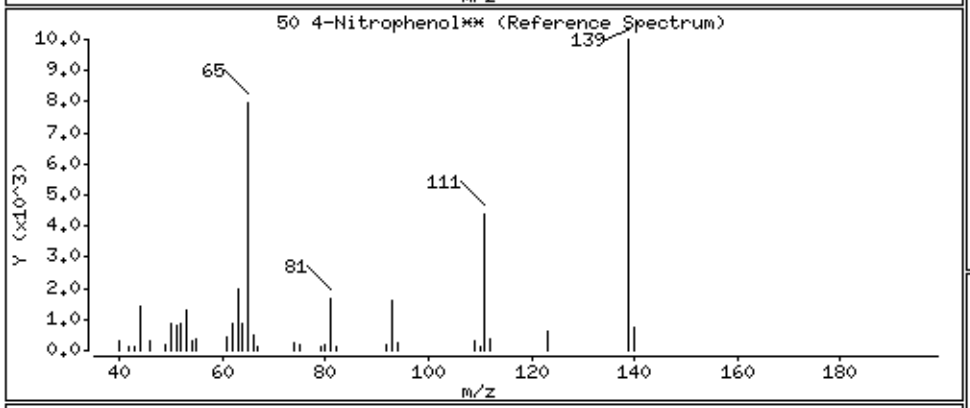
Column diameter: 0.25

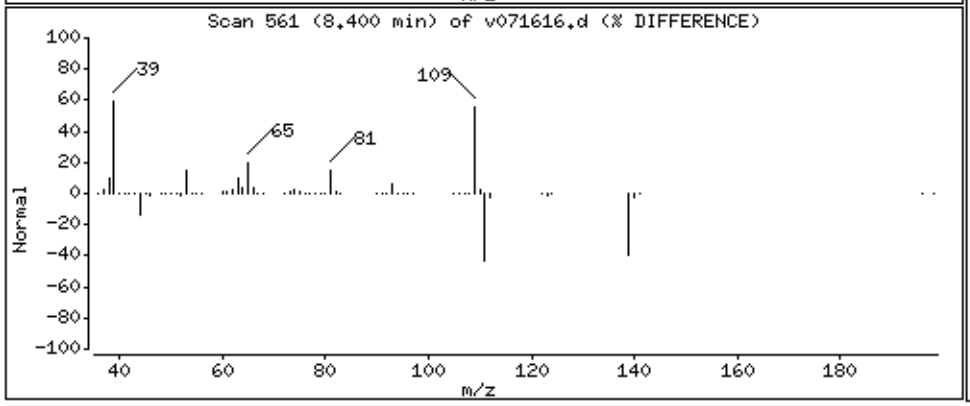
50 4-Nitrophenol**

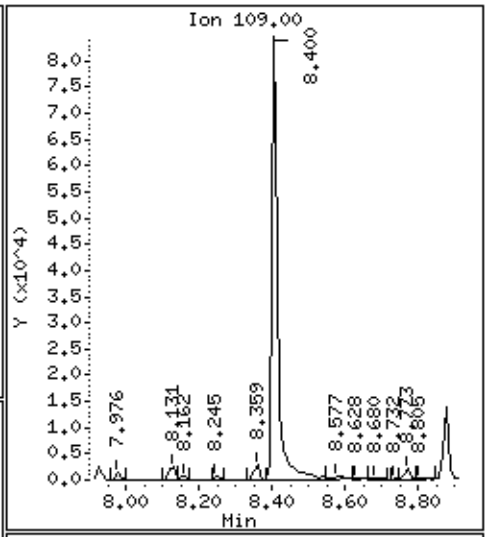
Concentration: 52.02 ug

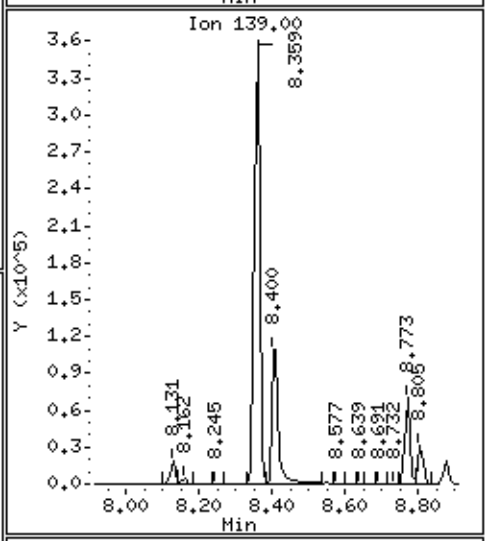


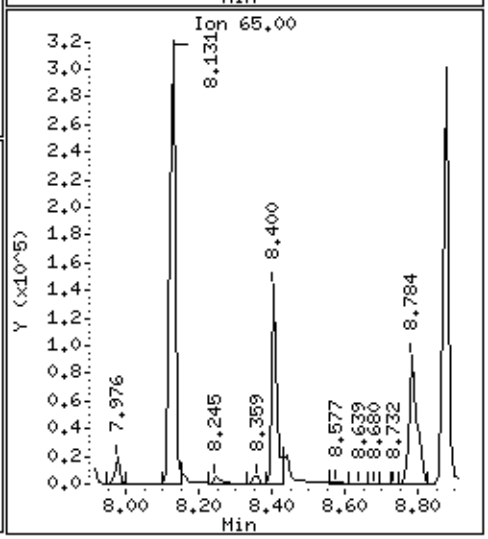












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

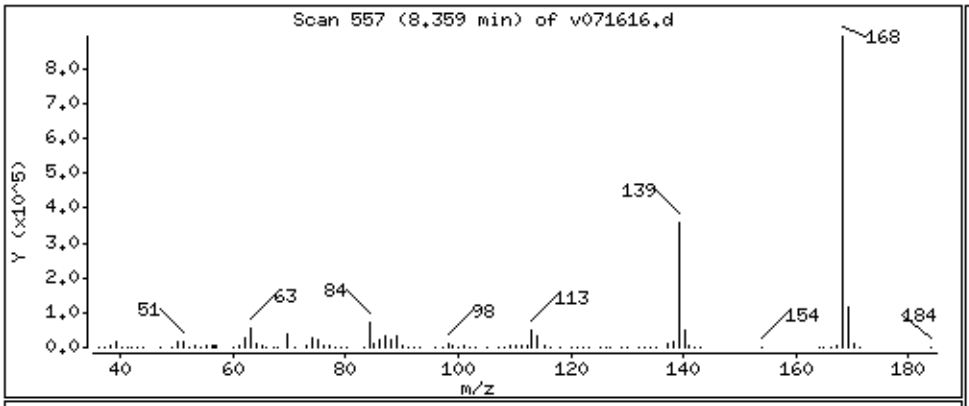
Operator: rn

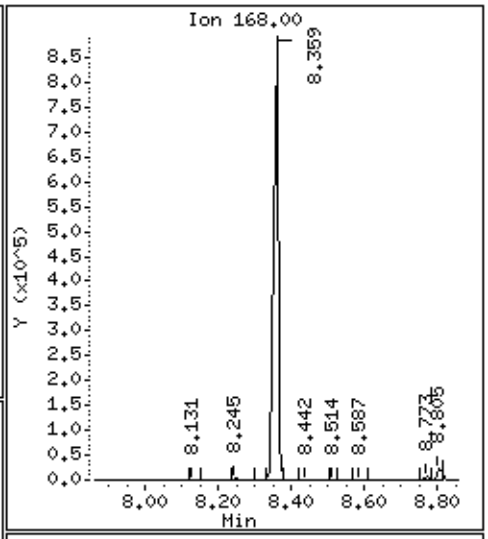
Column phase: DB-5.625

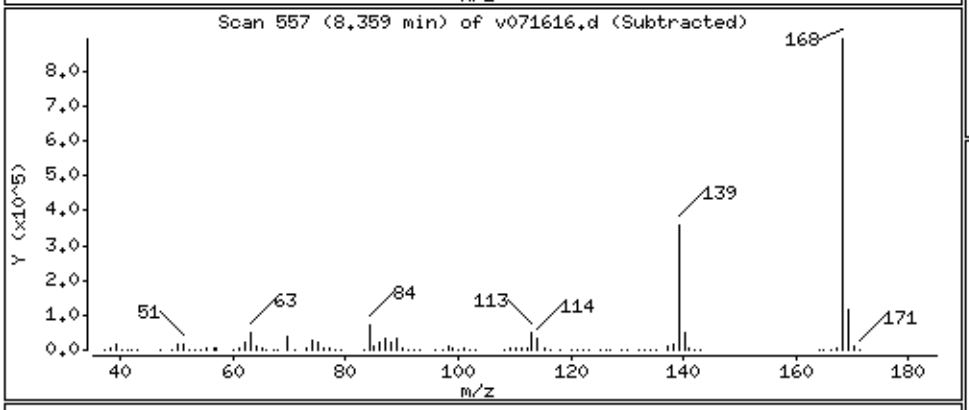
Column diameter: 0.25

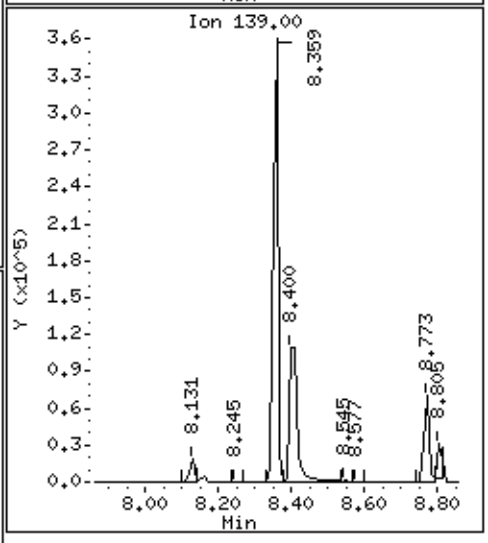
51 Dibenzofuran

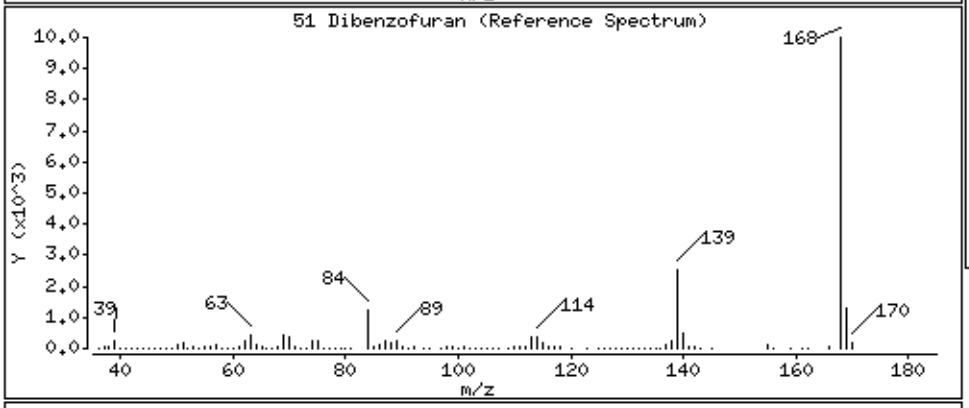
Concentration: 51.83 ug

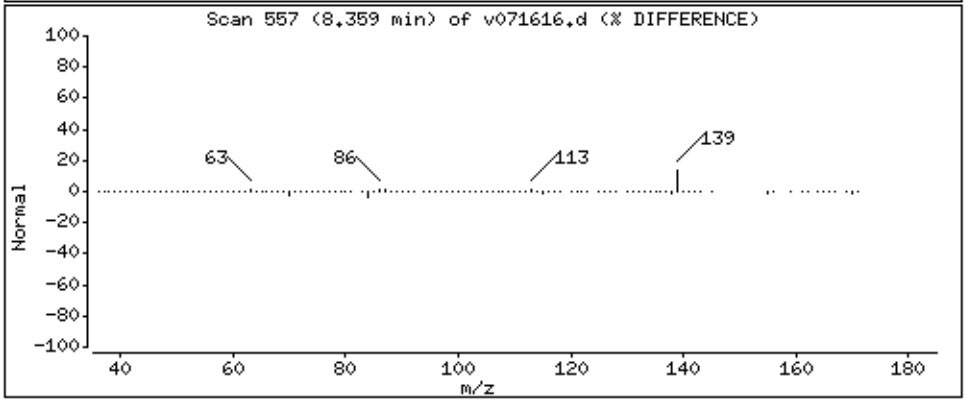












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

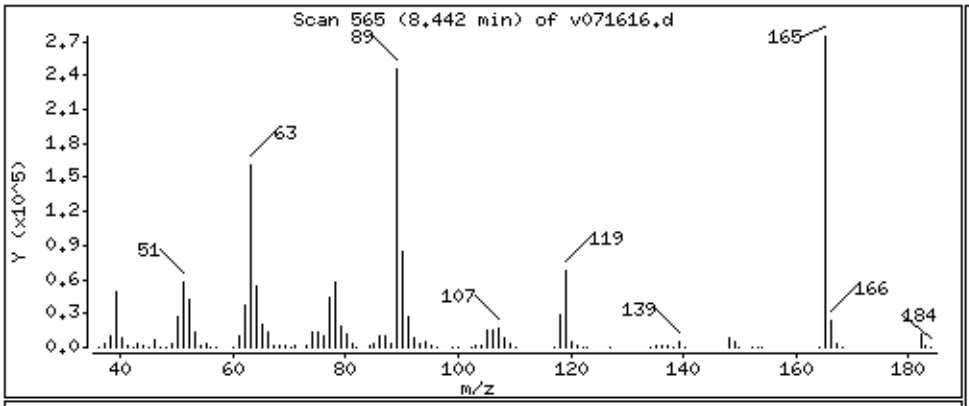
Operator: rn

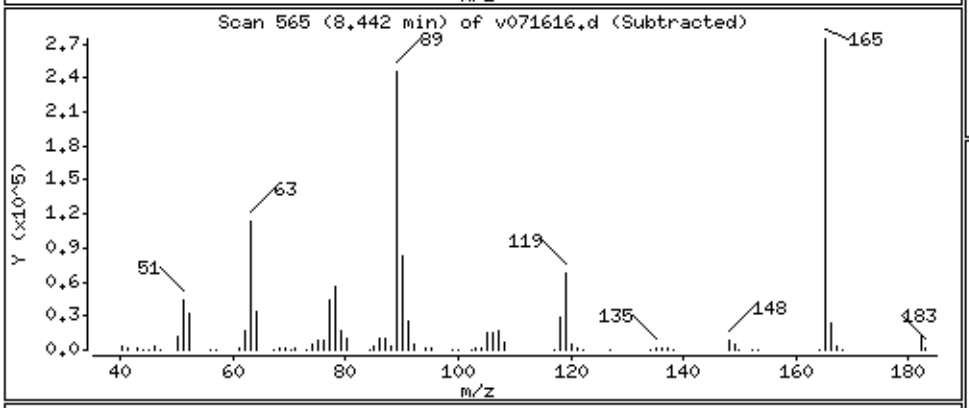
Column phase: DB-5.625

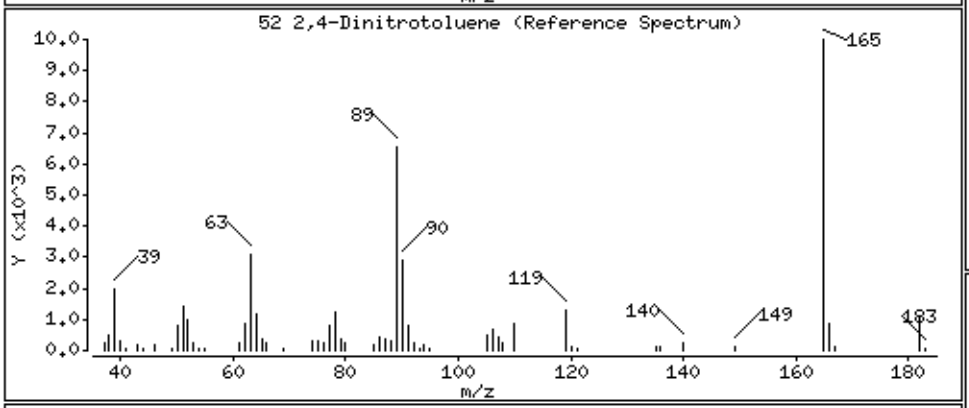
Column diameter: 0.25

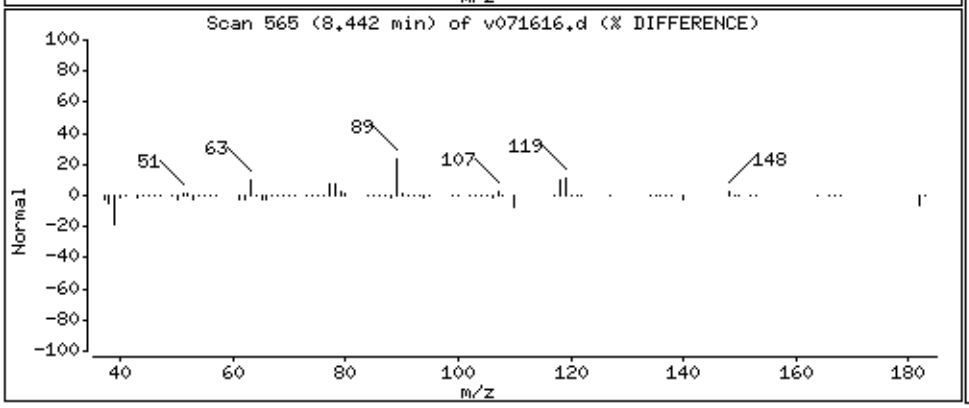
52 2,4-Dinitrotoluene

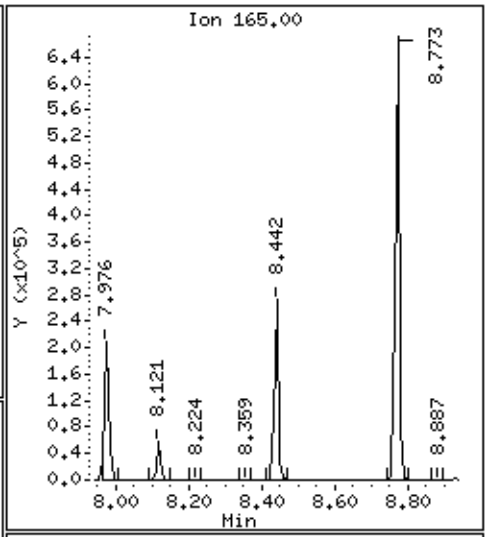
Concentration: 57.86 ug

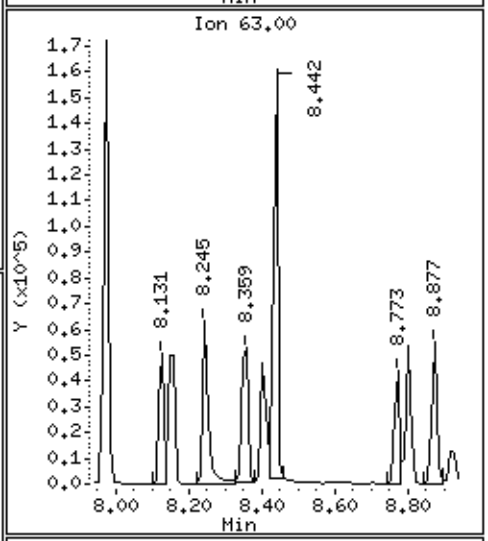


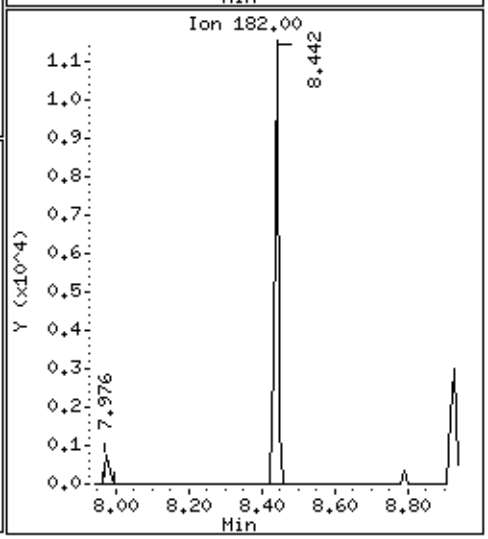












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

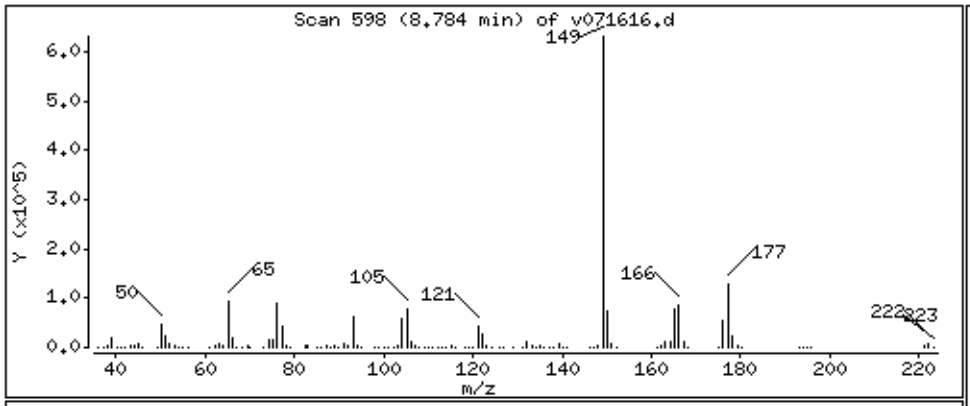
Operator: rn

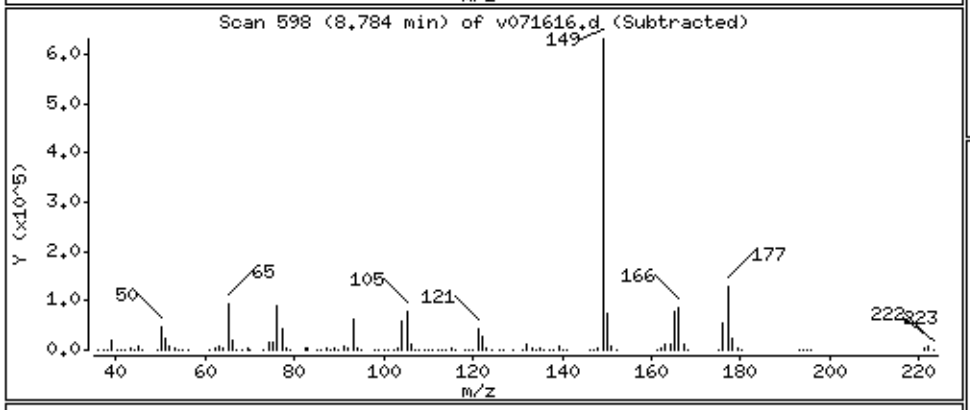
Column phase: DB-5.625

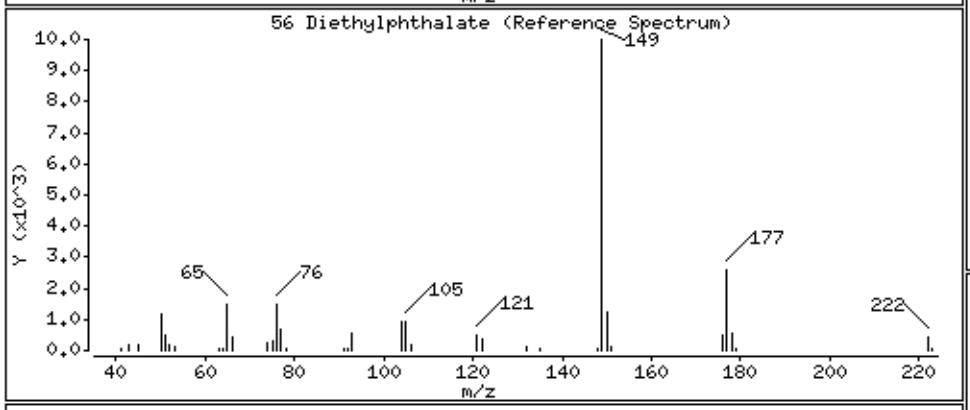
Column diameter: 0.25

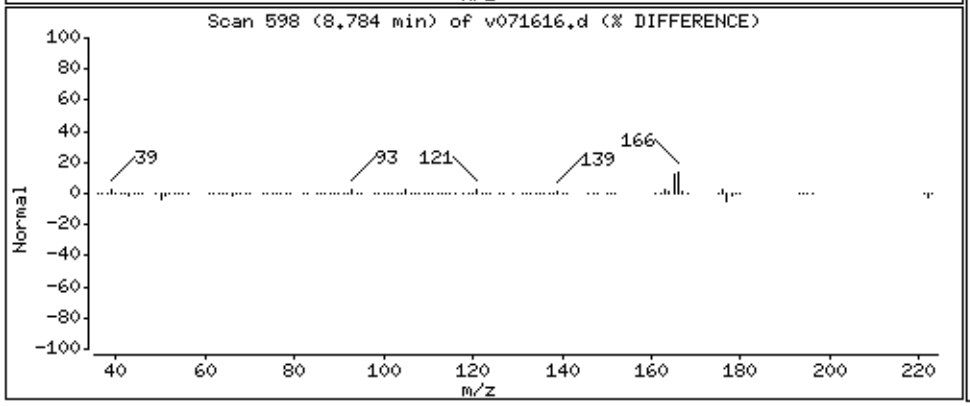
56 Diethylphthalate

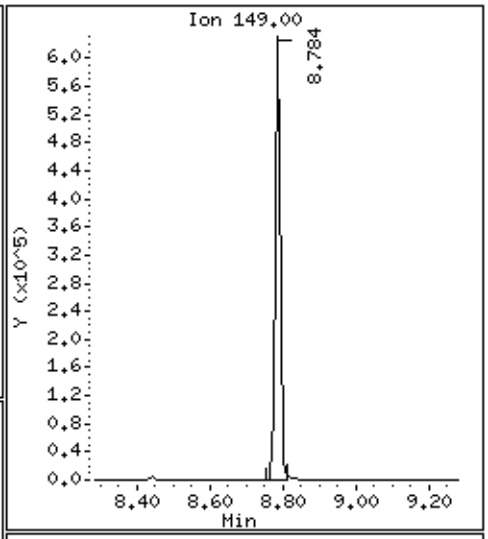
Concentration: 53.17 ug

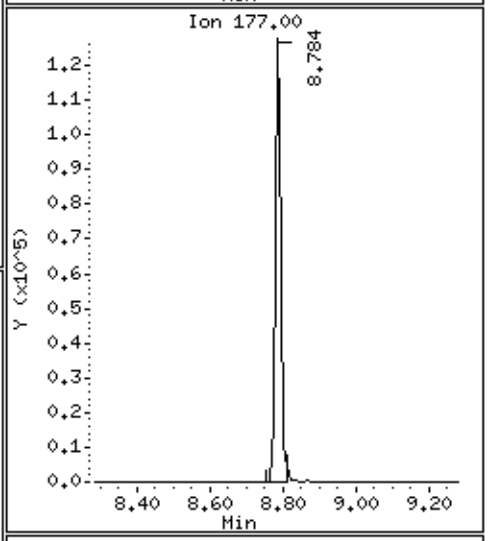


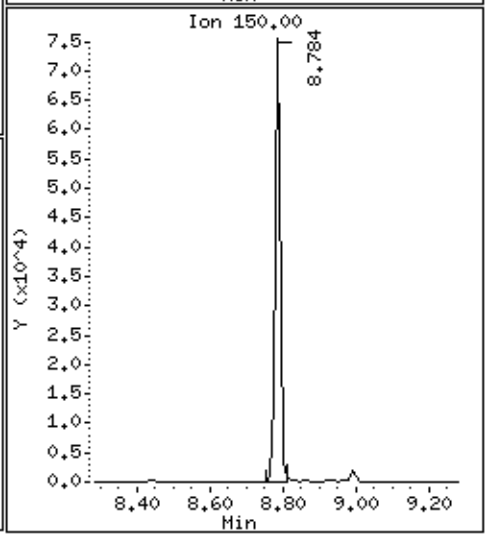












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

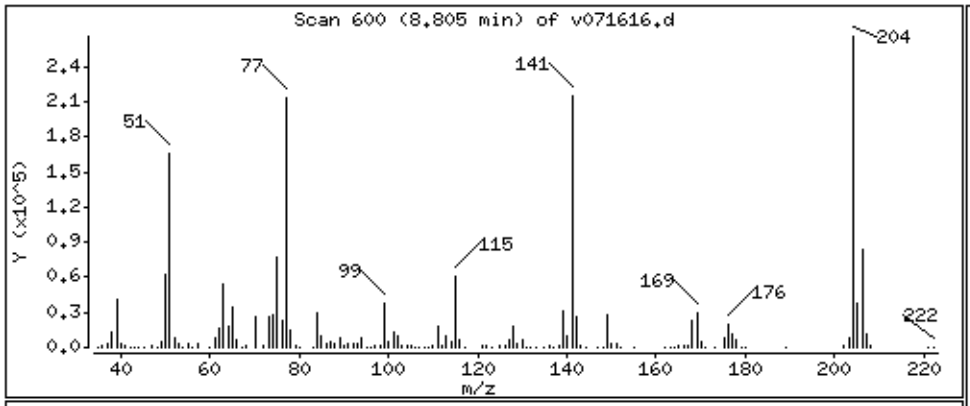
Operator: rn

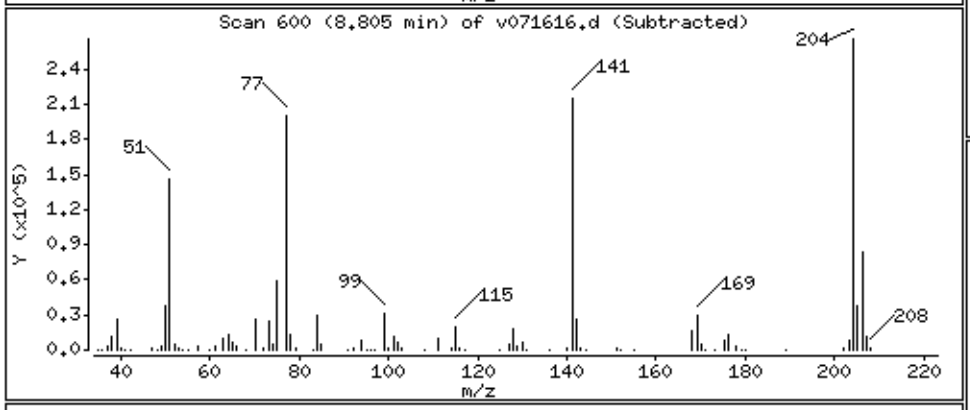
Column phase: DB-5.625

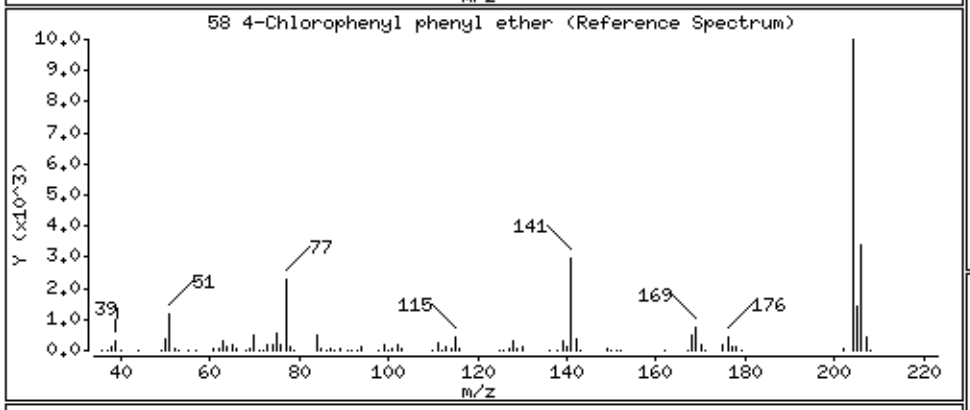
Column diameter: 0.25

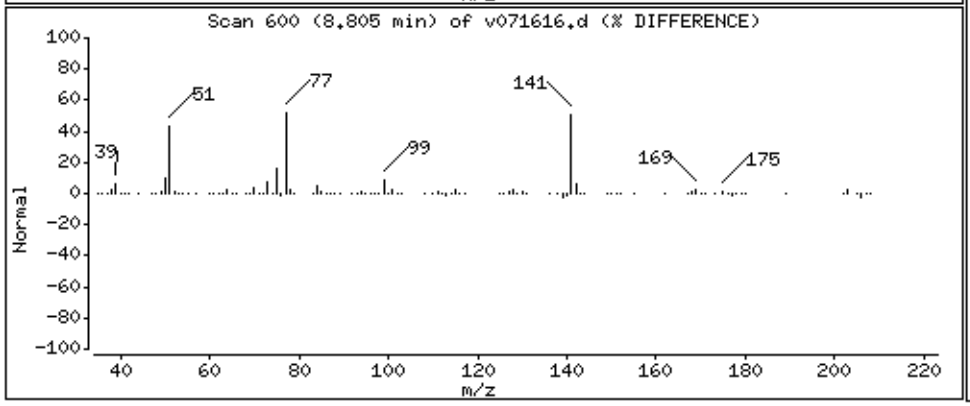
58 4-Chlorophenyl phenyl ether

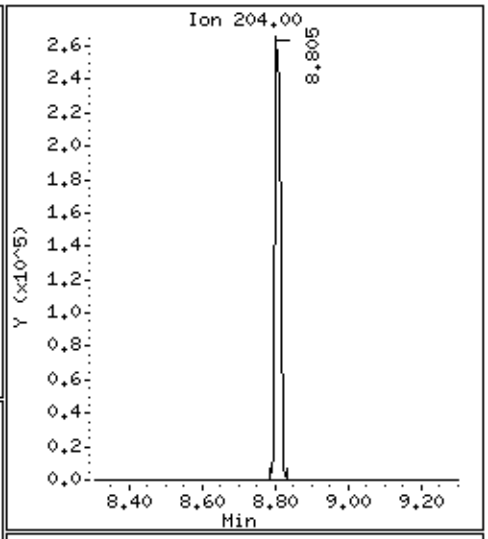
Concentration: 49.55 ug

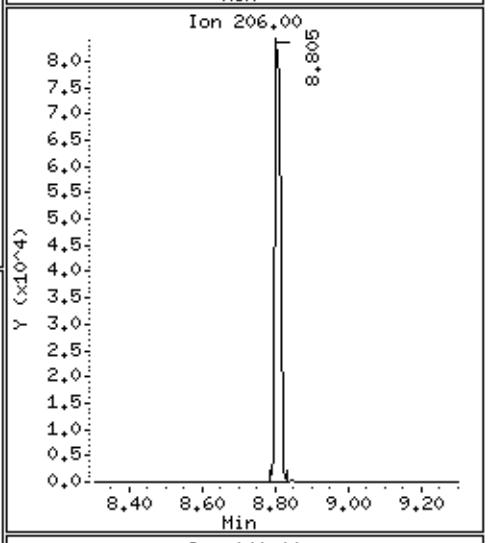


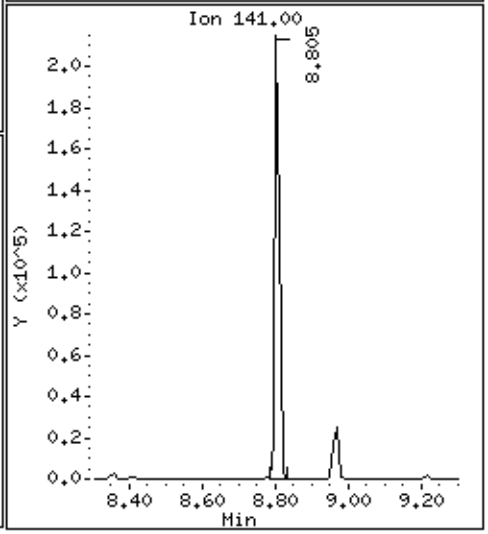












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

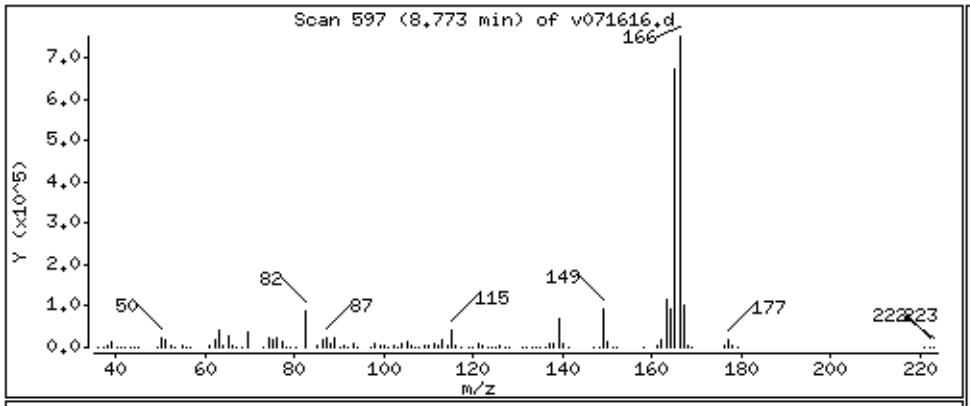
Operator: rn

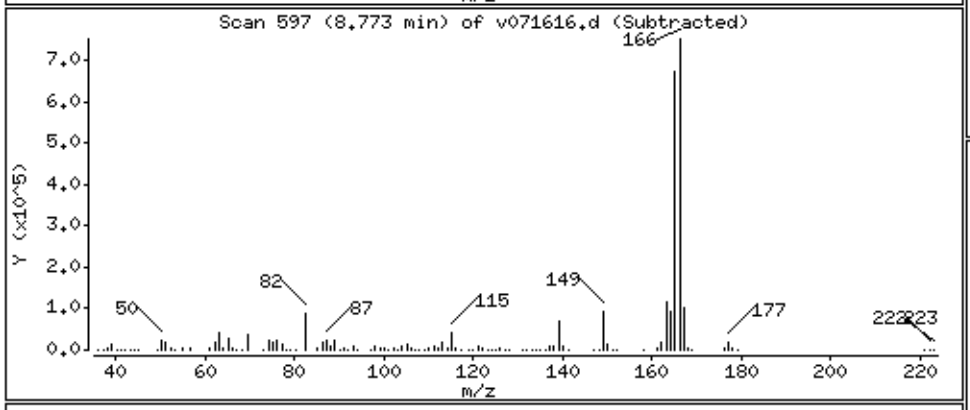
Column phase: DB-5.625

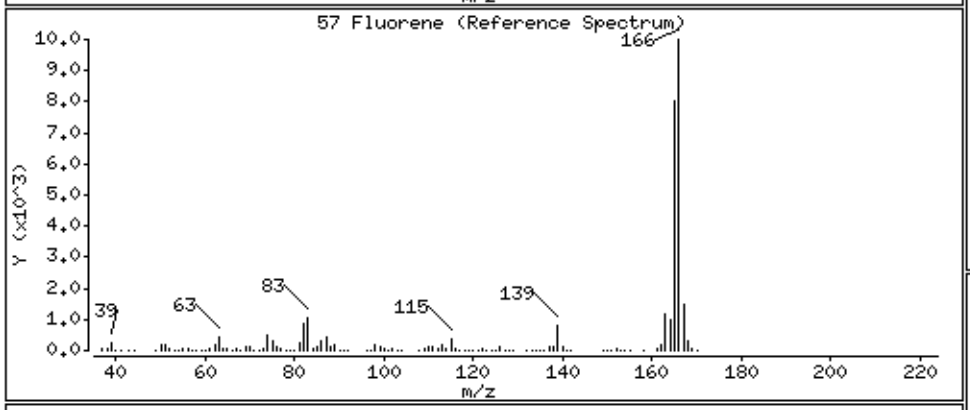
Column diameter: 0.25

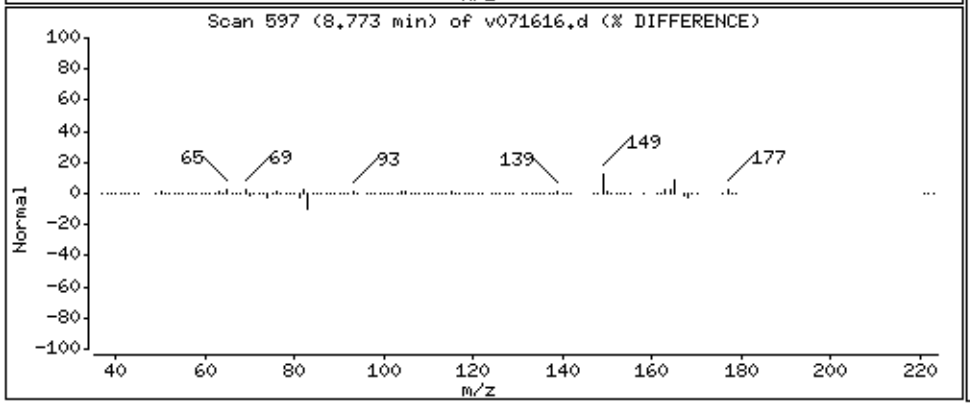
57 Fluorene

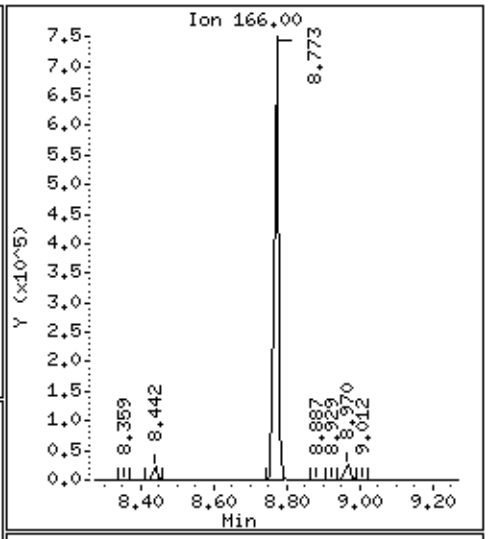
Concentration: 50.73 ug

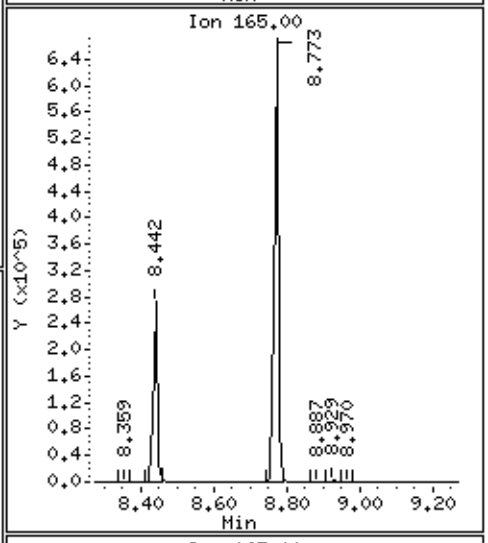


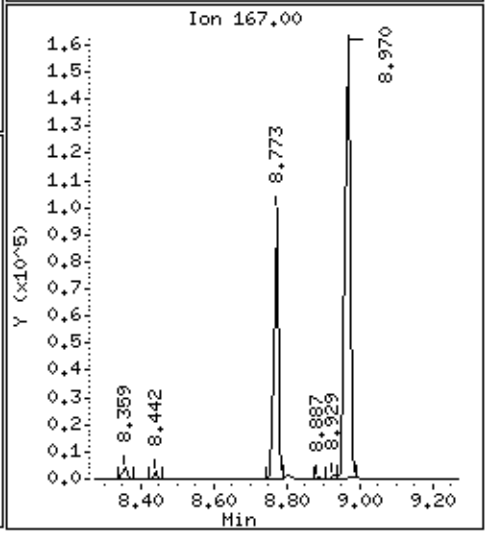












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

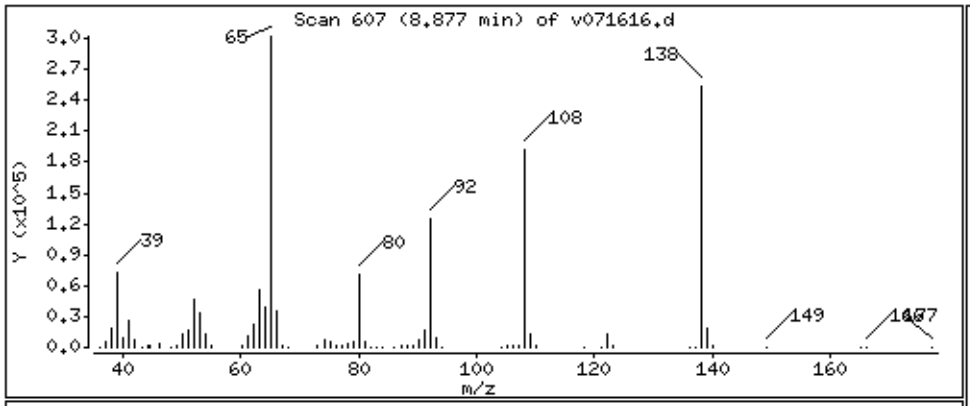
Operator: rn

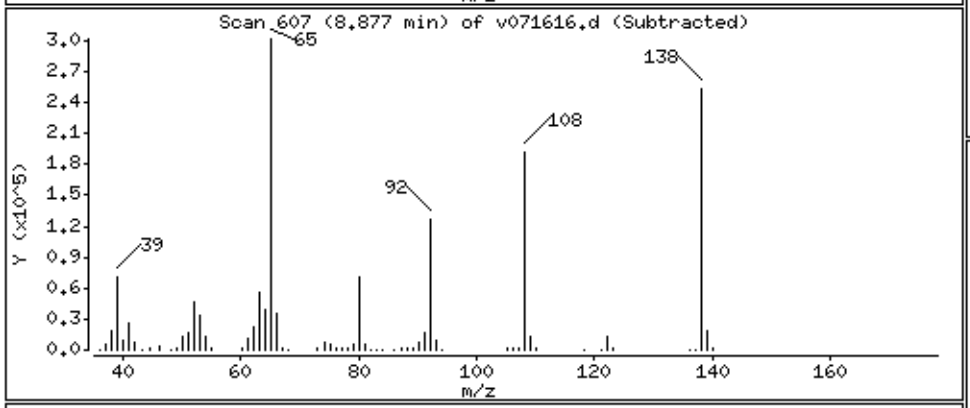
Column phase: DB-5.625

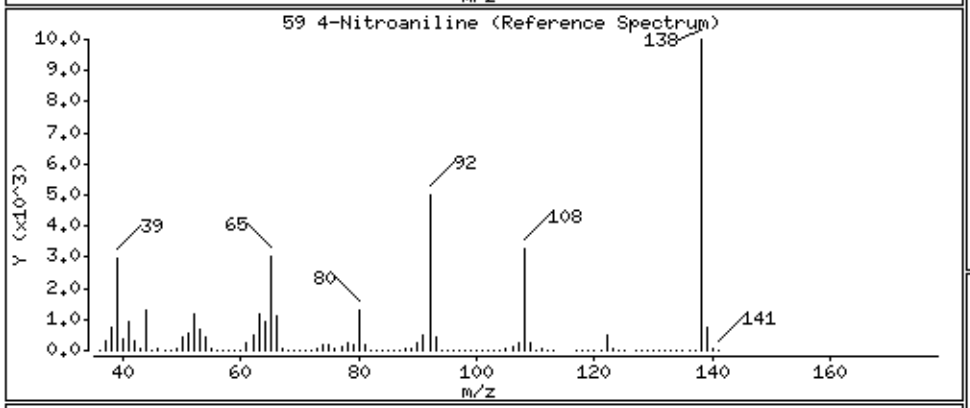
Column diameter: 0.25

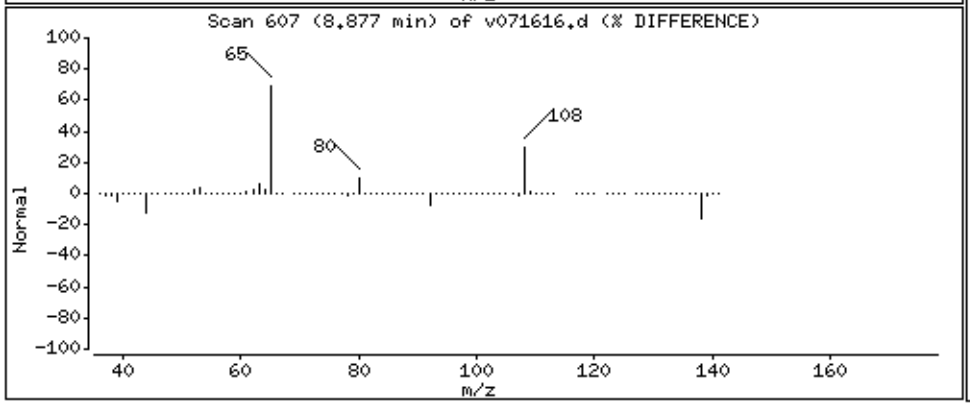
59 4-Nitroaniline

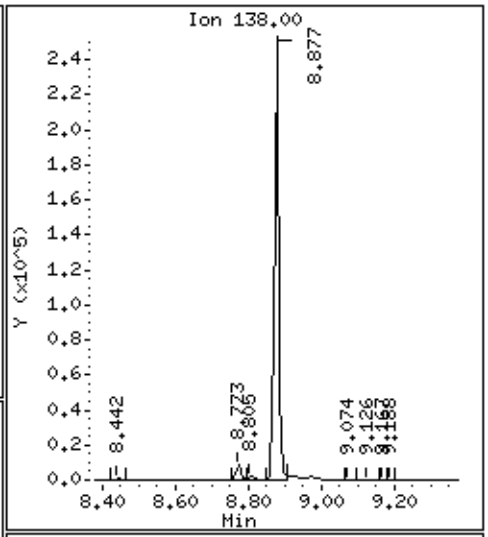
Concentration: 55.11 ug

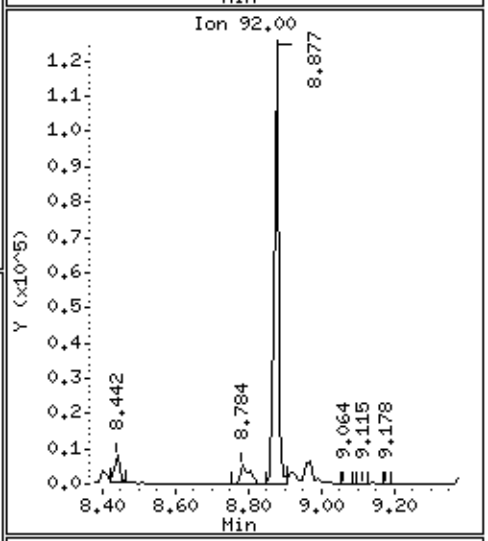


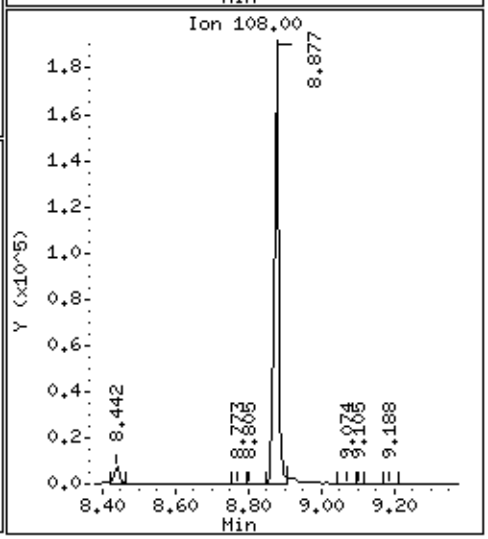












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

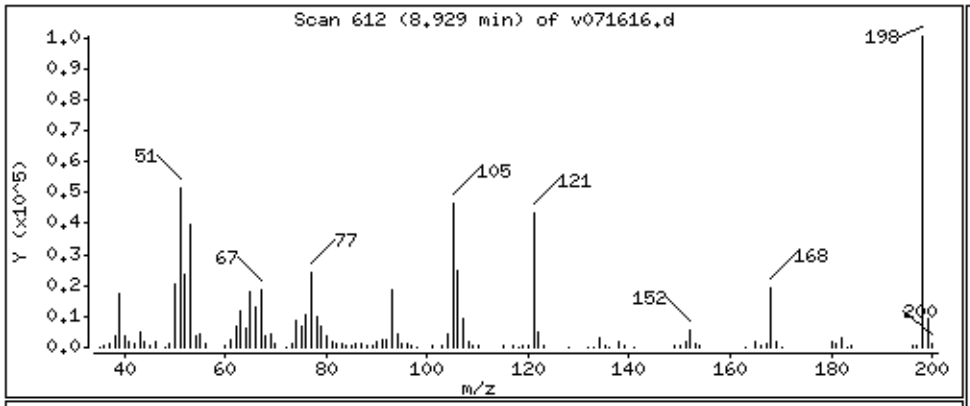
Operator: rn

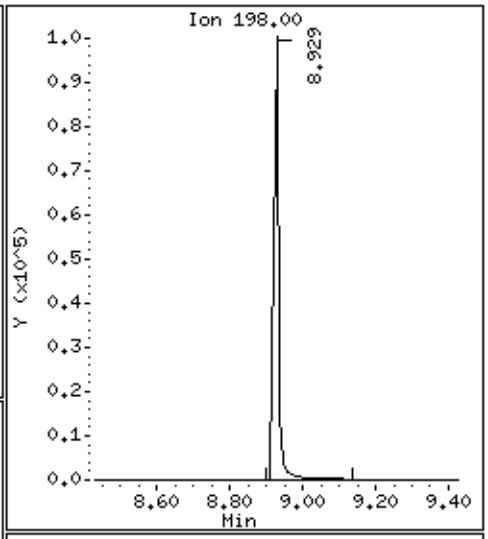
Column phase: DB-5.625

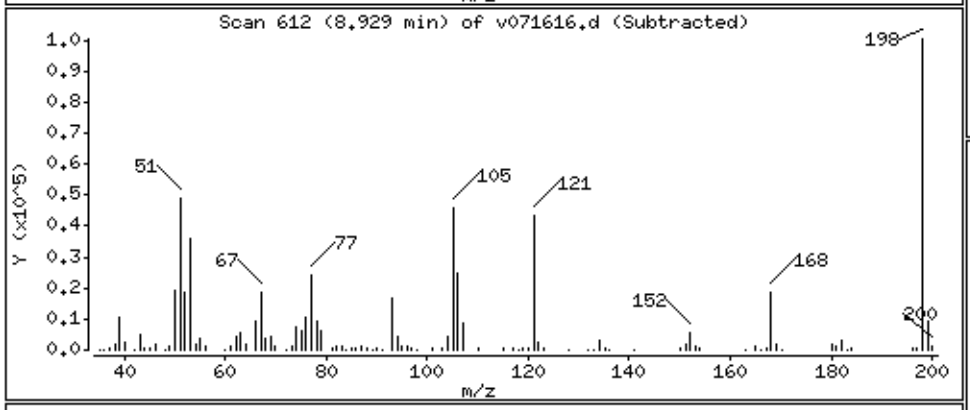
Column diameter: 0.25

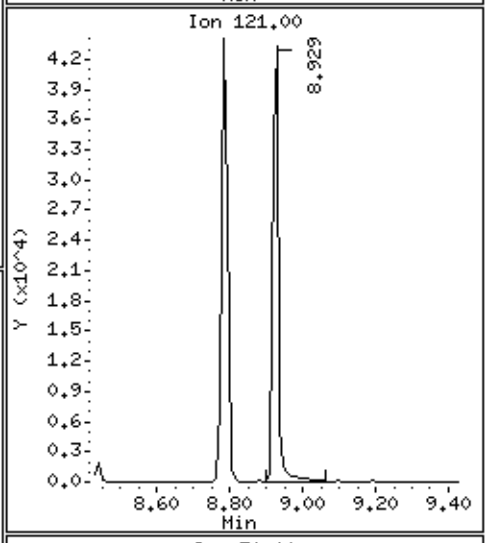
60 4,6-Dinitro-2-methylphenol

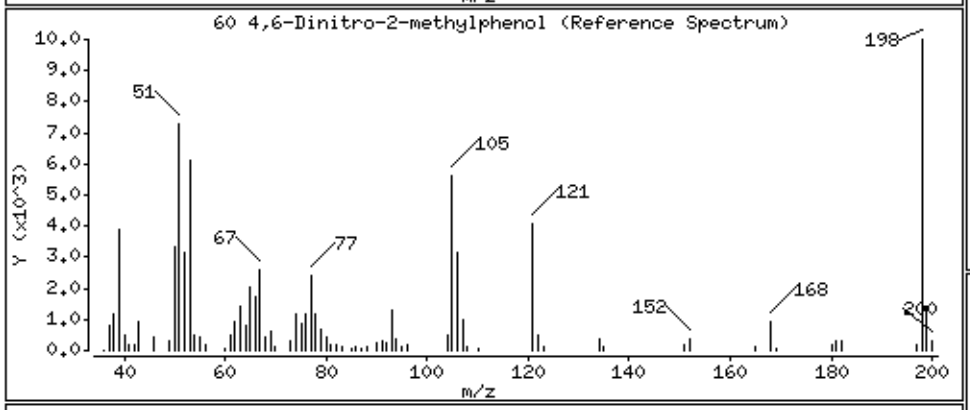
Concentration: 54.42 ug

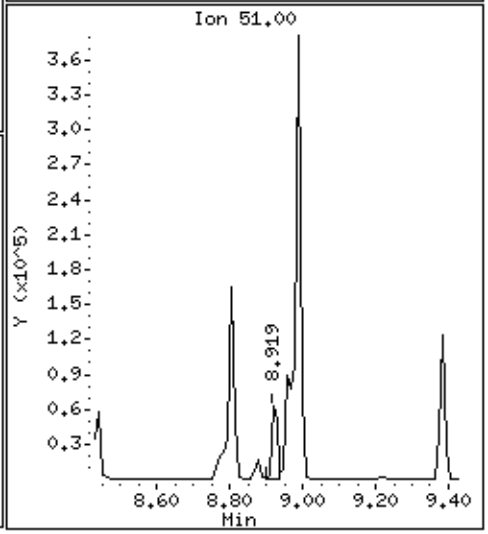


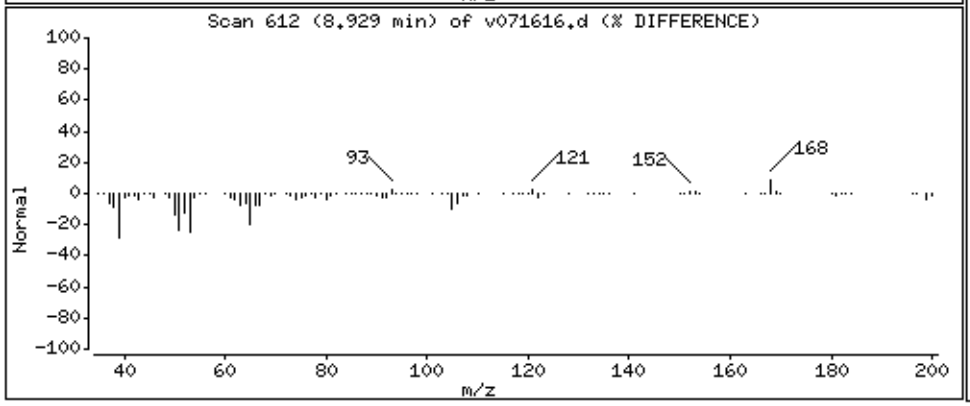












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

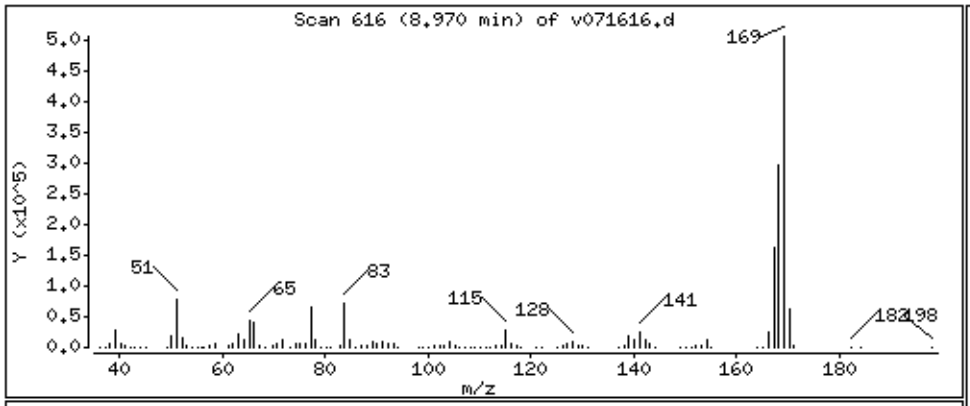
Operator: rn

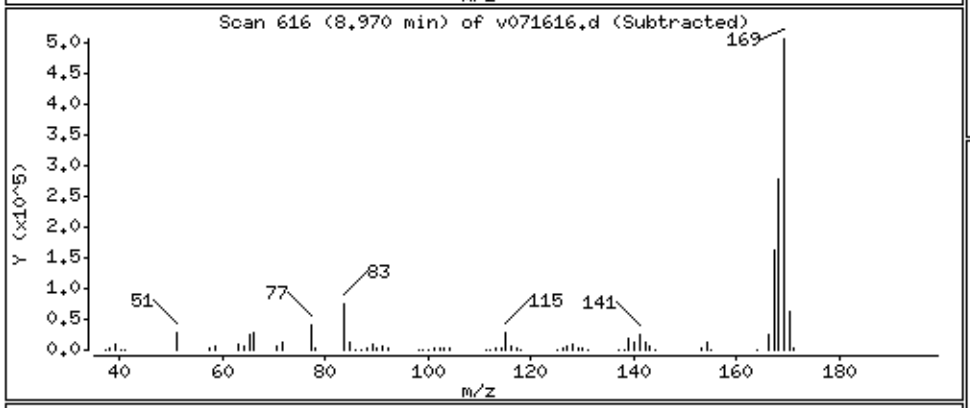
Column phase: DB-5.625

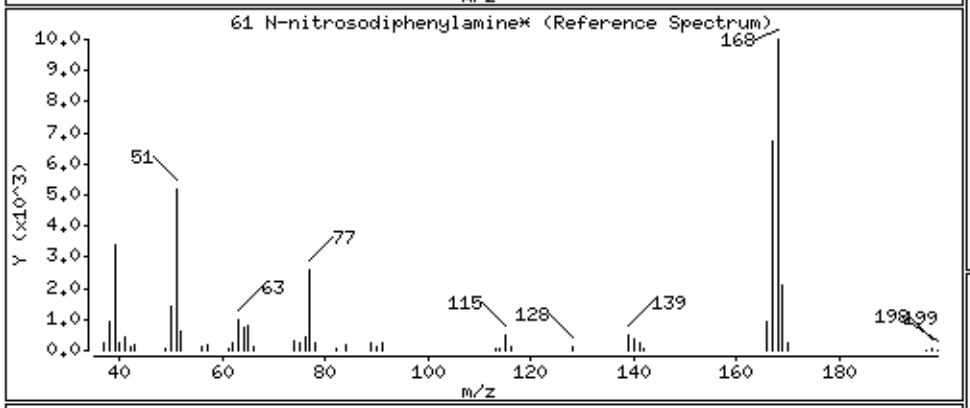
Column diameter: 0.25

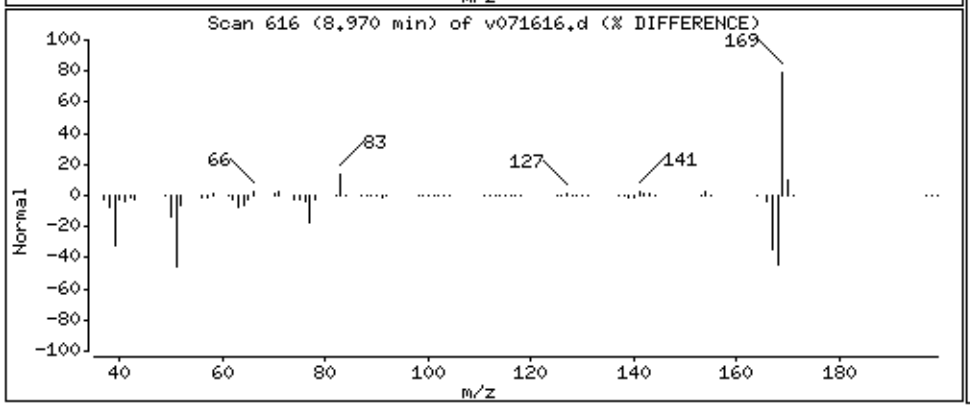
61 N-nitrosodiphenylamine*

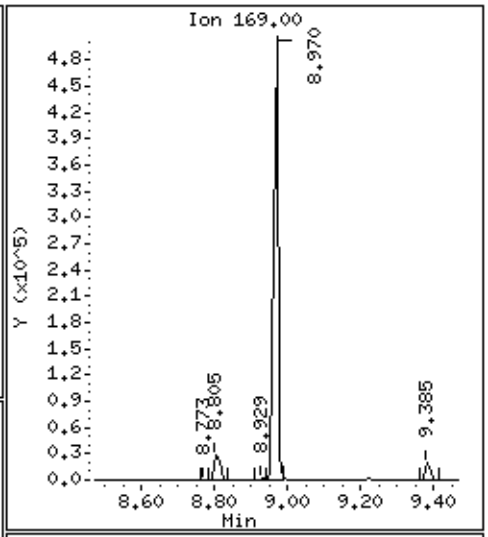
Concentration: 42.96 ug

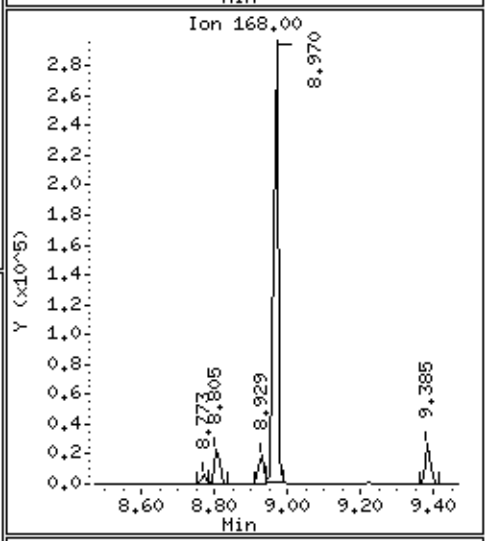


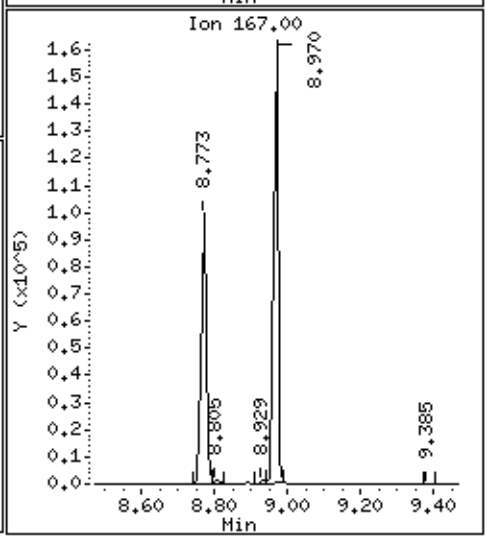












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

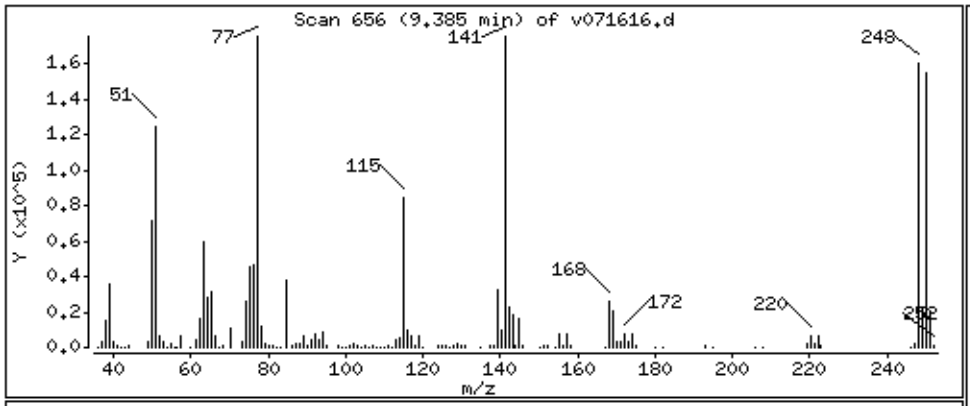
Operator: rn

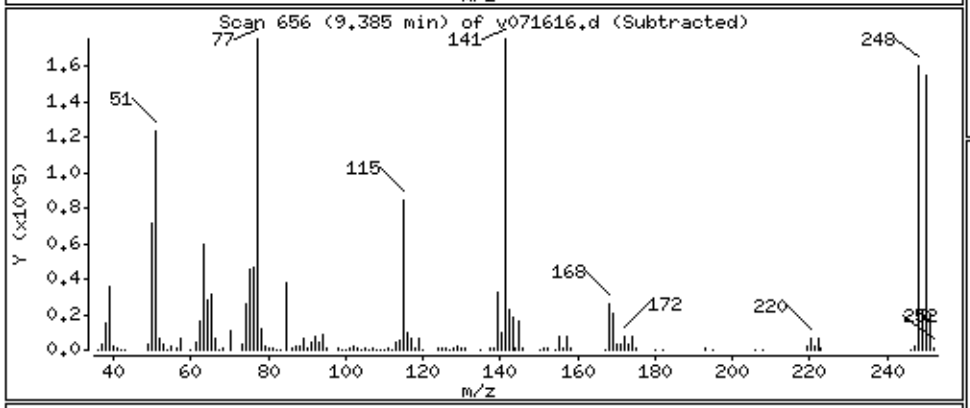
Column phase: DB-5.625

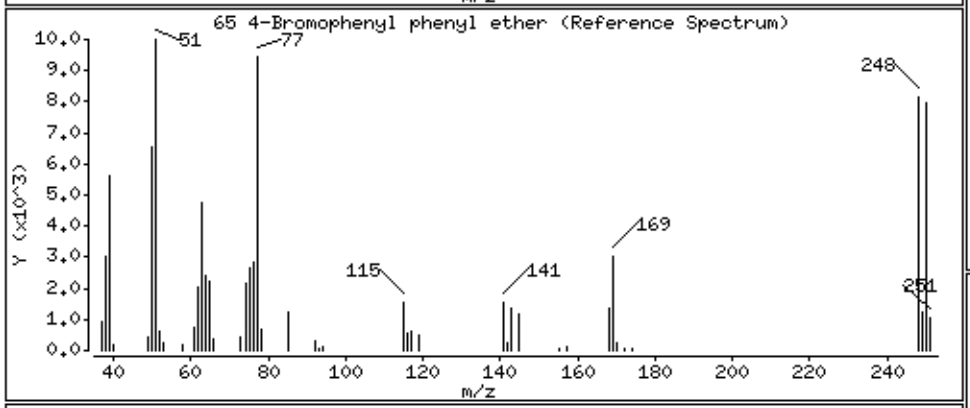
Column diameter: 0.25

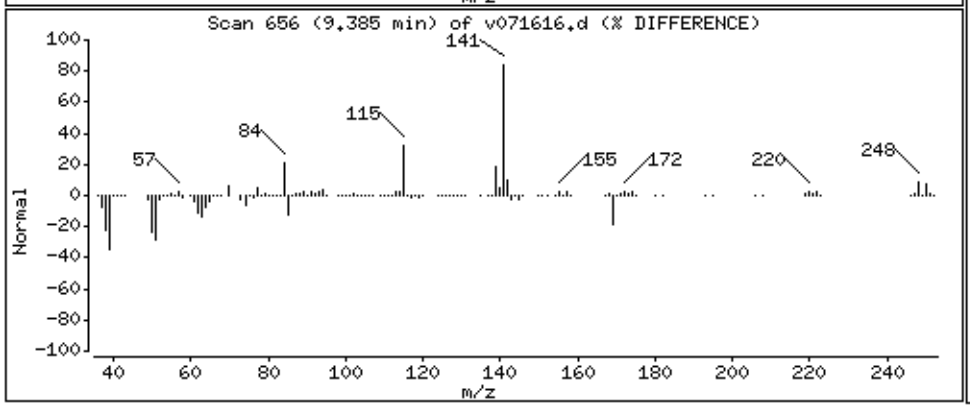
65 4-Bromophenyl phenyl ether

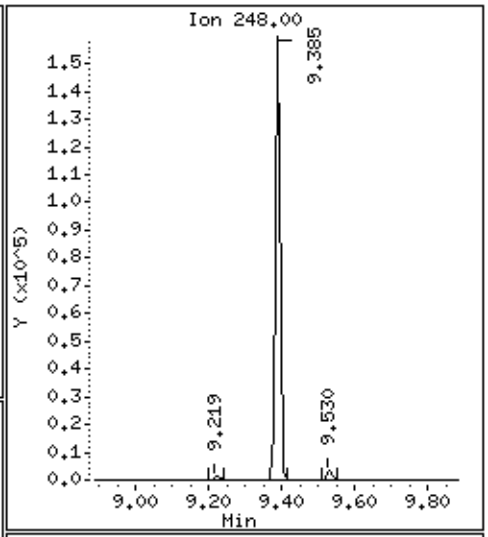
Concentration: 48.22 ug

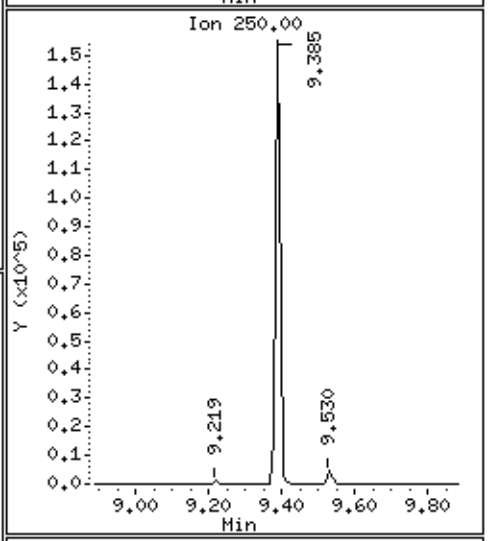


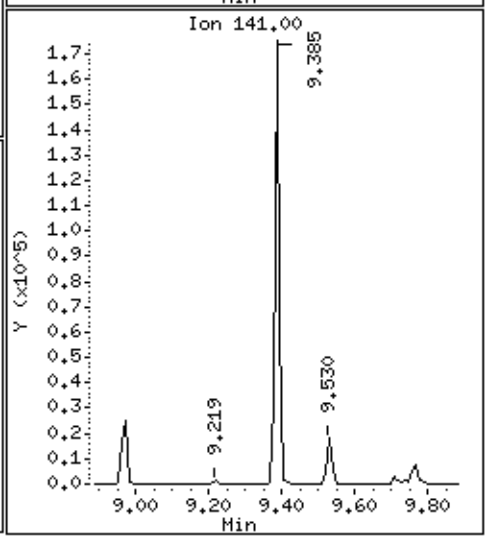












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

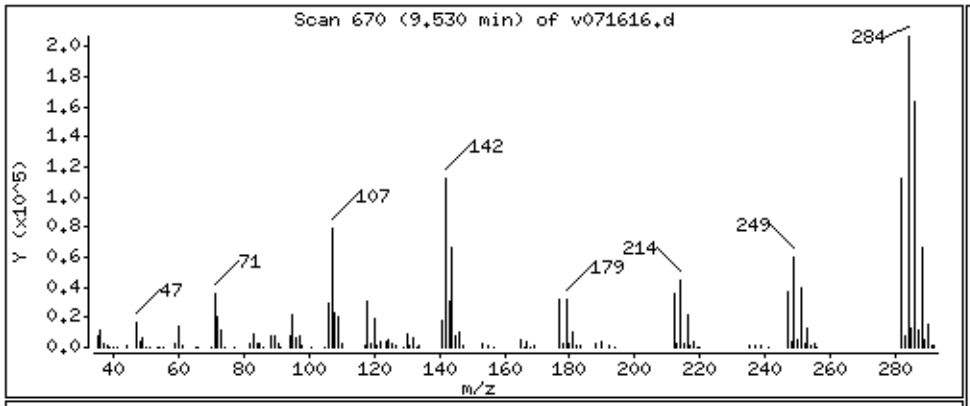
Operator: rn

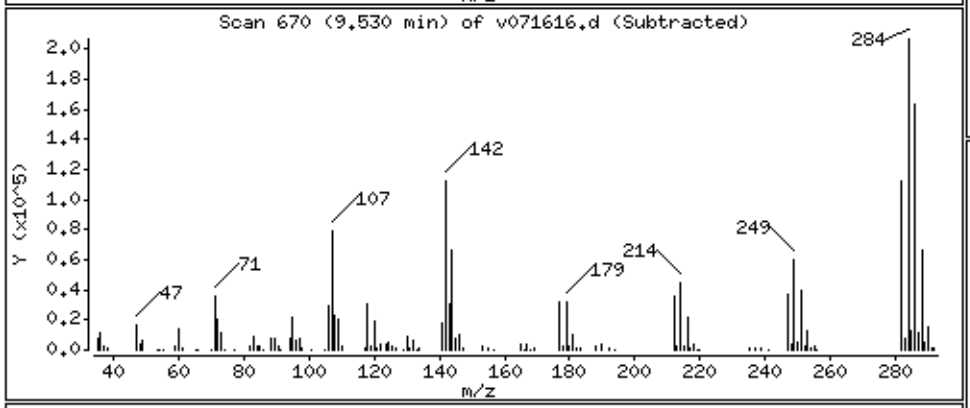
Column phase: DB-5.625

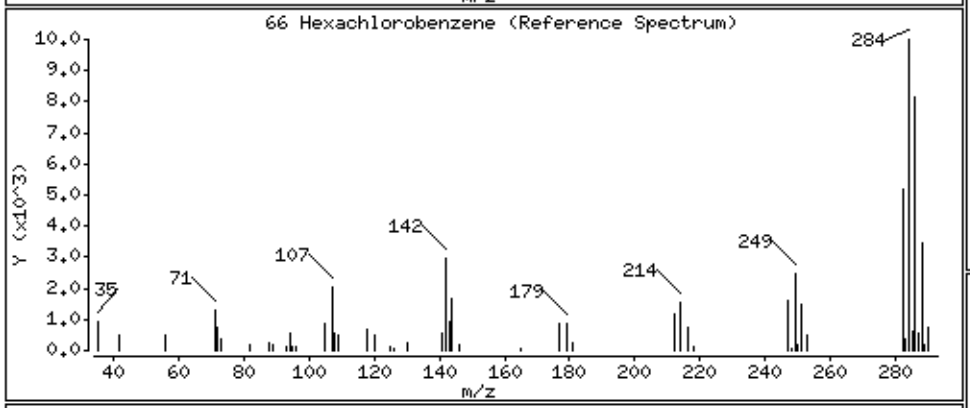
Column diameter: 0.25

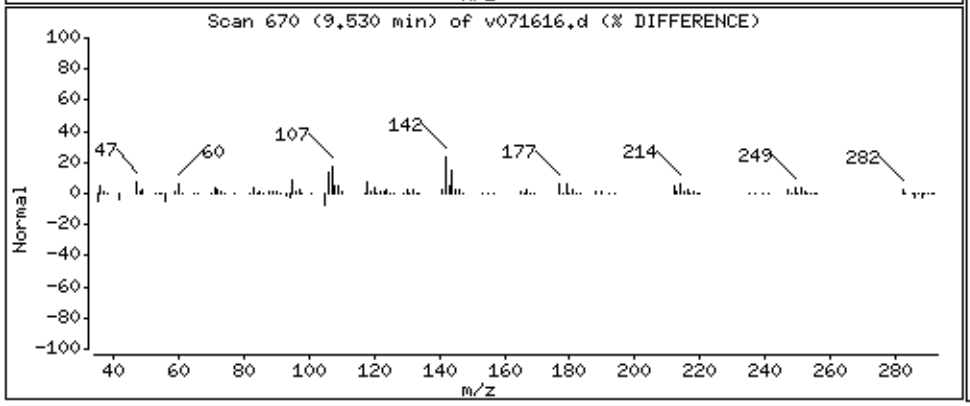
66 Hexachlorobenzene

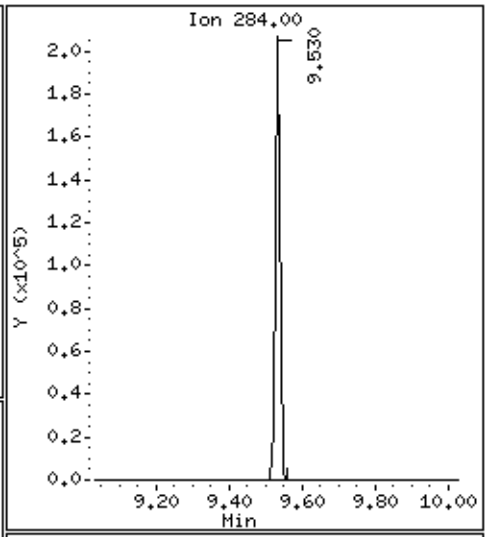
Concentration: 51.79 ug

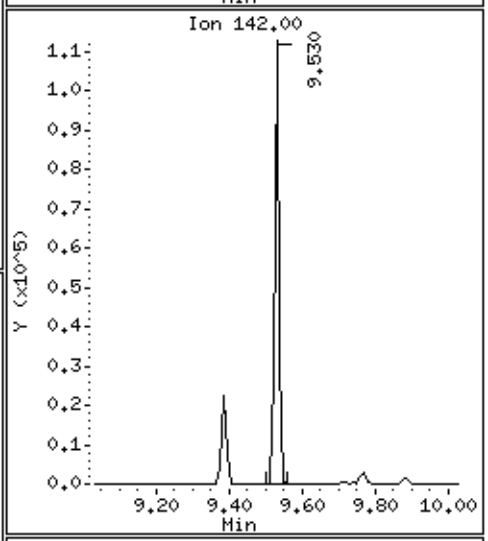


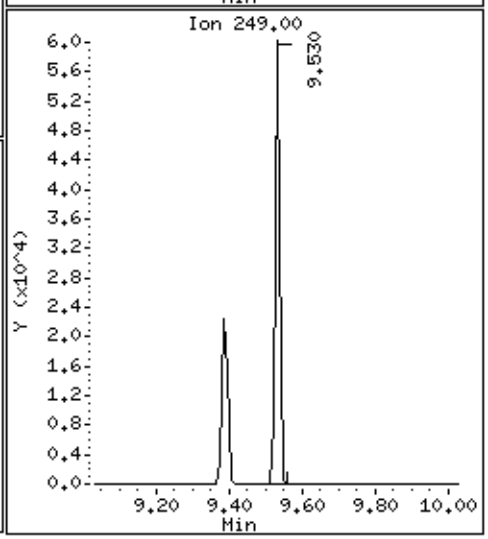












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

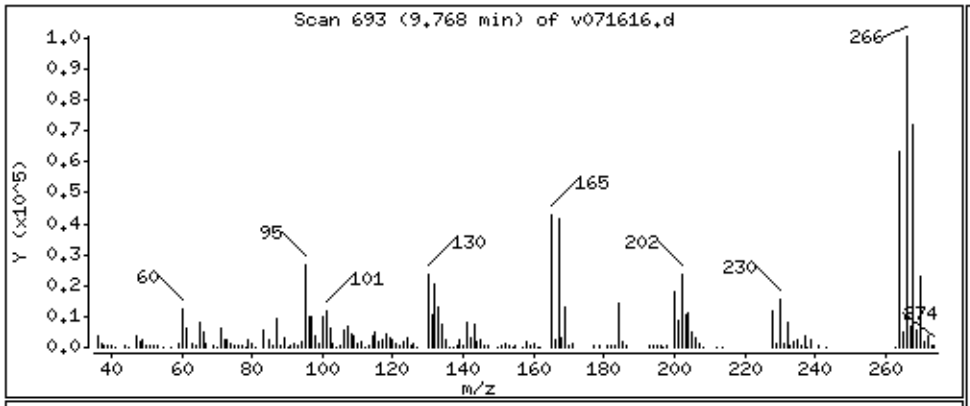
Operator: rn

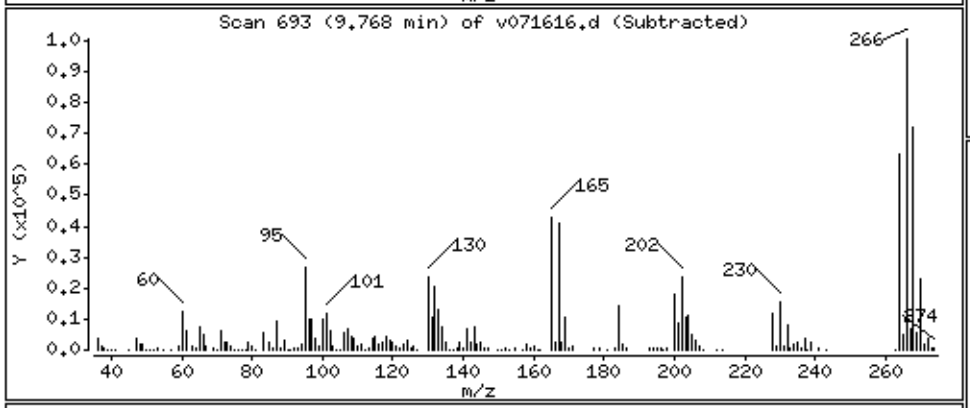
Column phase: DB-5.625

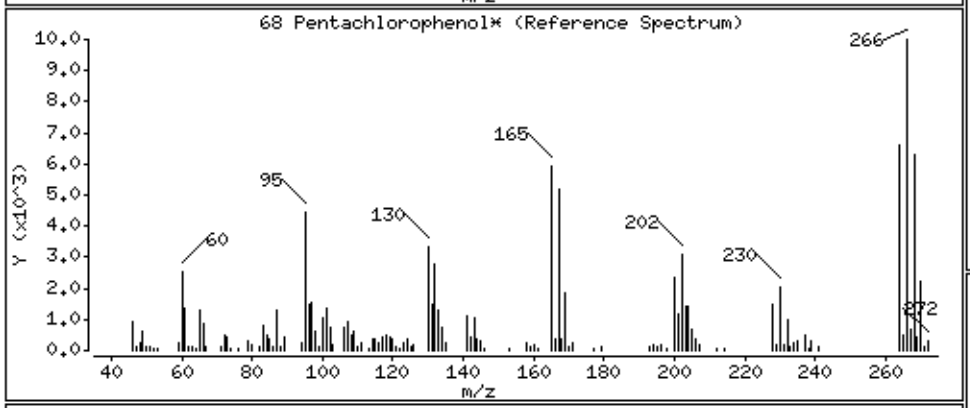
Column diameter: 0.25

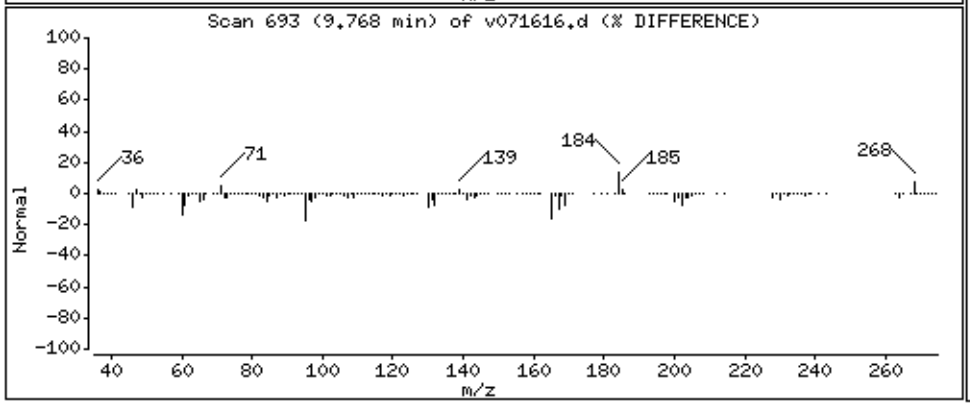
68 Pentachlorophenol*

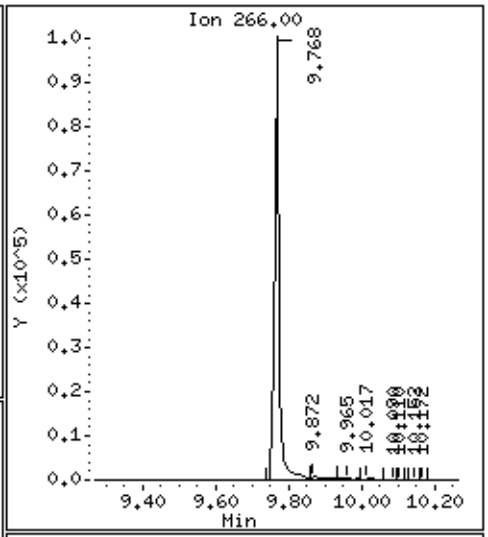
Concentration: 53.14 ug

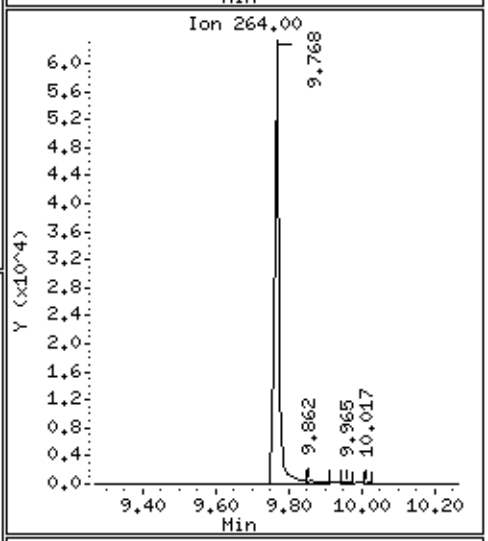


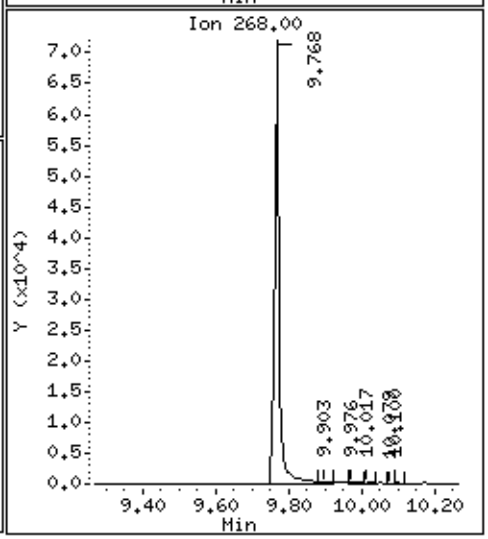












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

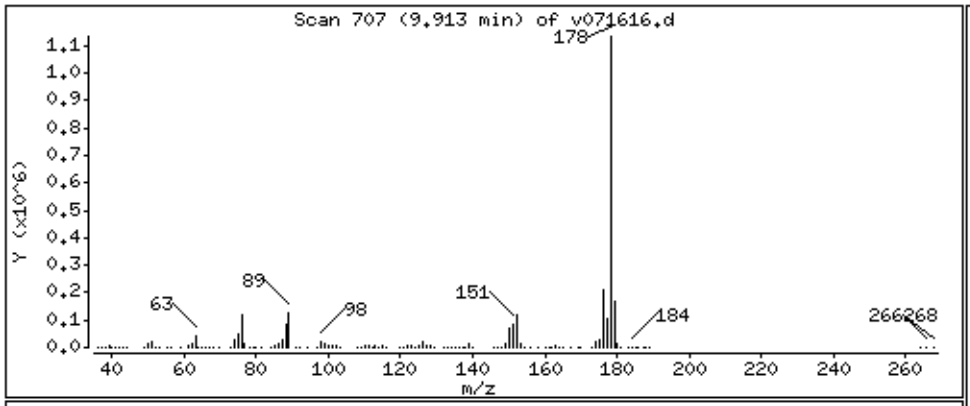
Operator: rn

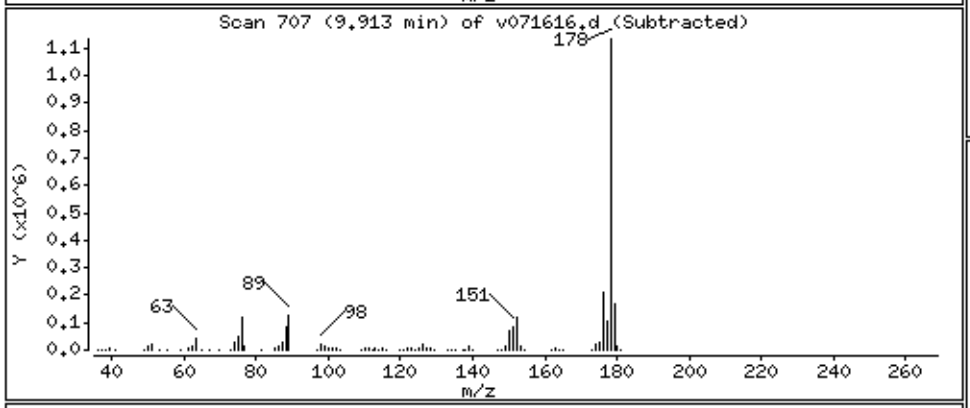
Column phase: DB-5.625

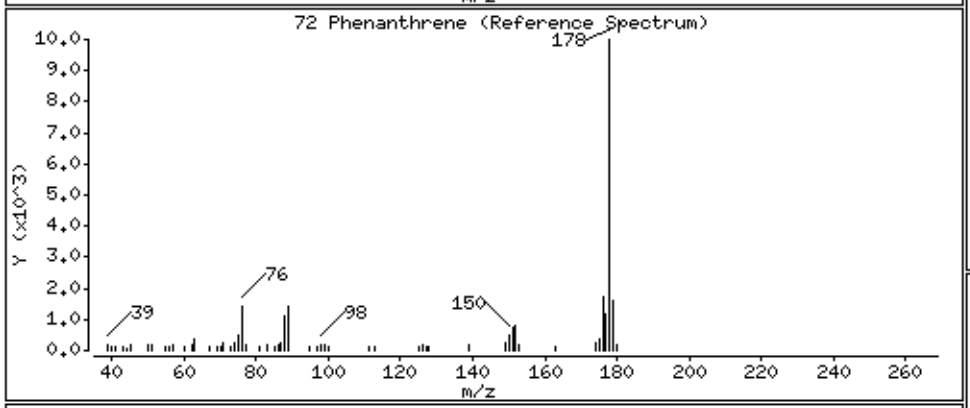
Column diameter: 0.25

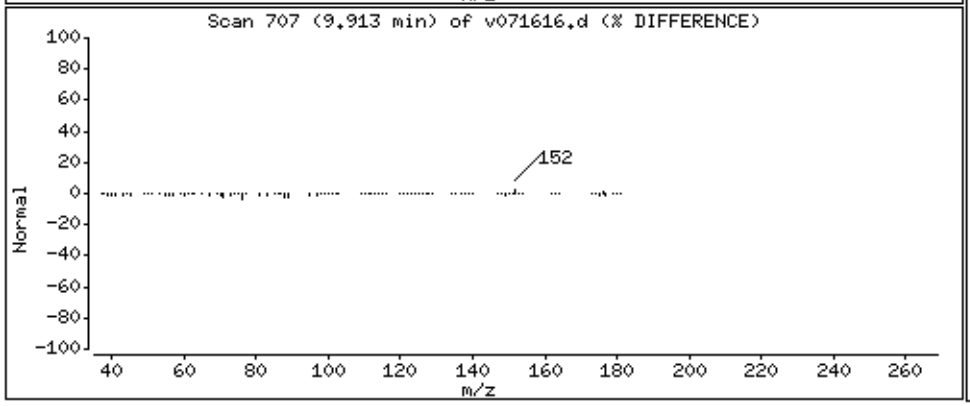
72 Phenanthrene

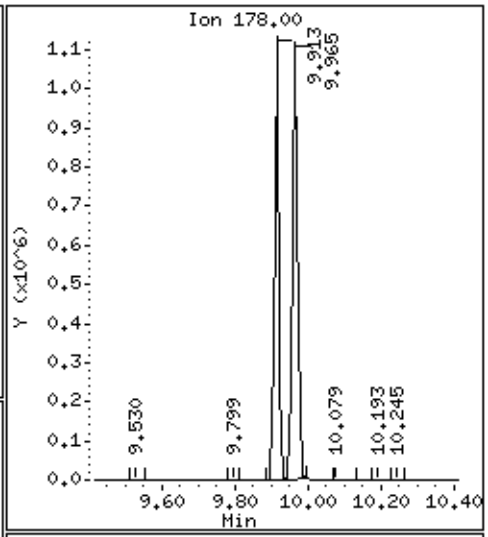
Concentration: 46.95 ug

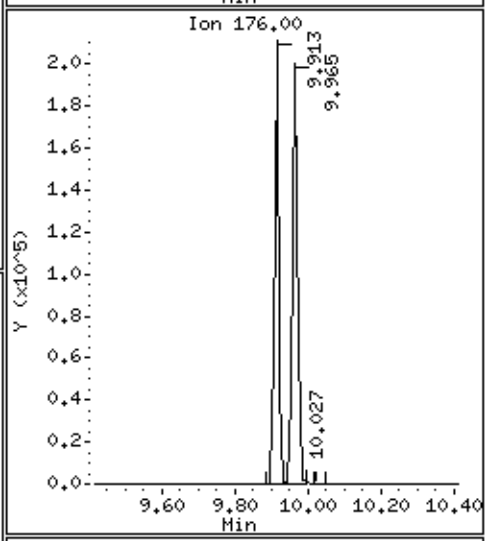


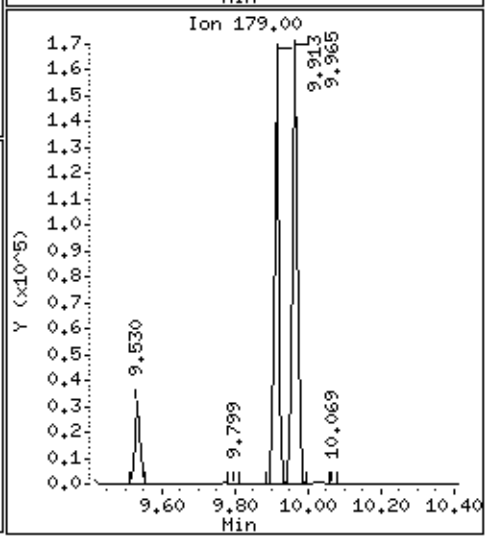












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

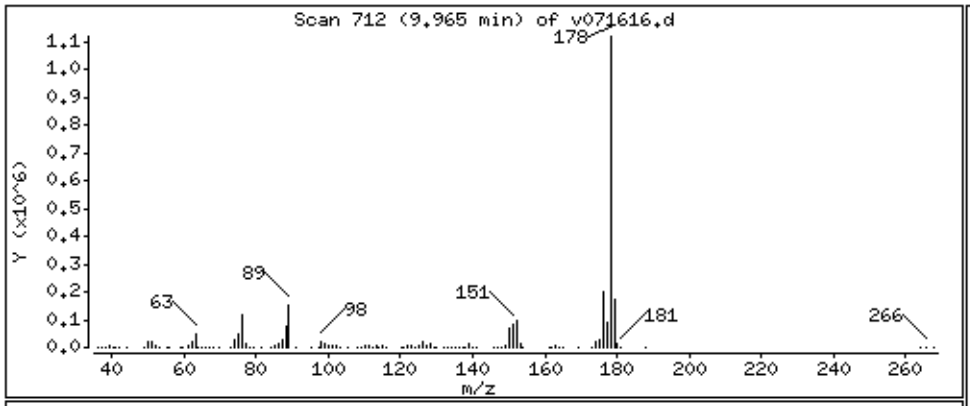
Operator: rn

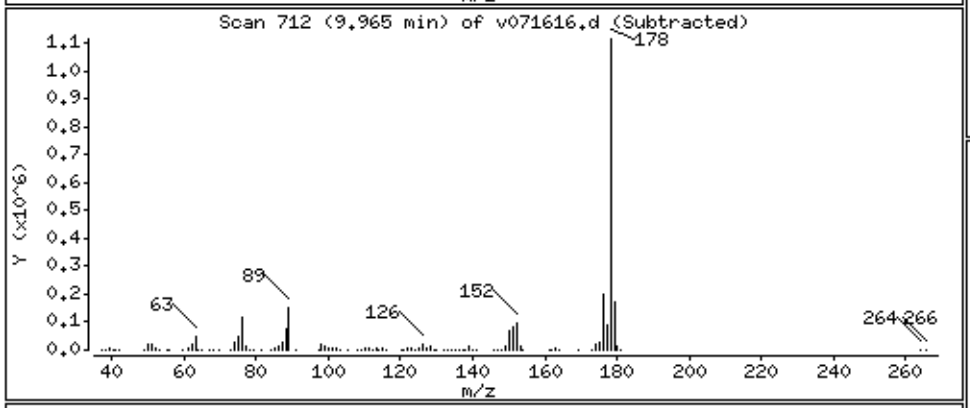
Column phase: DB-5.625

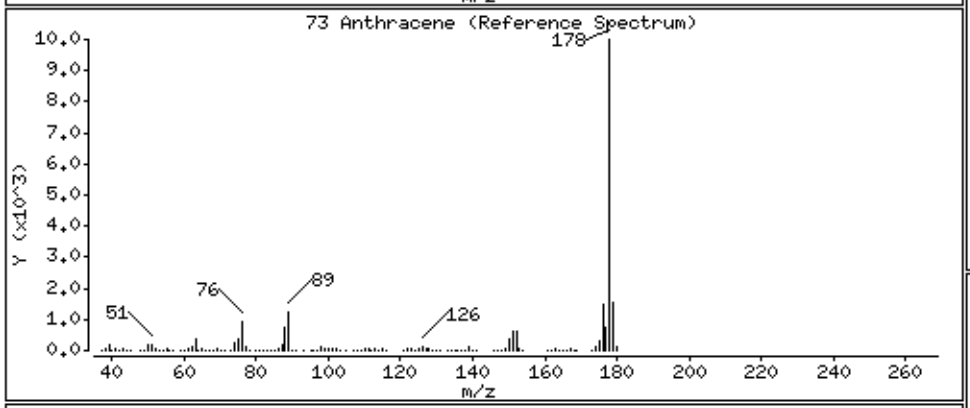
Column diameter: 0.25

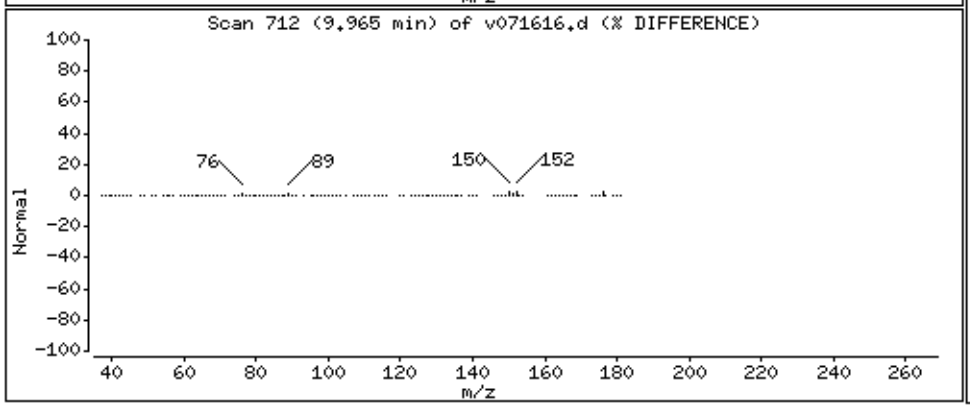
73 Anthracene

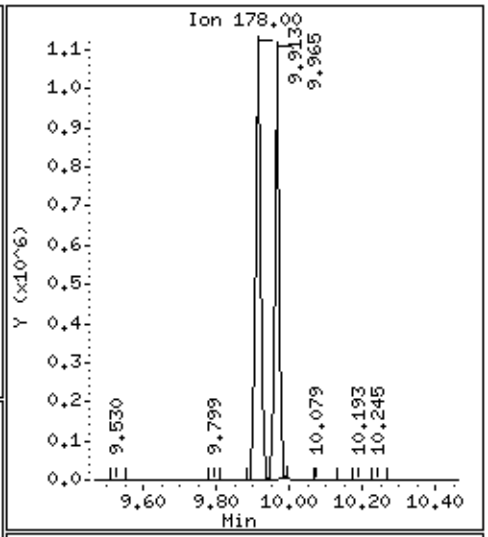
Concentration: 49.10 ug

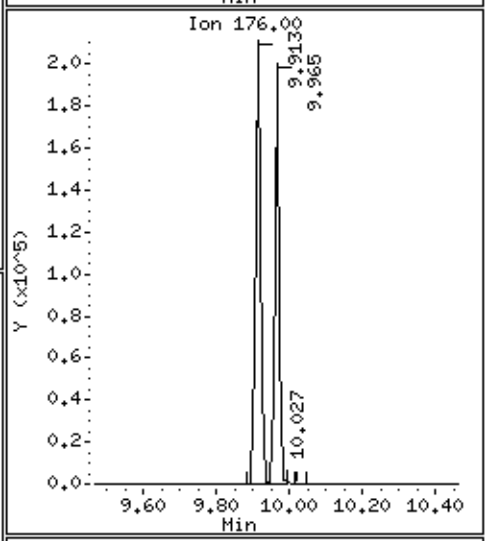


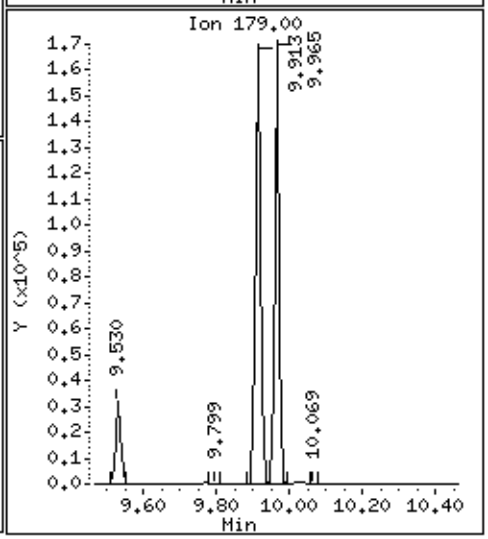












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

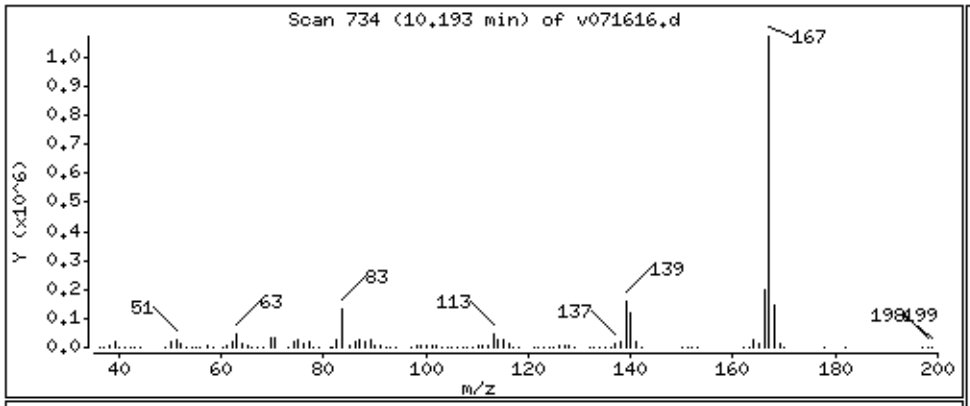
Operator: rn

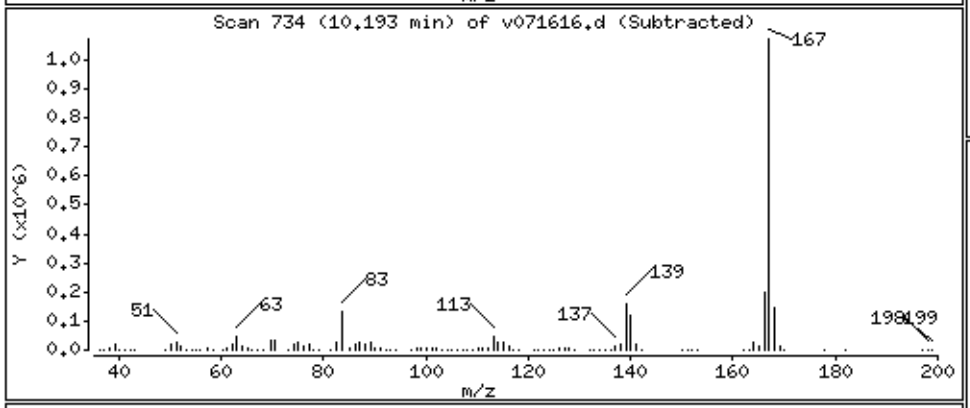
Column phase: DB-5.625

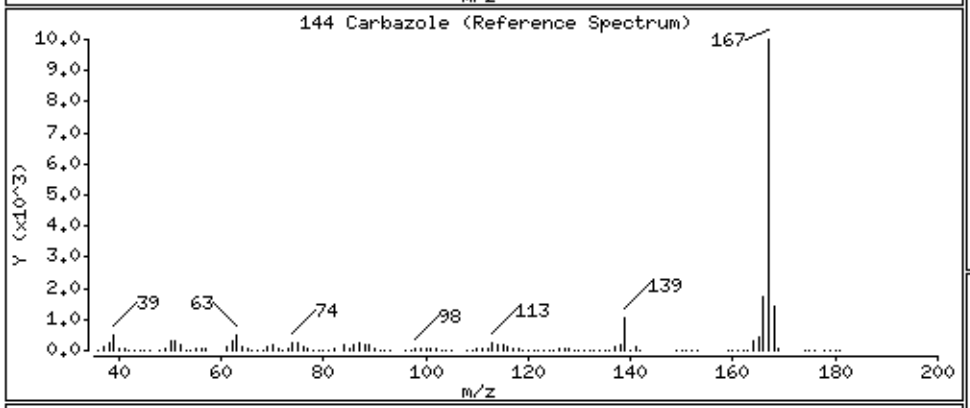
Column diameter: 0.25

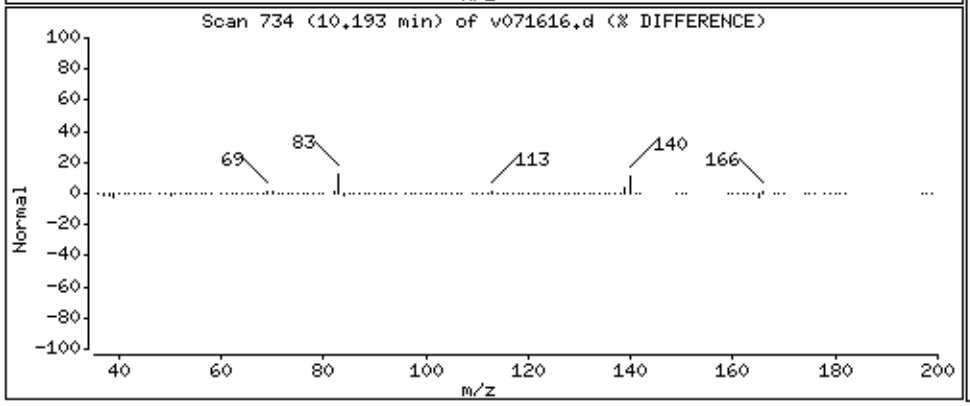
144 Carbazole

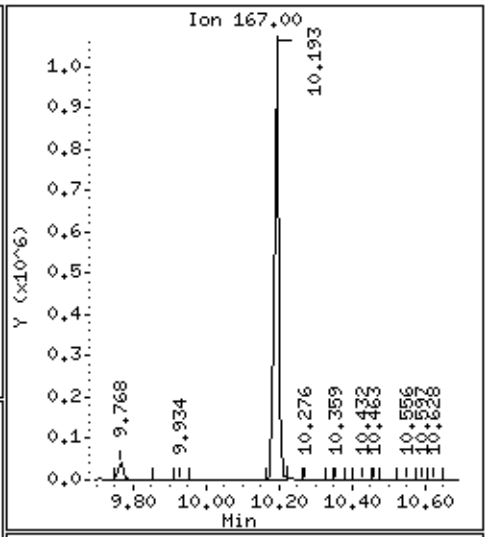
Concentration: 53.33 ug

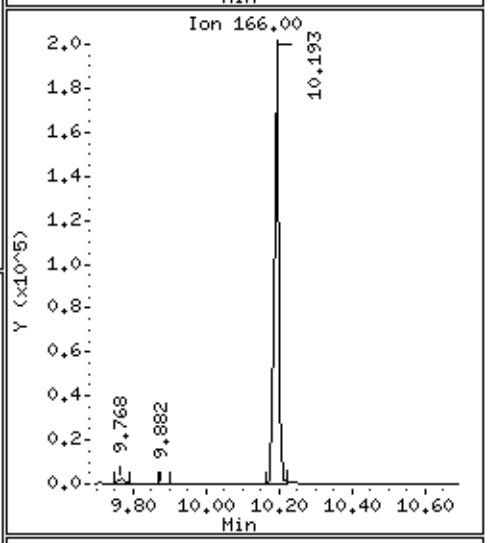


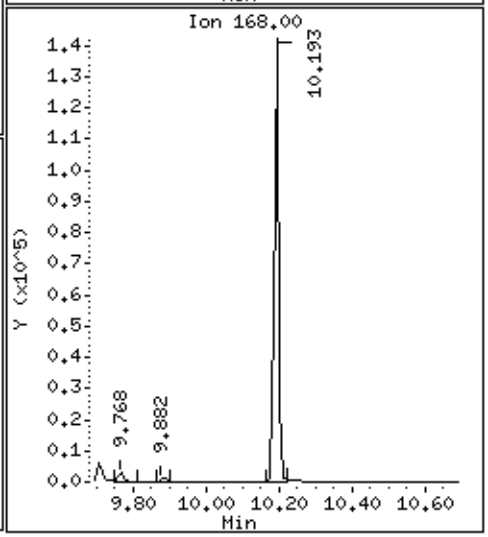












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

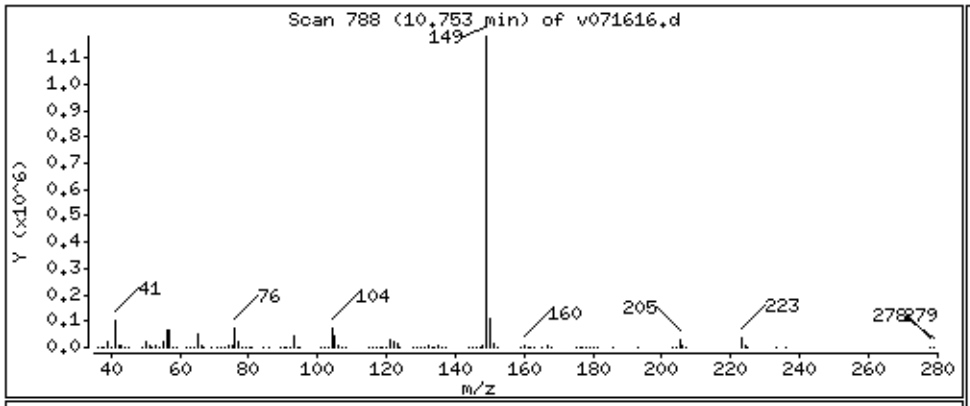
Operator: rn

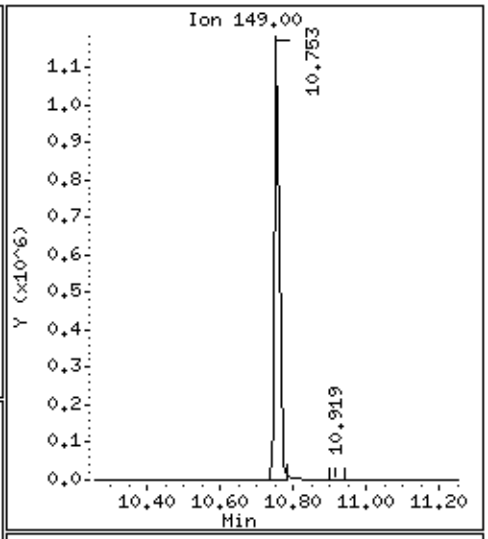
Column phase: DB-5.625

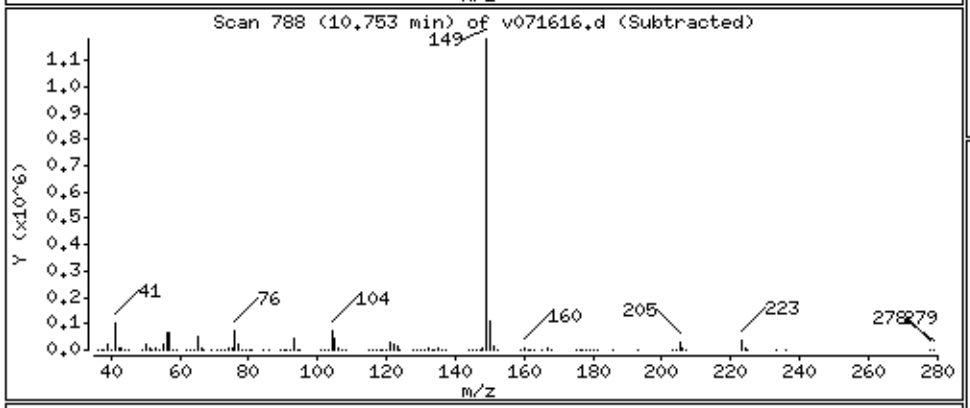
Column diameter: 0.25

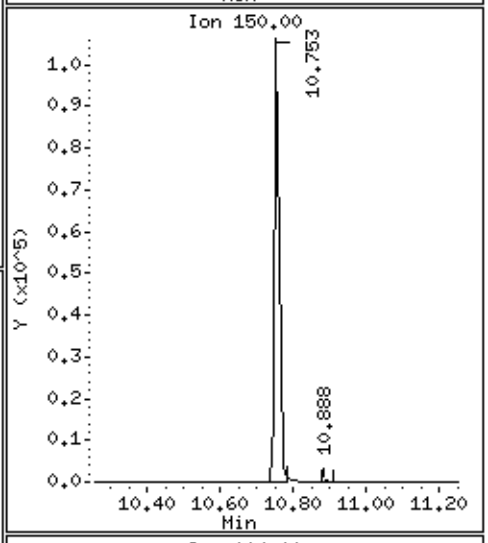
78 Di-n-butylphthalate

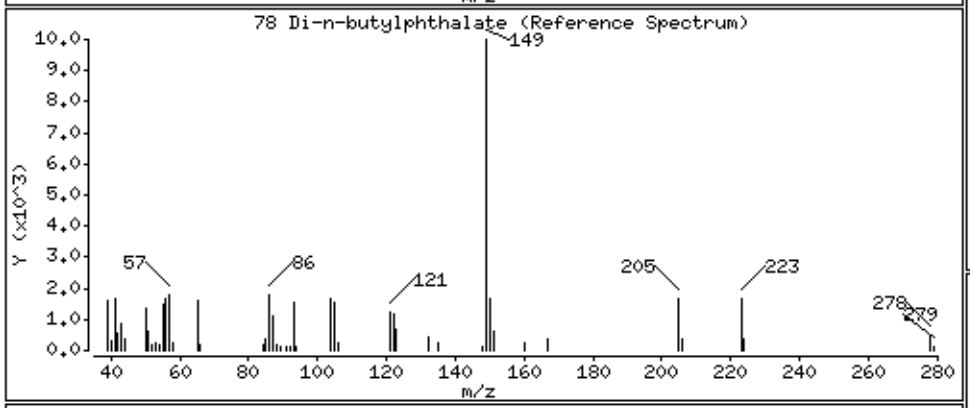
Concentration: 53.22 ug

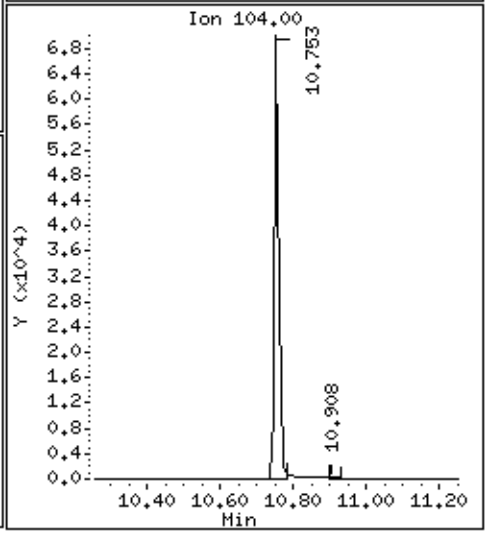


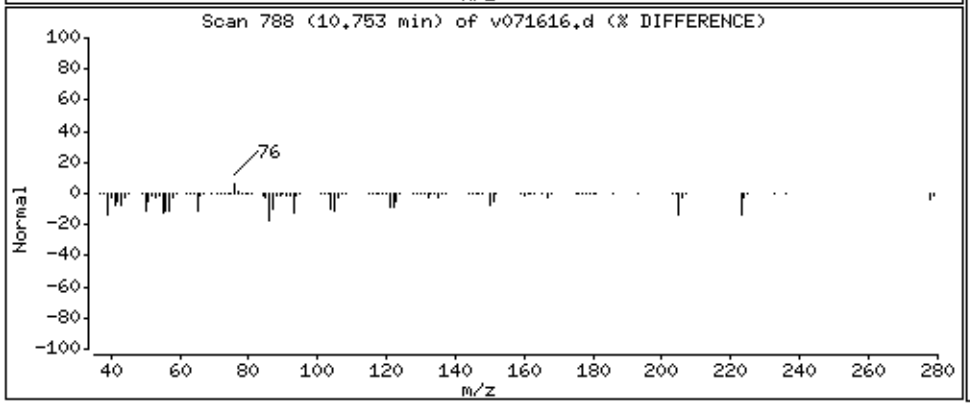












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

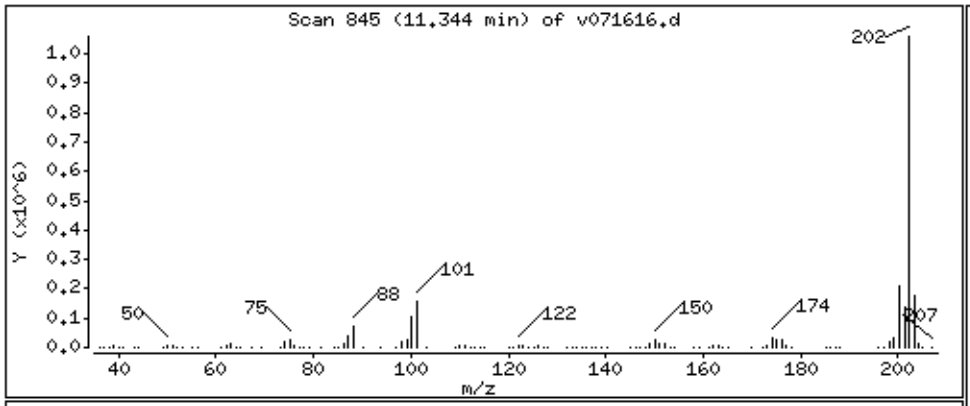
Operator: rn

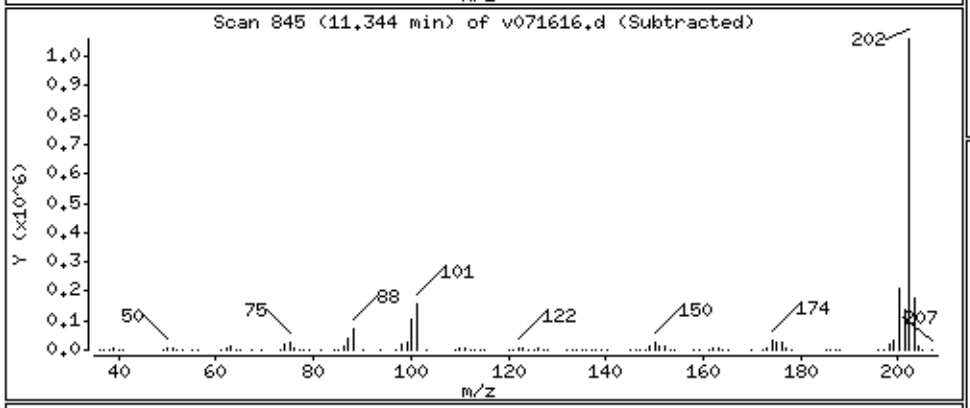
Column phase: DB-5.625

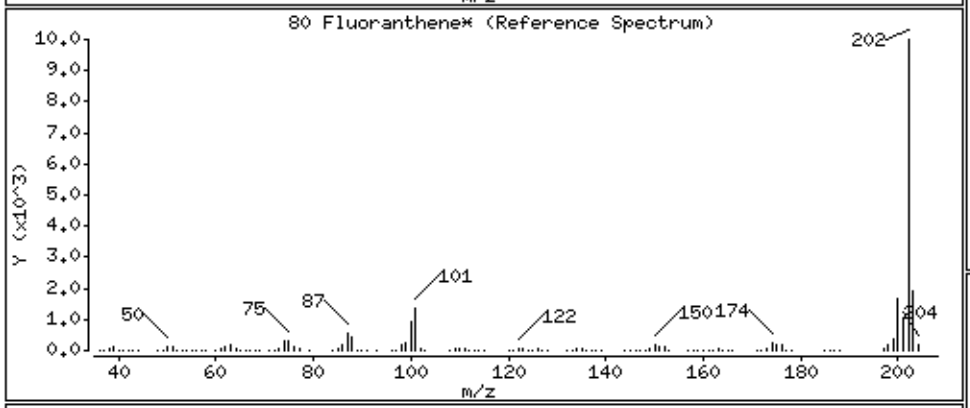
Column diameter: 0.25

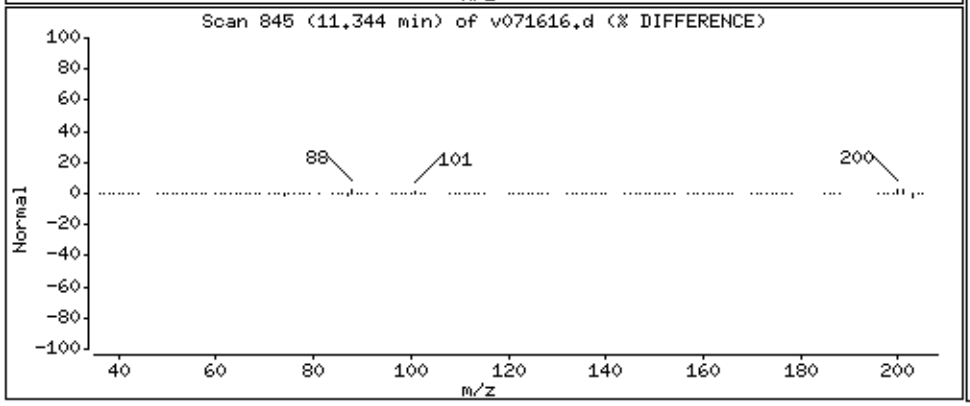
80 Fluoranthene*

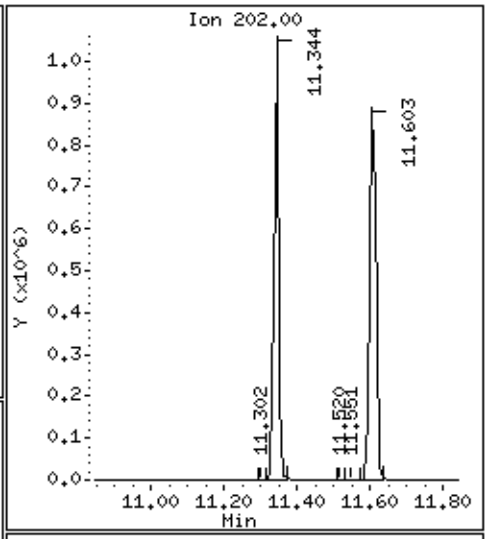
Concentration: 51.45 ug

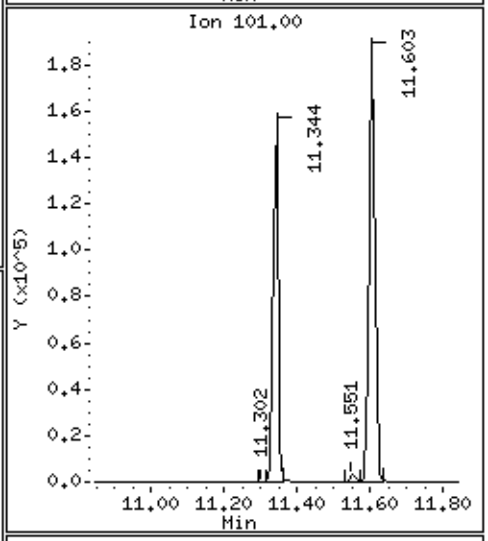


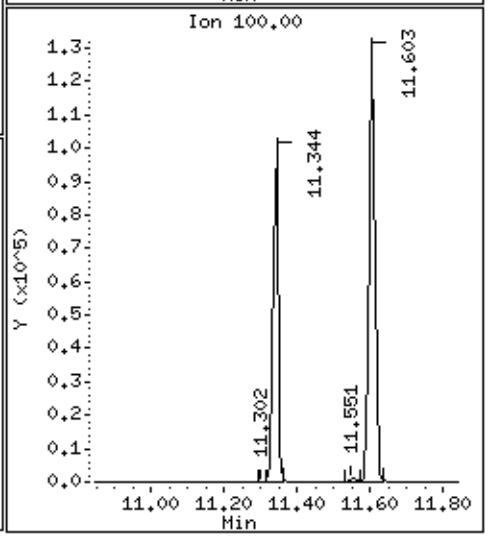












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

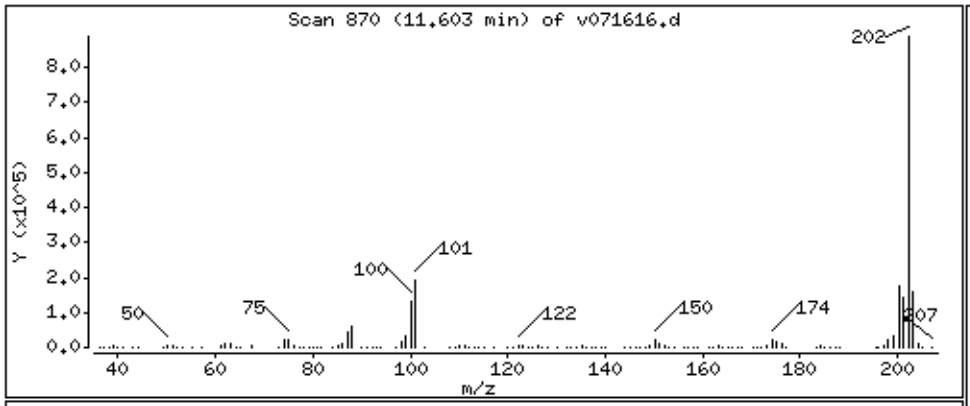
Operator: rn

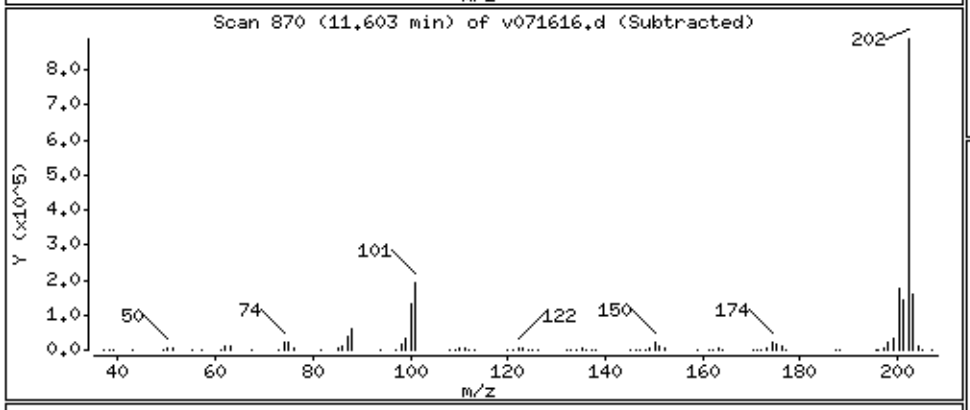
Column phase: DB-5.625

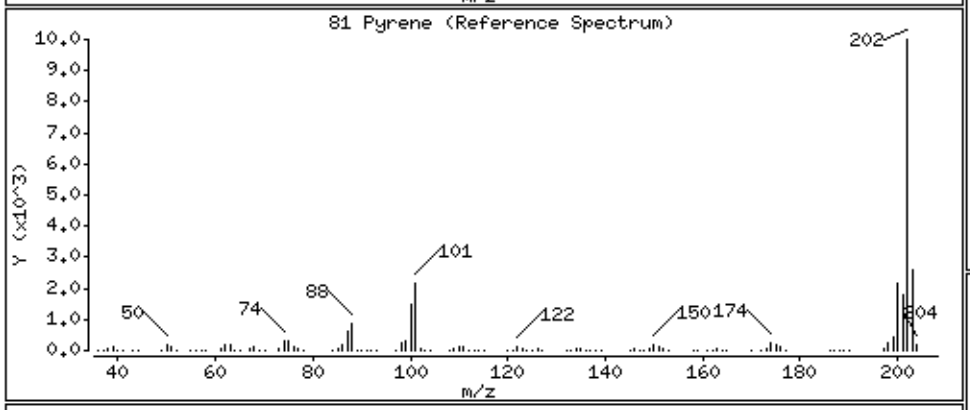
Column diameter: 0.25

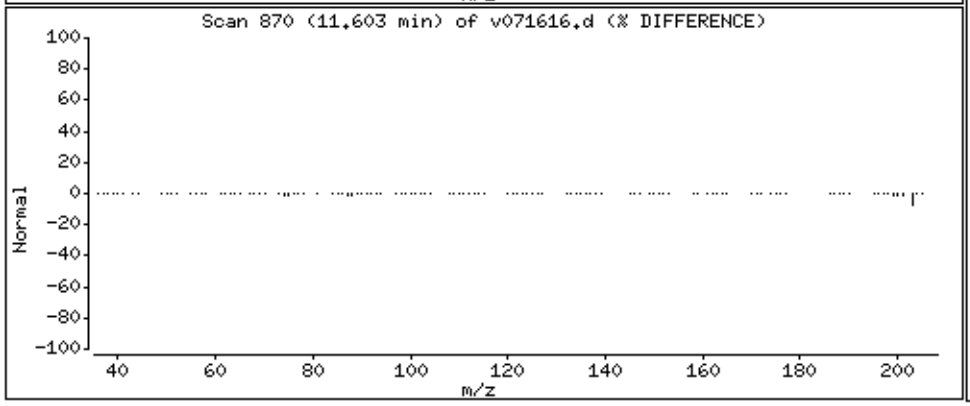
81 Pyrene

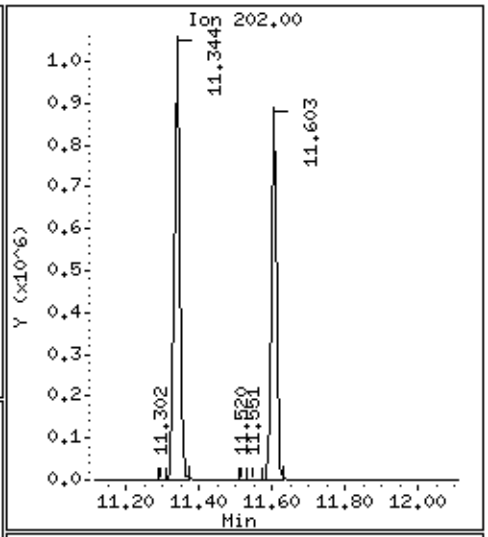
Concentration: 49.24 ug

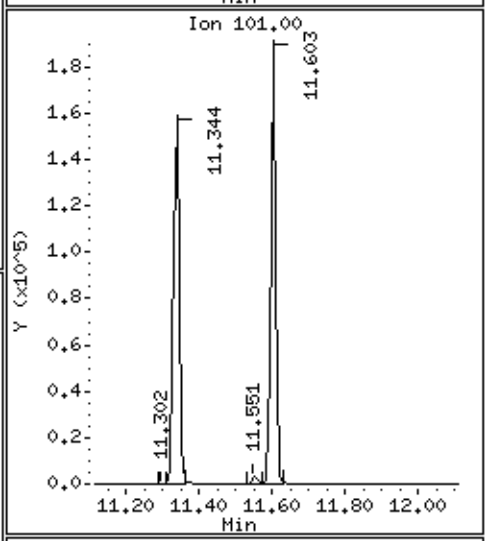


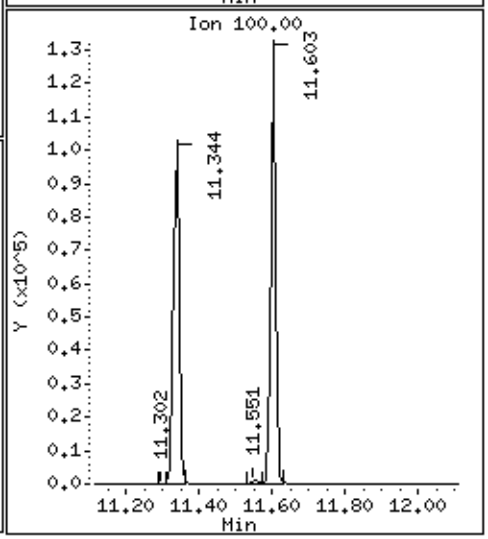












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

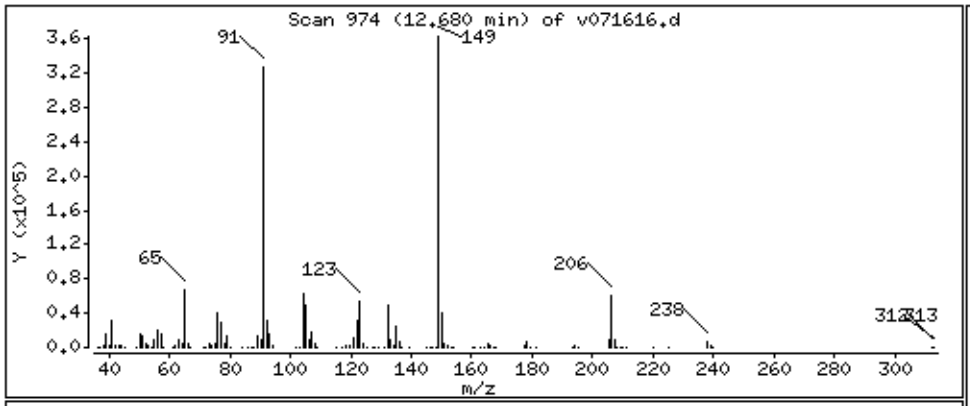
Operator: rn

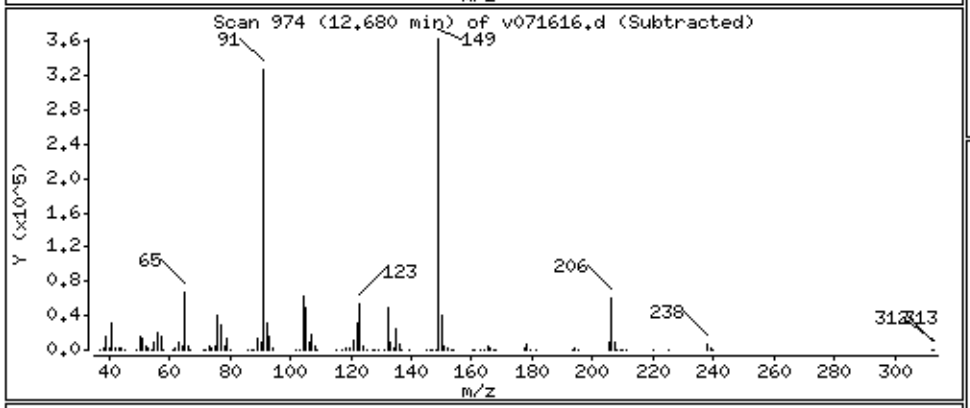
Column phase: DB-5.625

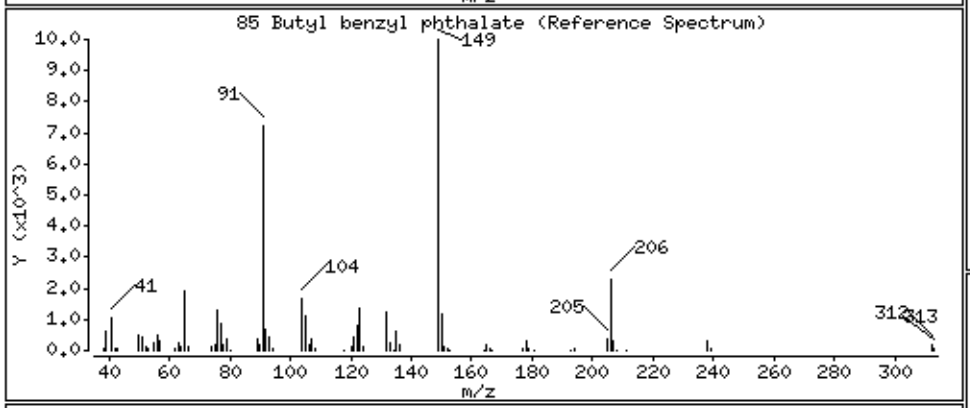
Column diameter: 0.25

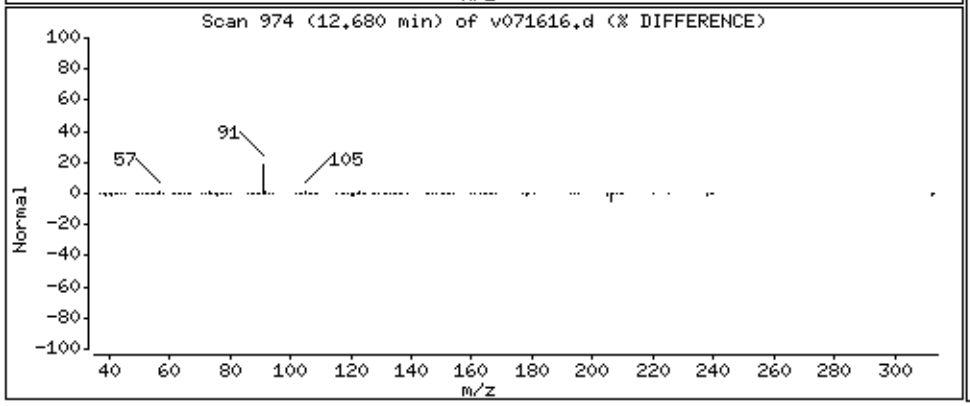
85 Butyl benzyl phthalate

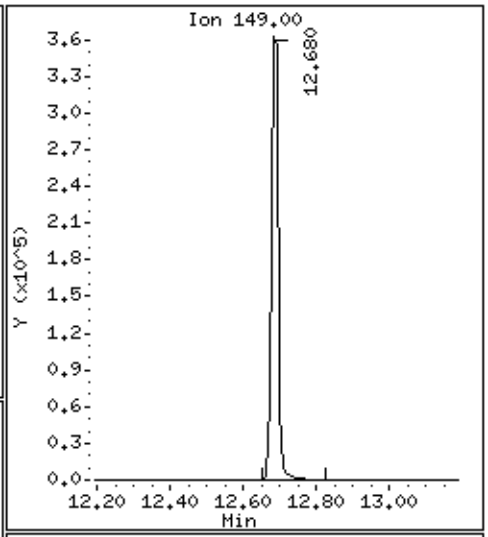
Concentration: 57.35 ug

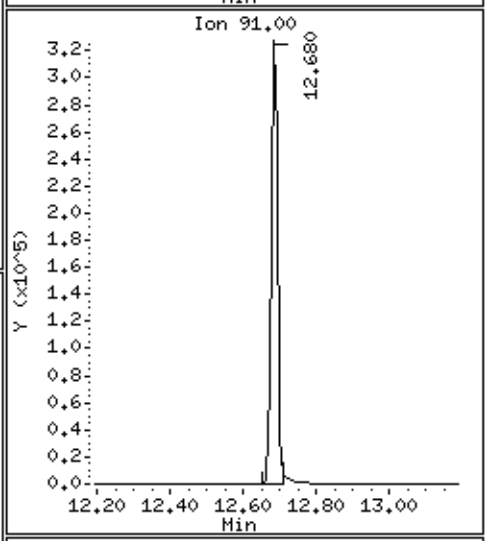


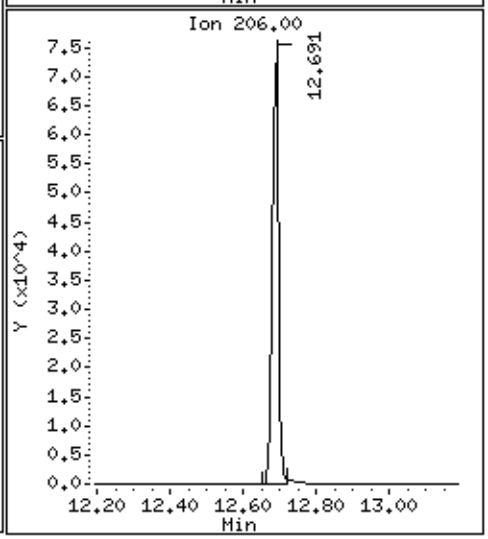












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

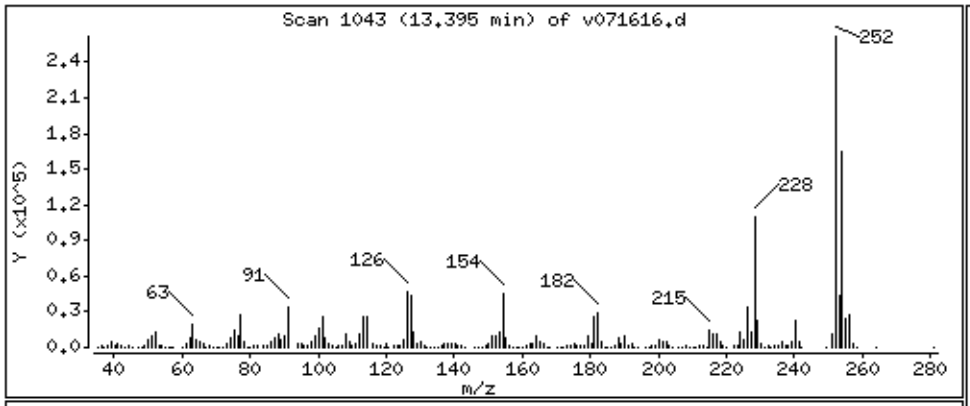
Operator: rn

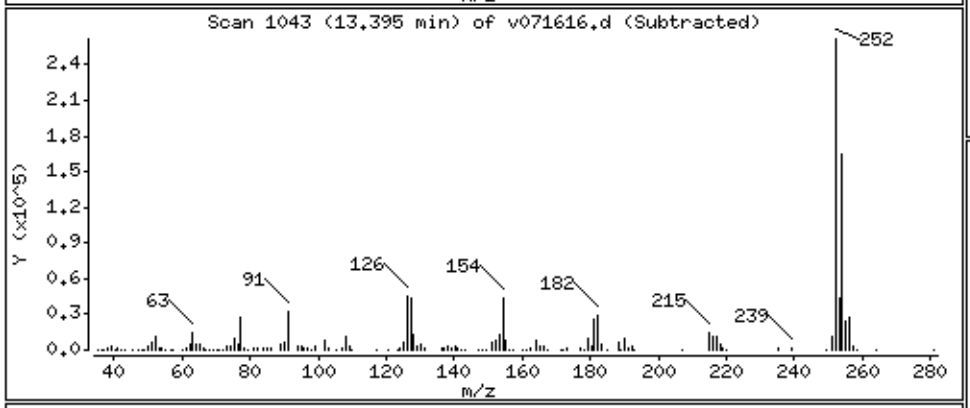
Column phase: DB-5.625

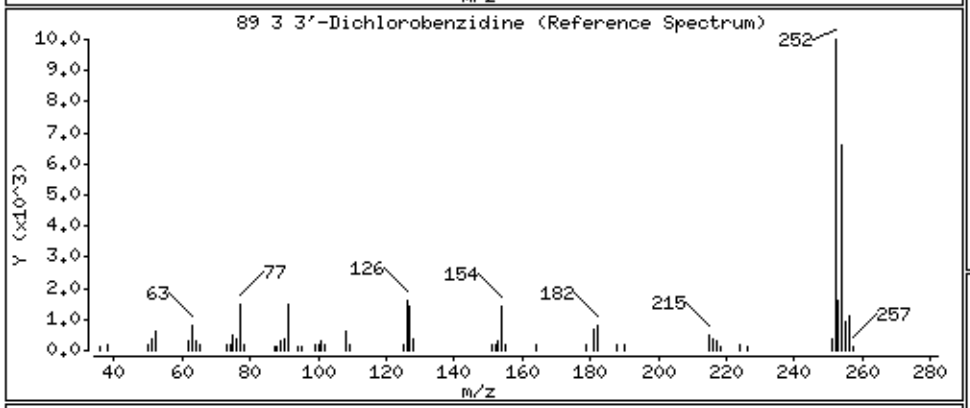
Column diameter: 0.25

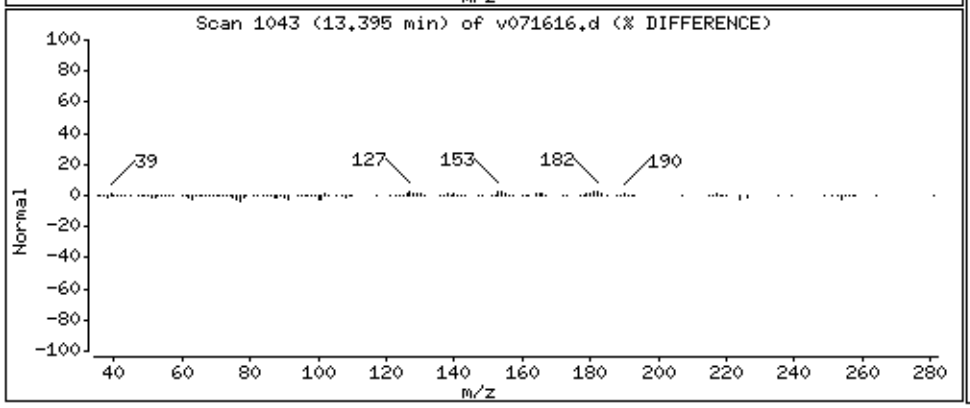
89 3 3'-Dichlorobenzidine

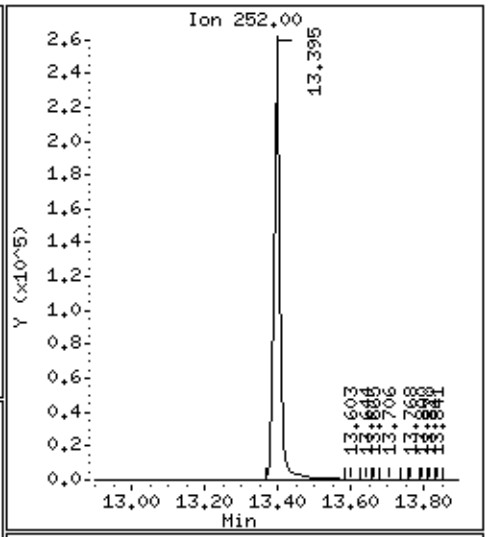
Concentration: 53.66 ug

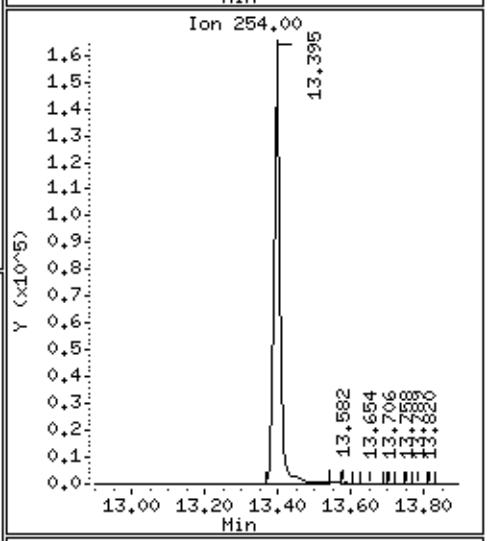


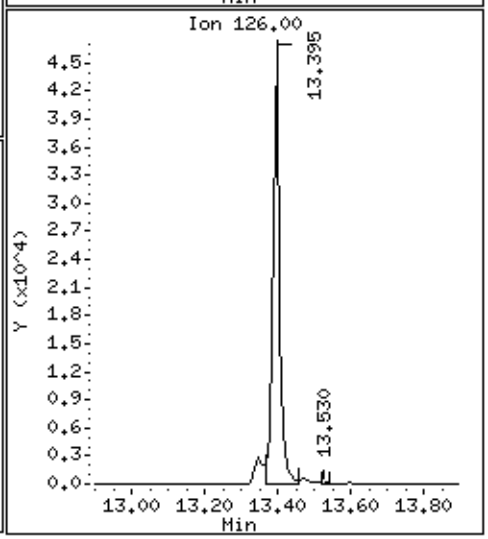












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

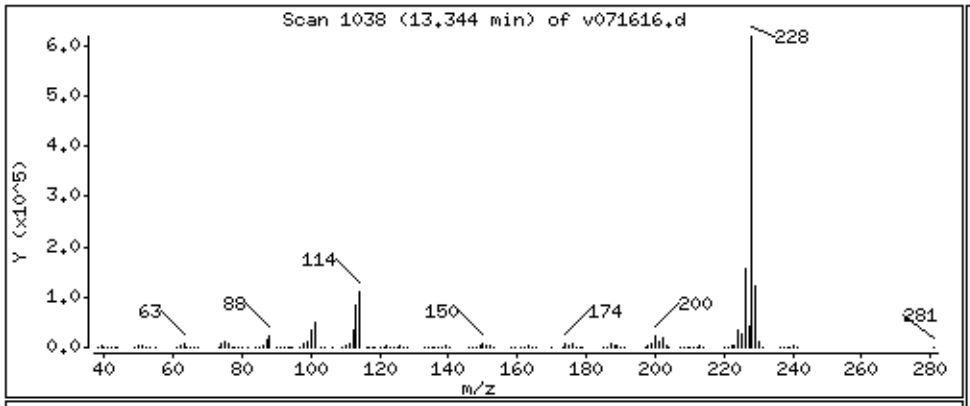
Operator: rn

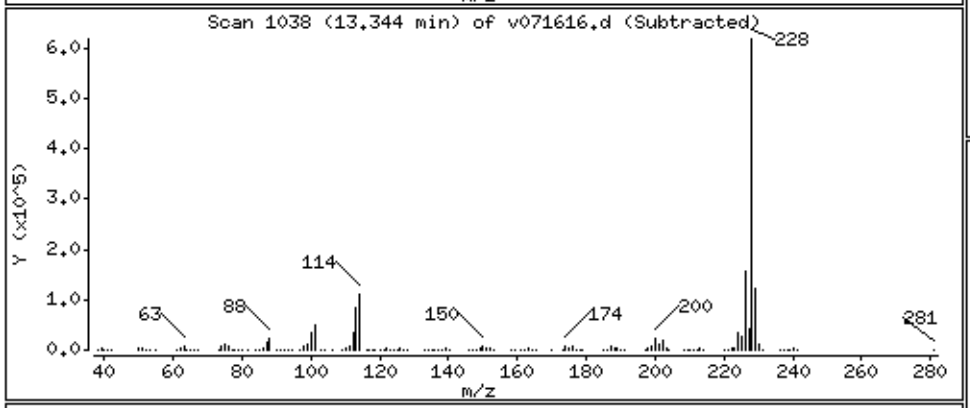
Column phase: DB-5.625

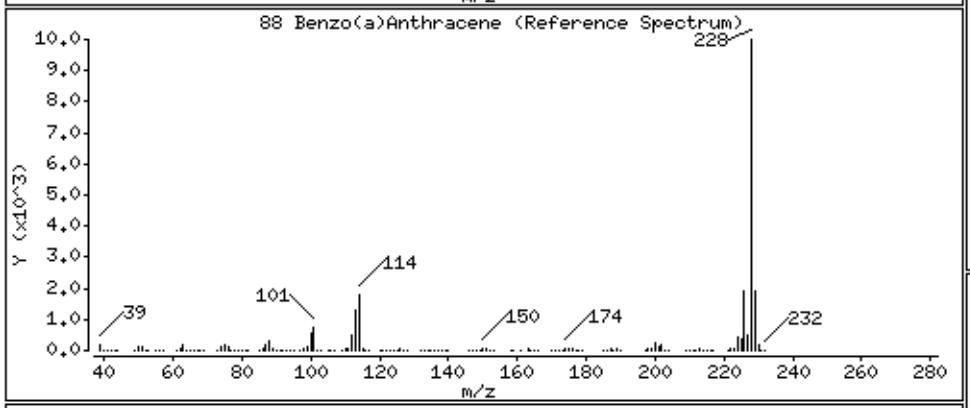
Column diameter: 0.25

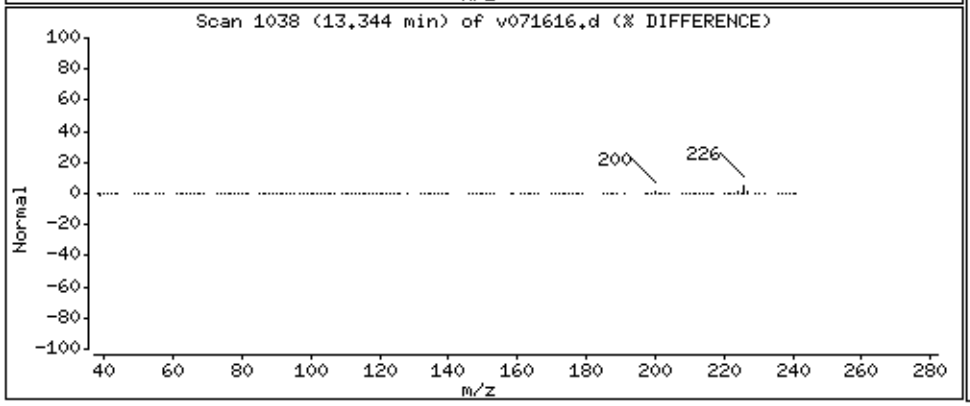
88 Benzo(a)Anthracene

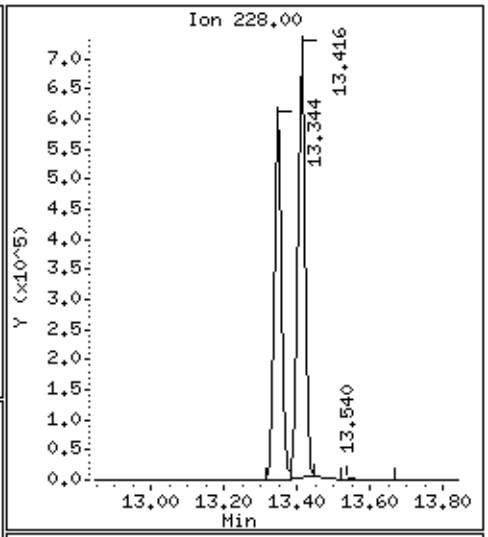
Concentration: 51.17 ug

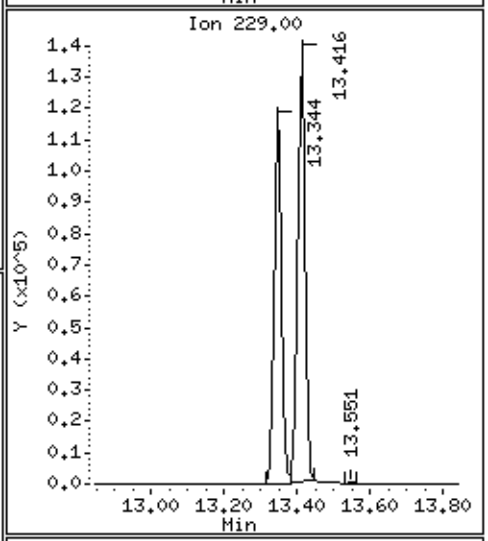


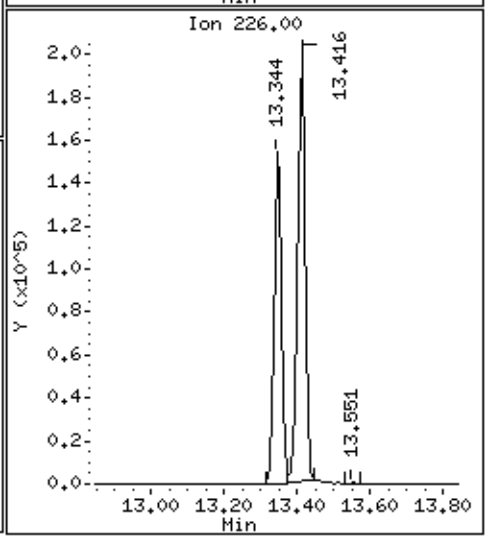












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

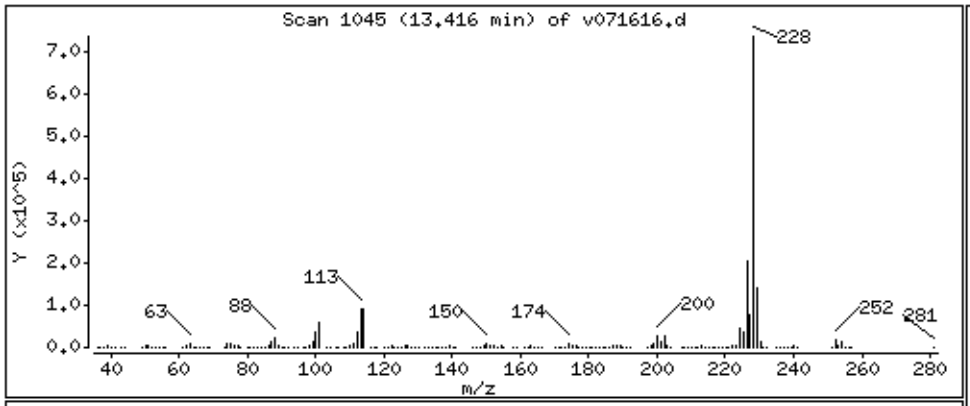
Operator: rn

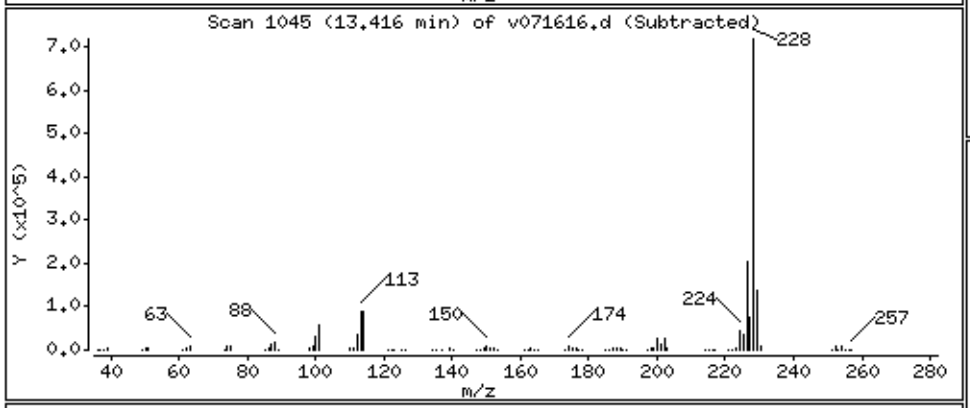
Column phase: DB-5.625

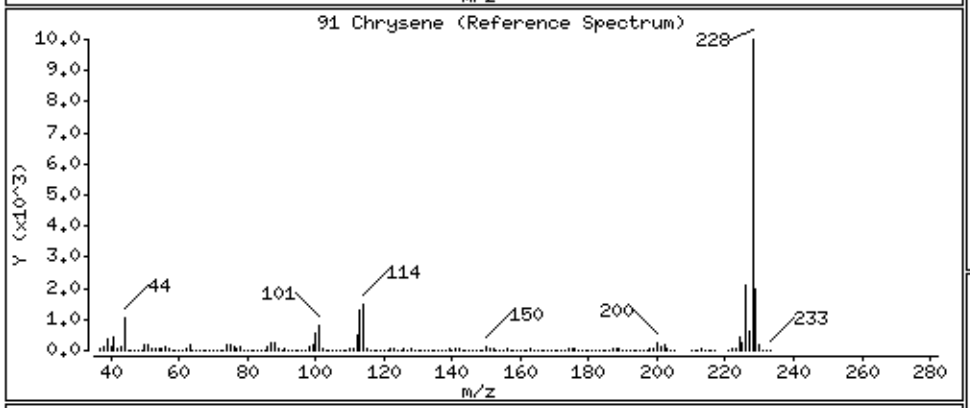
Column diameter: 0.25

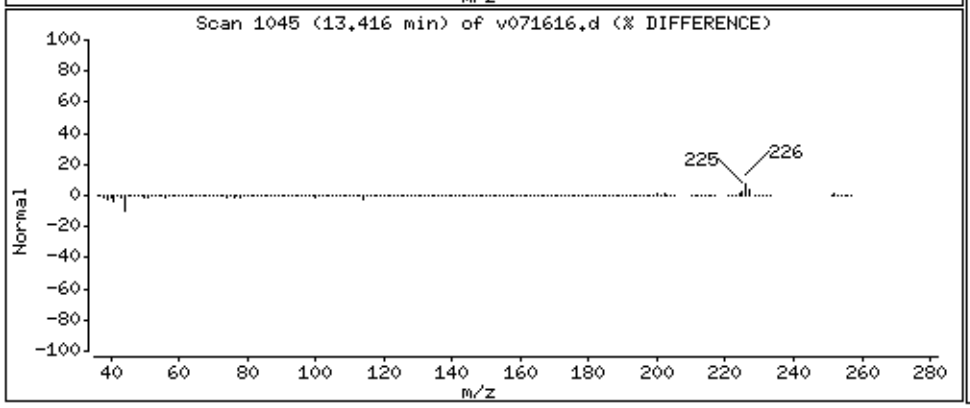
91 Chrysene

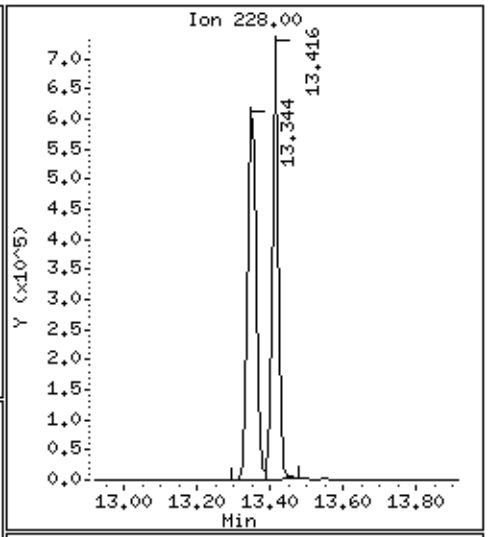
Concentration: 46.53 ug

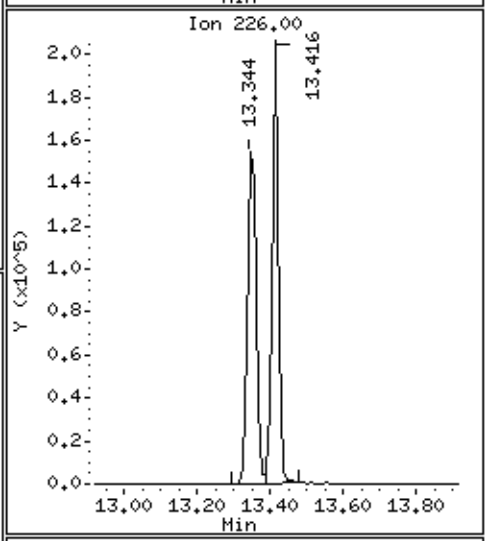


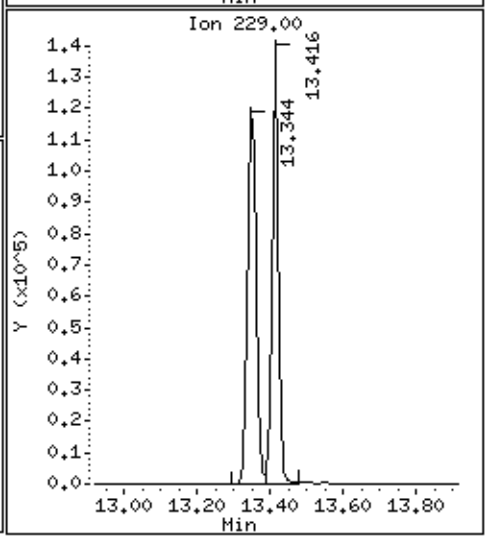












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

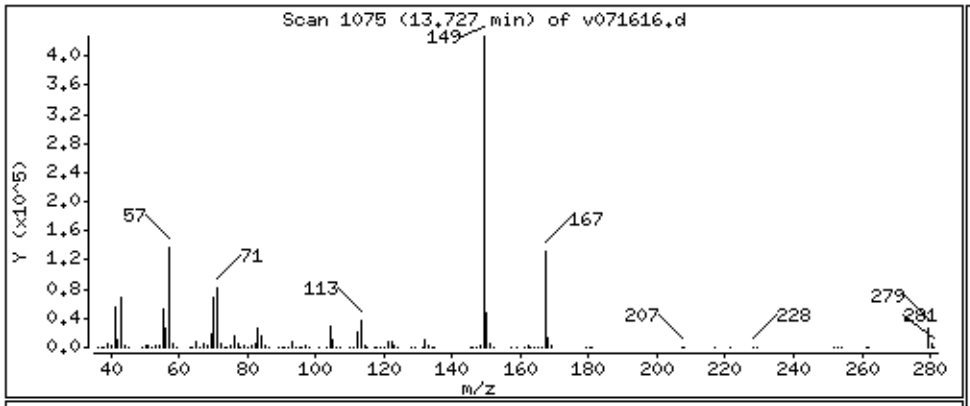
Operator: rn

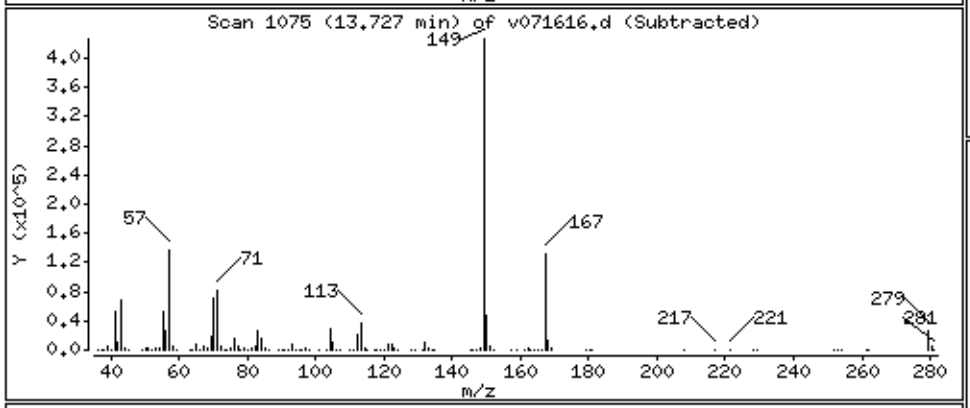
Column phase: DB-5.625

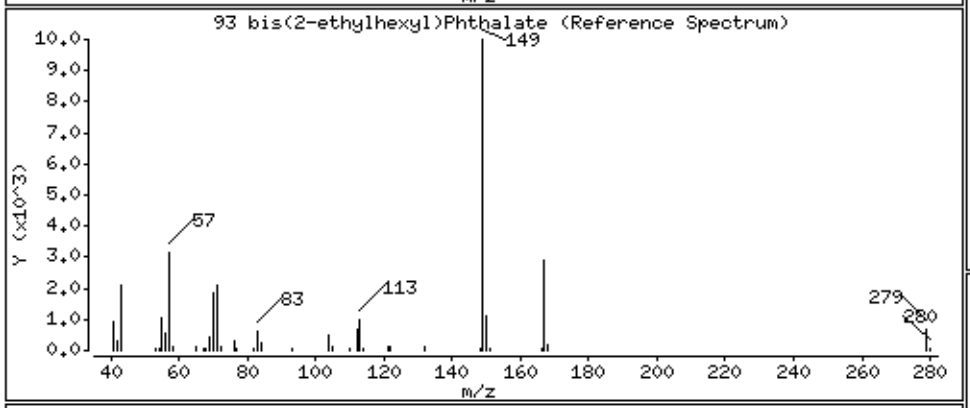
Column diameter: 0.25

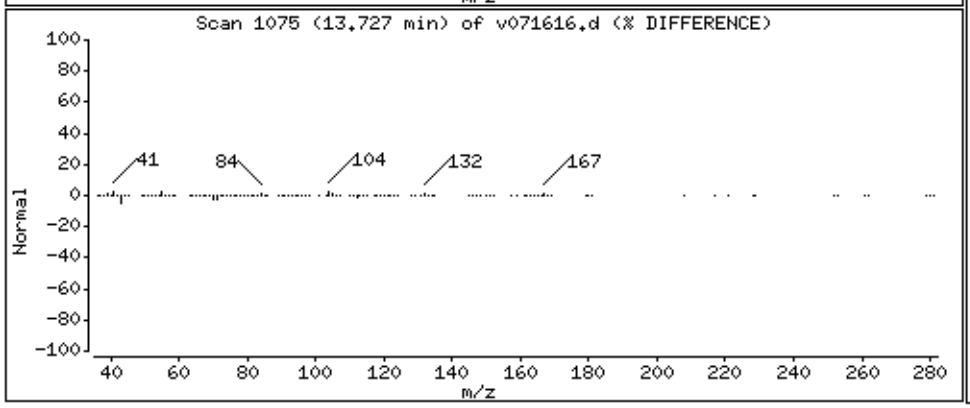
93 bis(2-ethylhexyl)Phthalate

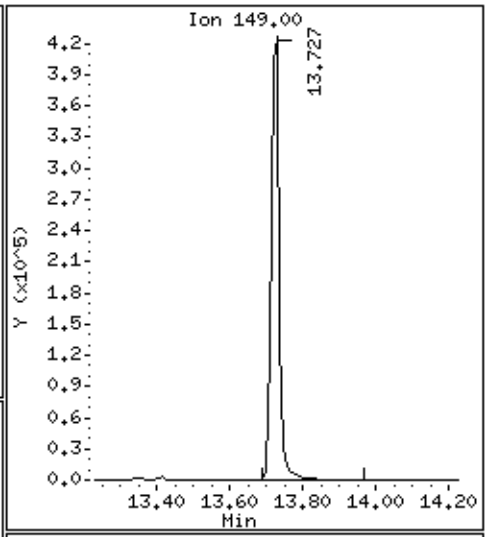
Concentration: 55.65 ug

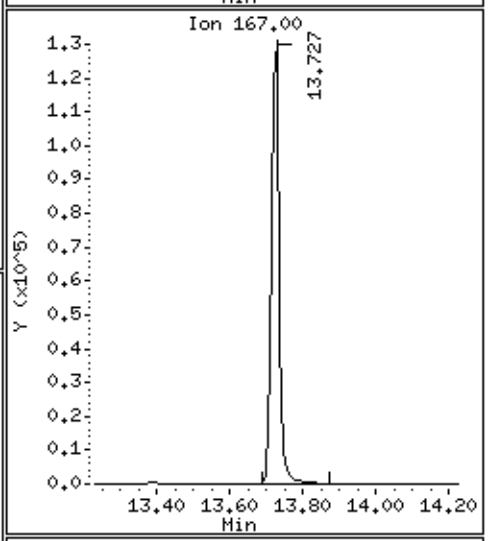


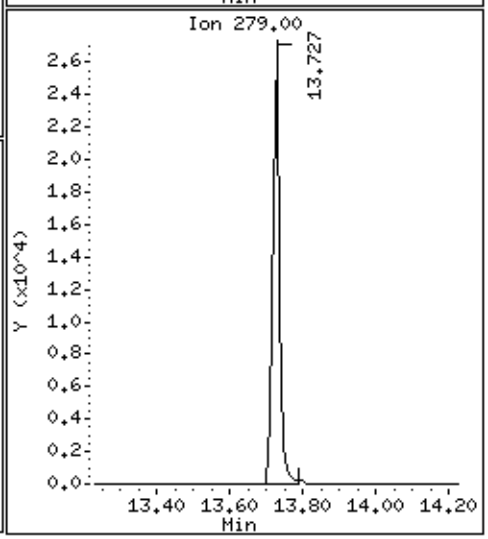












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

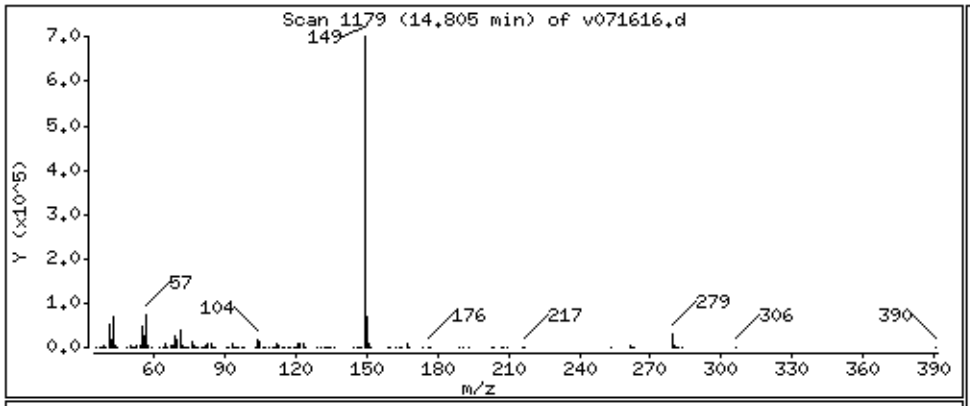
Operator: rn

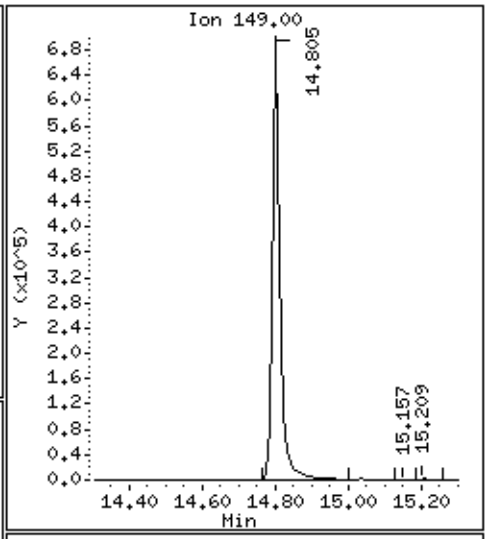
Column phase: DB-5.625

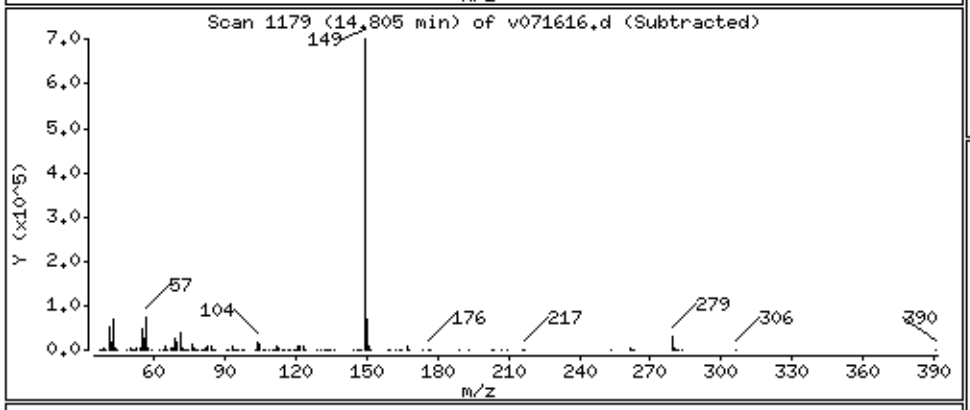
Column diameter: 0.25

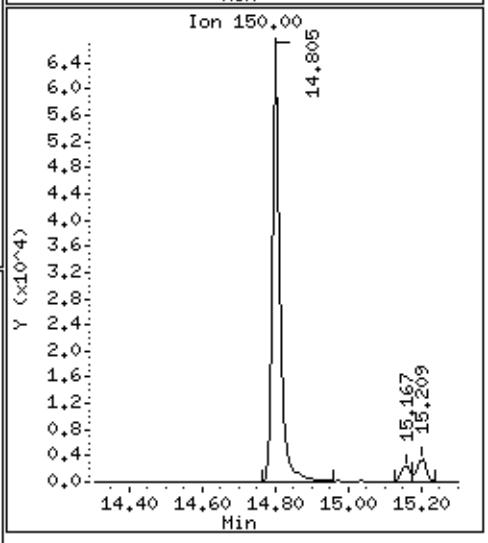
94 Di-n-octyl phthalate*

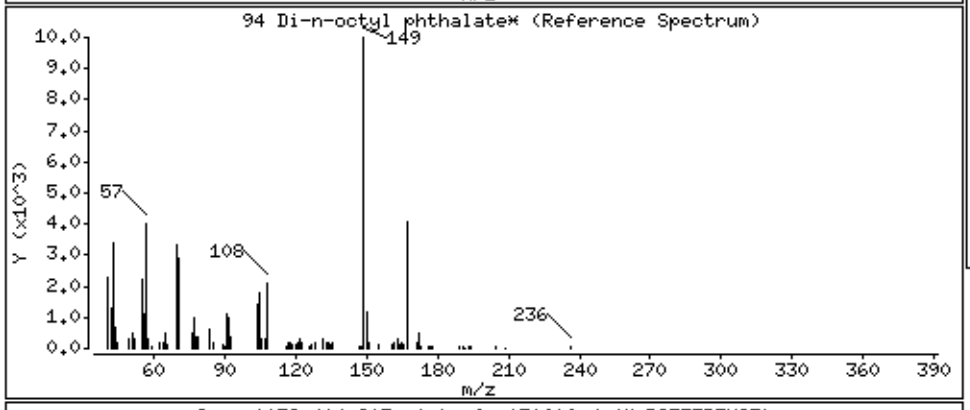
Concentration: 58.94 ug

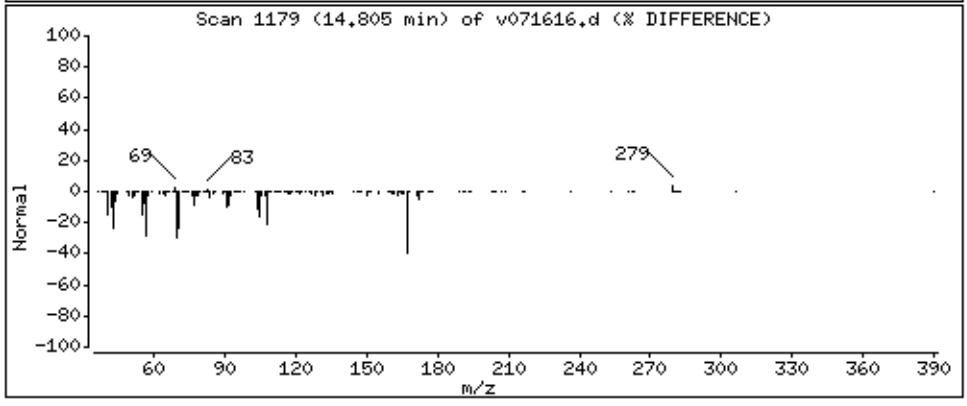












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

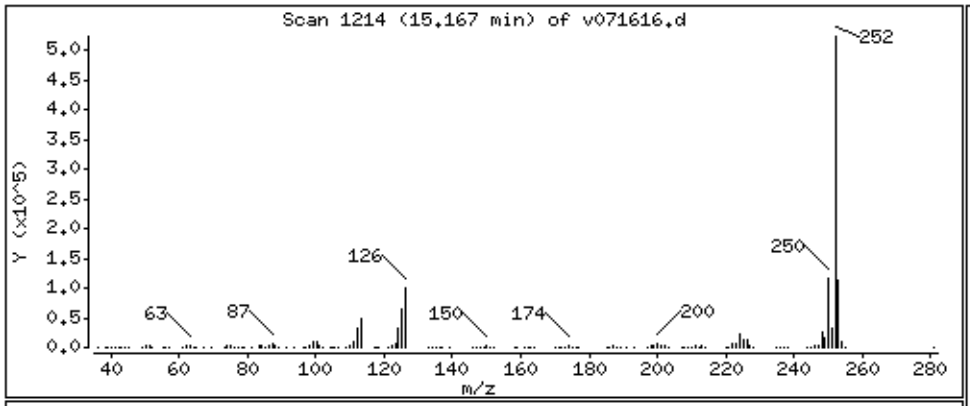
Operator: rn

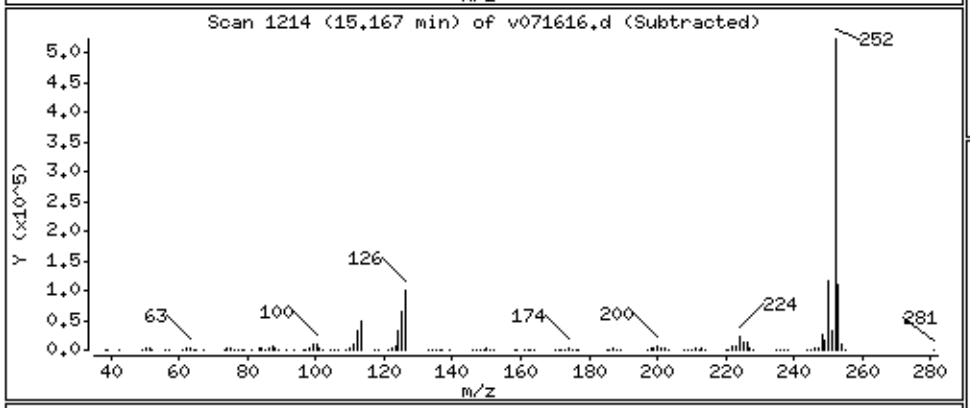
Column phase: DB-5.625

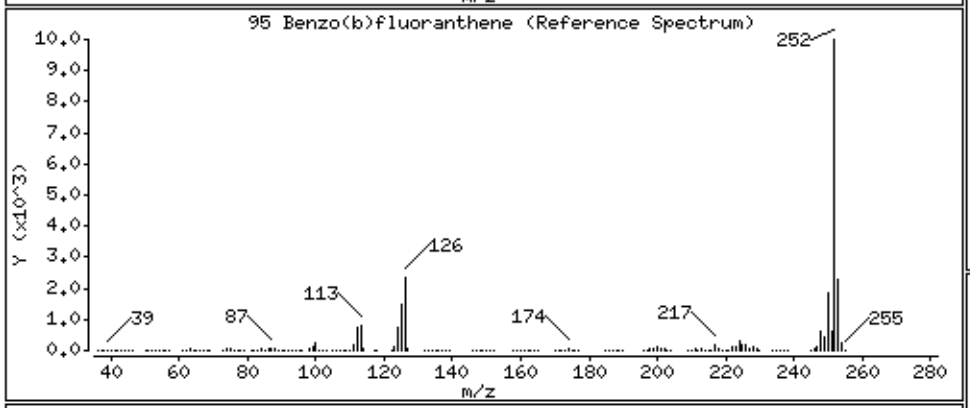
Column diameter: 0.25

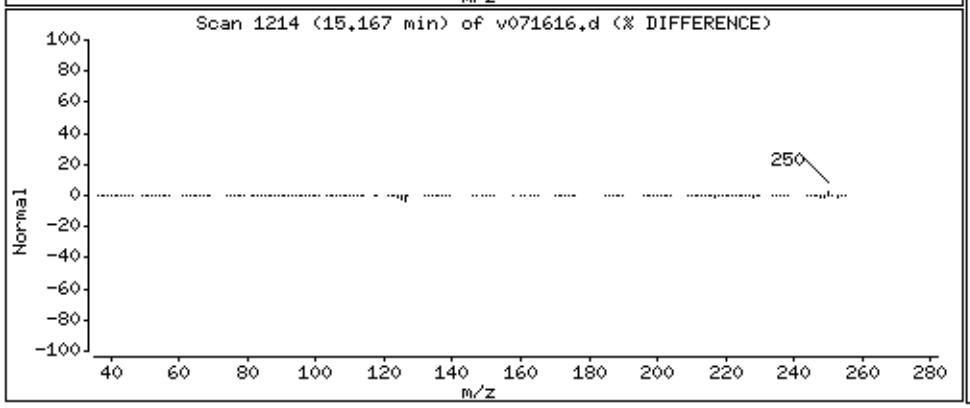
95 Benzo(b)fluoranthene

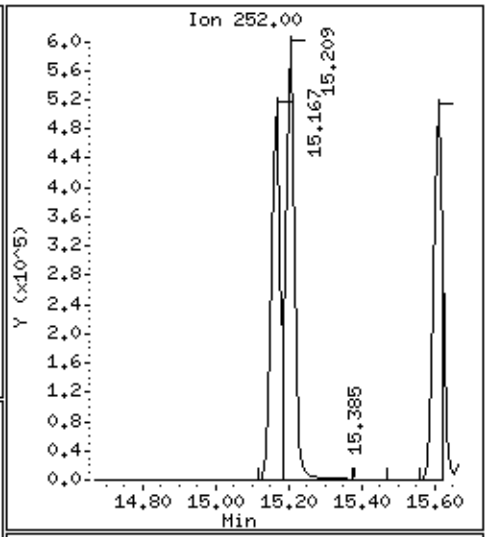
Concentration: 55.51 ug

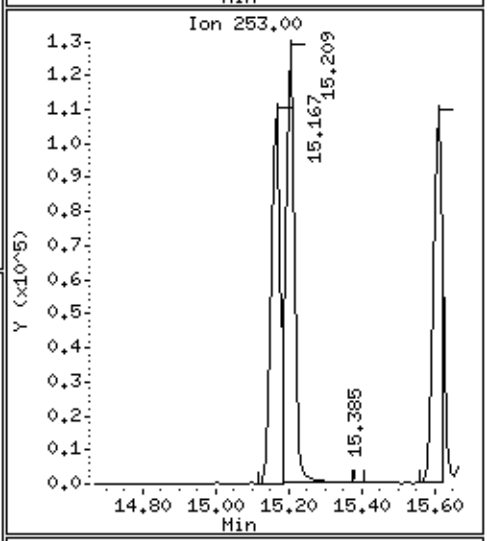


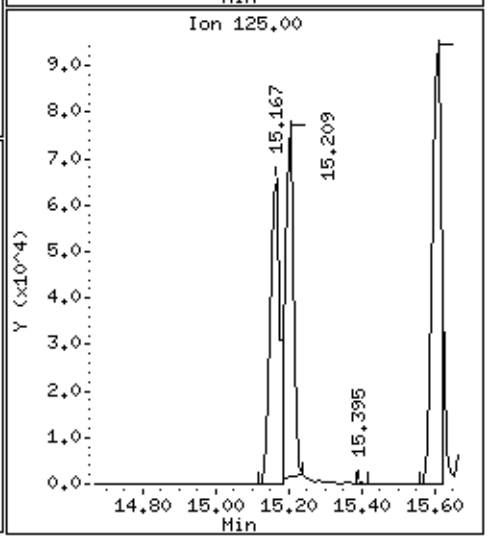












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

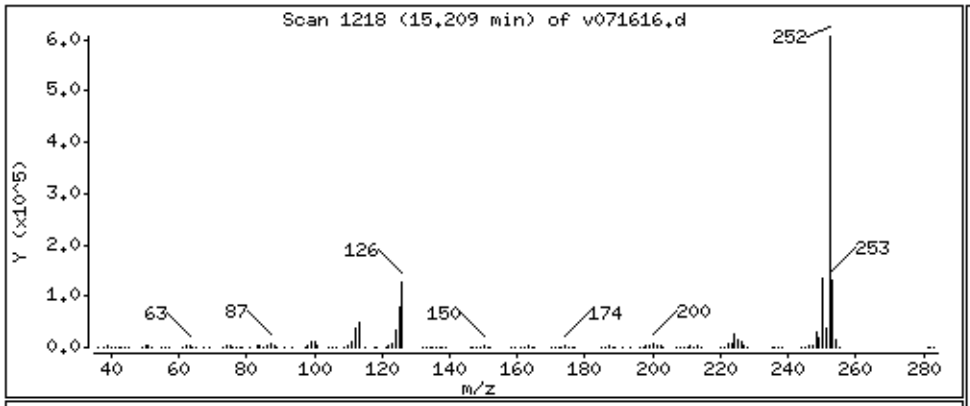
Operator: rn

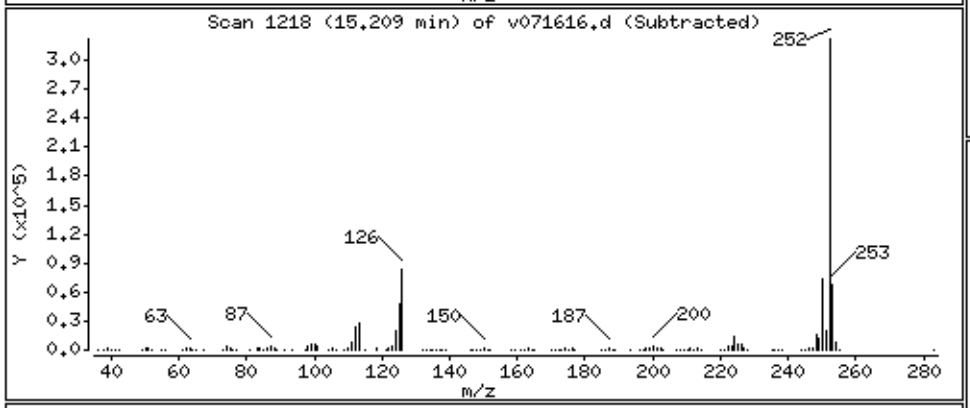
Column phase: DB-5.625

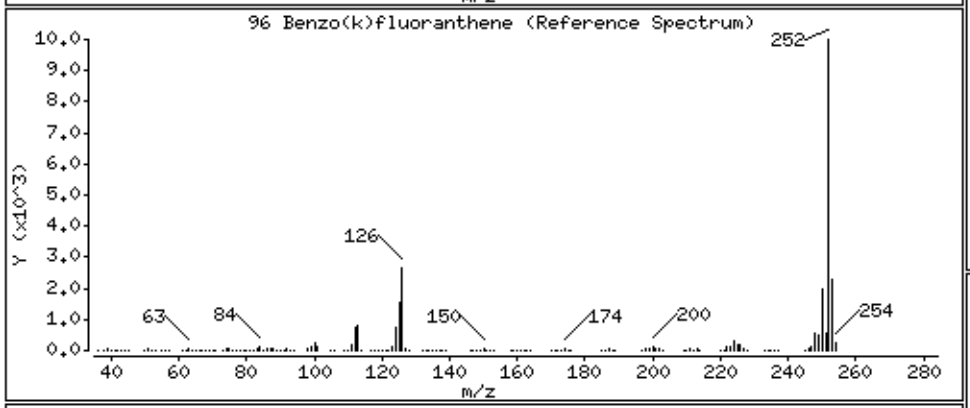
Column diameter: 0.25

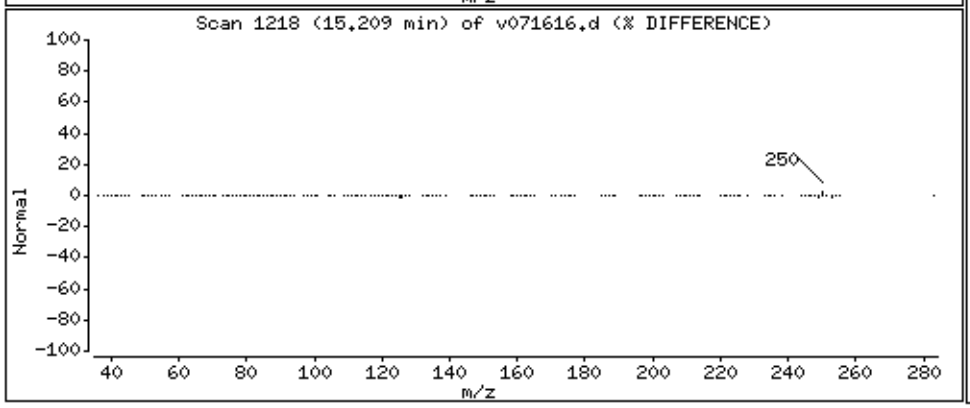
96 Benzo(k)fluoranthene

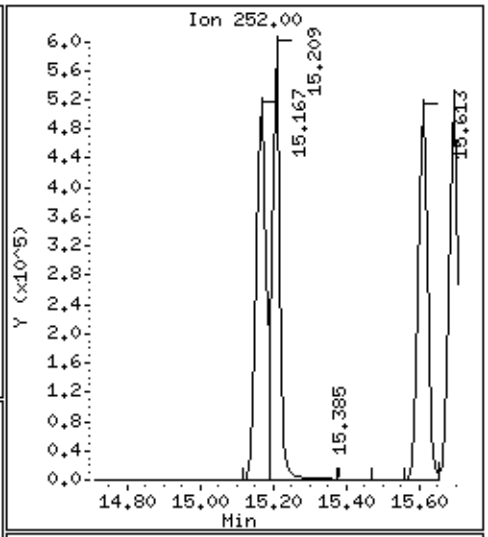
Concentration: 49.84 ug

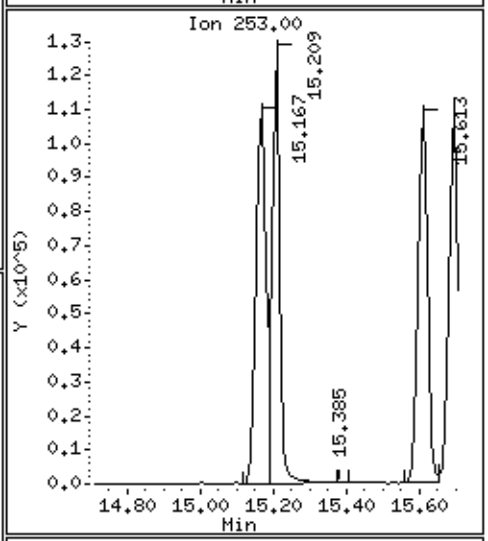


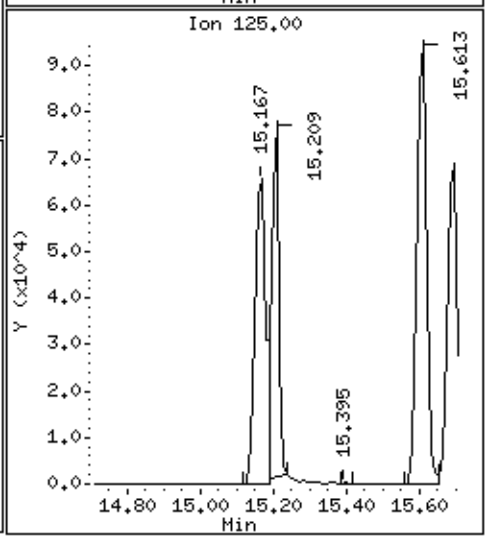












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

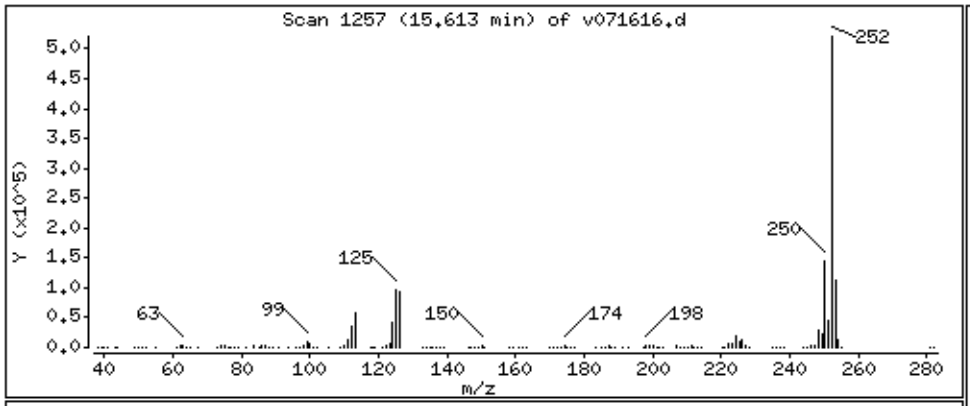
Operator: rn

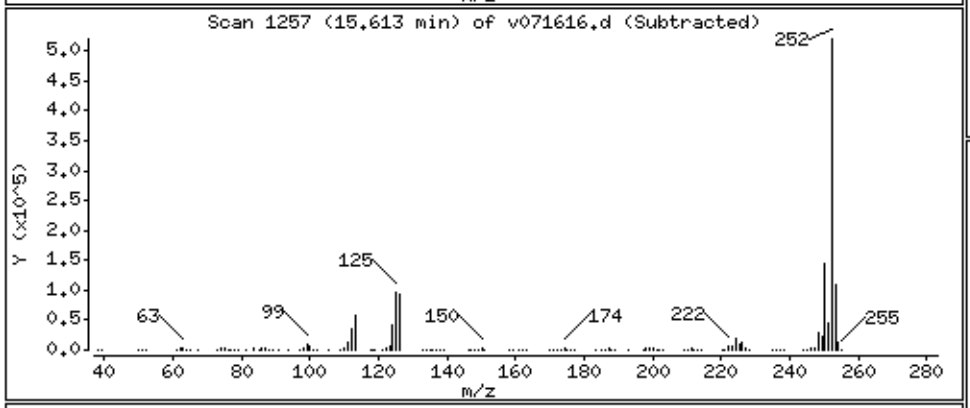
Column phase: DB-5.625

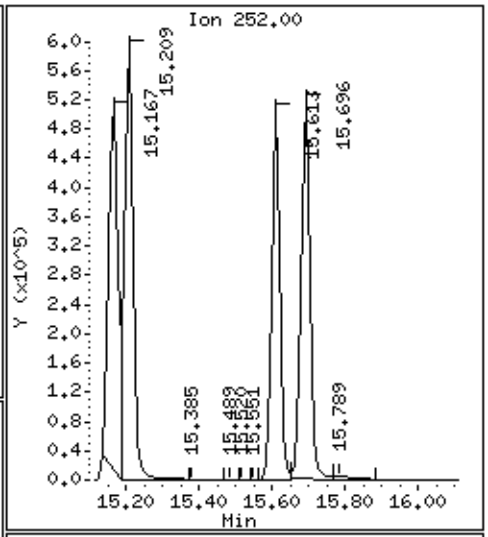
Column diameter: 0.25

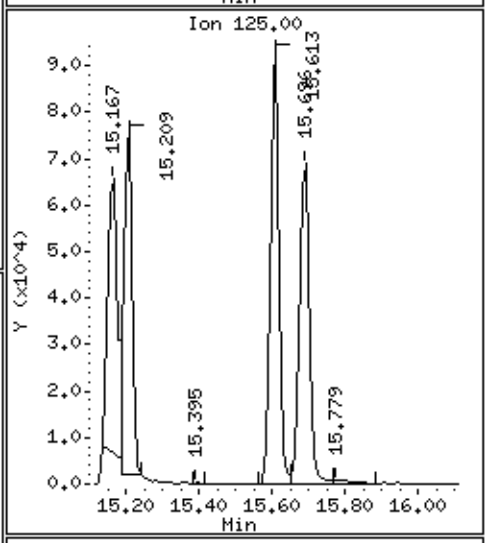
97 Benzo(e)pyrene

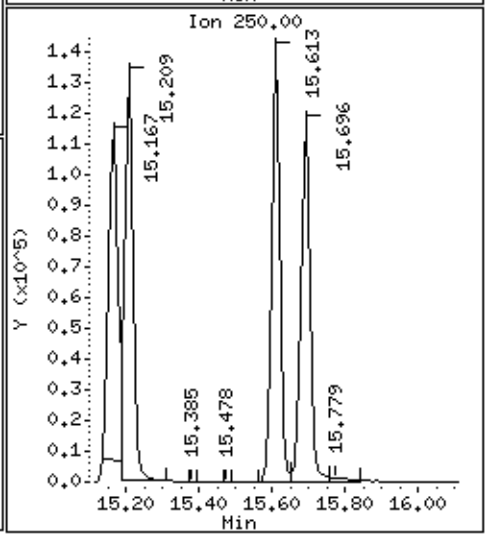
Concentration: 54.73 ug











Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

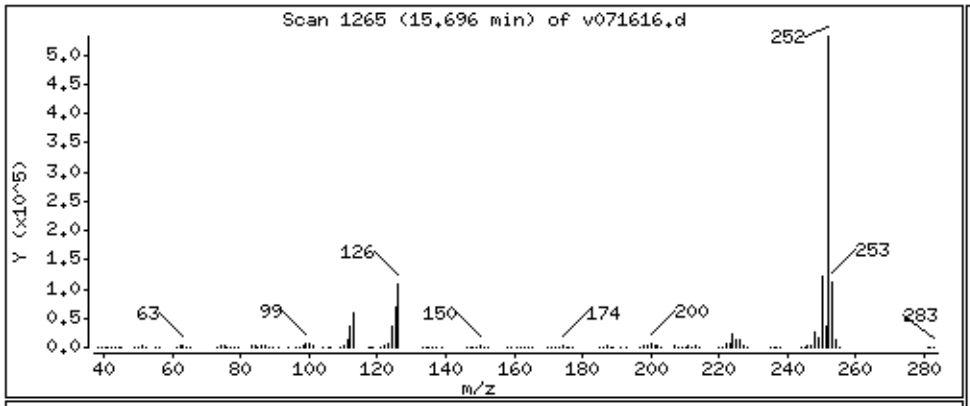
Operator: rn

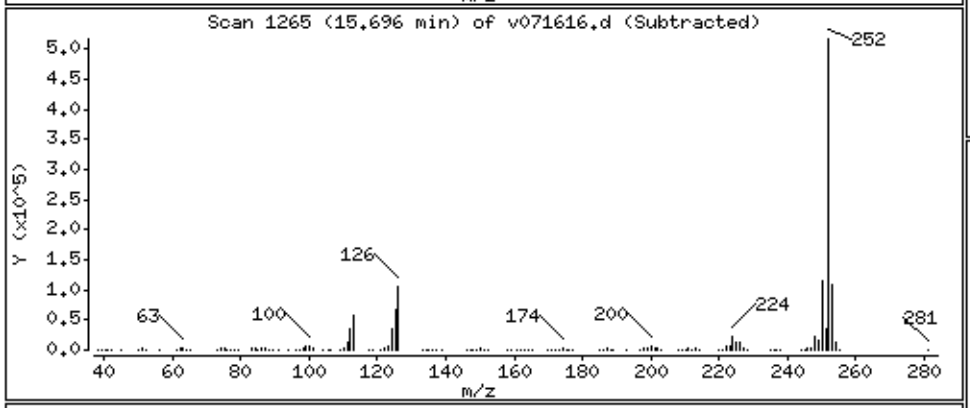
Column phase: DB-5.625

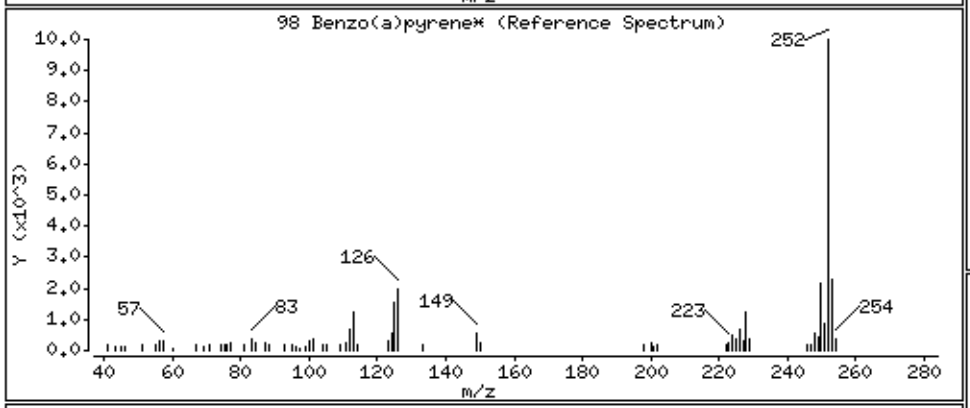
Column diameter: 0.25

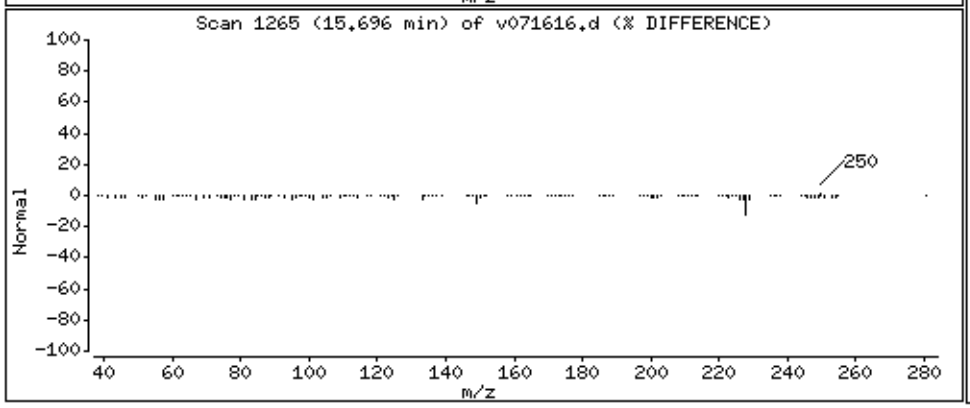
98 Benzo(a)pyrene*

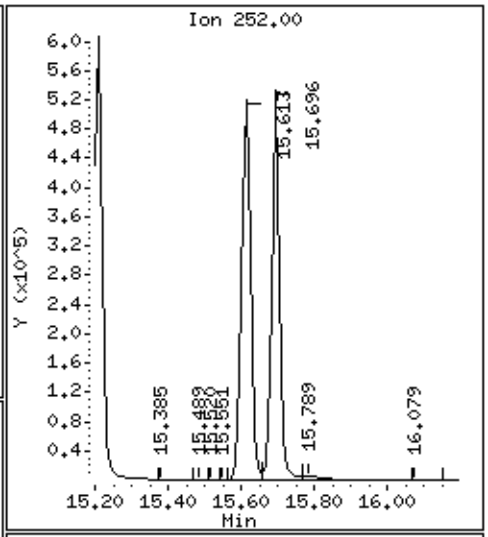
Concentration: 48.96 ug

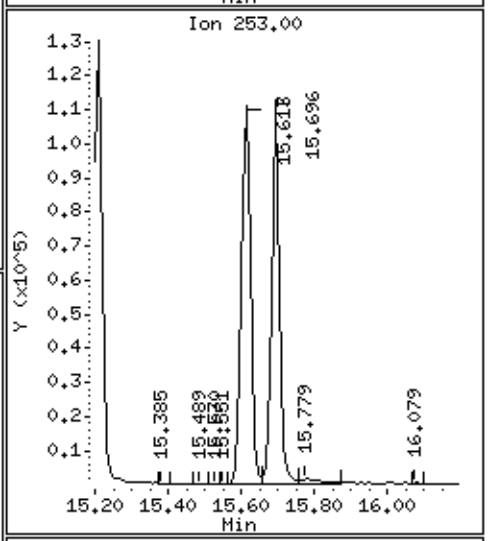


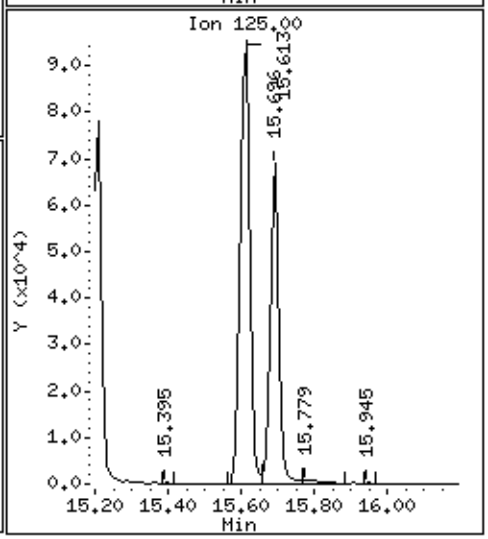












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

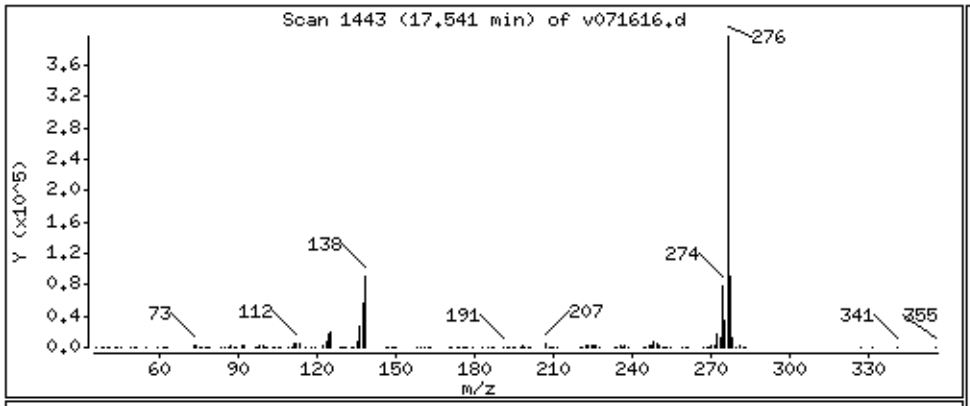
Operator: rn

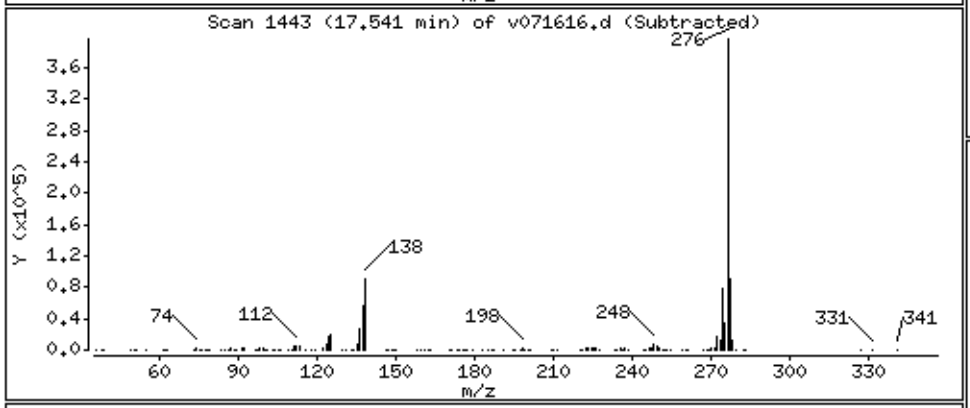
Column phase: DB-5.625

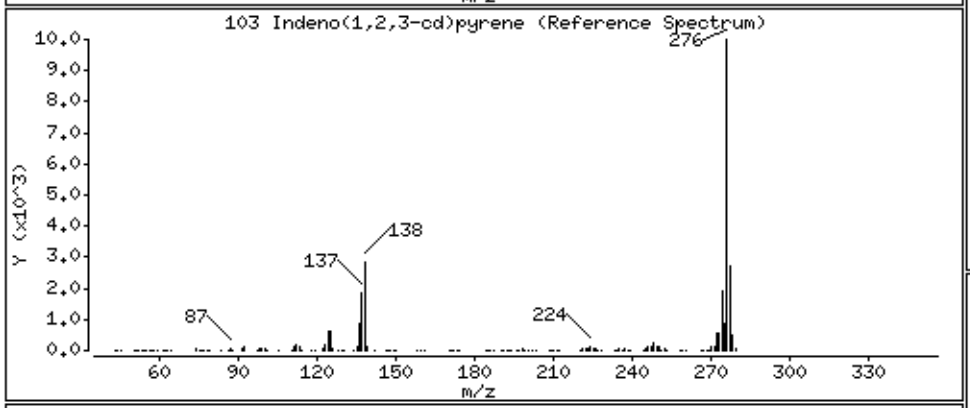
Column diameter: 0.25

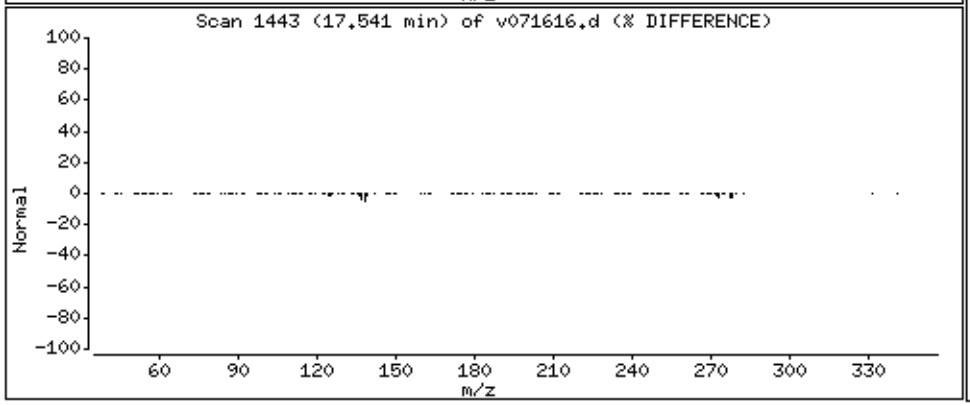
103 Indeno(1,2,3-cd)pyrene

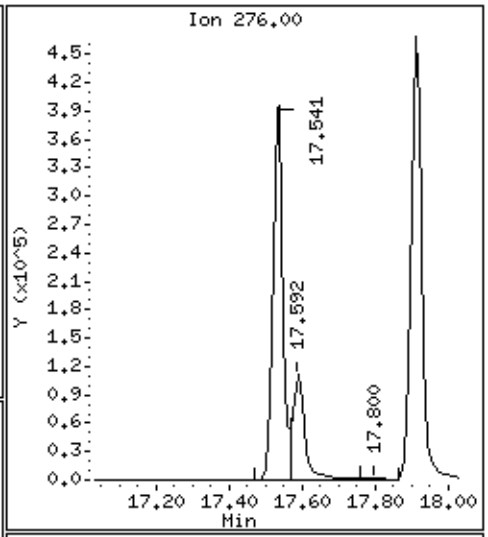
Concentration: 56.29 ug

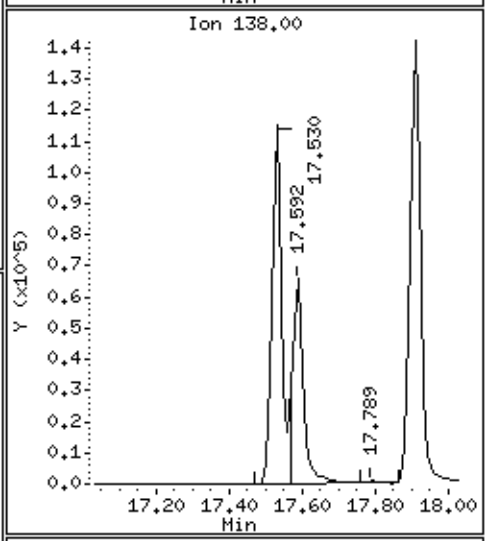


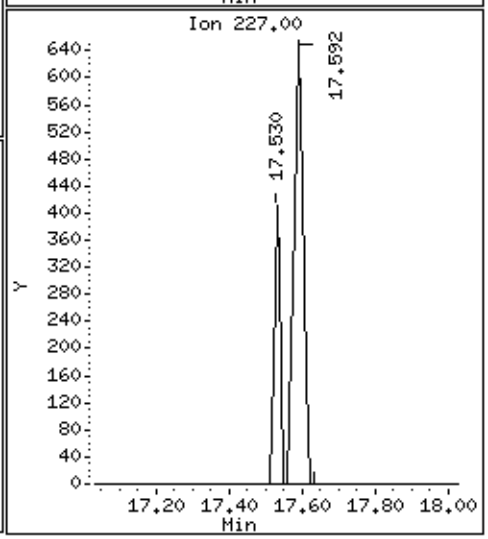












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

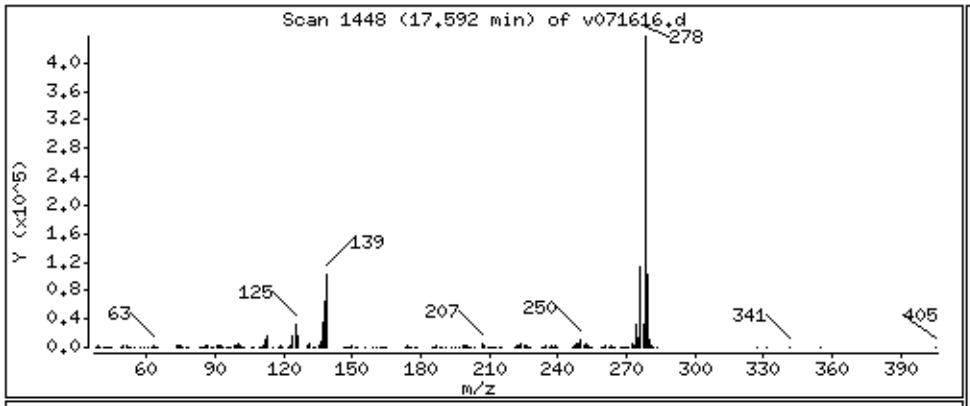
Operator: rn

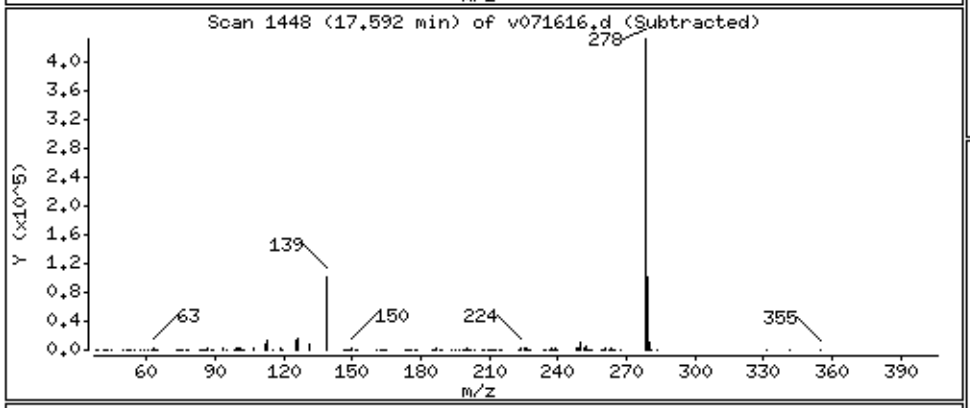
Column phase: DB-5.625

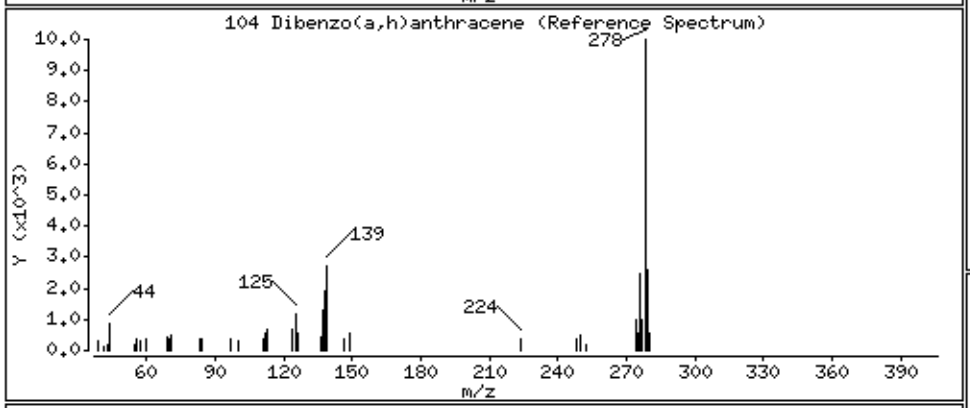
Column diameter: 0.25

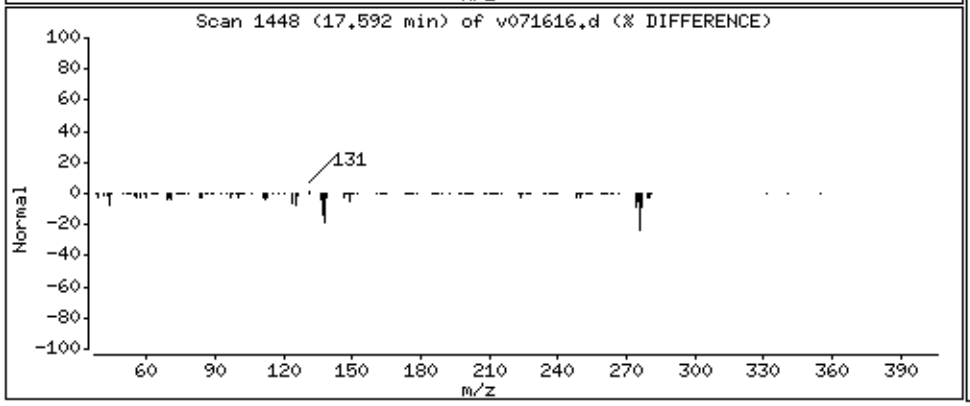
104 Dibenzo(a,h)anthracene

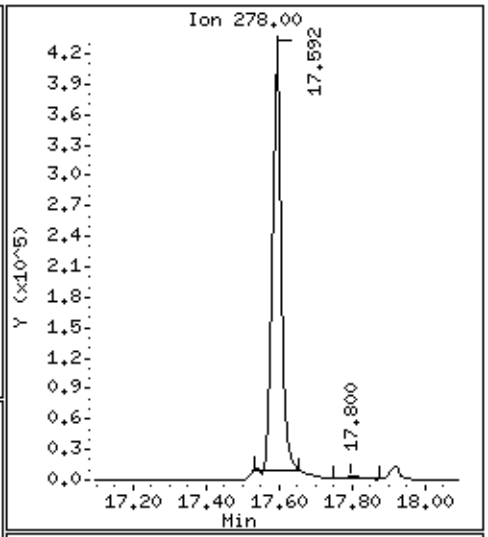
Concentration: 49.82 ug

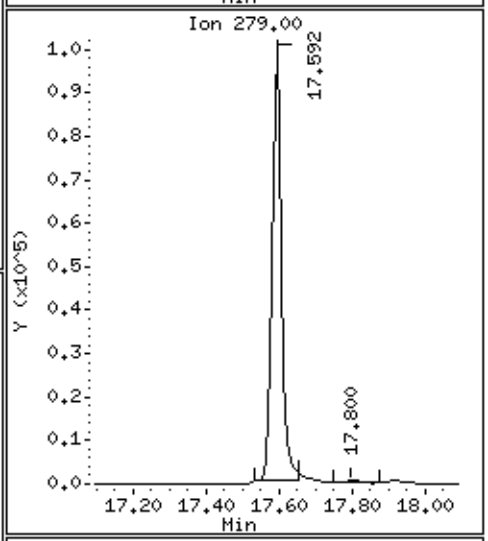


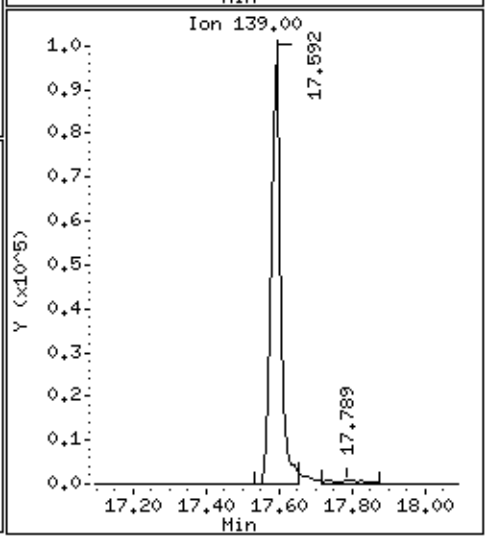












Data File: /chem/msdv.i/16jul09a.b/v071616.d

Date : 16-JUL-2009 19:14

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

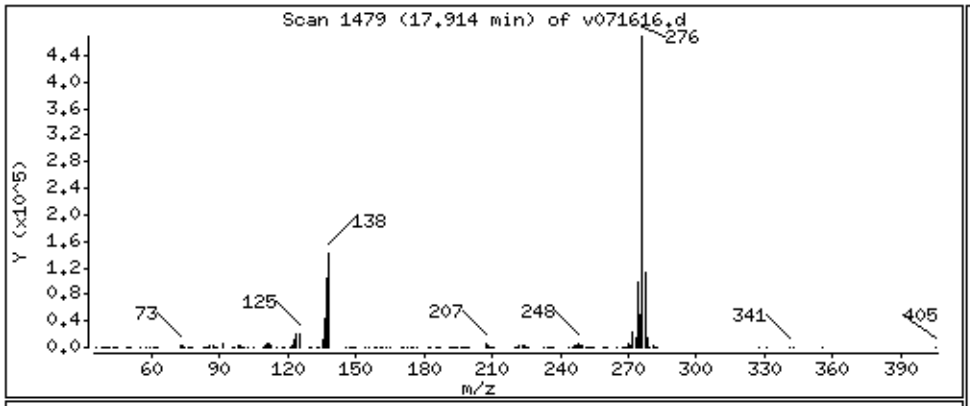
Operator: rn

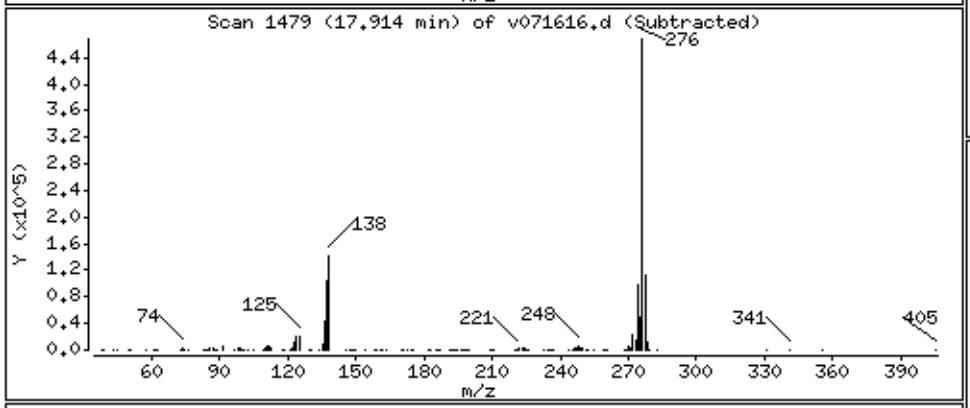
Column phase: DB-5.625

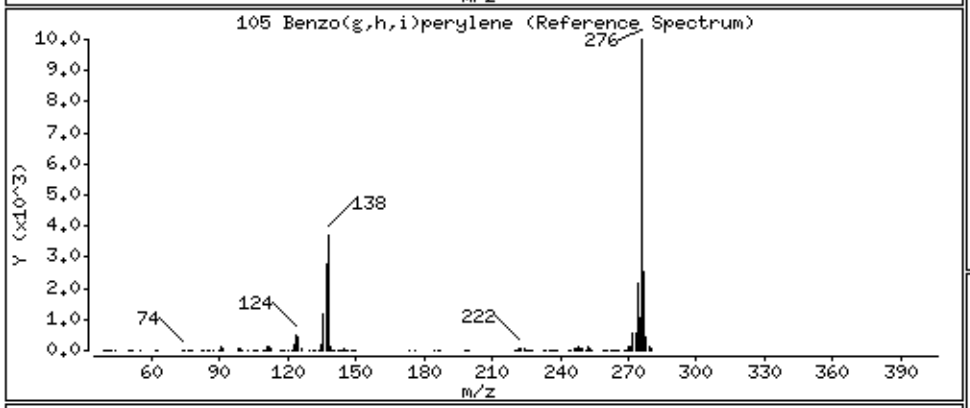
Column diameter: 0.25

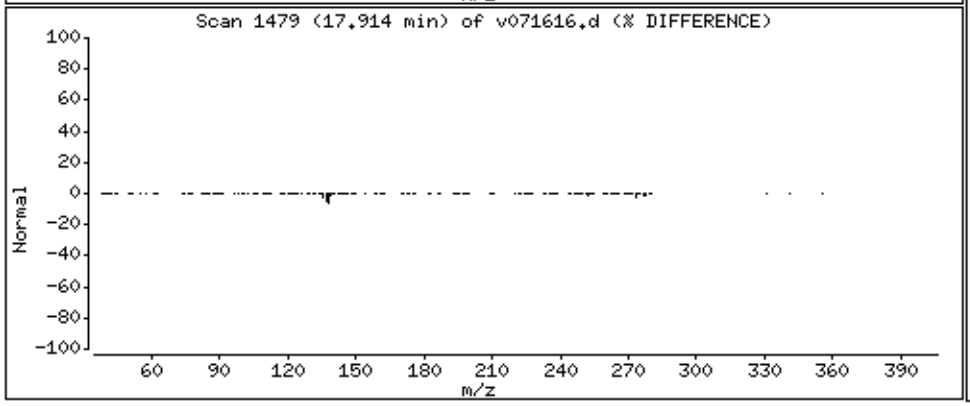
105 Benzo(g,h,i)perylene

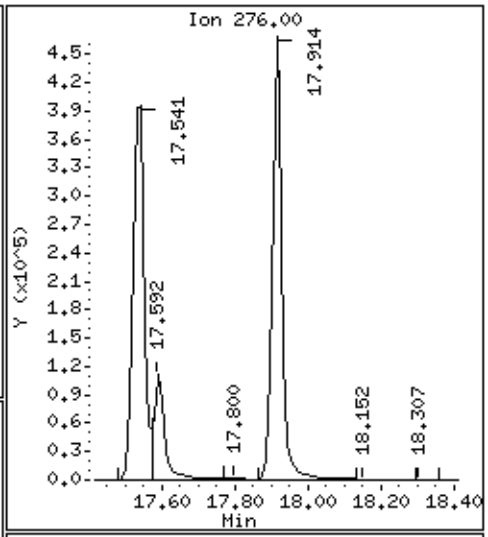
Concentration: 53.16 ug

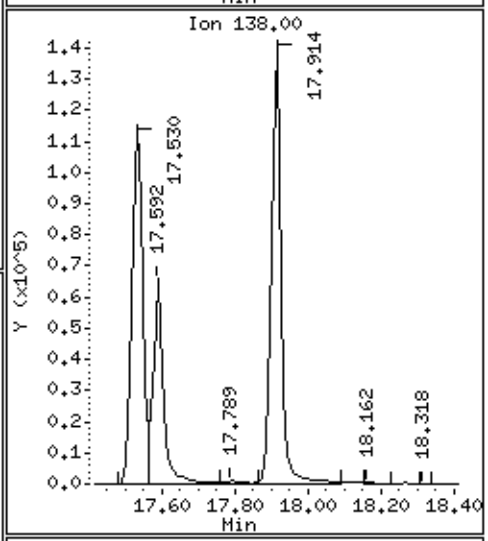


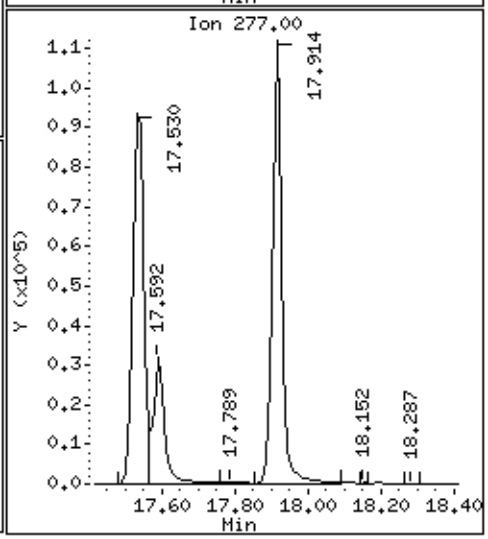












Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071607.d
Lab Smp Id: 1685-171-1 Client Smp ID: Level 1
Inj Date : 16-JUL-2009 15:05
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-1;Level 1
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:11 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 15:05 Cal File: v071607.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 Nitrobenzene-d5	82	5.012	5.022	(0.849)	7862	1.00000	1.000
$ 83 Fluoranthene-d10	212	11.323	11.323	(1.146)	14475	1.00000	1.000
$ 101 Benzo(a)pyrene-d12	264	15.644	15.665	(0.991)	6362	1.00000	1.000
$ 147 Fluorene-d10	176	8.732	8.742	(1.075)	11979	1.00000	1.000
$ 148 Pyrene-d10	212	11.582	11.592	(0.867)	14451	1.00000	1.000
* 7 1,4-Dichlorobenzene-d4	150	4.245	4.255	(1.000)	310322	40.0000	
* 27 Naphthalene-d8	136	5.903	5.913	(1.000)	832434	40.0000	
* 47 Acenaphthene-d10	164	8.121	8.121	(1.000)	398921	40.0000	
* 71 Phenanthrene-d10	188	9.882	9.893	(1.000)	721242	40.0000	
* 90 Chrysene-d12	240	13.364	13.375	(1.000)	608799	40.0000	
* 99 Perylene-d12	264	15.789	15.800	(1.000)	435311	40.0000	
4 bis(2-Chloroethyl)ether	93	3.986	3.996	(0.939)	9821	1.00000	1.000
41 Aniline	93	3.893	3.903	(0.917)	13999	1.00000	1.000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
6	1,3-Dichlorobenzene	146	4.204	4.203	(0.990)	9836	1.00000	1.000
9	1,4-Dichlorobenzene*	146	4.266	4.276	(1.005)	10287	1.00000	1.000
10	Benzyl Alcohol	108	4.494	4.494	(1.059)	4414	1.00000	1.000
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	9605	1.00000	1.000
13	bis(2-Chloroisopropyl)ether	45	4.701	4.711	(1.107)	17414	1.00000	1.000
15	N-Nitrosodipropylamine**	70	4.887	4.887	(1.151)	6198	1.00000	1.000
16	Hexachloroethane	117	4.908	4.908	(1.156)	4237	1.00000	1.000
18	Nitrobenzene	77	5.033	5.043	(0.853)	9206	1.00000	1.000
19	Isophorone	82	5.354	5.354	(0.907)	16168	1.00000	1.000
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.965)	11055	1.00000	1.000
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	7862	1.00000	1.000
28	Naphthalene	128	5.934	5.934	(1.005)	28678	1.00000	1.000
30	Hexachlorobutadiene*	225	6.204	6.203	(1.051)	3892	1.00000	1.000
33	2-Methylnaphthalene	142	6.815	6.815	(1.154)	15521	1.00000	1.000
145	1-Methylnaphthalene	142	6.950	6.950	(1.177)	16628	1.00000	1.000
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	13924	1.00000	1.000
45	Acenaphthylene	152	7.924	7.934	(0.976)	20744	1.00000	1.000
48	Acenaphthene*	154	8.152	8.162	(1.004)	14770	1.00000	1.000
51	Dibenzofuran	168	8.349	8.359	(1.028)	19178	1.00000	1.000
57	Fluorene	166	8.774	8.774	(1.080)	15553	1.00000	1.000
58	4-Chlorophenyl phenyl ether	204	8.805	8.815	(1.084)	7878	1.00000	1.000
65	4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	3554	1.00000	1.000
66	Hexachlorobenzene	284	9.530	9.530	(0.964)	4640	1.00000	1.000
144	Carbazole	167	10.193	10.193	(2.401)	16983	1.00000	1.000
72	Phenanthrene	178	9.914	9.913	(1.003)	24574	1.00000	1.000
73	Anthracene	178	9.965	9.965	(1.008)	20969	1.00000	1.000
80	Fluoranthene*	202	11.344	11.344	(1.148)	19814	1.00000	1.000
81	Pyrene	202	11.603	11.613	(0.868)	22134	1.00000	1.000
88	Benzo(a)Anthracene	228	13.344	13.354	(0.998)	16946	1.00000	1.000
91	Chrysene	228	13.406	13.416	(1.003)	29025	1.00000	1.000
95	Benzo(b)fluoranthene	252	15.157	15.168	(0.960)	12641	1.00000	1.000
96	Benzo(k)fluoranthene	252	15.199	15.209	(0.963)	16820	1.00000	1.000
97	Benzo(e)pyrene	252	15.603	15.613	(0.988)	13257	1.00000	1.000
98	Benzo(a)pyrene*	252	15.686	15.696	(0.993)	13356	1.00000	1.000
103	Indeno(1,2,3-cd)pyrene	276	17.520	17.541	(1.110)	8717	1.00000	1.000
104	Dibenzo(a,h)anthracene	278	17.582	17.592	(1.114)	10530	1.00000	1.000
105	Benzo(g,h,i)perylene	276	17.903	17.914	(1.134)	13401	1.00000	1.000

Report Date: 17-Jul-2009 09:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071607.d
Lab Smp Id: 1685-171-1
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 15:05
Client Smp ID: Level 1
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	310322	155161	620644	310322	0.00
27 Naphthalene-d8	832434	416217	1664868	832434	0.00
47 Acenaphthene-d10	398921	199460	797842	398921	0.00
71 Phenanthrene-d10	721242	360621	1442484	721242	0.00
90 Chrysene-d12	608799	304400	1217598	608799	0.00
99 Perylene-d12	435311	217656	870622	435311	0.00

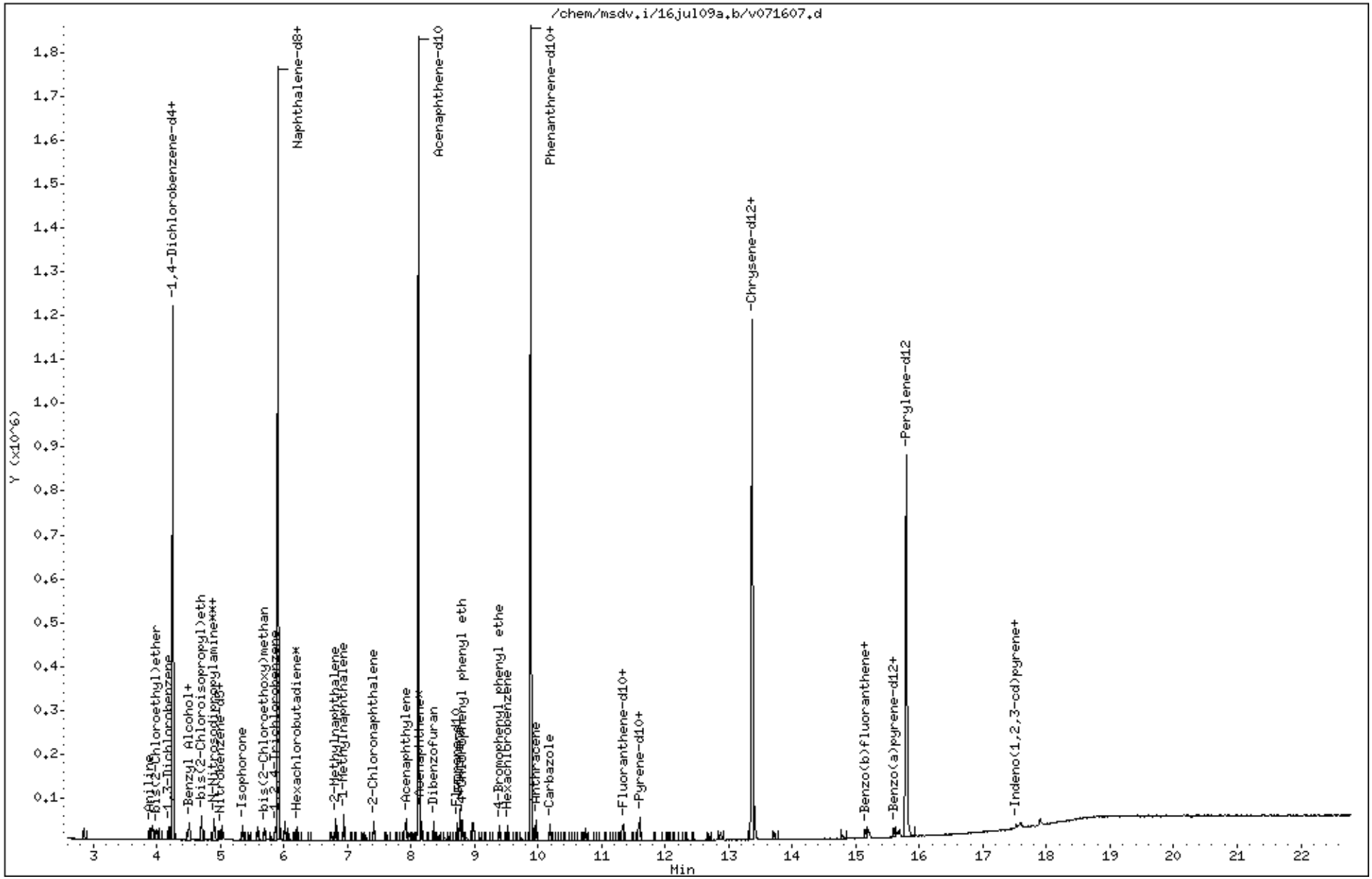
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.24	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.36	12.86	13.86	13.36	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

0153

Data File: /chem/msdv.i/16jul09a.b/v071607.d
Date : 16-JUL-2009 15:05
Client ID: Level 1
Sample Info: ;1685-171-1;Level 1
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071608.d
Lab Smp Id: 1685-171-5 Client Smp ID: Level 2
Inj Date : 16-JUL-2009 15:33
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-5;Level 2
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:11 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 15:33 Cal File: v071608.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 5ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.846	2.846	(0.670)	43305	5.00000	5.000
$ 2 Phenol-d5	99	3.924	3.934	(0.924)	51450	5.00000	5.000
$ 17 Nitrobenzene-d5	82	5.012	5.022	(0.849)	43656	5.00000	5.126
$ 62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	7172	5.00000	5.000
$ 101 Benzo(a)pyrene-d12	264	15.644	15.665	(0.991)	40858	5.00000	5.568
$ 83 Fluoranthene-d10	212	11.323	11.323	(1.146)	73796	5.00000	4.987
$ 147 Fluorene-d10	176	8.732	8.742	(1.075)	61811	5.00000	4.968
$ 148 Pyrene-d10	212	11.582	11.592	(0.867)	76031	5.00000	5.066
* 7 1,4-Dichlorobenzene-d4	150	4.245	4.255	(1.000)	336318	40.0000	
* 27 Naphthalene-d8	136	5.903	5.913	(1.000)	878927	40.0000	
* 47 Acenaphthene-d10	164	8.121	8.121	(1.000)	417064	40.0000	
* 71 Phenanthrene-d10	188	9.883	9.893	(1.000)	739333	40.0000	
* 90 Chrysene-d12	240	13.364	13.375	(1.000)	624003	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 99	Perylene-d12	264	15.789	15.800	(1.000)	445091	40.0000	
3	Phenol*	94	3.934	3.944	(0.927)	57861	5.00000	5.000
41	Aniline	93	3.893	3.903	(0.917)	70946	5.00000	4.833
4	bis(2-Chloroethyl)ether	93	3.986	3.996	(0.939)	53875	5.00000	5.031
5	2-Chlorophenol	128	4.038	4.038	(0.951)	42354	5.00000	5.000
6	1,3-Dichlorobenzene	146	4.204	4.203	(0.990)	47856	5.00000	4.731
9	1,4-Dichlorobenzene*	146	4.266	4.276	(1.005)	49508	5.00000	4.704
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	45856	5.00000	4.684
12	2-Methylphenol	108	4.701	4.711	(1.107)	40315	5.00000	5.000
13	bis(2-Chloroisopropyl)ether	45	4.701	4.711	(1.107)	85057	5.00000	4.741
14	4-Methylphenol	108	4.908	4.908	(1.156)	41474	5.00000	5.000
15	N-Nitrosodipropylamine**	70	4.888	4.887	(1.151)	32082	5.00000	4.885
16	Hexachloroethane	117	4.908	4.908	(1.156)	21064	5.00000	4.785
18	Nitrobenzene	77	5.033	5.043	(0.853)	47552	5.00000	4.945
19	Isophorone	82	5.354	5.354	(0.907)	84881	5.00000	4.986
20	2-Nitrophenol*	139	5.457	5.457	(0.924)	15219	5.00000	5.000
21	2,4-Dimethylphenol	122	5.582	5.592	(0.946)	35374	5.00000	5.000
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.965)	57867	5.00000	4.979
25	2,4-Dichlorophenol*	162	5.779	5.789	(0.979)	27426	5.00000	5.000
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	38312	5.00000	4.800
28	Naphthalene	128	5.934	5.934	(1.005)	135399	5.00000	4.721
30	Hexachlorobutadiene*	225	6.204	6.203	(1.051)	19408	5.00000	4.857
32	4-Chloro-3-Methylphenol*	107	6.753	6.753	(1.144)	30706	5.00000	5.000
33	2-Methylnaphthalene	142	6.815	6.815	(1.154)	76649	5.00000	4.833
145	1-Methylnaphthalene	142	6.950	6.950	(1.177)	80247	5.00000	4.776
36	2,4,6-Trichlorophenol*	196	7.240	7.240	(0.892)	16675	5.00000	5.000
37	2,4,5-Trichlorophenol	196	7.292	7.292	(0.898)	18250	5.00000	5.000
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	69083	5.00000	4.869
40	2-Nitroaniline	65	7.613	7.613	(0.937)	19585	5.00000	5.000
46	3-Nitroaniline	138	8.121	8.131	(1.000)	17459	5.00000	
42	Dimethylphthalate	163	7.914	7.913	(0.974)	72330	5.00000	5.000
44	2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	14615	5.00000	5.000
45	Acenaphthylene	152	7.924	7.934	(0.976)	113494	5.00000	5.114
48	Acenaphthene*	154	8.152	8.162	(1.004)	70139	5.00000	4.760
50	4-Nitrophenol**	109	8.411	8.411	(1.036)	5254	5.00000	
52	2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	17388	5.00000	5.000
51	Dibenzofuran	168	8.349	8.359	(1.028)	94453	5.00000	4.851
56	Diethylphthalate	149	8.784	8.784	(1.082)	73798	5.00000	5.000
57	Fluorene	166	8.774	8.774	(1.080)	74900	5.00000	4.795
58	4-Chlorophenyl phenyl ether	204	8.805	8.815	(1.084)	36599	5.00000	4.705
65	4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	18282	5.00000	5.009
66	Hexachlorobenzene	284	9.530	9.530	(0.964)	22289	5.00000	4.838
144	Carbazole	167	10.193	10.193	(2.401)	95083	5.00000	5.082
72	Phenanthrene	178	9.914	9.913	(1.003)	117944	5.00000	4.836
73	Anthracene	178	9.965	9.965	(1.008)	103137	5.00000	4.897
78	Di-n-butylphthalate	149	10.753	10.753	(1.088)	96358	5.00000	5.000
80	Fluoranthene*	202	11.344	11.344	(1.148)	102458	5.00000	5.022

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	Pyrene	202	11.603	11.613	(0.868)	116385	5.00000	5.064
85	Butyl benzyl phthalate	149	12.681	12.691	(0.949)	30508	5.00000	5.000
88	Benzo(a)Anthracene	228	13.344	13.354	(0.998)	87648	5.00000	5.023
91	Chrysene	228	13.406	13.416	(1.003)	111232	5.00000	4.278
93	bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.027)	42286	5.00000	5.000
94	Di-n-octyl phthalate*	149	14.805	14.805	(0.938)	49099	5.00000	5.000
95	Benzo(b)fluoranthene	252	15.157	15.168	(0.960)	79430	5.00000	5.514
96	Benzo(k)fluoranthene	252	15.199	15.209	(0.963)	94418	5.00000	5.234
97	Benzo(e)pyrene	252	15.603	15.613	(0.988)	72807	5.00000	5.179
98	Benzo(a)pyrene*	252	15.686	15.696	(0.993)	82611	5.00000	5.475
103	Indeno(1,2,3-cd)pyrene	276	17.520	17.541	(1.110)	59841	5.00000	5.732
104	Dibenzo(a,h)anthracene	278	17.582	17.592	(1.114)	70229	5.00000	5.661
105	Benzo(g,h,i)perylene	276	17.904	17.914	(1.134)	79208	5.00000	5.362
10	Benzyl Alcohol	108	4.494	4.494	(1.059)	26291	5.00000	5.236

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071608.d
Lab Smp Id: 1685-171-5
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 15:33
Client Smp ID: Level 2
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	336318	168159	672636	336318	0.00
27 Naphthalene-d8	878927	439464	1757854	878927	0.00
47 Acenaphthene-d10	417064	208532	834128	417064	0.00
71 Phenanthrene-d10	739333	369666	1478666	739333	0.00
90 Chrysene-d12	624003	312002	1248006	624003	0.00
99 Perylene-d12	445091	222546	890182	445091	0.00

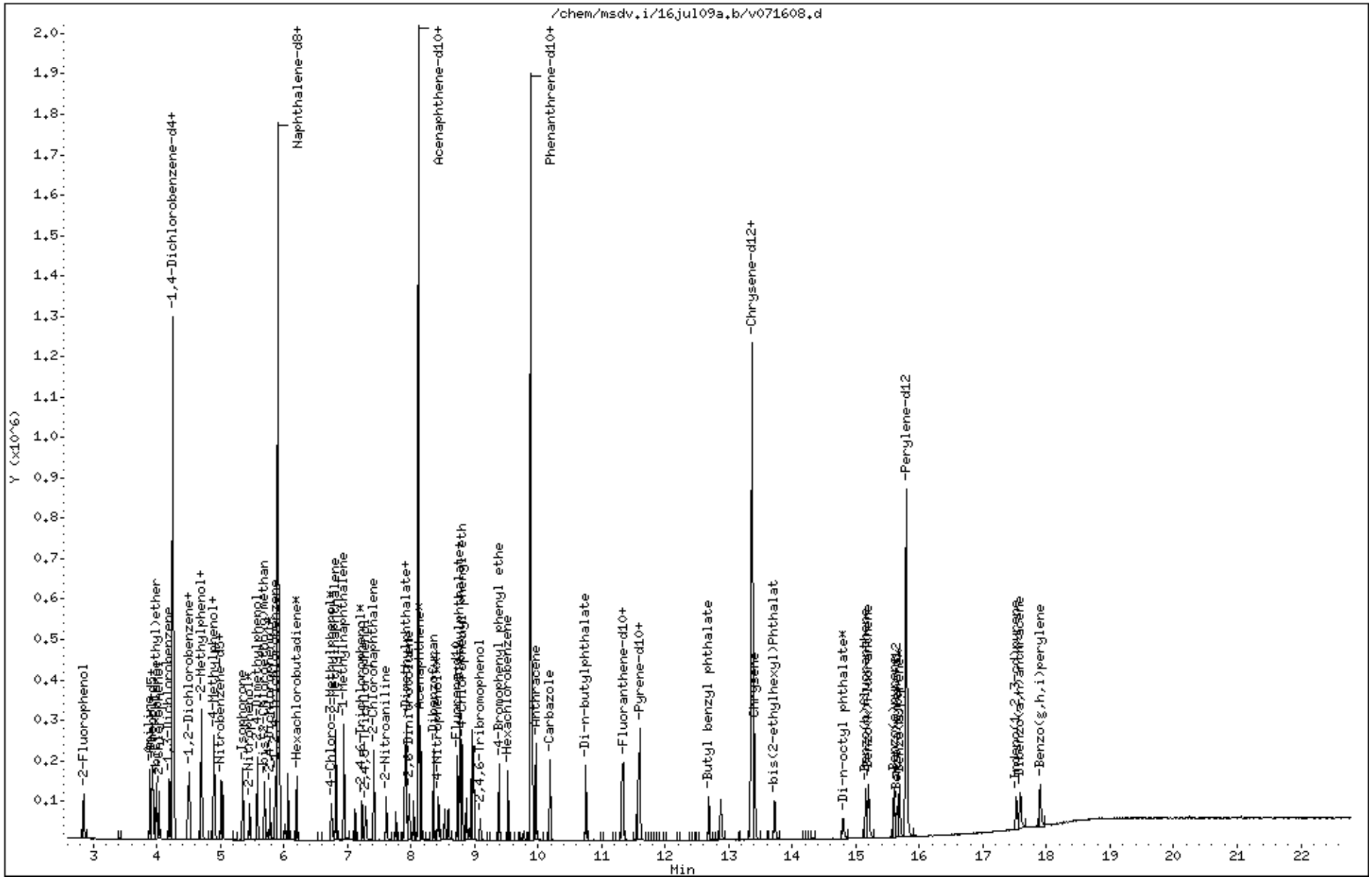
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.36	12.86	13.86	13.36	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

0158

Data File: /chem/msdv.i/16jul09a.b/v071608.d
Date : 16-JUL-2009 15:33
Client ID: Level 2
Sample Info: ;1685-171-5;Level 2
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071609.d
Lab Smp Id: 1685-171-10 Client Smp ID: Level 3
Inj Date : 16-JUL-2009 16:01
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-10;Level 3
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:11 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 16:01 Cal File: v071609.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	1 2-Fluorophenol	112	2.846	2.846	(0.670)	88524	10.0000	10.09
$	2 Phenol-d5	99	3.924	3.934	(0.924)	106041	10.0000	10.13
$	17 Nitrobenzene-d5	82	5.012	5.022	(0.849)	93913	10.0000	10.74
$	62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	16587	10.0000	10.81
$	101 Benzo(a)pyrene-d12	264	15.644	15.665	(0.991)	96892	10.0000	11.63
$	83 Fluoranthene-d10	212	11.323	11.323	(1.146)	164022	10.0000	10.65
$	147 Fluorene-d10	176	8.732	8.742	(1.075)	126152	10.0000	10.20
$	148 Pyrene-d10	212	11.582	11.592	(0.867)	165470	10.0000	10.60
*	7 1,4-Dichlorobenzene-d4	150	4.245	4.255	(1.000)	337751	40.0000	
*	27 Naphthalene-d8	136	5.903	5.913	(1.000)	869080	40.0000	
*	47 Acenaphthene-d10	164	8.121	8.121	(1.000)	410224	40.0000	
*	71 Phenanthrene-d10	188	9.883	9.893	(1.000)	744746	40.0000	
*	90 Chrysene-d12	240	13.364	13.375	(1.000)	629877	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 99	Perylene-d12	264	15.789	15.800	(1.000)	463820	40.0000	
3	Phenol*	94	3.934	3.944	(0.927)	123723	10.0000	10.31
41	Aniline	93	3.893	3.903	(0.917)	153490	10.0000	10.27
4	bis(2-Chloroethyl)ether	93	3.986	3.996	(0.939)	108732	10.0000	10.07
5	2-Chlorophenol	128	4.038	4.038	(0.951)	90432	10.0000	10.30
6	1,3-Dichlorobenzene	146	4.204	4.203	(0.990)	98914	10.0000	9.823
9	1,4-Dichlorobenzene*	146	4.266	4.276	(1.005)	101480	10.0000	9.730
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	94514	10.0000	9.738
12	2-Methylphenol	108	4.701	4.711	(1.107)	86970	10.0000	10.36
13	bis(2-Chloroisopropyl)ether	45	4.701	4.711	(1.107)	174069	10.0000	9.771
14	4-Methylphenol	108	4.908	4.908	(1.156)	91127	10.0000	10.45
15	N-Nitrosodipropylamine**	70	4.888	4.887	(1.151)	68478	10.0000	10.25
16	Hexachloroethane	117	4.908	4.908	(1.156)	42169	10.0000	9.687
18	Nitrobenzene	77	5.033	5.043	(0.853)	105306	10.0000	10.69
19	Isophorone	82	5.354	5.354	(0.907)	187345	10.0000	10.72
20	2-Nitrophenol*	139	5.457	5.457	(0.924)	35099	10.0000	10.77
21	2,4-Dimethylphenol	122	5.582	5.592	(0.946)	78644	10.0000	10.58
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.965)	121382	10.0000	10.37
25	2,4-Dichlorophenol*	162	5.779	5.789	(0.979)	57001	10.0000	10.25
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	78908	10.0000	9.999
28	Naphthalene	128	5.934	5.934	(1.005)	273491	10.0000	9.760
29	4-Chloroaniline	127	6.069	6.069	(1.028)	112986	10.0000	10.00
30	Hexachlorobutadiene*	225	6.204	6.203	(1.051)	38934	10.0000	9.903
32	4-Chloro-3-Methylphenol*	107	6.742	6.753	(1.142)	64108	10.0000	10.27
33	2-Methylnaphthalene	142	6.815	6.815	(1.154)	155162	10.0000	9.930
145	1-Methylnaphthalene	142	6.950	6.950	(1.177)	166008	10.0000	9.994
36	2,4,6-Trichlorophenol*	196	7.230	7.240	(0.890)	37080	10.0000	10.61
37	2,4,5-Trichlorophenol	196	7.281	7.292	(0.897)	42107	10.0000	10.80
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	143310	10.0000	10.18
40	2-Nitroaniline	65	7.613	7.613	(0.937)	47852	10.0000	11.08
46	3-Nitroaniline	138	8.121	8.131	(1.000)	40788	10.0000	10.00
42	Dimethylphthalate	163	7.914	7.913	(0.974)	148542	10.0000	10.22
44	2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	33672	10.0000	10.79
45	Acenaphthylene	152	7.924	7.934	(0.976)	238023	10.0000	10.58
48	Acenaphthene*	154	8.152	8.162	(1.004)	142190	10.0000	9.873
52	2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	42066	10.0000	11.03
51	Dibenzofuran	168	8.349	8.359	(1.028)	194844	10.0000	10.12
56	Diethylphthalate	149	8.784	8.784	(1.082)	157164	10.0000	10.40
57	Fluorene	166	8.774	8.774	(1.080)	153482	10.0000	9.993
58	4-Chlorophenyl phenyl ether	204	8.805	8.815	(1.084)	71394	10.0000	9.544
59	4-Nitroaniline	138	8.867	8.877	(1.092)	40670	10.0000	10.00
60	4,6-Dinitro-2-methylphenol	198	8.919	8.929	(0.902)	12593	10.0000	10.00
61	N-nitrosodiphenylamine*	169	8.960	8.970	(0.907)	129975	10.0000	10.00
65	4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	39121	10.0000	10.42
66	Hexachlorobenzene	284	9.530	9.530	(0.964)	45244	10.0000	9.831
144	Carbazole	167	10.193	10.193	(2.401)	205825	10.0000	10.62
72	Phenanthrene	178	9.914	9.913	(1.003)	237638	10.0000	9.779(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
73	Anthracene	178	9.965	9.965	(1.008)	231892	10.0000	10.60
78	Di-n-butylphthalate	149	10.753	10.753	(1.088)	227561	10.0000	10.79
80	Fluoranthene*	202	11.344	11.344	(1.148)	217461	10.0000	10.38
81	Pyrene	202	11.603	11.613	(0.868)	239251	10.0000	10.21
85	Butyl benzyl phthalate	149	12.681	12.691	(0.949)	77710	10.0000	11.16
88	Benzo(a)Anthracene	228	13.344	13.354	(0.998)	197580	10.0000	10.78
91	Chrysene	228	13.406	13.416	(1.003)	214646	10.0000	8.708
93	bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.027)	110306	10.0000	11.27
94	Di-n-octyl phthalate*	149	14.805	14.805	(0.938)	137992	10.0000	11.48
95	Benzo(b)fluoranthene	252	15.157	15.168	(0.960)	177231	10.0000	11.14
96	Benzo(k)fluoranthene	252	15.199	15.209	(0.963)	204859	10.0000	10.58
97	Benzo(e)pyrene	252	15.603	15.613	(0.988)	164824	10.0000	10.80
98	Benzo(a)pyrene*	252	15.686	15.696	(0.993)	184016	10.0000	11.07
103	Indeno(1,2,3-cd)pyrene	276	17.520	17.541	(1.110)	138285	10.0000	11.66
104	Dibenzo(a,h)anthracene	278	17.582	17.592	(1.114)	153739	10.0000	11.19
105	Benzo(g,h,i)perylene	276	17.903	17.914	(1.134)	173556	10.0000	10.82
10	Benzyl Alcohol	108	4.494	4.494	(1.059)	58083	10.0000	10.96

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071609.d
Lab Smp Id: 1685-171-10
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 16:01
Client Smp ID: Level 3
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	337751	168876	675502	337751	0.00
27 Naphthalene-d8	869080	434540	1738160	869080	0.00
47 Acenaphthene-d10	410224	205112	820448	410224	0.00
71 Phenanthrene-d10	744746	372373	1489492	744746	0.00
90 Chrysene-d12	629877	314938	1259754	629877	0.00
99 Perylene-d12	463820	231910	927640	463820	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.36	12.86	13.86	13.36	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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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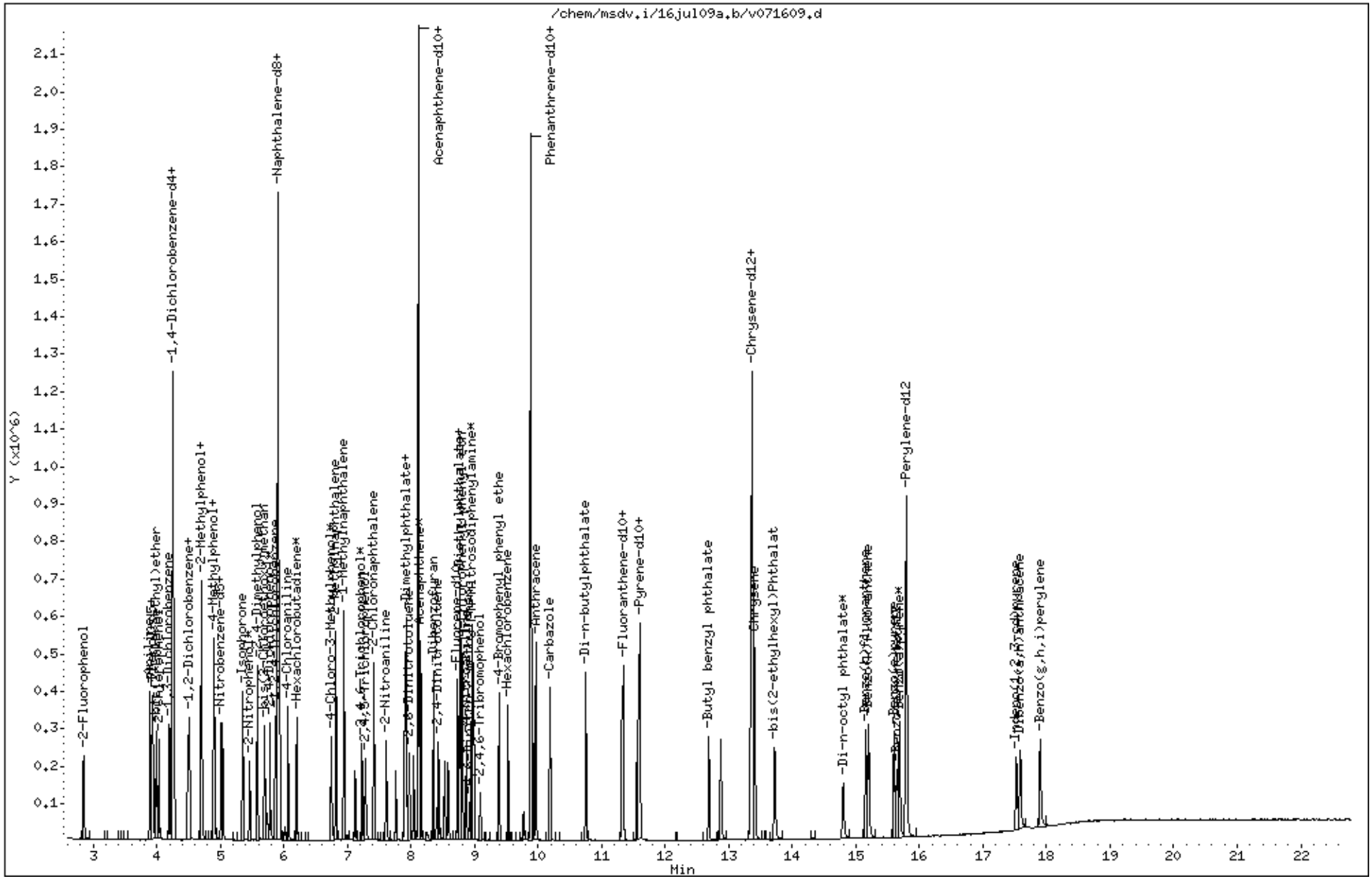
Data File: /chem/msdv.i/16jul09a.b/v071609.d
Date : 16-JUL-2009 16:01
Client ID: Level 3
Sample Info: ;1685-171-10;Level 3
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071610.d
Lab Smp Id: 1685-171-20 Client Smp ID: Level 4
Inj Date : 16-JUL-2009 16:28
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-20;Level 4
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:46 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 20ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
$	1 2-Fluorophenol	112	2.846	2.846	(0.670)	169478	20.0000	22.76
$	2 Phenol-d5	99	3.924	3.924	(0.924)	193198	20.0000	22.82
$	17 Nitrobenzene-d5	82	5.012	5.012	(0.849)	177291	20.0000	20.97
$	62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	33158	20.0000	20.62
$	101 Benzo(a)pyrene-d12	264	15.644	15.655	(0.991)	196779	20.0000	21.96
$	83 Fluoranthene-d10	212	11.323	11.323	(1.146)	309600	20.0000	20.73
$	147 Fluorene-d10	176	8.732	8.743	(1.075)	235575	20.0000	21.83
$	148 Pyrene-d10	212	11.582	11.582	(0.866)	299118	20.0000	21.47
*	7 1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	321806	40.0000	
*	27 Naphthalene-d8	136	5.903	5.913	(1.000)	815784	40.0000	
*	47 Acenaphthene-d10	164	8.121	8.121	(1.000)	378220	40.0000	
*	71 Phenanthrene-d10	188	9.883	9.883	(1.000)	701878	40.0000	
*	90 Chrysene-d12	240	13.375	13.375	(1.000)	597070	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 99	Perylene-d12	264	15.789	15.789	(1.000)	443325	40.0000	
3	Phenol*	94	3.934	3.934	(0.927)	231666	20.0000	23.08
41	Aniline	93	3.893	3.893	(0.917)	284206	20.0000	22.23
4	bis(2-Chloroethyl)ether	93	3.986	3.986	(0.939)	195990	20.0000	22.09
5	2-Chlorophenol	128	4.027	4.038	(0.949)	169221	20.0000	22.76
6	1,3-Dichlorobenzene	146	4.204	4.204	(0.990)	177536	20.0000	22.13
9	1,4-Dichlorobenzene*	146	4.266	4.266	(1.005)	184821	20.0000	22.45
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	170562	20.0000	22.58
12	2-Methylphenol	108	4.701	4.701	(1.107)	156911	20.0000	22.99
13	bis(2-Chloroisopropyl)ether	45	4.701	4.711	(1.107)	312681	20.0000	23.14
14	4-Methylphenol	108	4.908	4.908	(1.156)	167640	20.0000	23.87
15	N-Nitrosodipropylamine**	70	4.888	4.888	(1.151)	131083	20.0000	23.46
16	Hexachloroethane	117	4.908	4.908	(1.156)	78031	20.0000	23.11
18	Nitrobenzene	77	5.033	5.043	(0.853)	188397	20.0000	20.48
19	Isophorone	82	5.354	5.354	(0.907)	354222	20.0000	21.12
20	2-Nitrophenol*	139	5.458	5.457	(0.924)	73933	20.0000	20.40
21	2,4-Dimethylphenol	122	5.582	5.582	(0.946)	148622	20.0000	21.52
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.965)	225688	20.0000	21.27
24	Benzoic Acid	122	5.758	5.789	(0.975)	55136	20.0000	15.05
25	2,4-Dichlorophenol*	162	5.779	5.779	(0.979)	112249	20.0000	21.47
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	140814	20.0000	21.08
28	Naphthalene	128	5.934	5.934	(1.005)	497658	20.0000	21.21
29	4-Chloroaniline	127	6.069	6.069	(1.028)	212528	20.0000	21.34
30	Hexachlorobutadiene*	225	6.204	6.204	(1.051)	72347	20.0000	21.25
32	4-Chloro-3-Methylphenol*	107	6.743	6.743	(1.142)	130227	20.0000	20.74
33	2-Methylnaphthalene	142	6.815	6.815	(1.154)	291133	20.0000	21.63
145	1-Methylnaphthalene	142	6.950	6.950	(1.177)	299945	20.0000	21.43
35	Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	64554	20.0000	18.79
36	2,4,6-Trichlorophenol*	196	7.230	7.240	(0.890)	72724	20.0000	20.93
37	2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	84643	20.0000	22.86
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	262443	20.0000	21.81
40	2-Nitroaniline	65	7.613	7.613	(0.937)	99055	20.0000	20.86
46	3-Nitroaniline	138	8.121	8.131	(1.000)	76729	20.0000	19.74
42	Dimethylphthalate	163	7.914	7.914	(0.974)	276464	20.0000	22.53
44	2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	65007	20.0000	21.39
45	Acenaphthylene	152	7.924	7.924	(0.976)	425643	20.0000	22.04
48	Acenaphthene*	154	8.162	8.162	(1.005)	252496	20.0000	21.25
49	2,4-Dinitrophenol**	184	8.245	8.256	(1.015)	16957	20.0000	11.71
50	4-Nitrophenol**	109	8.401	8.411	(1.034)	34964	20.0000	16.63
52	2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	83874	20.0000	21.16
51	Dibenzofuran	168	8.349	8.359	(1.028)	351989	20.0000	21.58
56	Diethylphthalate	149	8.784	8.784	(1.082)	289016	20.0000	22.06
57	Fluorene	166	8.774	8.774	(1.080)	285154	20.0000	22.18
58	4-Chlorophenyl phenyl ether	204	8.805	8.805	(1.084)	128486	20.0000	21.18
59	4-Nitroaniline	138	8.867	8.877	(1.092)	81361	20.0000	20.12
60	4,6-Dinitro-2-methylphenol	198	8.919	8.929	(0.902)	32178	20.0000	17.50
61	N-nitrosodiphenylamine*	169	8.960	8.971	(0.907)	233338	20.0000	22.27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	74293	20.0000	22.20
66	Hexachlorobenzene	284	9.530	9.530	(0.964)	82138	20.0000	20.93
144	Carbazole	167	10.193	10.193	(2.401)	380757	20.0000	22.97
68	Pentachlorophenol*	266	9.769	9.769	(0.988)	27536	20.0000	16.34
72	Phenanthrene	178	9.914	9.914	(1.003)	432188	20.0000	21.58(H)
73	Anthracene	178	9.965	9.965	(1.008)	425932	20.0000	22.15
78	Di-n-butylphthalate	149	10.753	10.753	(1.088)	448725	20.0000	21.44
80	Fluoranthene*	202	11.344	11.344	(1.148)	400277	20.0000	21.94
81	Pyrene	202	11.603	11.613	(0.868)	432633	20.0000	21.49
85	Butyl benzyl phthalate	149	12.681	12.691	(0.948)	167223	20.0000	19.65
89	3 3'-Dichlorobenzidine	252	13.396	13.396	(1.002)	114927	20.0000	19.89
88	Benzo(a)Anthracene	228	13.344	13.344	(0.998)	376776	20.0000	21.02
91	Chrysene	228	13.406	13.416	(1.002)	389453	20.0000	20.17
93	bis(2-ethylhexyl)Phthalate	149	13.717	13.727	(1.026)	237045	20.0000	19.97
94	Di-n-octyl phthalate*	149	14.805	14.805	(0.938)	330717	20.0000	18.82
95	Benzo(b)fluoranthene	252	15.157	15.168	(0.960)	341950	20.0000	20.73
96	Benzo(k)fluoranthene	252	15.199	15.209	(0.963)	399193	20.0000	22.03
97	Benzo(e)pyrene	252	15.603	15.613	(0.988)	321782	20.0000	21.53
98	Benzo(a)pyrene*	252	15.686	15.696	(0.993)	349222	20.0000	21.52
103	Indeno(1,2,3-cd)pyrene	276	17.530	17.530	(1.110)	287474	20.0000	21.03
104	Dibenzo(a,h)anthracene	278	17.582	17.593	(1.114)	310925	20.0000	21.72
105	Benzo(g,h,i)perylene	276	17.904	17.914	(1.134)	339761	20.0000	20.99
10	Benzyl Alcohol	108	4.494	4.494	(1.059)	112227	20.0000	23.04

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071610.d
Lab Smp Id: 1685-171-20
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: Level 4
Level: LOW
Sample Type: PUF/XAD

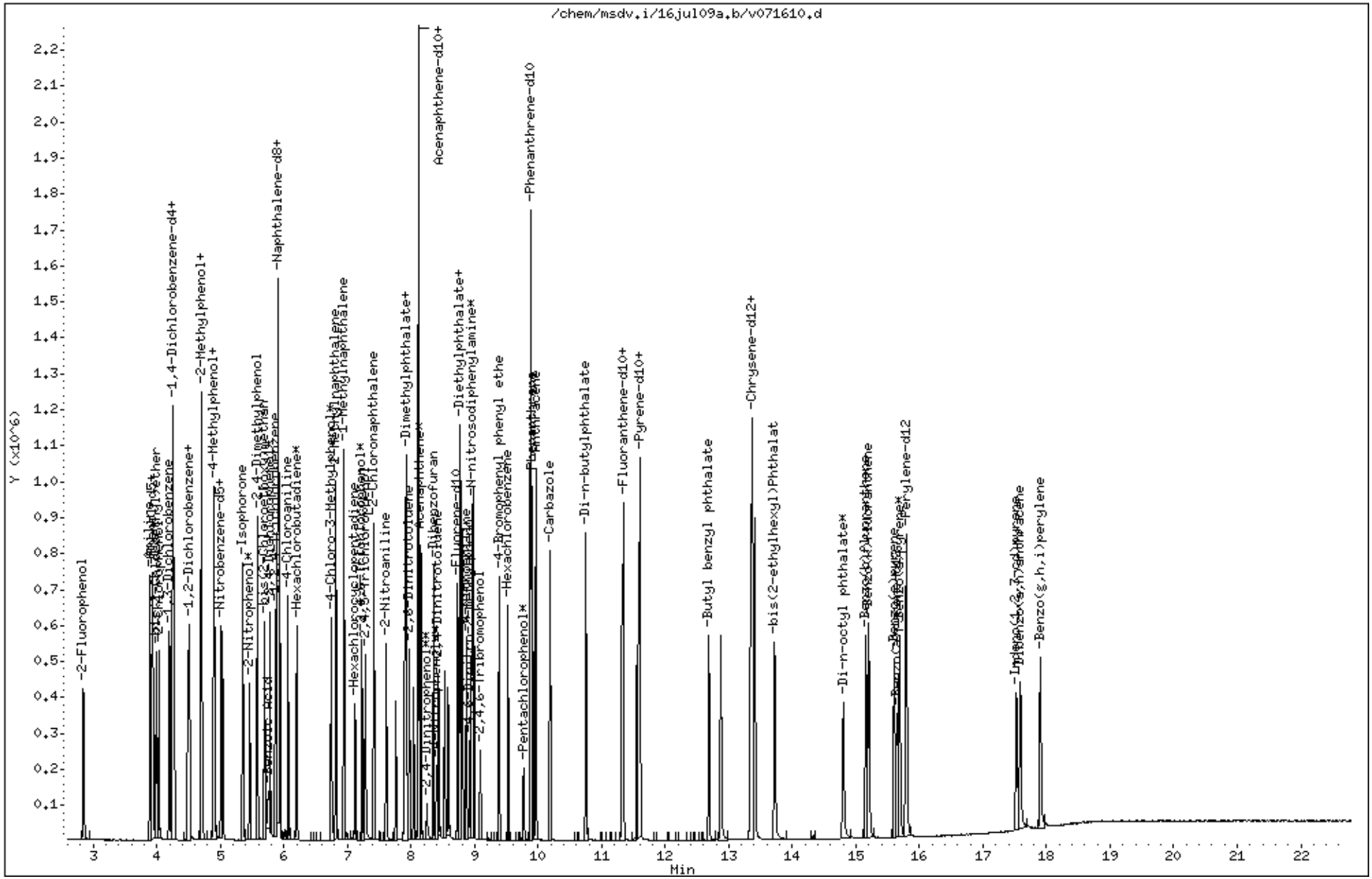
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	321806	-6.59
27 Naphthalene-d8	803185	401592	1606370	815784	1.57
47 Acenaphthene-d10	364531	182266	729062	378220	3.76
71 Phenanthrene-d10	686990	343495	1373980	701878	2.17
90 Chrysene-d12	579675	289838	1159350	597070	3.00
99 Perylene-d12	439467	219734	878934	443325	0.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
27 Naphthalene-d8	5.91	5.41	6.41	5.90	-0.18
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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/msdv.i/16jul09a.b/v071610.d
Date : 16-JUL-2009 16:28
Client ID: Level 4
Sample Info: ;1685-171-20;Level 4
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



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Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071611.d
Lab Smp Id: 1685-171-40 Client Smp ID: Level 5
Inj Date : 16-JUL-2009 16:56
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-40;Level 5
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:35 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 16:56 Cal File: v071611.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	1 2-Fluorophenol	112	2.846	2.846	(0.670)	282143	40.0000	38.42
$	2 Phenol-d5	99	3.924	3.924	(0.924)	319305	40.0000	38.24
$	17 Nitrobenzene-d5	82	5.012	5.012	(0.849)	301512	40.0000	37.14
$	62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	58831	40.0000	37.24
$	83 Fluoranthene-d10	212	11.323	11.323	(1.146)	641776	40.0000	43.48
$	101 Benzo(a)pyrene-d12	264	15.655	15.655	(0.991)	418261	40.0000	46.38
$	147 Fluorene-d10	176	8.742	8.743	(1.077)	395323	40.0000	37.29
$	148 Pyrene-d10	212	11.582	11.582	(0.866)	513884	40.0000	36.59
*	7 1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	317370	40.0000	
*	27 Naphthalene-d8	136	5.903	5.913	(1.000)	783436	40.0000	
*	47 Acenaphthene-d10	164	8.121	8.121	(1.000)	371483	40.0000	
*	71 Phenanthrene-d10	188	9.882	9.883	(1.000)	693829	40.0000	
*	90 Chrysene-d12	240	13.375	13.375	(1.000)	601894	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 99	Perylene-d12	264	15.789	15.789	(1.000)	446087	40.0000	
3	Phenol*	94	3.934	3.934	(0.927)	387254	40.0000	39.13
41	Aniline	93	3.893	3.893	(0.917)	477956	40.0000	37.90
4	bis(2-Chloroethyl)ether	93	3.986	3.986	(0.939)	324649	40.0000	37.10
5	2-Chlorophenol	128	4.038	4.038	(0.951)	286343	40.0000	39.06
6	1,3-Dichlorobenzene	146	4.203	4.204	(0.990)	293627	40.0000	37.12
9	1,4-Dichlorobenzene*	146	4.266	4.266	(1.005)	291904	40.0000	35.95
10	Benzyl Alcohol	108	4.494	4.494	(1.059)	193924	40.0000	40.38
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	271998	40.0000	36.51
12	2-Methylphenol	108	4.701	4.701	(1.107)	267263	40.0000	39.71
13	bis(2-Chloroisopropyl)ether	45	4.711	4.711	(1.110)	500234	40.0000	37.54
14	4-Methylphenol	108	4.908	4.908	(1.156)	275316	40.0000	39.75
15	N-Nitrosodipropylamine**	70	4.887	4.888	(1.151)	221639	40.0000	40.21
16	Hexachloroethane	117	4.908	4.908	(1.156)	124651	40.0000	37.43
18	Nitrobenzene	77	5.033	5.043	(0.853)	328325	40.0000	37.17
19	Isophorone	82	5.354	5.354	(0.907)	608119	40.0000	37.75
20	2-Nitrophenol*	139	5.457	5.457	(0.924)	130990	40.0000	37.63
21	2,4-Dimethylphenol	122	5.582	5.582	(0.946)	241785	40.0000	36.45
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.965)	371590	40.0000	36.46
24	Benzoic Acid	122	5.768	5.789	(0.977)	118254	40.0000	33.60
25	2,4-Dichlorophenol*	162	5.779	5.779	(0.979)	189462	40.0000	37.74
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	234238	40.0000	36.51
28	Naphthalene	128	5.934	5.934	(1.005)	813716	40.0000	36.12
29	4-Chloroaniline	127	6.069	6.069	(1.028)	363623	40.0000	38.02
30	Hexachlorobutadiene*	225	6.204	6.204	(1.051)	115573	40.0000	35.34
32	4-Chloro-3-Methylphenol*	107	6.742	6.743	(1.142)	226516	40.0000	37.57
33	2-Methylnaphthalene	142	6.815	6.815	(1.154)	475173	40.0000	36.77
145	1-Methylnaphthalene	142	6.950	6.950	(1.177)	491042	40.0000	36.53
35	Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	115994	40.0000	34.38
36	2,4,6-Trichlorophenol*	196	7.229	7.240	(0.890)	128311	40.0000	37.60
37	2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	144175	40.0000	39.65
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	430715	40.0000	36.44
40	2-Nitroaniline	65	7.613	7.613	(0.937)	181785	40.0000	38.99
46	3-Nitroaniline	138	8.131	8.131	(1.001)	142696	40.0000	37.38
42	Dimethylphthalate	163	7.913	7.914	(0.974)	454930	40.0000	37.74
44	2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	112770	40.0000	37.78
45	Acenaphthylene	152	7.924	7.924	(0.976)	717398	40.0000	37.82
48	Acenaphthene*	154	8.162	8.162	(1.005)	429651	40.0000	36.81
49	2,4-Dinitrophenol**	184	8.245	8.256	(1.015)	41087	40.0000	30.47
50	4-Nitrophenol**	109	8.400	8.411	(1.034)	71685	40.0000	34.71
52	2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	150279	40.0000	38.60
51	Dibenzofuran	168	8.359	8.359	(1.029)	589550	40.0000	36.80
56	Diethylphthalate	149	8.784	8.784	(1.082)	483820	40.0000	37.59
57	Fluorene	166	8.774	8.774	(1.080)	476634	40.0000	37.75
58	4-Chlorophenyl phenyl ether	204	8.805	8.805	(1.084)	215118	40.0000	36.11
59	4-Nitroaniline	138	8.877	8.877	(1.093)	148355	40.0000	37.35
60	4,6-Dinitro-2-methylphenol	198	8.919	8.929	(0.902)	65393	40.0000	35.97

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
61	N-nitrosodiphenylamine*	169	8.970	8.971	(0.908)	400354	40.0000	38.65
65	4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	120585	40.0000	36.46
66	Hexachlorobenzene	284	9.530	9.530	(0.964)	140758	40.0000	36.29
144	Carbazole	167	10.193	10.193	(2.401)	675452	40.0000	41.32
68	Pentachlorophenol*	266	9.768	9.769	(0.988)	57792	40.0000	34.70
72	Phenanthrene	178	9.914	9.914	(1.003)	731318	40.0000	36.94(H)
73	Anthracene	178	9.965	9.965	(1.008)	729241	40.0000	38.36
78	Di-n-butylphthalate	149	10.753	10.753	(1.088)	791692	40.0000	38.26
80	Fluoranthene*	202	11.344	11.344	(1.148)	678576	40.0000	37.63
81	Pyrene	202	11.603	11.613	(0.868)	735026	40.0000	36.21
85	Butyl benzyl phthalate	149	12.680	12.691	(0.948)	315737	40.0000	36.81
89	3 3'-Dichlorobenzidine	252	13.395	13.396	(1.002)	207063	40.0000	35.54
88	Benzo(a)Anthracene	228	13.344	13.344	(0.998)	674390	40.0000	37.33
91	Chrysene	228	13.416	13.416	(1.003)	654079	40.0000	33.60
93	bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	436969	40.0000	36.51
94	Di-n-octyl phthalate*	149	14.805	14.805	(0.938)	666932	40.0000	37.71
95	Benzo(b)fluoranthene	252	15.168	15.168	(0.961)	587713	40.0000	35.41
96	Benzo(k)fluoranthene	252	15.209	15.209	(0.963)	718678	40.0000	39.41
97	Benzo(e)pyrene	252	15.613	15.613	(0.989)	561736	40.0000	37.35
98	Benzo(a)pyrene*	252	15.696	15.696	(0.994)	604739	40.0000	37.03
103	Indeno(1,2,3-cd)pyrene	276	17.530	17.530	(1.110)	518800	40.0000	37.72
104	Dibenzo(a,h)anthracene	278	17.593	17.593	(1.114)	558888	40.0000	38.79
105	Benzo(g,h,i)perylene	276	17.914	17.914	(1.135)	613347	40.0000	37.65

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 17-Jul-2009 09:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071611.d
Lab Smp Id: 1685-171-40
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: Level 5
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	317370	-7.88
27 Naphthalene-d8	803185	401592	1606370	783436	-2.46
47 Acenaphthene-d10	364531	182266	729062	371483	1.91
71 Phenanthrene-d10	686990	343495	1373980	693829	1.00
90 Chrysene-d12	579675	289838	1159350	601894	3.83
99 Perylene-d12	439467	219734	878934	446087	1.51

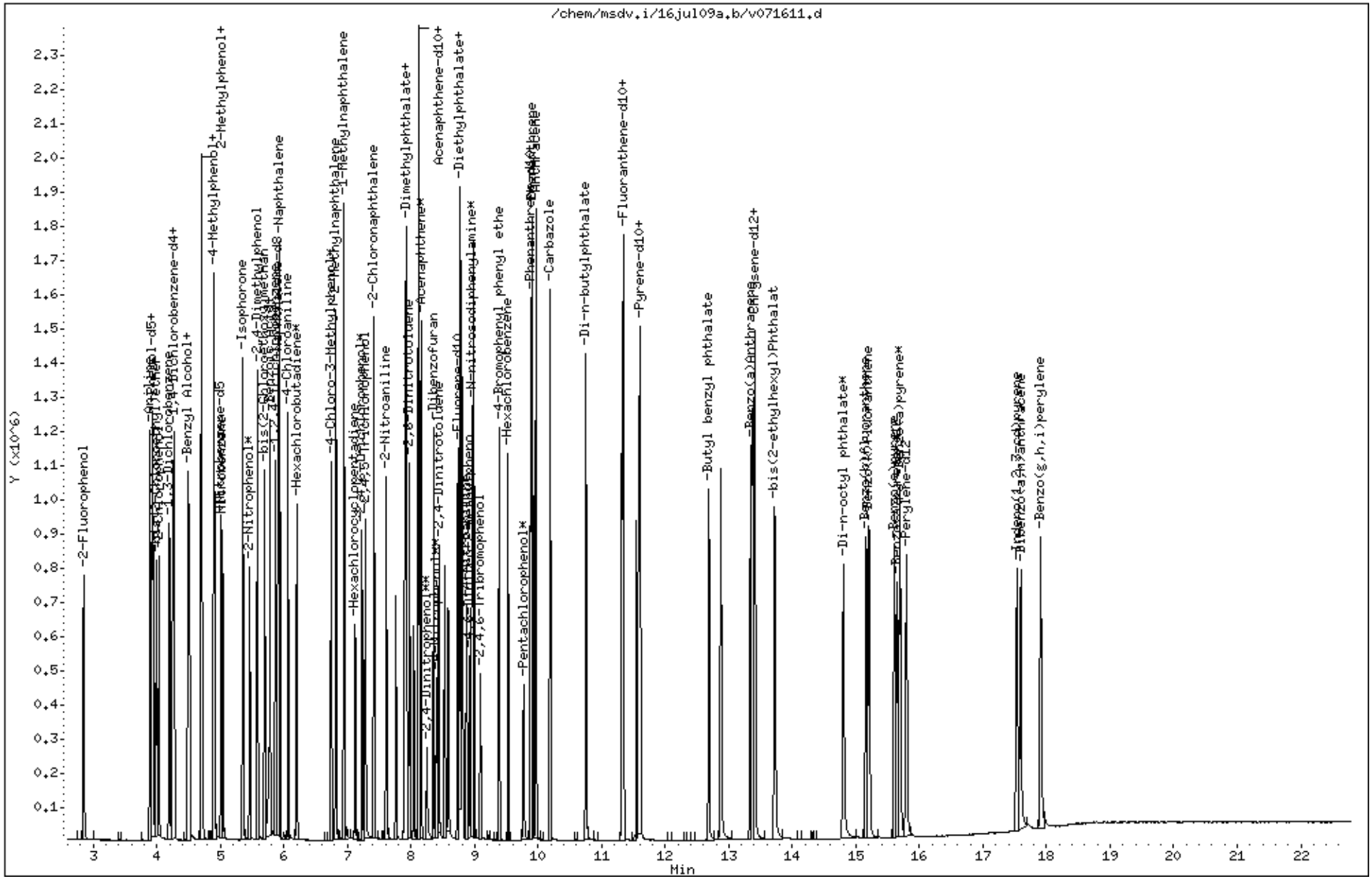
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.24	0.00
27 Naphthalene-d8	5.91	5.41	6.41	5.90	-0.18
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

0173

Data File: /chem/msdv.i/16jul09a.b/v071611.d
Date : 16-JUL-2009 16:56
Client ID: Level 5
Sample Info: ;1685-171-40;Level 5
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071612.d
Lab Smp Id: 1685-171-50 Client Smp ID: CCV
Inj Date : 16-JUL-2009 17:23
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-50;CCV
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:35 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 17:23 Cal File: v071612.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ccv.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	1	2-Fluorophenol	112	2.846	2.846	(0.670)	412454	50.0000	51.74
$	2	Phenol-d5	99	3.924	3.924	(0.924)	461358	50.0000	50.90
	3	Phenol*	94	3.934	3.934	(0.927)	548823	50.0000	51.08
	41	Aniline	93	3.893	3.893	(0.917)	693737	50.0000	50.68
	4	bis(2-Chloroethyl)ether	93	3.986	3.986	(0.939)	477623	50.0000	50.28
	5	2-Chlorophenol	128	4.038	4.038	(0.951)	415215	50.0000	52.18
	6	1,3-Dichlorobenzene	146	4.204	4.204	(0.990)	421934	50.0000	49.14
*	7	1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	344510	40.0000	
	9	1,4-Dichlorobenzene*	146	4.266	4.266	(1.005)	432890	50.0000	49.11
	10	Benzyl Alcohol	108	4.494	4.494	(1.059)	283666	50.0000	54.41
	11	1,2-Dichlorobenzene	146	4.514	4.514	(1.063)	394231	50.0000	48.75
	12	2-Methylphenol	108	4.701	4.701	(1.107)	376299	50.0000	51.50
	13	bis(2-Chloroisopropyl)ether	45	4.711	4.711	(1.110)	697754	50.0000	48.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	14 4-Methylphenol	108	4.908	4.908	(1.156)	386274	50.0000	51.37
	15 N-Nitrosodipropylamine**	70	4.888	4.888	(1.151)	303965	50.0000	50.81
	16 Hexachloroethane	117	4.908	4.908	(1.156)	177389	50.0000	49.07
$	17 Nitrobenzene-d5	82	5.012	5.012	(0.848)	439084	50.0000	52.76
	18 Nitrobenzene	77	5.043	5.043	(0.853)	471674	50.0000	52.09
	19 Isophorone	82	5.354	5.354	(0.905)	852761	50.0000	51.63
	20 2-Nitrophenol*	139	5.457	5.457	(0.923)	194807	50.0000	54.59
	21 2,4-Dimethylphenol	122	5.582	5.582	(0.944)	355872	50.0000	52.33
	24 Benzoic Acid	122	5.789	5.789	(0.979)	173697	50.0000	48.14
	23 bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.963)	542613	50.0000	51.94
	25 2,4-Dichlorophenol*	162	5.779	5.779	(0.977)	270682	50.0000	52.59
	26 1,2,4-Trichlorobenzene	180	5.872	5.872	(0.993)	332784	50.0000	50.59
*	27 Naphthalene-d8	136	5.913	5.913	(1.000)	803185	40.0000	
	28 Naphthalene	128	5.934	5.934	(1.004)	1153669	50.0000	49.95
	29 4-Chloroaniline	127	6.069	6.069	(1.026)	514876	50.0000	52.50
	30 Hexachlorobutadiene*	225	6.204	6.204	(1.049)	174758	50.0000	52.13
	32 4-Chloro-3-Methylphenol*	107	6.743	6.743	(1.140)	333620	50.0000	53.98
	33 2-Methylnaphthalene	142	6.815	6.815	(1.152)	669843	50.0000	50.56
	145 1-Methylnaphthalene	142	6.950	6.950	(1.175)	683544	50.0000	49.60
	35 Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	179153	50.0000	54.11
	36 2,4,6-Trichlorophenol*	196	7.240	7.240	(0.892)	183293	50.0000	54.74
	37 2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	184035	50.0000	51.58
	39 2-Chloronaphthalene	162	7.416	7.416	(0.913)	607375	50.0000	52.37
	40 2-Nitroaniline	65	7.613	7.613	(0.937)	261018	50.0000	57.05
	42 Dimethylphthalate	163	7.914	7.914	(0.974)	624224	50.0000	52.78
	44 2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	157264	50.0000	53.69
	45 Acenaphthylene	152	7.924	7.924	(0.976)	1008546	50.0000	54.18
	46 3-Nitroaniline	138	8.131	8.131	(1.001)	203458	50.0000	54.31
*	47 Acenaphthene-d10	164	8.121	8.121	(1.000)	364531	40.0000	
	48 Acenaphthene*	154	8.162	8.162	(1.005)	593524	50.0000	51.82
	49 2,4-Dinitrophenol**	184	8.256	8.256	(1.017)	67782	50.0000	50.32
	50 4-Nitrophenol**	109	8.411	8.411	(1.036)	104710	50.0000	51.67
	51 Dibenzofuran	168	8.359	8.359	(1.029)	822061	50.0000	52.29
	52 2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	206278	50.0000	53.99
	56 Diethylphthalate	149	8.784	8.784	(1.082)	671769	50.0000	53.19
$	147 Fluorene-d10	176	8.743	8.743	(1.077)	551967	50.0000	53.06
	58 4-Chlorophenyl phenyl ether	204	8.805	8.805	(1.084)	299482	50.0000	51.23
	57 Fluorene	166	8.774	8.774	(1.080)	635111	50.0000	51.26
	59 4-Nitroaniline	138	8.877	8.877	(1.093)	206429	50.0000	52.96
	60 4,6-Dinitro-2-methylphenol	198	8.929	8.929	(0.904)	98354	50.0000	54.64
	61 N-nitrosodiphenylamine*	169	8.971	8.971	(0.908)	556218	50.0000	54.23
$	62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	84371	50.0000	54.42
	65 4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	167471	50.0000	51.14
	66 Hexachlorobenzene	284	9.530	9.530	(0.964)	192636	50.0000	50.16
	68 Pentachlorophenol*	266	9.769	9.769	(0.988)	89007	50.0000	53.97
*	71 Phenanthrene-d10	188	9.883	9.883	(1.000)	686990	40.0000	
	72 Phenanthrene	178	9.914	9.914	(1.003)	984599	50.0000	50.23(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	73 Anthracene	178	9.965	9.965	(1.008)	963748	50.0000	51.20
	144 Carbazole	167	10.193	10.193	(2.401)	911379	50.0000	51.36
	78 Di-n-butylphthalate	149	10.753	10.753	(1.088)	1125221	50.0000	54.92
$	83 Fluoranthene-d10	212	11.323	11.323	(1.146)	701394	50.0000	47.99
	80 Fluoranthene*	202	11.344	11.344	(1.148)	919819	50.0000	51.52
$	148 Pyrene-d10	212	11.582	11.582	(0.866)	689904	50.0000	51.01
	81 Pyrene	202	11.613	11.613	(0.868)	980619	50.0000	50.16
	85 Butyl benzyl phthalate	149	12.691	12.691	(0.949)	469082	50.0000	56.79
	89 3 3'-Dichlorobenzidine	252	13.396	13.396	(1.002)	299318	50.0000	53.35
	88 Benzo(a)Anthracene	228	13.344	13.344	(0.998)	921984	50.0000	53.00
*	90 Chrysene-d12	240	13.375	13.375	(1.000)	579675	40.0000	
	91 Chrysene	228	13.416	13.416	(1.003)	883464	50.0000	47.12
	93 bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	645145	50.0000	55.98
	94 Di-n-octyl phthalate*	149	14.805	14.805	(0.946)	988391	50.0000	56.73
	95 Benzo(b)fluoranthene	252	15.168	15.168	(0.969)	911100	50.0000	55.72
	96 Benzo(k)fluoranthene	252	15.209	15.209	(0.972)	915059	50.0000	50.93(H)
	97 Benzo(e)pyrene	252	15.613	15.613	(0.997)	785623	50.0000	53.02(H)
$	101 Benzo(a)pyrene-d12	264	15.655	15.655	(1.000)	478769	50.0000	53.89
	98 Benzo(a)pyrene*	252	15.696	15.696	(1.003)	855224	50.0000	53.16(H)
*	99 Perylene-d12	264	15.789	15.789	(1.000)	439467	40.0000	(H)
	103 Indeno(1,2,3-cd)pyrene	276	17.530	17.530	(1.120)	785276	50.0000	57.96
	104 Dibenzo(a,h)anthracene	278	17.593	17.593	(1.124)	762366	50.0000	53.72
	105 Benzo(g,h,i)perylene	276	17.914	17.914	(1.144)	869814	50.0000	54.20

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071612.d
Lab Smp Id: 1685-171-50
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: CCV
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	344510	0.00
27 Naphthalene-d8	803185	401592	1606370	803185	0.00
47 Acenaphthene-d10	364531	182266	729062	364531	0.00
71 Phenanthrene-d10	686990	343495	1373980	686990	0.00
90 Chrysene-d12	579675	289838	1159350	579675	0.00
99 Perylene-d12	439467	219734	878934	439467	0.00

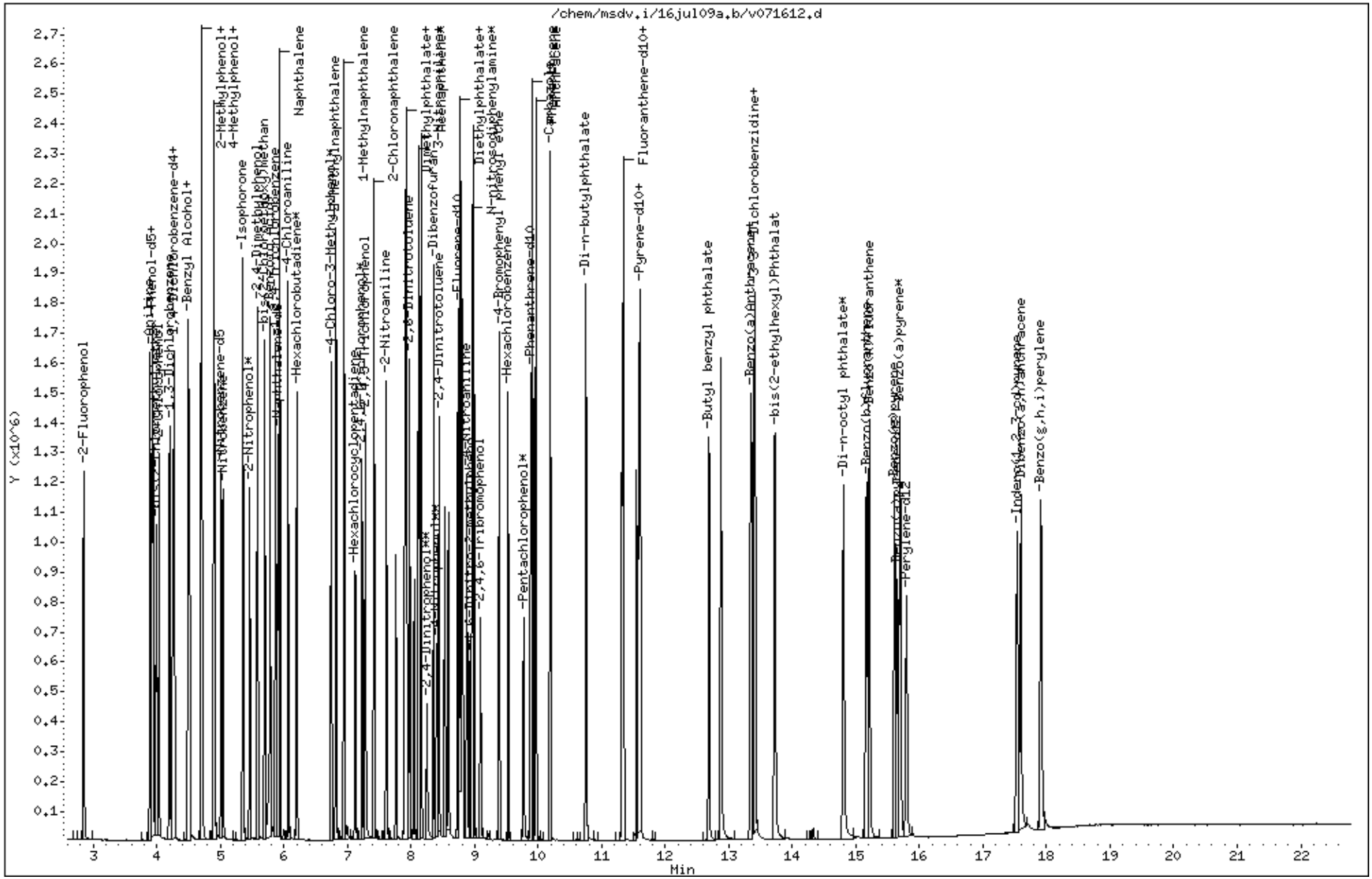
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
27 Naphthalene-d8	5.91	5.41	6.41	5.91	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

0178

Data File: /chem/msdv.i/16jul09a.b/v071612.d
Date : 16-JUL-2009 17:23
Client ID: CCV
Sample Info: ;1685-171-50;CCV
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071613.d
Lab Smp Id: 1685-171-80 Client Smp ID: Level 7
Inj Date : 16-JUL-2009 17:51
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-80;Level 7
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:38 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 17:51 Cal File: v071613.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.835	2.846	(0.666)	681107	80.0000	74.05
$ 2 Phenol-d5	99	3.924	3.924	(0.922)	745520	80.0000	71.28
$ 17 Nitrobenzene-d5	82	5.022	5.012	(0.849)	726669	80.0000	81.70
$ 62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	142634	80.0000	84.88
$ 147 Fluorene-d10	176	8.742	8.743	(1.077)	860445	80.0000	76.31
$ 148 Pyrene-d10	212	11.592	11.582	(0.867)	1081556	80.0000	76.69
* 7 1,4-Dichlorobenzene-d4	150	4.255	4.245	(1.000)	397545	40.0000	
* 27 Naphthalene-d8	136	5.913	5.913	(1.000)	858307	40.0000	
* 47 Acenaphthene-d10	164	8.121	8.121	(1.000)	395160	40.0000	
* 71 Phenanthrene-d10	188	9.893	9.883	(1.000)	774099	40.0000	
* 90 Chrysene-d12	240	13.375	13.375	(1.000)	604386	40.0000	
* 99 Perylene-d12	264	15.800	15.789	(1.000)	461376	40.0000	
3 Phenol*	94	3.944	3.934	(0.927)	903834	80.0000	72.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
41	Aniline	93	3.903	3.893	(0.917)	1155919	80.0000	73.18
4	bis(2-Chloroethyl)ether	93	3.996	3.986	(0.939)	774618	80.0000	70.66
5	2-Chlorophenol	128	4.038	4.038	(0.949)	681817	80.0000	74.25
6	1,3-Dichlorobenzene	146	4.203	4.204	(0.988)	681867	80.0000	68.81
9	1,4-Dichlorobenzene*	146	4.276	4.266	(1.005)	692016	80.0000	68.03
10	Benzyl Alcohol	108	4.494	4.494	(1.056)	449550	80.0000	74.73
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.061)	632047	80.0000	67.74
12	2-Methylphenol	108	4.701	4.701	(1.105)	602552	80.0000	71.47
13	bis(2-Chloroisopropyl)ether	45	4.711	4.711	(1.107)	1085114	80.0000	65.02
14	4-Methylphenol	108	4.908	4.908	(1.153)	604749	80.0000	69.70
15	N-Nitrosodipropylamine**	70	4.898	4.888	(1.151)	490452	80.0000	71.04
16	Hexachloroethane	117	4.908	4.908	(1.153)	278596	80.0000	66.78
18	Nitrobenzene	77	5.043	5.043	(0.853)	781562	80.0000	80.77
19	Isophorone	82	5.354	5.354	(0.905)	1433712	80.0000	81.23
20	2-Nitrophenol*	139	5.457	5.457	(0.923)	327482	80.0000	85.88
21	2,4-Dimethylphenol	122	5.592	5.582	(0.946)	591941	80.0000	81.46
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.963)	869238	80.0000	77.85
24	Benzoic Acid	122	5.820	5.789	(0.984)	339911	80.0000	88.16
25	2,4-Dichlorophenol*	162	5.789	5.779	(0.979)	443104	80.0000	80.56
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.993)	530385	80.0000	75.46
28	Naphthalene	128	5.934	5.934	(1.004)	1802410	80.0000	73.02
29	4-Chloroaniline	127	6.069	6.069	(1.026)	812188	80.0000	77.50
30	Hexachlorobutadiene*	225	6.203	6.204	(1.049)	274162	80.0000	76.53
32	4-Chloro-3-Methylphenol*	107	6.742	6.743	(1.140)	537028	80.0000	81.31
33	2-Methylnaphthalene	142	6.825	6.815	(1.154)	1056218	80.0000	74.60
145	1-Methylnaphthalene	142	6.950	6.950	(1.175)	1082905	80.0000	73.53
35	Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	299026	80.0000	83.31
36	2,4,6-Trichlorophenol*	196	7.240	7.240	(0.892)	304619	80.0000	83.92
37	2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	307259	80.0000	79.44
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	951200	80.0000	75.66
40	2-Nitroaniline	65	7.613	7.613	(0.937)	416440	80.0000	83.96
46	3-Nitroaniline	138	8.131	8.131	(1.001)	321261	80.0000	79.11
42	Dimethylphthalate	163	7.924	7.914	(0.976)	998207	80.0000	77.86
44	2,6-Dinitrotoluene	165	7.986	7.976	(0.983)	266612	80.0000	83.97
45	Acenaphthylene	152	7.934	7.924	(0.977)	1555755	80.0000	77.09
48	Acenaphthene*	154	8.162	8.162	(1.005)	913453	80.0000	73.57
49	2,4-Dinitrophenol**	184	8.255	8.256	(1.017)	144745	80.0000	97.68
50	4-Nitrophenol**	109	8.411	8.411	(1.036)	189049	80.0000	86.06
52	2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	346171	80.0000	83.58
51	Dibenzofuran	168	8.359	8.359	(1.029)	1266315	80.0000	74.31
56	Diethylphthalate	149	8.794	8.784	(1.083)	1067979	80.0000	78.01
57	Fluorene	166	8.774	8.774	(1.080)	994189	80.0000	74.02
58	4-Chlorophenyl phenyl ether	204	8.815	8.805	(1.085)	476868	80.0000	75.26
59	4-Nitroaniline	138	8.887	8.877	(1.094)	351779	80.0000	83.25
60	4,6-Dinitro-2-methylphenol	198	8.929	8.929	(0.903)	173591	80.0000	85.58
61	N-nitrosodiphenylamine*	169	8.970	8.971	(0.907)	839726	80.0000	72.66
65	4-Bromophenyl phenyl ether	248	9.395	9.385	(0.950)	276747	80.0000	74.99(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
66	Hexachlorobenzene	284	9.540	9.530	(0.964)	319374	80.0000	73.80
144	Carbazole	167	10.193	10.193	(2.395)	1413820	80.0000	69.05
68	Pentachlorophenol*	266	9.768	9.769	(0.987)	152706	80.0000	82.17
72	Phenanthrene	178	9.913	9.914	(1.002)	1518234	80.0000	68.74(H)
73	Anthracene	178	9.965	9.965	(1.007)	1552873	80.0000	73.21
78	Di-n-butylphthalate	149	10.753	10.753	(1.087)	1829801	80.0000	79.26
80	Fluoranthene*	202	11.344	11.344	(1.147)	1451682	80.0000	72.16
81	Pyrene	202	11.613	11.613	(0.868)	1533555	80.0000	75.24
85	Butyl benzyl phthalate	149	12.691	12.691	(0.949)	784174	80.0000	91.05
89	3 3'-Dichlorobenzidine	252	13.406	13.396	(1.002)	487660	80.0000	83.36
88	Benzo(a)Anthracene	228	13.354	13.344	(0.998)	1511772	80.0000	83.34
91	Chrysene	228	13.416	13.416	(1.003)	1390370	80.0000	71.12
93	bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	1090234	80.0000	90.73
94	Di-n-octyl phthalate*	149	14.805	14.805	(0.937)	1783149	80.0000	97.49
95	Benzo(b)fluoranthene	252	15.167	15.168	(0.960)	1381028	80.0000	80.46
96	Benzo(k)fluoranthene	252	15.219	15.209	(0.963)	1605937	80.0000	85.14
97	Benzo(e)pyrene	252	15.623	15.613	(0.989)	1270079	80.0000	81.64
98	Benzo(a)pyrene*	252	15.706	15.696	(0.994)	1380539	80.0000	81.74
103	Indeno(1,2,3-cd)pyrene	276	17.541	17.530	(1.110)	1272345	80.0000	89.44
104	Dibenzo(a,h)anthracene	278	17.603	17.593	(1.114)	1315821	80.0000	88.31
105	Benzo(g,h,i)perylene	276	17.934	17.914	(1.135)	1409023	80.0000	83.63

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071613.d
Lab Smp Id: 1685-171-80
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: Level 7
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	397545	15.39
27 Naphthalene-d8	803185	401592	1606370	858307	6.86
47 Acenaphthene-d10	364531	182266	729062	395160	8.40
71 Phenanthrene-d10	686990	343495	1373980	774099	12.68
90 Chrysene-d12	579675	289838	1159350	604386	4.26
99 Perylene-d12	439467	219734	878934	461376	4.99

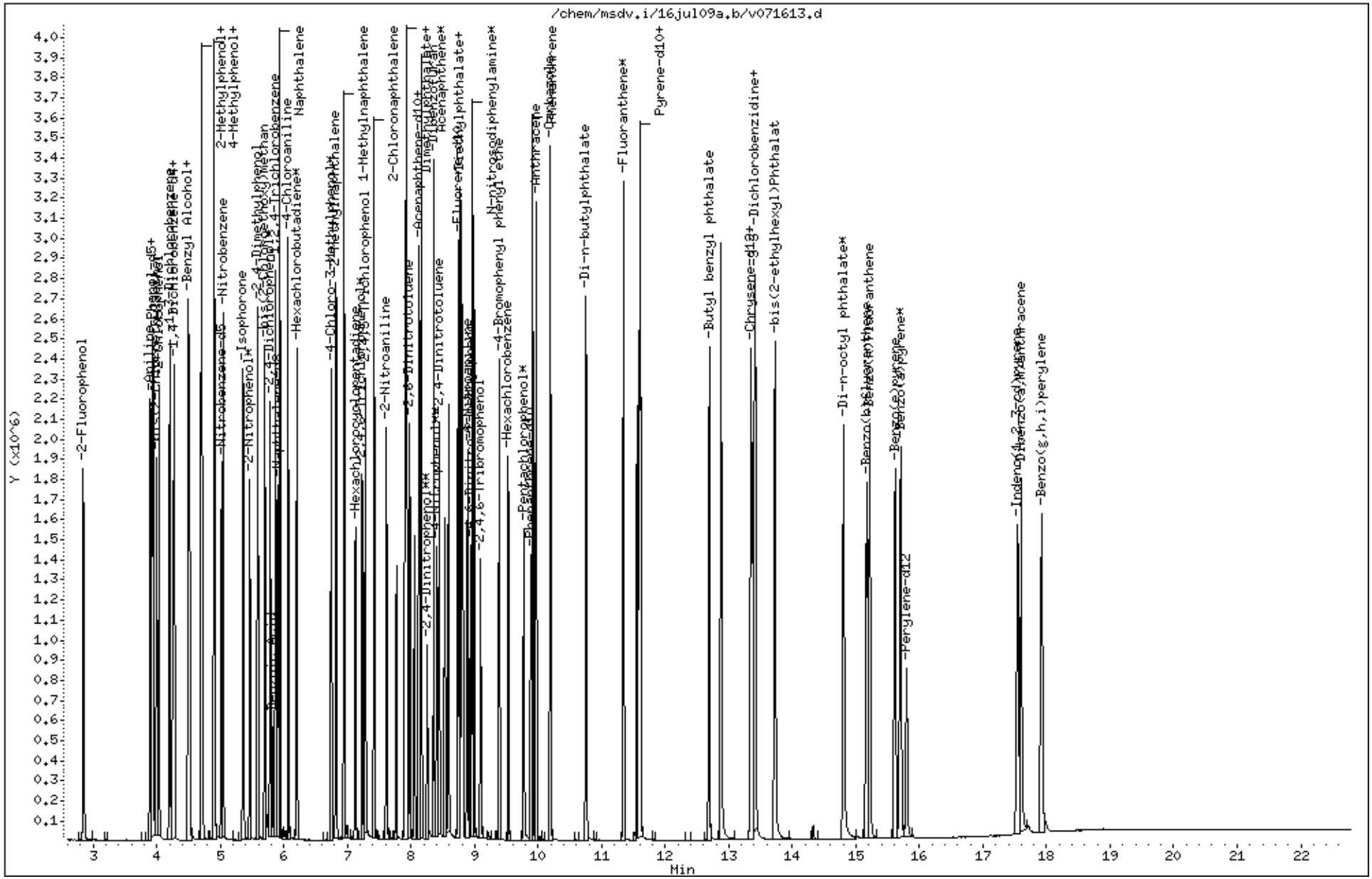
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.26	0.24
27 Naphthalene-d8	5.91	5.41	6.41	5.91	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.89	0.10
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.80	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.

0183

Data File: /chem/msdv.i/16jul09a.b/v071613.d
Date : 16-JUL-2009 17:51
Client ID: Level 7
Sample Info: ;1685-171-80;Level 7
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071614.d
Lab Smp Id: 1685-171-100 Client Smp ID: Level 8
Inj Date : 16-JUL-2009 18:19
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-100;Level 8
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:41 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 18:19 Cal File: v071614.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.836	2.846	(0.666)	847723	100.000	90.98
$ 2 Phenol-d5	99	3.924	3.924	(0.922)	930208	100.000	87.80
$ 17 Nitrobenzene-d5	82	5.022	5.012	(0.849)	911625	100.000	103.8
$ 62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	182916	100.000	108.5
$ 147 Fluorene-d10	176	8.742	8.743	(1.077)	1063054	100.000	94.00
$ 148 Pyrene-d10	212	11.592	11.582	(0.867)	1336344	100.000	95.96
* 7 1,4-Dichlorobenzene-d4	150	4.255	4.245	(1.000)	402708	40.0000	
* 27 Naphthalene-d8	136	5.913	5.913	(1.000)	847803	40.0000	
* 47 Acenaphthene-d10	164	8.121	8.121	(1.000)	396352	40.0000	
* 71 Phenanthrene-d10	188	9.893	9.883	(1.000)	749459	40.0000	
* 90 Chrysene-d12	240	13.375	13.375	(1.000)	596809	40.0000	
* 99 Perylene-d12	264	15.800	15.789	(1.000)	462273	40.0000	
3 Phenol*	94	3.944	3.934	(0.927)	1126390	100.000	89.69

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
41	Aniline	93	3.903	3.893	(0.917)	1433276	100.000	89.58
4	bis(2-Chloroethyl)ether	93	3.996	3.986	(0.939)	944488	100.000	85.05
5	2-Chlorophenol	128	4.038	4.038	(0.949)	833262	100.000	89.58
6	1,3-Dichlorobenzene	146	4.203	4.204	(0.988)	835985	100.000	83.28
9	1,4-Dichlorobenzene*	146	4.276	4.266	(1.005)	853146	100.000	82.80
10	Benzyl Alcohol	108	4.494	4.494	(1.056)	570266	100.000	93.58
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.061)	767509	100.000	81.20
12	2-Methylphenol	108	4.701	4.701	(1.105)	731145	100.000	85.61
13	bis(2-Chloroisopropyl)ether	45	4.711	4.711	(1.107)	1288040	100.000	76.18
14	4-Methylphenol	108	4.908	4.908	(1.153)	748543	100.000	85.16
15	N-Nitrosodipropylamine**	70	4.898	4.888	(1.151)	586642	100.000	83.88
16	Hexachloroethane	117	4.908	4.908	(1.153)	331449	100.000	78.43
18	Nitrobenzene	77	5.043	5.043	(0.853)	947603	100.000	99.15
19	Isophorone	82	5.364	5.354	(0.907)	1797092	100.000	103.1
20	2-Nitrophenol*	139	5.457	5.457	(0.923)	418990	100.000	111.2
21	2,4-Dimethylphenol	122	5.592	5.582	(0.946)	722815	100.000	100.7
23	bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.963)	1083656	100.000	98.26
24	Benzoic Acid	122	5.830	5.789	(0.986)	439460	100.000	115.4
25	2,4-Dichlorophenol*	162	5.789	5.779	(0.979)	554414	100.000	102.0
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.993)	634981	100.000	91.46
28	Naphthalene	128	5.934	5.934	(1.004)	2219826	100.000	91.05
29	4-Chloroaniline	127	6.069	6.069	(1.026)	997633	100.000	96.38
30	Hexachlorobutadiene*	225	6.204	6.204	(1.049)	333447	100.000	94.23
32	4-Chloro-3-Methylphenol*	107	6.742	6.743	(1.140)	685683	100.000	105.1
33	2-Methylnaphthalene	142	6.825	6.815	(1.154)	1323565	100.000	94.64
145	1-Methylnaphthalene	142	6.950	6.950	(1.175)	1324955	100.000	91.08
35	Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	388551	100.000	107.9
36	2,4,6-Trichlorophenol*	196	7.240	7.240	(0.892)	387611	100.000	106.5
37	2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	379477	100.000	97.81
39	2-Chloronaphthalene	162	7.416	7.416	(0.913)	1163990	100.000	92.30
40	2-Nitroaniline	65	7.613	7.613	(0.937)	545266	100.000	109.6
46	3-Nitroaniline	138	8.141	8.131	(1.003)	441805	100.000	108.5
42	Dimethylphthalate	163	7.924	7.914	(0.976)	1176067	100.000	91.45
44	2,6-Dinitrotoluene	165	7.986	7.976	(0.983)	336642	100.000	105.7
45	Acenaphthylene	152	7.934	7.924	(0.977)	1873132	100.000	92.54
48	Acenaphthene*	154	8.162	8.162	(1.005)	1118319	100.000	89.80
49	2,4-Dinitrophenol**	184	8.255	8.256	(1.017)	186635	100.000	123.7
50	4-Nitrophenol**	109	8.411	8.411	(1.036)	241163	100.000	109.4
52	2,4-Dinitrotoluene	165	8.452	8.442	(1.041)	444052	100.000	106.9
51	Dibenzofuran	168	8.359	8.359	(1.029)	1556335	100.000	91.05
56	Diethylphthalate	149	8.794	8.784	(1.083)	1309871	100.000	95.39
57	Fluorene	166	8.784	8.774	(1.082)	1228474	100.000	91.18
58	4-Chlorophenyl phenyl ether	204	8.815	8.805	(1.085)	575403	100.000	90.54
59	4-Nitroaniline	138	8.888	8.877	(1.094)	429828	100.000	101.4
60	4,6-Dinitro-2-methylphenol	198	8.939	8.929	(0.904)	237014	100.000	120.7
61	N-nitrosodiphenylamine*	169	8.970	8.971	(0.907)	1055361	100.000	94.32
65	4-Bromophenyl phenyl ether	248	9.395	9.385	(0.950)	345672	100.000	96.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
66	Hexachlorobenzene	284	9.540	9.530	(0.964)	400042	100.000	95.48
144	Carbazole	167	10.193	10.193	(2.395)	1769754	100.000	85.32
68	Pentachlorophenol*	266	9.768	9.769	(0.987)	198911	100.000	110.6
72	Phenanthrene	178	9.913	9.914	(1.002)	1901301	100.000	88.91(H)
73	Anthracene	178	9.976	9.965	(1.008)	1946163	100.000	94.77
78	Di-n-butylphthalate	149	10.763	10.753	(1.088)	2314782	100.000	103.6
80	Fluoranthene*	202	11.344	11.344	(1.147)	1803133	100.000	92.58
81	Pyrene	202	11.613	11.613	(0.868)	1875416	100.000	93.18
85	Butyl benzyl phthalate	149	12.691	12.691	(0.949)	993606	100.000	116.8
89	3 3'-Dichlorobenzidine	252	13.406	13.396	(1.002)	613490	100.000	106.2
88	Benzo(a)Anthracene	228	13.354	13.344	(0.998)	1850482	100.000	103.3
91	Chrysene	228	13.427	13.416	(1.004)	1703610	100.000	88.25
93	bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	1390197	100.000	117.2
94	Di-n-octyl phthalate*	149	14.805	14.805	(0.937)	2290333	100.000	125.0
95	Benzo(b)fluoranthene	252	15.178	15.168	(0.961)	1892291	100.000	110.0
96	Benzo(k)fluoranthene	252	15.219	15.209	(0.963)	1810385	100.000	95.80
97	Benzo(e)pyrene	252	15.624	15.613	(0.989)	1577992	100.000	101.2
98	Benzo(a)pyrene*	252	15.706	15.696	(0.994)	1708808	100.000	101.0
103	Indeno(1,2,3-cd)pyrene	276	17.551	17.530	(1.111)	1585558	100.000	111.2
104	Dibenzo(a,h)anthracene	278	17.613	17.593	(1.115)	1521063	100.000	101.9
105	Benzo(g,h,i)perylene	276	17.934	17.914	(1.135)	1745100	100.000	103.4

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 17-Jul-2009 09:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071614.d
Lab Smp Id: 1685-171-100
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: Level 8
Level: LOW
Sample Type: PUF/XAD

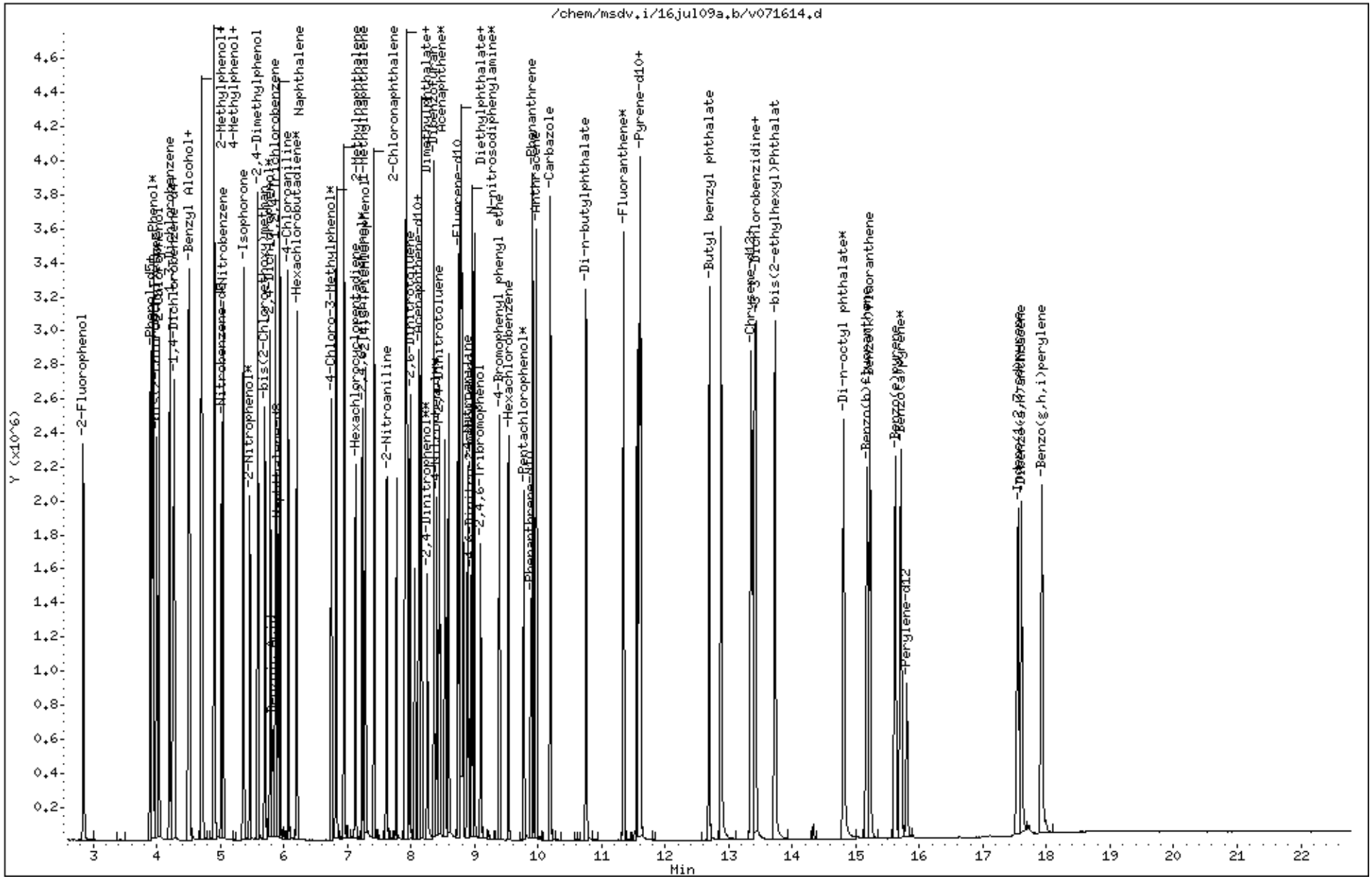
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	402708	16.89
27 Naphthalene-d8	803185	401592	1606370	847803	5.56
47 Acenaphthene-d10	364531	182266	729062	396352	8.73
71 Phenanthrene-d10	686990	343495	1373980	749459	9.09
90 Chrysene-d12	579675	289838	1159350	596809	2.96
99 Perylene-d12	439467	219734	878934	462273	5.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.26	0.24
27 Naphthalene-d8	5.91	5.41	6.41	5.91	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.89	0.10
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.80	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.

Data File: /chem/msdv.i/16jul09a.b/v071614.d
Date : 16-JUL-2009 18:19
Client ID: Level 8
Sample Info: ;1685-171-100;Level 8
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



0188

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/16jul09a.b/v071615.d
Lab Smp Id: 1685-171-160 Client Smp ID: Level 9
Inj Date : 16-JUL-2009 18:46
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-160;Level 9
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/16jul09a.b/bnap0716.m
Meth Date : 17-Jul-2009 09:44 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 18:46 Cal File: v071615.d
Als bottle: 12 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.846	2.846	(0.669)	1242551	160.000	125.6
$ 2 Phenol-d5	99	3.934	3.924	(0.924)	1365917	160.000	121.5
$ 17 Nitrobenzene-d5	82	5.022	5.012	(0.849)	1368156	160.000	159.3
$ 62 2,4,6-Tribromophenol	330	9.105	9.095	(1.121)	280377	160.000	167.0(A)
$ 147 Fluorene-d10	176	8.753	8.743	(1.078)	1535377	160.000	136.3
$ 148 Pyrene-d10	212	11.592	11.582	(0.866)	1941276	160.000	141.7
* 7 1,4-Dichlorobenzene-d4	150	4.255	4.245	(1.000)	427418	40.0000	
* 27 Naphthalene-d8	136	5.913	5.913	(1.000)	828900	40.0000	
* 47 Acenaphthene-d10	164	8.121	8.121	(1.000)	394653	40.0000	
* 71 Phenanthrene-d10	188	9.893	9.883	(1.000)	738514	40.0000	
* 90 Chrysene-d12	240	13.385	13.375	(1.000)	587012	40.0000	
* 99 Perylene-d12	264	15.800	15.789	(1.000)	456609	40.0000	
3 Phenol*	94	3.955	3.934	(0.929)	1620047	160.000	121.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
41	Aniline	93	3.903	3.893	(0.917)	2107007	160.000	124.1
4	bis(2-Chloroethyl)ether	93	3.996	3.986	(0.939)	1418135	160.000	120.3
5	2-Chlorophenol	128	4.038	4.038	(0.949)	1213828	160.000	122.9
6	1,3-Dichlorobenzene	146	4.203	4.204	(0.988)	1195269	160.000	112.2
9	1,4-Dichlorobenzene*	146	4.276	4.266	(1.005)	1220890	160.000	111.6
10	Benzyl Alcohol	108	4.504	4.494	(1.058)	797429	160.000	123.3
11	1,2-Dichlorobenzene	146	4.514	4.514	(1.061)	1045757	160.000	104.2
12	2-Methylphenol	108	4.711	4.701	(1.107)	1063442	160.000	117.3
13	bis(2-Chloroisopropyl)ether	45	4.711	4.711	(1.107)	1710466	160.000	95.32
14	4-Methylphenol	108	4.919	4.908	(1.156)	1039439	160.000	111.4
15	N-Nitrosodipropylamine**	70	4.898	4.888	(1.151)	786831	160.000	106.0
16	Hexachloroethane	117	4.908	4.908	(1.153)	447952	160.000	99.87
18	Nitrobenzene	77	5.053	5.043	(0.855)	1476766	160.000	158.0
19	Isophorone	82	5.375	5.354	(0.909)	2697751	160.000	158.3
20	2-Nitrophenol*	139	5.468	5.457	(0.925)	632278	160.000	171.7(A)
21	2,4-Dimethylphenol	122	5.592	5.582	(0.946)	1034609	160.000	147.4
23	bis(2-Chloroethoxy)methane	93	5.706	5.696	(0.965)	1593496	160.000	147.8
24	Benzoic Acid	122	5.862	5.789	(0.991)	708157	160.000	190.2(A)
25	2,4-Dichlorophenol*	162	5.789	5.779	(0.979)	770047	160.000	145.0
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.993)	909391	160.000	134.0
28	Naphthalene	128	5.944	5.934	(1.005)	3242606	160.000	136.0
29	4-Chloroaniline	127	6.079	6.069	(1.028)	1514189	160.000	149.6
30	Hexachlorobutadiene*	225	6.204	6.204	(1.049)	476405	160.000	137.7
32	4-Chloro-3-Methylphenol*	107	6.753	6.743	(1.142)	1030428	160.000	161.6(A)
33	2-Methylnaphthalene	142	6.825	6.815	(1.154)	1835132	160.000	134.2
145	1-Methylnaphthalene	142	6.960	6.950	(1.177)	1939513	160.000	136.4
35	Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	572427	160.000	159.7
36	2,4,6-Trichlorophenol*	196	7.240	7.240	(0.892)	551386	160.000	152.1
37	2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	568909	160.000	147.3
39	2-Chloronaphthalene	162	7.426	7.416	(0.914)	1699445	160.000	135.3
40	2-Nitroaniline	65	7.623	7.613	(0.939)	806733	160.000	162.9(A)
46	3-Nitroaniline	138	8.141	8.131	(1.003)	617251	160.000	152.2
42	Dimethylphthalate	163	7.924	7.914	(0.976)	1641973	160.000	128.2
44	2,6-Dinitrotoluene	165	7.986	7.976	(0.983)	462545	160.000	145.9
45	Acenaphthylene	152	7.934	7.924	(0.977)	2450212	160.000	121.6
48	Acenaphthene*	154	8.173	8.162	(1.006)	1609411	160.000	129.8
49	2,4-Dinitrophenol**	184	8.266	8.256	(1.018)	312907	160.000	208.1(A)
50	4-Nitrophenol**	109	8.421	8.411	(1.037)	385103	160.000	175.5(A)
52	2,4-Dinitrotoluene	165	8.463	8.442	(1.042)	668019	160.000	161.5(A)
51	Dibenzofuran	168	8.369	8.359	(1.031)	2313336	160.000	135.9
56	Diethylphthalate	149	8.794	8.784	(1.083)	1830750	160.000	133.9
57	Fluorene	166	8.784	8.774	(1.082)	1675788	160.000	124.9
58	4-Chlorophenyl phenyl ether	204	8.815	8.805	(1.085)	765182	160.000	120.9
59	4-Nitroaniline	138	8.898	8.877	(1.096)	688340	160.000	163.1(A)
60	4,6-Dinitro-2-methylphenol	198	8.950	8.929	(0.905)	375039	160.000	193.8(A)
61	N-nitrosodiphenylamine*	169	8.981	8.971	(0.908)	1438357	160.000	130.4
65	4-Bromophenyl phenyl ether	248	9.395	9.385	(0.950)	494430	160.000	140.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
66	Hexachlorobenzene	284	9.540	9.530	(0.964)	561330	160.000	136.0
144	Carbazole	167	10.204	10.193	(2.398)	2575475	160.000	117.0
68	Pentachlorophenol*	266	9.779	9.769	(0.988)	313055	160.000	176.6(A)
72	Phenanthrene	178	9.924	9.914	(1.003)	2745251	160.000	130.3(H)
73	Anthracene	178	9.976	9.965	(1.008)	2689989	160.000	132.9
78	Di-n-butylphthalate	149	10.763	10.753	(1.088)	3339845	160.000	151.6
80	Fluoranthene*	202	11.354	11.344	(1.148)	2629984	160.000	137.0
81	Pyrene	202	11.623	11.613	(0.868)	2641173	160.000	133.4
85	Butyl benzyl phthalate	149	12.691	12.691	(0.948)	1476170	160.000	176.5(A)
89	3 3'-Dichlorobenzidine	252	13.406	13.396	(1.002)	860180	160.000	151.4
88	Benzo(a)Anthracene	228	13.364	13.344	(0.998)	2739772	160.000	155.5
91	Chrysene	228	13.427	13.416	(1.003)	2454201	160.000	129.3
93	bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	2056005	160.000	176.2(A)
94	Di-n-octyl phthalate*	149	14.815	14.805	(0.938)	3494003	160.000	193.0(A)
95	Benzo(b)fluoranthene	252	15.188	15.168	(0.961)	2964213	160.000	174.5(A)
96	Benzo(k)fluoranthene	252	15.230	15.209	(0.964)	2416024	160.000	129.4
97	Benzo(e)pyrene	252	15.634	15.613	(0.990)	2387474	160.000	155.1
98	Benzo(a)pyrene*	252	15.717	15.696	(0.995)	2586935	160.000	154.8
103	Indeno(1,2,3-cd)pyrene	276	17.561	17.530	(1.111)	2538772	160.000	180.3(A)
104	Dibenzo(a,h)anthracene	278	17.624	17.593	(1.115)	2346883	160.000	159.2
105	Benzo(g,h,i)perylene	276	17.955	17.914	(1.136)	2678404	160.000	160.6(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Report Date: 17-Jul-2009 09:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071615.d
Lab Smp Id: 1685-171-160
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/16jul09a.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 16-JUL-2009
Calibration Time: 17:23
Client Smp ID: Level 9
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	344510	172255	689020	427418	24.07
27 Naphthalene-d8	803185	401592	1606370	828900	3.20
47 Acenaphthene-d10	364531	182266	729062	394653	8.26
71 Phenanthrene-d10	686990	343495	1373980	738514	7.50
90 Chrysene-d12	579675	289838	1159350	587012	1.27
99 Perylene-d12	439467	219734	878934	456609	3.90

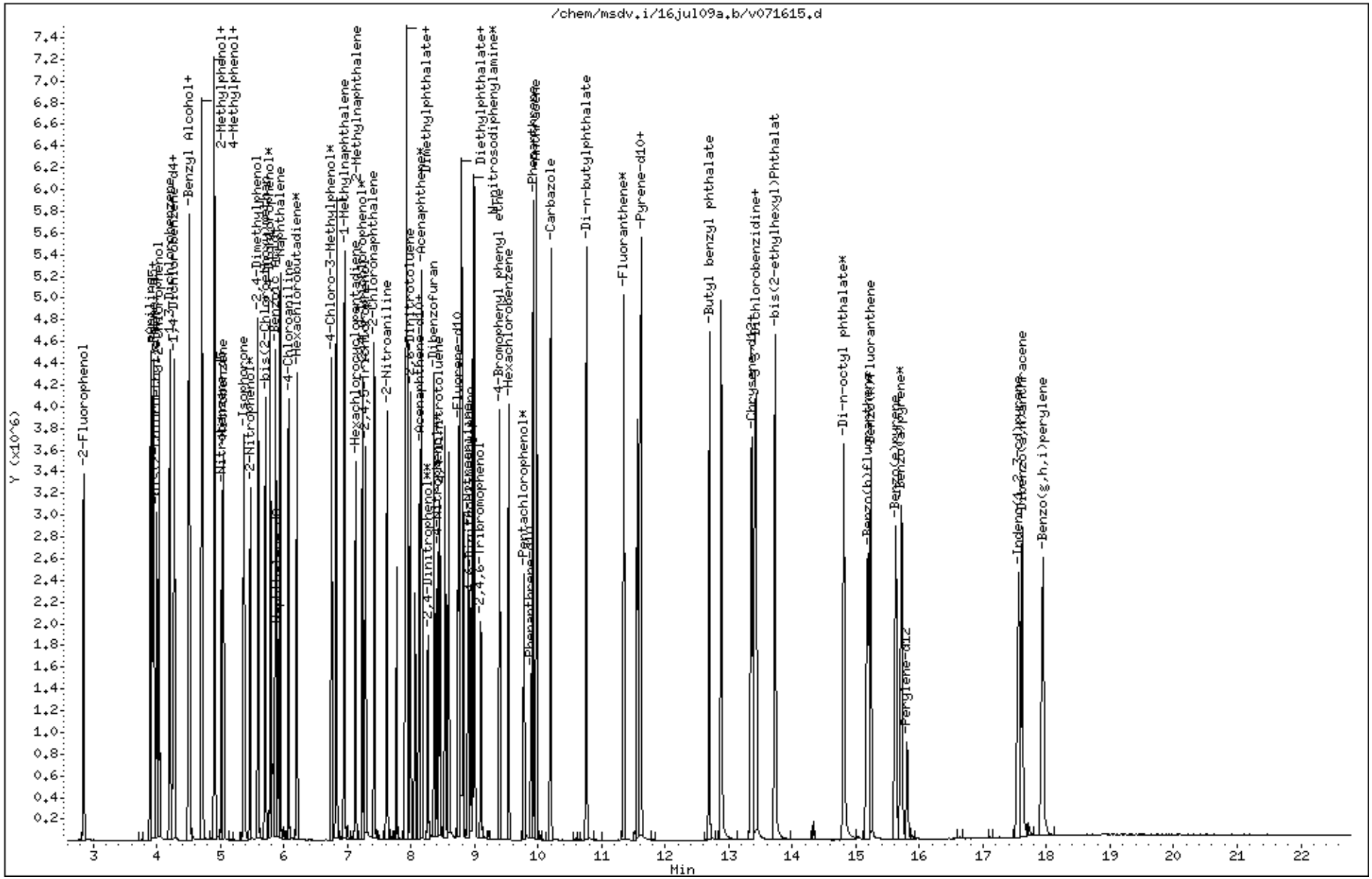
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.25	3.75	4.75	4.26	0.24
27 Naphthalene-d8	5.91	5.41	6.41	5.91	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.89	0.10
90 Chrysene-d12	13.37	12.87	13.87	13.39	0.08
99 Perylene-d12	15.79	15.29	16.29	15.80	0.07

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.

0193

Data File: /chem/msdv.i/16jul09a.b/v071615.d
Date : 16-JUL-2009 18:46
Client ID: Level 9
Sample Info: ;1685-171-160;Level 9
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 17-JUL-2009 11:17
Lab File ID: v071703.d Init. Cal. Date(s): 16-JUL-2009 16-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 15:05 18:46
Lab Sample ID: 1685-171-50 Quant Type: ISTD
Method: /chem/msdv.i/17jul09.b/bnap0716.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	0.92550	0.94627	0.050	-2.24425	30.00000	Averaged
$ 2 Phenol-d5	1.05230	1.04987	0.050	0.23066	30.00000	Averaged
3 Phenol*	1.24740	1.27254	0.050	-2.01582	30.00000	Averaged
41 Aniline	1.58922	1.60856	0.050	-1.21718	30.00000	Averaged
4 bis(2-Chloroethyl)ether	1.10301	1.08137	0.050	1.96214	30.00000	Averaged
5 2-Chlorophenol	0.92397	0.93970	0.050	-1.70227	30.00000	Averaged
6 1,3-Dichlorobenzene	0.99701	0.95028	0.050	4.68635	30.00000	Averaged
9 1,4-Dichlorobenzene*	1.02344	0.98688	0.050	3.57246	30.00000	Averaged
10 Benzyl Alcohol	0.60530	0.64497	0.050	-6.55414	30.00000	Averaged
11 1,2-Dichlorobenzene	0.93885	0.90714	0.050	3.37772	30.00000	Averaged
12 2-Methylphenol	0.84827	0.86834	0.050	-2.36570	30.00000	Averaged
13 bis(2-Chloroisopropyl)ether	1.67931	1.63088	0.050	2.88401	30.00000	Averaged
14 4-Methylphenol	0.87302	0.90568	0.050	-3.74070	30.00000	Averaged
15 N-Nitrosodipropylamine**	0.69463	0.70683	0.050	-1.75542	30.00000	Averaged
16 Hexachloroethane	0.41976	0.40923	0.050	2.50955	30.00000	Averaged
$ 17 Nitrobenzene-d5	0.41448	0.43271	0.050	-4.39810	30.00000	Averaged
18 Nitrobenzene	0.45093	0.46373	0.050	-2.83804	30.00000	Averaged
19 Isophorone	0.82250	0.86184	0.050	-4.78326	30.00000	Averaged
20 2-Nitrophenol*	0.17771	0.19222	0.050	-8.16203	30.00000	Averaged
21 2,4-Dimethylphenol	0.33866	0.35064	0.050	-3.53769	30.00000	Averaged
24 Benzoic Acid	0.17968	0.17578	0.050	2.16664	30.00000	Averaged
23 bis(2-Chloroethoxy)methane	0.52032	0.53506	0.050	-2.83183	30.00000	Averaged
25 2,4-Dichlorophenol*	0.25632	0.26672	0.050	-4.05711	30.00000	Averaged
26 1,2,4-Trichlorobenzene	0.32758	0.32774	0.050	-0.04857	30.00000	Averaged
28 Naphthalene	1.15026	1.16145	0.050	-0.97346	30.00000	Averaged
29 4-Chloroaniline	0.48836	0.50157	0.050	-2.70407	30.00000	Averaged
30 Hexachlorobutadiene*	0.16695	0.16389	0.050	1.83523	30.00000	Averaged
32 4-Chloro-3-Methylphenol*	0.30780	0.31882	0.050	-3.58083	30.00000	Averaged
33 2-Methylnaphthalene	0.65981	0.66438	0.050	-0.69217	30.00000	Averaged
145 1-Methylnaphthalene	0.68637	0.69095	0.050	-0.66600	30.00000	Averaged
35 Hexachlorocyclopentadiene**	0.36331	0.37356	0.050	-2.81995	30.00000	Averaged
36 2,4,6-Trichlorophenol*	0.36744	0.38923	0.050	-5.92923	30.00000	Averaged
37 2,4,5-Trichlorophenol	0.39154	0.44287	0.050	-13.10848	30.00000	Averaged
39 2-Chloronaphthalene	1.27263	1.33720	0.050	-5.07394	30.00000	Averaged
40 2-Nitroaniline	0.50206	0.54858	0.050	-9.26579	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 17-JUL-2009 11:17
Lab File ID: v071703.d Init. Cal. Date(s): 16-JUL-2009 16-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 15:05 18:46
Lab Sample ID: 1685-171-50 Quant Type: ISTD
Method: /chem/msdv.i/17jul09.b/bnap0716.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
42 Dimethylphthalate	1.29779	1.33431	0.050	-2.81383	30.00000	Averaged
44 2,6-Dinitrotoluene	0.32140	0.33846	0.050	-5.30745	30.00000	Averaged
45 Acenaphthylene	2.04269	2.11270	0.050	-3.42738	30.00000	Averaged
46 3-Nitroaniline	0.41107	0.43756	0.050	-6.44442	30.00000	Averaged
48 Acenaphthene*	1.25679	1.28291	0.050	-2.07840	30.00000	Averaged
49 2,4-Dinitrophenol**	0.15312	0.12419	0.050	18.89365	30.00000	Averaged
50 4-Nitrophenol**	0.22237	0.21533	0.050	3.16335	30.00000	Averaged
51 Dibenzofuran	1.72505	1.74926	0.050	-1.40352	30.00000	Averaged
52 2,4-Dinitrotoluene	0.41922	0.44679	0.050	-6.57456	30.00000	Averaged
56 Diethylphthalate	1.38575	1.44889	0.050	-4.55691	30.00000	Averaged
$ 147 Fluorene-d10	1.14136	1.16044	0.050	-1.67128	30.00000	Averaged
58 4-Chlorophenyl phenyl ether	0.64141	0.63766	0.050	0.58426	30.00000	Averaged
57 Fluorene	1.35965	1.37645	0.050	-1.23559	30.00000	Averaged
59 4-Nitroaniline	0.42773	0.43819	0.050	-2.44548	30.00000	Averaged
60 4,6-Dinitro-2-methylphenol	0.10481	0.11114	0.050	-6.03582	30.00000	Averaged
61 N-nitrosodiphenylamine*	0.59718	0.64122	0.050	-7.37407	30.00000	Averaged
$ 62 2,4,6-Tribromophenol	0.17011	0.18453	0.050	-8.47853	30.00000	Averaged
65 4-Bromophenyl phenyl ether	0.19069	0.19325	0.050	-1.34251	30.00000	Averaged
66 Hexachlorobenzene	0.22362	0.22003	0.050	1.60459	30.00000	Averaged
68 Pentachlorophenol*	0.09603	0.10126	0.050	-5.44494	30.00000	Averaged
72 Phenanthrene	1.14136	1.12434	0.050	1.49115	30.00000	Averaged
73 Anthracene	1.09597	1.13688	0.050	-3.73191	30.00000	Averaged
144 Carbazole	2.06021	2.06942	0.050	-0.44689	30.00000	Averaged
78 Di-n-butylphthalate	1.19285	1.29923	0.050	-8.91804	30.00000	Averaged
$ 83 Fluoranthene-d10	0.85103	0.84016	0.050	1.27841	30.00000	Averaged
80 Fluoranthene*	1.03951	1.03902	0.050	0.04682	30.00000	Averaged
$ 148 Pyrene-d10	0.93334	0.96088	0.050	-2.95058	30.00000	Averaged
81 Pyrene	1.34888	1.37297	0.050	-1.78591	30.00000	Averaged
85 Butyl benzyl phthalate	0.57001	0.61533	0.050	-7.95170	30.00000	Averaged
89 3 3'-Dichlorobenzidine	0.38717	0.40238	0.050	-3.92688	30.00000	Averaged
88 Benzo(a)Anthracene	1.20050	1.27746	0.050	-6.41075	30.00000	Averaged
91 Chrysene	1.29377	1.22529	0.050	5.29346	30.00000	Averaged
93 bis(2-ethylhexyl)Phthalate	0.79529	0.87918	0.050	-10.54850	30.00000	Averaged
94 Di-n-octyl phthalate*	1.58576	1.85344	0.050	-16.88027	30.00000	Averaged
95 Benzo(b)fluoranthene	1.48815	1.71552	0.050	-15.27882	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 17-JUL-2009 11:17
Lab File ID: v071703.d Init. Cal. Date(s): 16-JUL-2009 16-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 15:05 18:46
Lab Sample ID: 1685-171-50 Quant Type: ISTD
Method: /chem/msdv.i/17jul09.b/bnap0716.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
96 Benzo(k)fluoranthene	1.63520	1.72266	0.050	-5.34862	30.00000	Averaged
97 Benzo(e)pyrene	1.34870	1.47782	0.050	-9.57361	30.00000	Averaged
$ 101 Benzo(a)pyrene-d12	0.80858	0.92767	0.050	-14.72835	30.00000	Averaged
98 Benzo(a)pyrene*	1.46424	1.63708	0.050	-11.80452	30.00000	Averaged
103 Indeno(1,2,3-cd)pyrene	1.23327	1.41635	0.050	-14.84528	30.00000	Averaged
104 Dibenzo(a,h)anthracene	1.29180	1.32125	0.050	-2.28011	30.00000	Averaged
105 Benzo(g,h,i)perylene	1.46071	1.63110	0.050	-11.66439	30.00000	Averaged

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/17jul09.b/v071703.d
Lab Smp Id: 1685-171-50 Client Smp ID: CCV
Inj Date : 17-JUL-2009 11:17
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-171-50;CCV
Misc Info : ,NOTICS
Comment : HP-5MS 30M X 0.25mm X 0.25u
Method : /chem/msdv.i/17jul09.b/bnap0716.m
Meth Date : 20-Jul-2009 10:04 lzhang Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ccv.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
$	1 2-Fluorophenol	112	2.836	2.836	(0.668)	396580	50.0000	51.12
$	2 Phenol-d5	99	3.924	3.924	(0.924)	439998	50.0000	49.88
	3 Phenol*	94	3.934	3.934	(0.927)	533320	50.0000	51.01
	41 Aniline	93	3.893	3.893	(0.917)	674144	50.0000	50.61
	4 bis(2-Chloroethyl)ether	93	3.986	3.986	(0.939)	453200	50.0000	49.02
	5 2-Chlorophenol	128	4.027	4.027	(0.949)	393825	50.0000	50.85
	6 1,3-Dichlorobenzene	146	4.193	4.193	(0.988)	398262	50.0000	47.66
*	7 1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	335278	40.0000	
	9 1,4-Dichlorobenzene*	146	4.266	4.266	(1.005)	413599	50.0000	48.21
	10 Benzyl Alcohol	108	4.494	4.494	(1.059)	270307	50.0000	53.28
	11 1,2-Dichlorobenzene	146	4.504	4.504	(1.061)	380180	50.0000	48.31
	12 2-Methylphenol	108	4.701	4.701	(1.107)	363919	50.0000	51.18
	13 bis(2-Chloroisopropyl)ether	45	4.701	4.701	(1.107)	683496	50.0000	48.56

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	14 4-Methylphenol	108	4.898	4.898	(1.154)	379569	50.0000	51.87
	15 N-Nitrosodipropylamine**	70	4.887	4.887	(1.151)	296229	50.0000	50.88
	16 Hexachloroethane	117	4.898	4.898	(1.154)	171507	50.0000	48.74
$	17 Nitrobenzene-d5	82	5.012	5.012	(0.849)	418352	50.0000	52.20
	18 Nitrobenzene	77	5.032	5.032	(0.853)	448347	50.0000	51.42
	19 Isophorone	82	5.354	5.354	(0.907)	833251	50.0000	52.39
	20 2-Nitrophenol*	139	5.457	5.457	(0.924)	185842	50.0000	54.08
	21 2,4-Dimethylphenol	122	5.582	5.582	(0.946)	339009	50.0000	51.77
	24 Benzoic Acid	122	5.789	5.789	(0.981)	169952	50.0000	48.92
	23 bis(2-Chloroethoxy)methane	93	5.696	5.696	(0.965)	517307	50.0000	51.42
	25 2,4-Dichlorophenol*	162	5.779	5.779	(0.979)	257872	50.0000	52.03
	26 1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	316863	50.0000	50.02
*	27 Naphthalene-d8	136	5.903	5.903	(1.000)	773459	40.0000	
	28 Naphthalene	128	5.934	5.934	(1.005)	1122921	50.0000	50.49
	29 4-Chloroaniline	127	6.069	6.069	(1.028)	484930	50.0000	51.35
	30 Hexachlorobutadiene*	225	6.203	6.203	(1.051)	158448	50.0000	49.08
	32 4-Chloro-3-Methylphenol*	107	6.742	6.742	(1.142)	308242	50.0000	51.79
	33 2-Methylnaphthalene	142	6.815	6.815	(1.154)	642339	50.0000	50.35
	145 1-Methylnaphthalene	142	6.950	6.950	(1.177)	668023	50.0000	50.33
	35 Hexachlorocyclopentadiene**	237	7.126	7.126	(0.877)	167707	50.0000	51.41
	36 2,4,6-Trichlorophenol*	196	7.229	7.229	(0.890)	174742	50.0000	52.96
	37 2,4,5-Trichlorophenol	196	7.281	7.281	(0.897)	198824	50.0000	56.55
	39 2-Chloronaphthalene	162	7.416	7.416	(0.913)	600330	50.0000	52.54
	40 2-Nitroaniline	65	7.613	7.613	(0.937)	246283	50.0000	54.63
	42 Dimethylphthalate	163	7.913	7.913	(0.974)	599033	50.0000	51.41
	44 2,6-Dinitrotoluene	165	7.976	7.976	(0.982)	151950	50.0000	52.65
	45 Acenaphthylene	152	7.924	7.924	(0.976)	948488	50.0000	51.71
	46 3-Nitroaniline	138	8.131	8.131	(1.001)	196439	50.0000	53.22
*	47 Acenaphthene-d10	164	8.121	8.121	(1.000)	359156	40.0000	
	48 Acenaphthene*	154	8.162	8.162	(1.005)	575955	50.0000	51.04
	49 2,4-Dinitrophenol**	184	8.255	8.255	(1.017)	55756	50.0000	40.55
	50 4-Nitrophenol**	109	8.400	8.400	(1.034)	96672	50.0000	48.42
	51 Dibenzofuran	168	8.359	8.359	(1.029)	785320	50.0000	50.70
	52 2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	200582	50.0000	53.29
	56 Diethylphthalate	149	8.784	8.784	(1.082)	650474	50.0000	52.28
$	147 Fluorene-d10	176	8.742	8.742	(1.077)	520973	50.0000	50.84
	58 4-Chlorophenyl phenyl ether	204	8.805	8.805	(1.084)	286274	50.0000	49.71
	57 Fluorene	166	8.774	8.774	(1.080)	617949	50.0000	50.62
	59 4-Nitroaniline	138	8.877	8.877	(1.093)	196724	50.0000	51.22
	60 4,6-Dinitro-2-methylphenol	198	8.929	8.929	(0.904)	91975	50.0000	53.02
	61 N-nitrosodiphenylamine*	169	8.970	8.970	(0.908)	530652	50.0000	53.69
$	62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	82844	50.0000	54.24
	65 4-Bromophenyl phenyl ether	248	9.385	9.385	(0.950)	159924	50.0000	50.67
	66 Hexachlorobenzene	284	9.530	9.530	(0.964)	182091	50.0000	49.20
	68 Pentachlorophenol*	266	9.768	9.768	(0.988)	83798	50.0000	52.72
*	71 Phenanthrene-d10	188	9.882	9.882	(1.000)	662052	40.0000	
	72 Phenanthrene	178	9.913	9.913	(1.003)	930468	50.0000	49.25(H)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	73 Anthracene	178	9.965	9.965	(1.008)	940838	50.0000	51.86
	144 Carbazole	167	10.193	10.193	(2.401)	867287	50.0000	50.22
	78 Di-n-butylphthalate	149	10.753	10.753	(1.088)	1075197	50.0000	54.46
$	83 Fluoranthene-d10	212	11.323	11.323	(1.146)	695283	50.0000	49.36
	80 Fluoranthene*	202	11.344	11.344	(1.148)	859857	50.0000	49.98
$	148 Pyrene-d10	212	11.592	11.592	(0.867)	662881	50.0000	51.48
	81 Pyrene	202	11.613	11.613	(0.868)	947170	50.0000	50.89
	85 Butyl benzyl phthalate	149	12.691	12.691	(0.949)	424500	50.0000	53.98
	89 3 3'-Dichlorobenzidine	252	13.395	13.395	(1.002)	277586	50.0000	51.96
	88 Benzo(a)Anthracene	228	13.344	13.344	(0.998)	881281	50.0000	53.20
*	90 Chrysene-d12	240	13.375	13.375	(1.000)	551895	40.0000	
	91 Chrysene	228	13.416	13.416	(1.003)	845286	50.0000	47.35
	93 bis(2-ethylhexyl)Phthalate	149	13.727	13.727	(1.026)	606518	50.0000	55.27
	94 Di-n-octyl phthalate*	149	14.805	14.805	(0.946)	948363	50.0000	58.44
	95 Benzo(b)fluoranthene	252	15.168	15.168	(0.969)	877791	50.0000	57.64
	96 Benzo(k)fluoranthene	252	15.209	15.209	(0.972)	881442	50.0000	52.67(H)
	97 Benzo(e)pyrene	252	15.613	15.613	(0.997)	756165	50.0000	54.79(H)
$	101 Benzo(a)pyrene-d12	264	15.655	15.655	(1.000)	474667	50.0000	57.36(H)
	98 Benzo(a)pyrene*	252	15.696	15.696	(1.003)	837656	50.0000	55.90(H)
*	99 Perylene-d12	264	15.789	15.789	(1.000)	409341	40.0000	(H)
	103 Indeno(1,2,3-cd)pyrene	276	17.541	17.541	(1.120)	724711	50.0000	57.42
	104 Dibenzo(a,h)anthracene	278	17.592	17.592	(1.124)	676053	50.0000	51.14
	105 Benzo(g,h,i)perylene	276	17.914	17.914	(1.144)	834593	50.0000	55.83

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071703.d
Lab Smp Id: 1685-171-50
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 17-JUL-2009
Calibration Time: 11:17
Client Smp ID: CCV
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	335278	167639	670556	335278	0.00
27 Naphthalene-d8	773459	386730	1546918	773459	0.00
47 Acenaphthene-d10	359156	179578	718312	359156	0.00
71 Phenanthrene-d10	662052	331026	1324104	662052	0.00
90 Chrysene-d12	551895	275948	1103790	551895	0.00
99 Perylene-d12	409341	204670	818682	409341	0.00

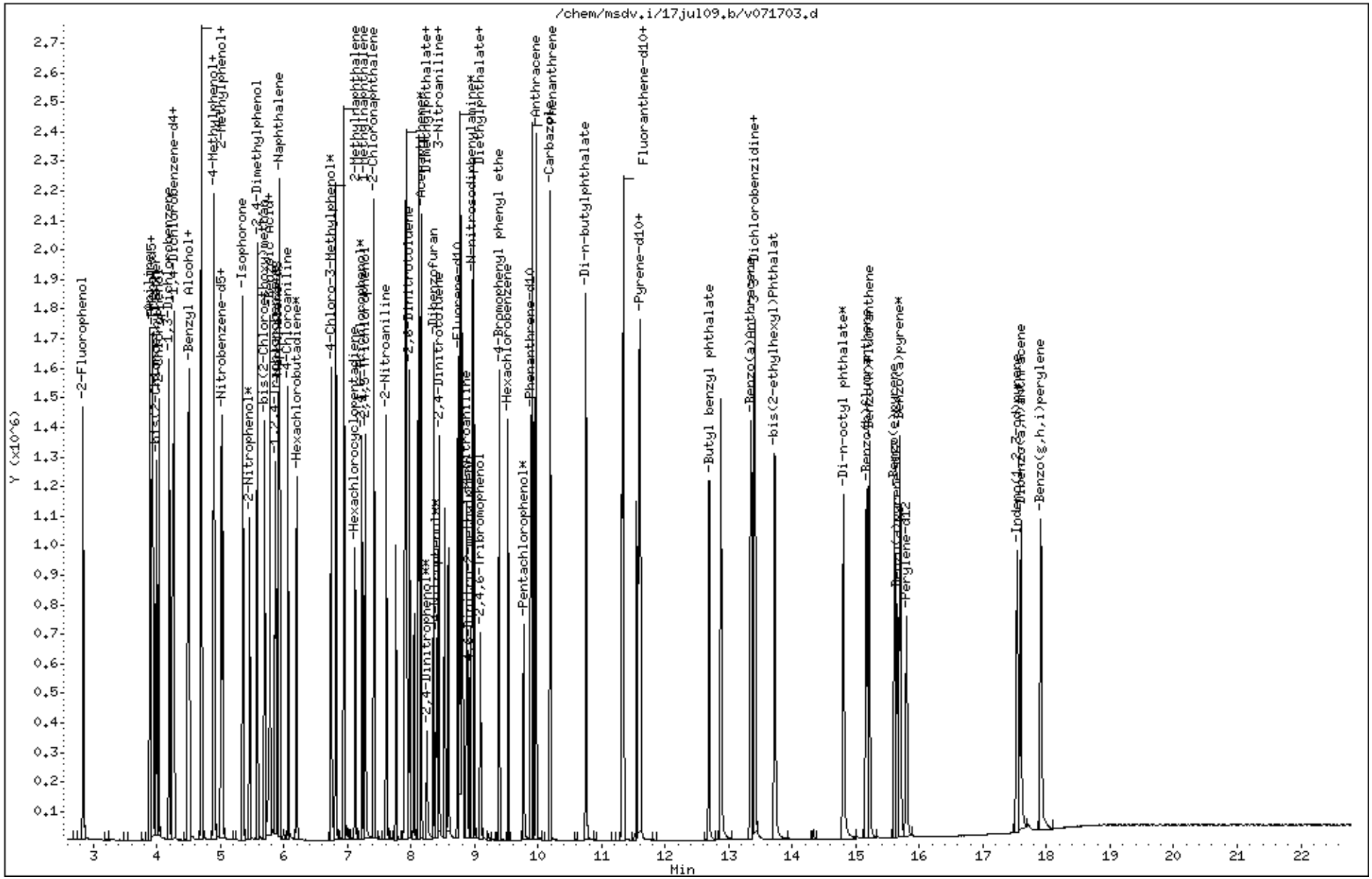
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.24	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.37	0.00
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

0201

Data File: /chem/msdv.i/17jul09.b/v071703.d
Date : 17-JUL-2009 11:17
Client ID: CCV
Sample Info: ;1685-171-50;CCV
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907167B-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071721**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 07:55 PM**
		Date of Extraction: 7/10/09

Compound	%Recovery
Phenol	81
bis(2-Chloroethyl) Ether	Not Spiked
2-Chlorophenol	79
1,3-Dichlorobenzene	Not Spiked
1,4-Dichlorobenzene	72
1,2-Dichlorobenzene	Not Spiked
2-Methylphenol (o-Cresol)	Not Spiked
bis(2-Chloroisopropyl) Ether	Not Spiked
N-Nitroso-di-n-propylamine	81
4-Methylphenol/3-Methylphenol	Not Spiked
Hexachloroethane	Not Spiked
Nitrobenzene	Not Spiked
Isophorone	Not Spiked
2-Nitrophenol	Not Spiked
2,4-Dimethylphenol	Not Spiked
Benzoic Acid	Not Spiked
bis(2-Chloroethoxy) Methane	Not Spiked
2,4-Dichlorophenol	Not Spiked
1,2,4-Trichlorobenzene	77
Naphthalene	Not Spiked
4-Chloroaniline	Not Spiked
Hexachlorobutadiene	Not Spiked
4-Chloro-3-methylphenol	84
2-Methylnaphthalene	Not Spiked
Hexachlorocyclopentadiene	Not Spiked
2,4,6-Trichlorophenol	Not Spiked
2,4,5-Trichlorophenol	Not Spiked
2-Chloronaphthalene	Not Spiked
2-Nitroaniline	Not Spiked
Dimethylphthalate	Not Spiked
Acenaphthylene	Not Spiked
2,6-Dinitrotoluene	Not Spiked
3-Nitroaniline	Not Spiked
Acenaphthene	74
2,4-Dinitrophenol	Not Spiked
4-Nitrophenol	58
2,4-Dinitrotoluene	76
Dibenzofuran	Not Spiked

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907167B-11A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v071721**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 07:55 PM**
		Date of Extraction: 7/10/09

Compound	%Recovery
Diethylphthalate	Not Spiked
Fluorene	Not Spiked
4-Chlorophenyl-phenyl Ether	Not Spiked
4-Nitroaniline	Not Spiked
4,6-Dinitro-2-methylphenol	Not Spiked
N-Nitrosodiphenylamine	Not Spiked
4-Bromophenyl-phenyl Ether	Not Spiked
Hexachlorobenzene	Not Spiked
Pentachlorophenol	76
Phenanthrene	Not Spiked
Anthracene	Not Spiked
di-n-Butylphthalate	Not Spiked
Fluoranthene	Not Spiked
Pyrene	80
Butylbenzylphthalate	Not Spiked
3,3'-Dichlorobenzidine	Not Spiked
Chrysene	Not Spiked
Benzo(a)anthracene	Not Spiked
bis(2-Ethylhexyl)phthalate	Not Spiked
Di-n-Octylphthalate	Not Spiked
Benzo(b)fluoranthene	Not Spiked
Benzo(k)fluoranthene	Not Spiked
Benzo(a)pyrene	Not Spiked
Indeno(1,2,3-c,d)pyrene	Not Spiked
Dibenz(a,h)anthracene	Not Spiked
Benzo(g,h,i)perylene	Not Spiked

Air Sample Volume(L): 80000
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	74	50-150
Phenol-d5	79	50-150
Nitrobenzene-d5	79	50-150
2,4,6-Tribromophenol	75	50-150
Fluorene-d10	77	60-120
Pyrene-d10	83	60-120

0203

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 17jul09
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907167B/168B-LCS Client Smp ID: LCS
Level: LOW Operator: rn
Data Type: MS DATA SampleType: LCS
SpikeList File: TO13100.spk Quant Type: ISTD
Sublist File: lcsfull.sub
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3 Phenol*	50.00	40.61	81.21	50-150
5 2-Chlorophenol	50.00	39.56	79.12	50-150
9 1,4-Dichlorobenzen	50.00	35.75	71.51	50-150
15 N-Nitrosodipropyla	50.00	40.54	81.07	50-150
26 1,2,4-Trichloroben	50.00	38.41	76.82	50-150
32 4-Chloro-3-Methylp	50.00	41.91	83.83	50-150
48 Acenaphthene*	50.00	36.92	73.85	50-150
50 4-Nitrophenol**	50.00	29.20	58.40	38-96
52 2,4-Dinitrotoluene	50.00	37.80	75.59	50-150
68 Pentachlorophenol*	50.00	38.22	76.44	39-106
81 Pyrene	50.00	40.17	80.35	60-120

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	37.14	74.28	50-150
$ 2 Phenol-d5	50.00	39.35	78.70	50-150
$ 17 Nitrobenzene-d5	50.00	39.51	79.02	50-150
$ 62 2,4,6-Tribromophen	50.00	37.63	75.26	50-150
$ 147 Fluorene-d10	50.00	38.39	76.79	60-120
$ 148 Pyrene-d10	50.00	41.71	83.42	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/17jul09.b/v071721.d
Lab Smp Id: 0907167B/168B-LCS Client Smp ID: LCS
Inj Date : 17-JUL-2009 19:55
Operator : rn Inst ID: msdv.i
Smp Info : ;0907167B/168B-LCS;LCS
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/17jul09.b/bnap0716.m
Meth Date : 17-Jul-2009 11:51 rnoonan Quant Type: ISTD
Cal Date : 16-JUL-2009 16:28 Cal File: v071610.d
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcsfull.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1 2-Fluorophenol	112	2.836	2.836	(0.668)	353897	37.1393	37.14
$ 2 Phenol-d5	99	3.913	3.924	(0.922)	426320	39.3487	39.35
$ 17 Nitrobenzene-d5	82	5.012	5.012	(0.849)	395739	39.5116	39.51
$ 62 2,4,6-Tribromophenol	330	9.095	9.095	(1.120)	77010	37.6318	37.63
$ 147 Fluorene-d10	176	8.732	8.742	(1.075)	527178	38.3940	38.39
$ 148 Pyrene-d10	212	11.582	11.592	(0.867)	698922	41.7115	41.71
* 7 1,4-Dichlorobenzene-d4	150	4.245	4.245	(1.000)	411838	40.0000	
* 27 Naphthalene-d8	136	5.903	5.903	(1.000)	966591	40.0000	
* 47 Acenaphthene-d10	164	8.121	8.121	(1.000)	481206	40.0000	
* 71 Phenanthrene-d10	188	9.883	9.882	(1.000)	849584	40.0000	
* 90 Chrysene-d12	240	13.365	13.375	(1.000)	718112	40.0000	
* 99 Perylene-d12	264	15.789	15.789	(1.000)	543295	40.0000	
3 Phenol*	94	3.934	3.934	(0.927)	521523	40.6071	40.61

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
5	2-Chlorophenol	128	4.027	4.027	(0.949)	376333	39.5593	39.56
9	1,4-Dichlorobenzene*	146	4.266	4.266	(1.005)	376754	35.7543	35.75
15	N-Nitrosodipropylamine**	70	4.888	4.887	(1.151)	289918	40.5372	40.54
26	1,2,4-Trichlorobenzene	180	5.872	5.872	(0.995)	304027	38.4076	38.41
32	4-Chloro-3-Methylphenol*	107	6.743	6.742	(1.142)	311751	41.9142	41.91
48	Acenaphthene*	154	8.152	8.162	(1.004)	558243	36.9225	36.92
50	4-Nitrophenol**	109	8.401	8.400	(1.034)	78106	29.1978	29.20
52	2,4-Dinitrotoluene	165	8.442	8.442	(1.040)	190613	37.7952	37.80
68	Pentachlorophenol*	266	9.758	9.768	(0.987)	77958	38.2217	38.22
81	Pyrene	202	11.603	11.613	(0.868)	972852	40.1736	40.17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v071721.d
Lab Smp Id: 0907167B/168B-LCS
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/17jul09.b/bnap0716.m
Misc Info: ,NOTICS

Calibration Date: 17-JUL-2009
Calibration Time: 11:17
Client Smp ID: LCS
Level: LOW
Sample Type: PUF/XAD

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	335278	167639	670556	411838	22.83
27 Naphthalene-d8	773459	386730	1546918	966591	24.97
47 Acenaphthene-d10	359156	179578	718312	481206	33.98
71 Phenanthrene-d10	662052	331026	1324104	849584	28.33
90 Chrysene-d12	551895	275948	1103790	718112	30.12
99 Perylene-d12	409341	204670	818682	543295	32.72

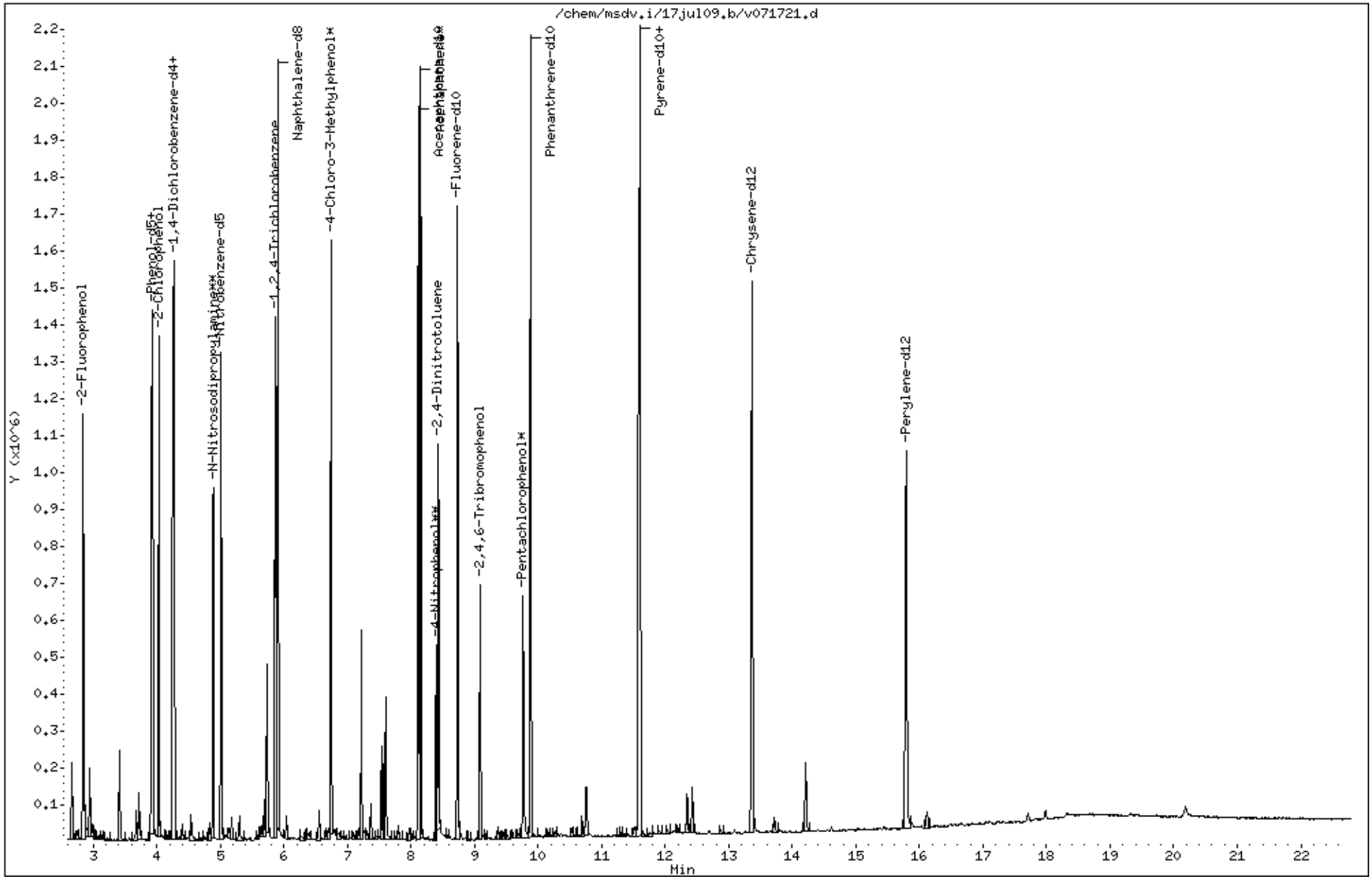
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.24	3.74	4.74	4.25	0.00
27 Naphthalene-d8	5.90	5.40	6.40	5.90	0.00
47 Acenaphthene-d10	8.12	7.62	8.62	8.12	0.00
71 Phenanthrene-d10	9.88	9.38	10.38	9.88	0.00
90 Chrysene-d12	13.37	12.87	13.87	13.36	-0.08
99 Perylene-d12	15.79	15.29	16.29	15.79	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.

0208

Data File: /chem/msdv.i/17jul09.b/v071721.d
Date : 17-JUL-2009 19:55
Client ID: LCS
Sample Info: ;0907167B/168B-LCS;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25



Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

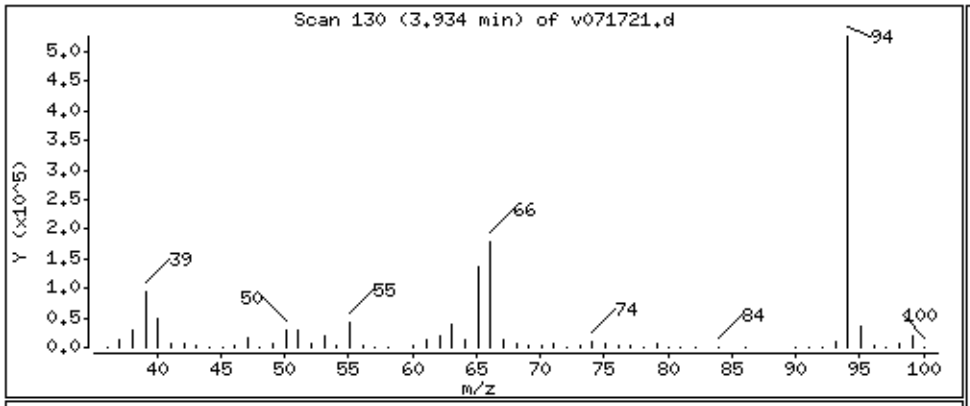
Operator: rn

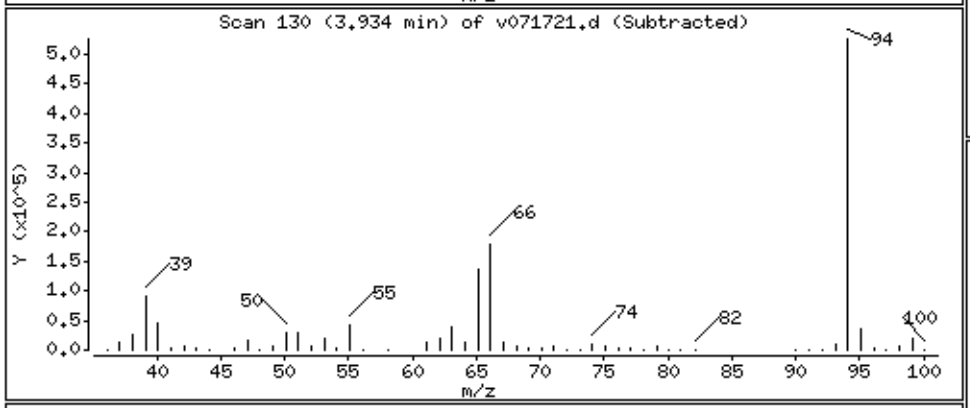
Column phase: DB-5.625

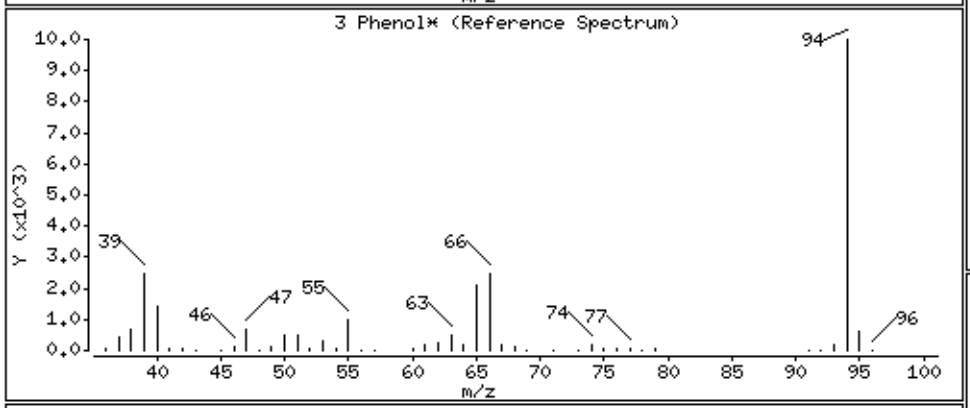
Column diameter: 0.25

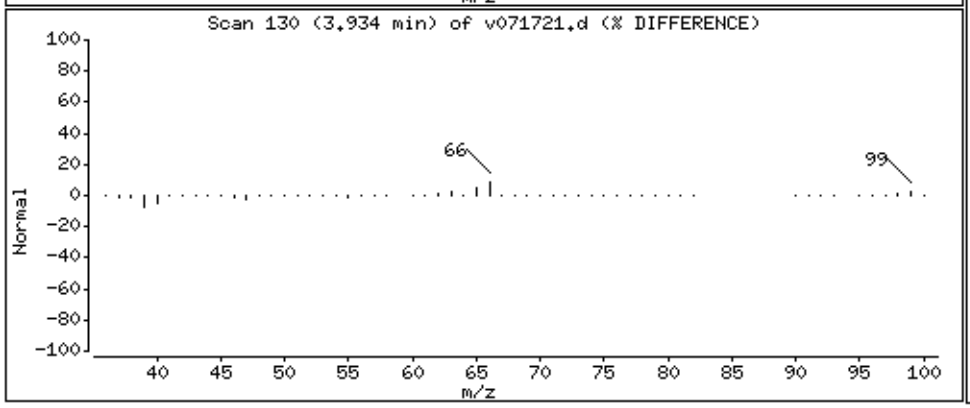
3 Phenol*

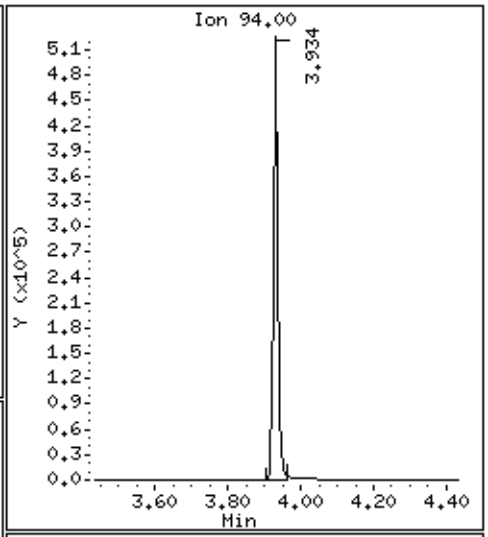
Concentration: 40.61 ug

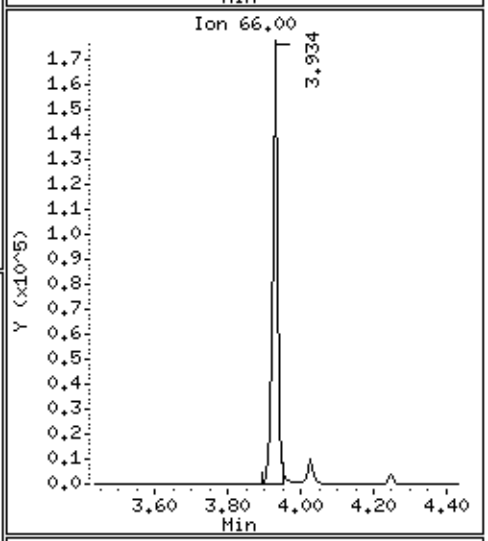


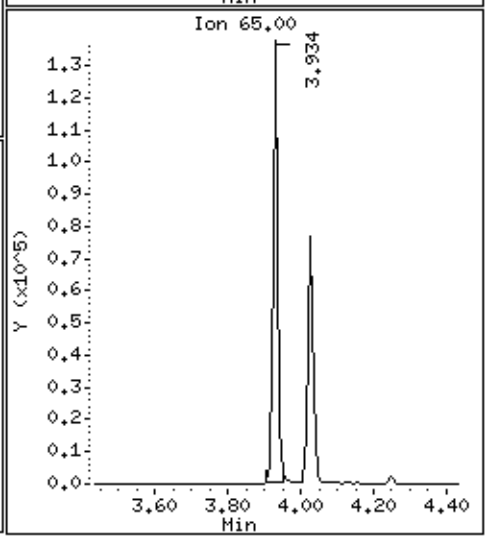












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

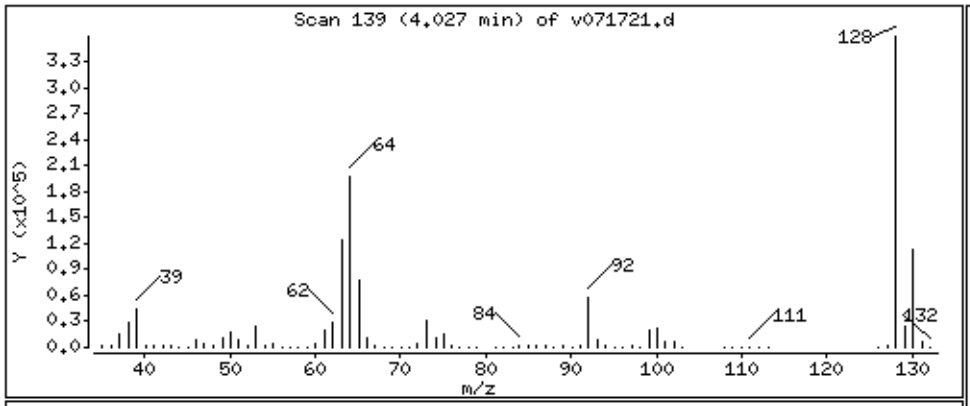
Operator: rn

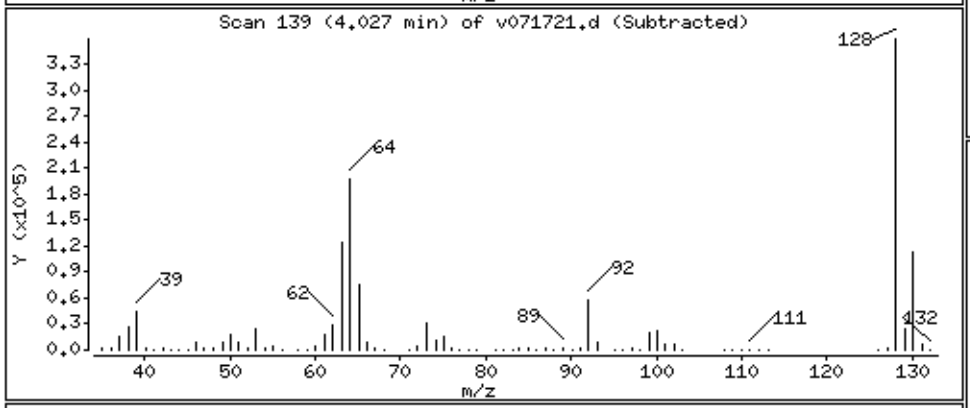
Column phase: DB-5.625

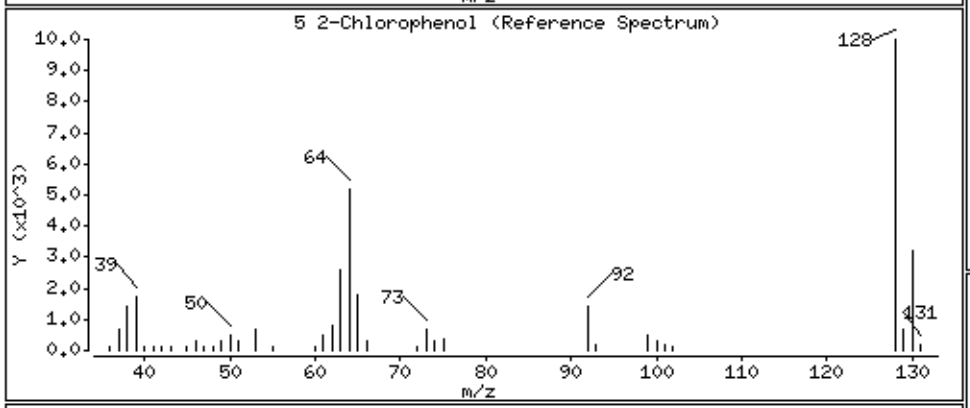
Column diameter: 0.25

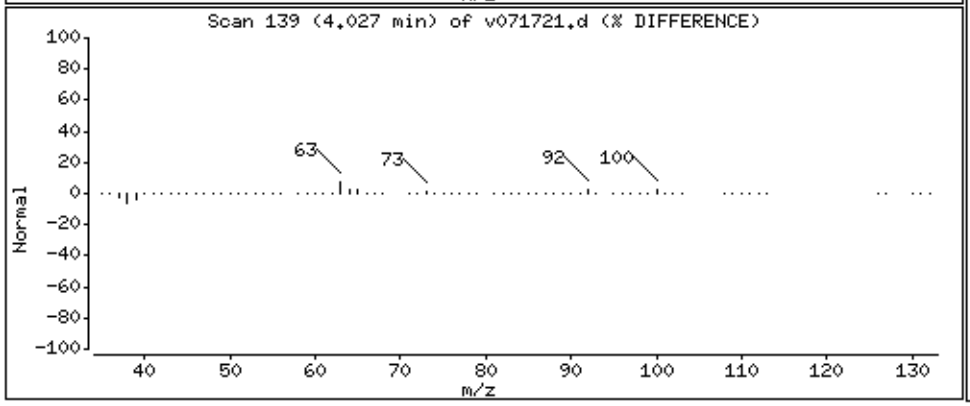
5 2-Chlorophenol

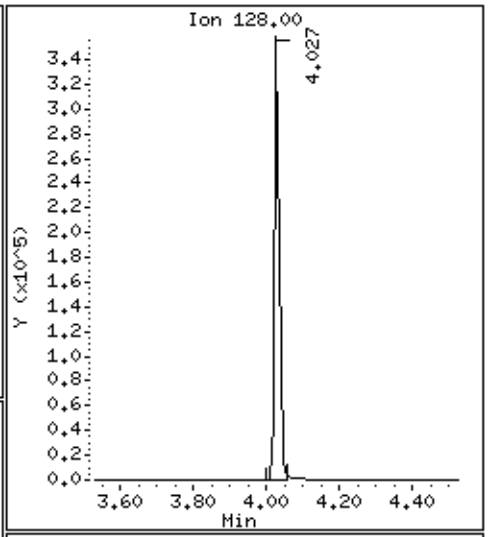
Concentration: 39.56 ug

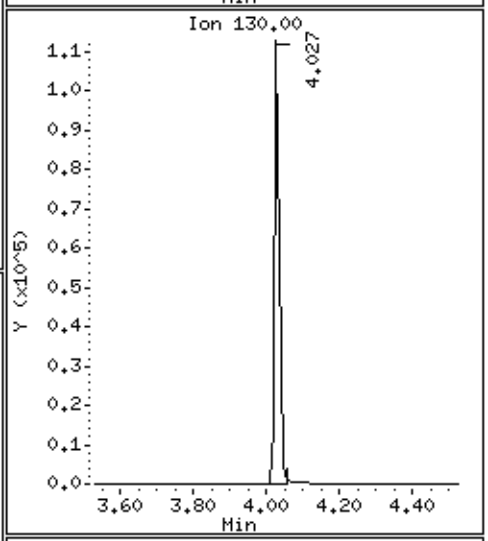


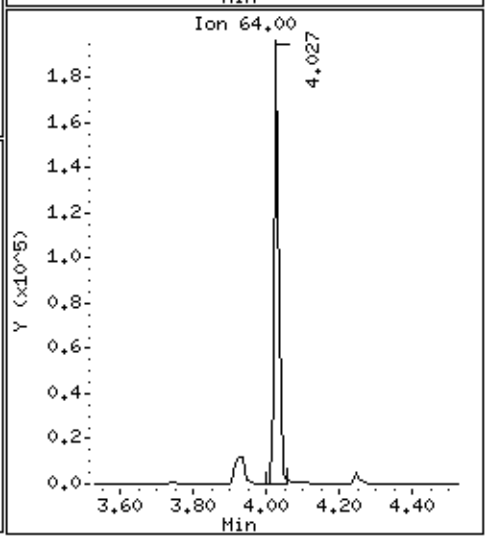












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

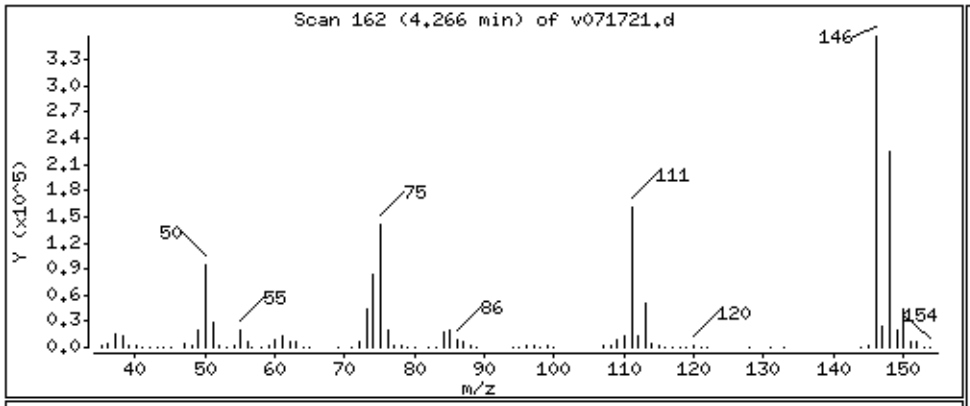
Operator: rn

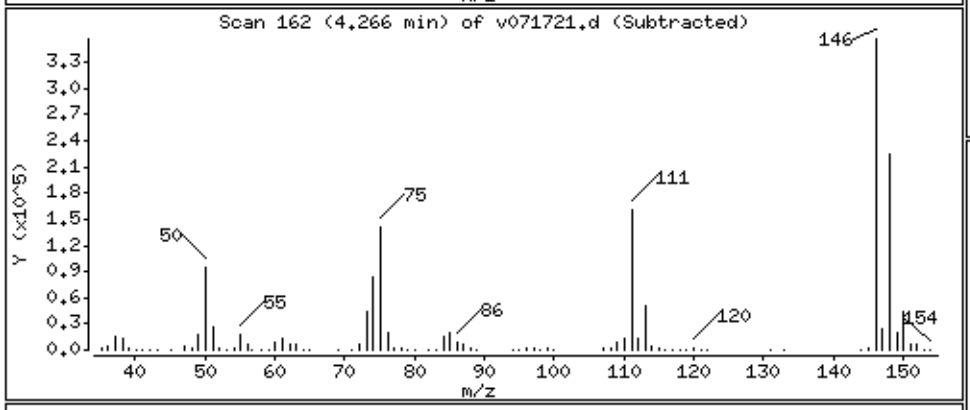
Column phase: DB-5.625

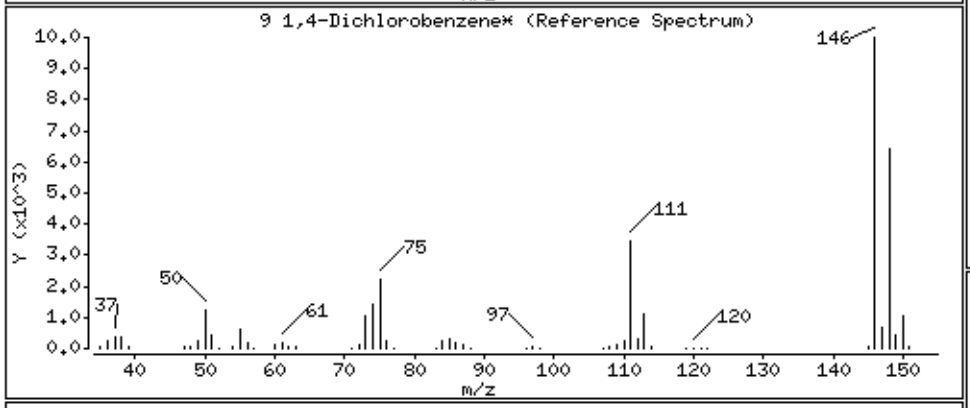
Column diameter: 0.25

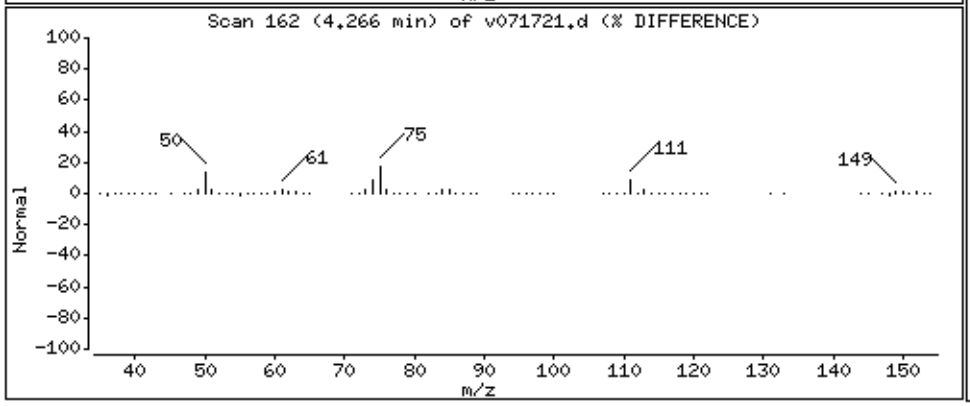
9 1,4-Dichlorobenzene*

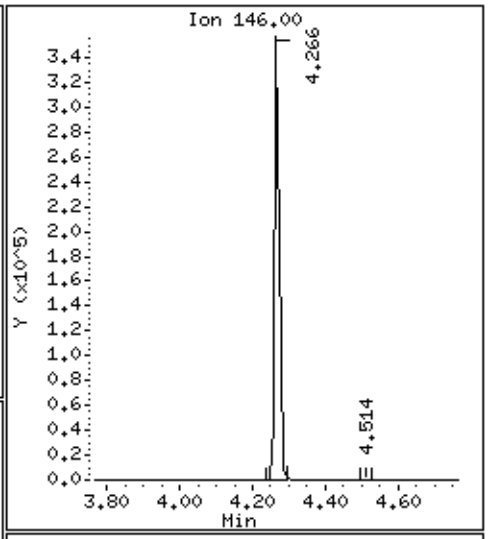
Concentration: 35.75 ug

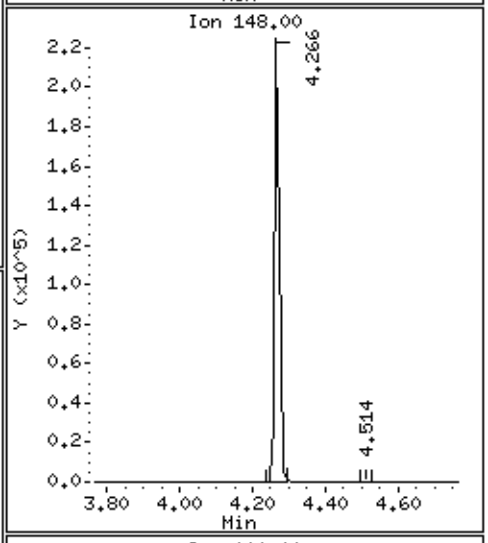


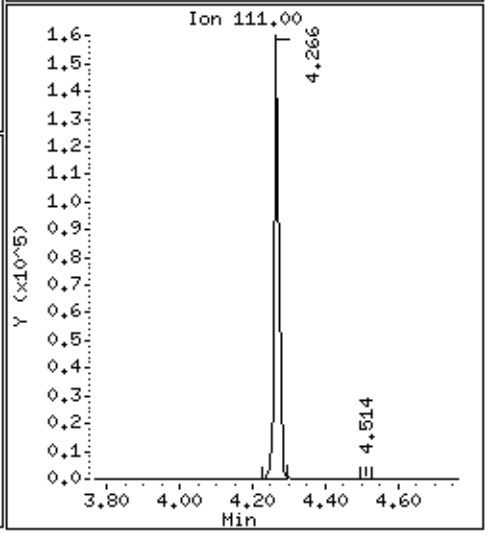












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

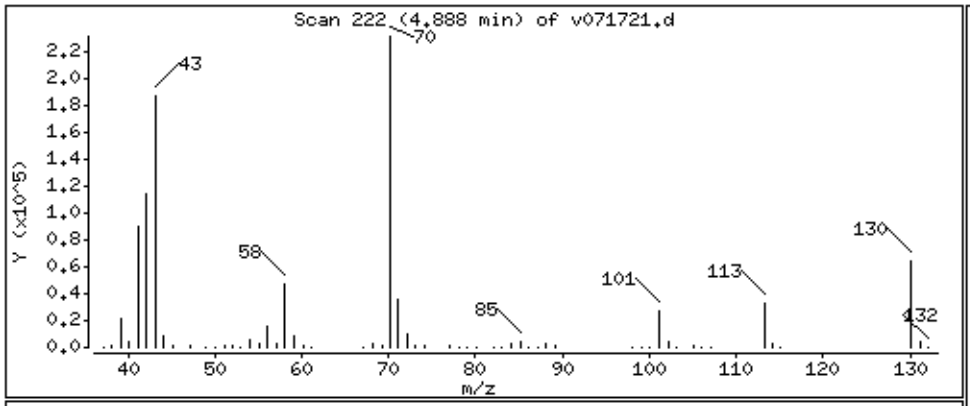
Operator: rn

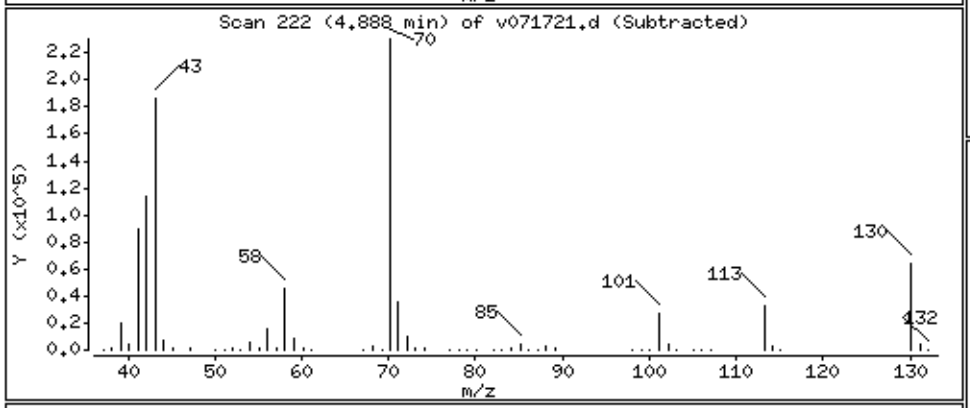
Column phase: DB-5.625

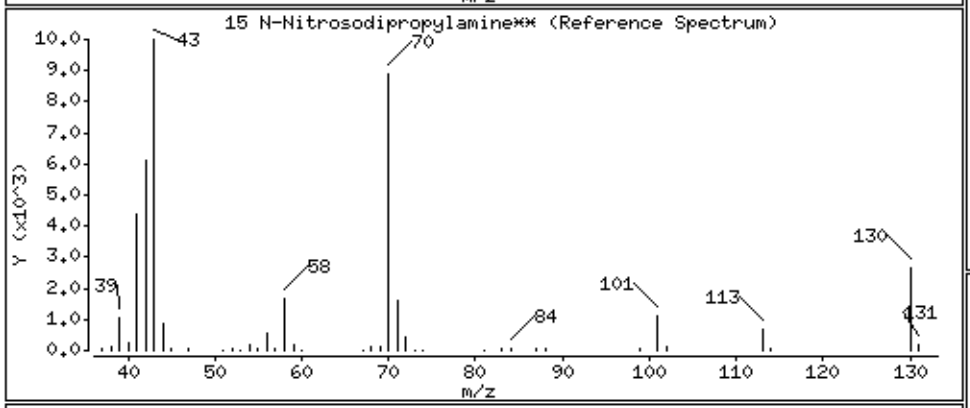
Column diameter: 0.25

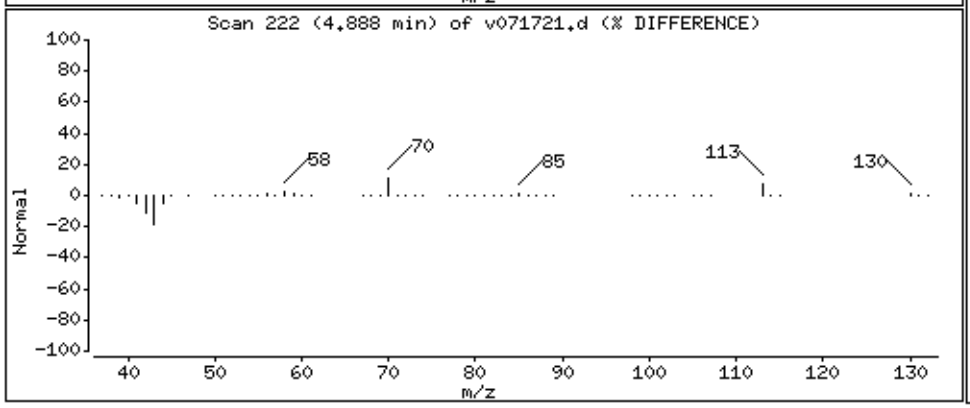
15 N-Nitrosodipropylamine**

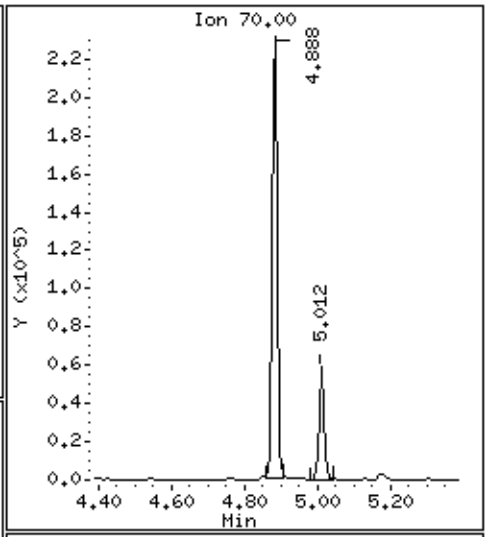
Concentration: 40.54 ug

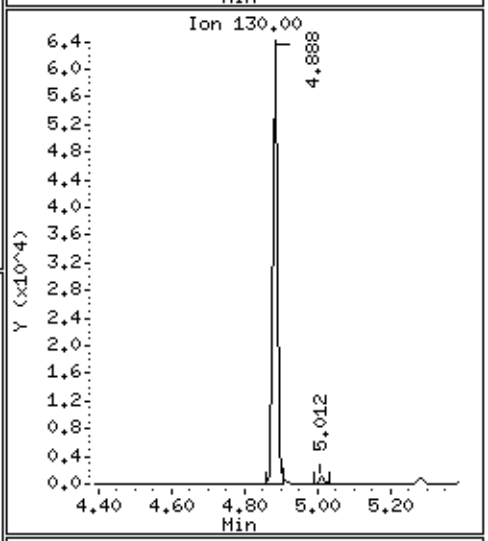


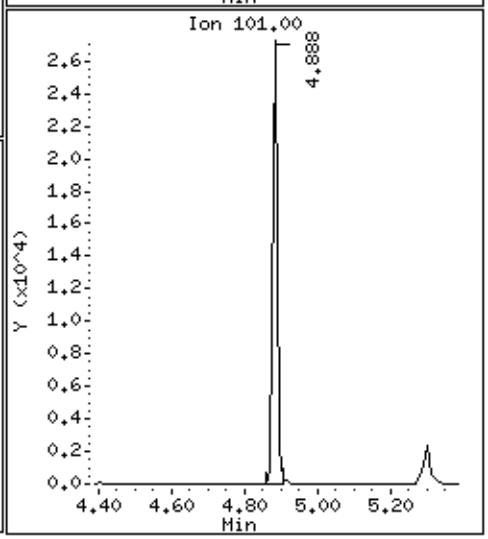












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

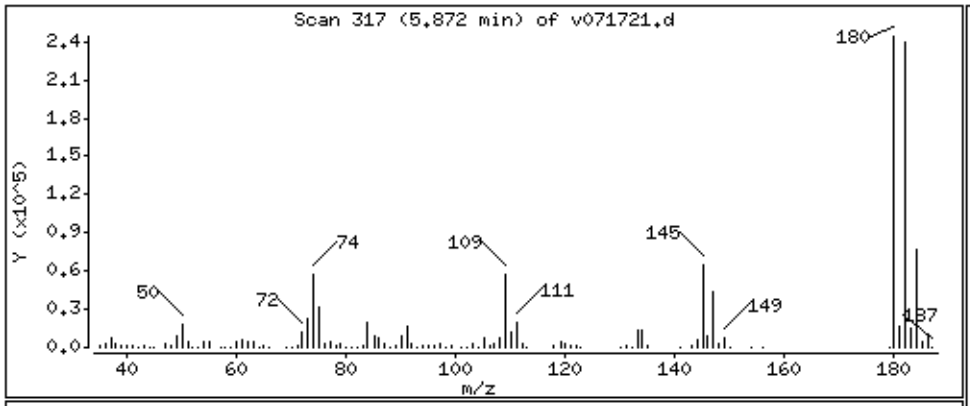
Operator: rn

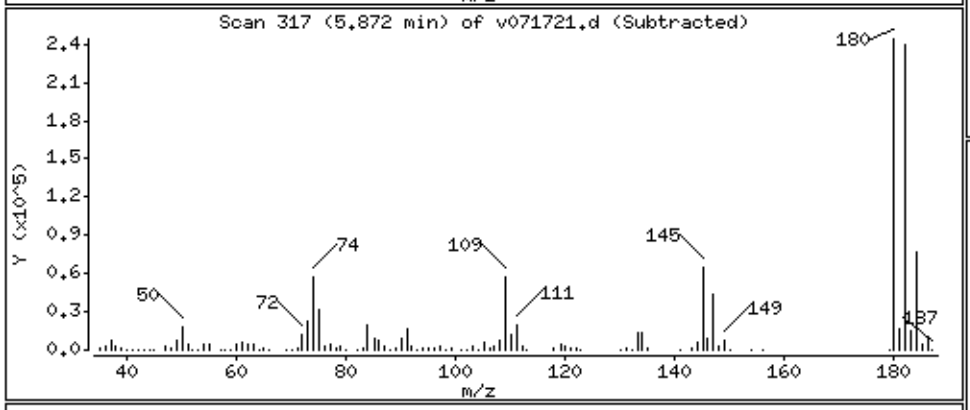
Column phase: DB-5.625

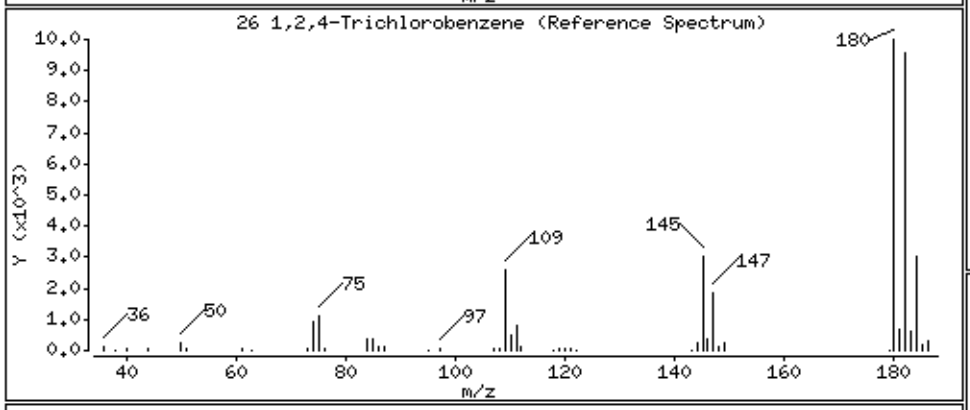
Column diameter: 0.25

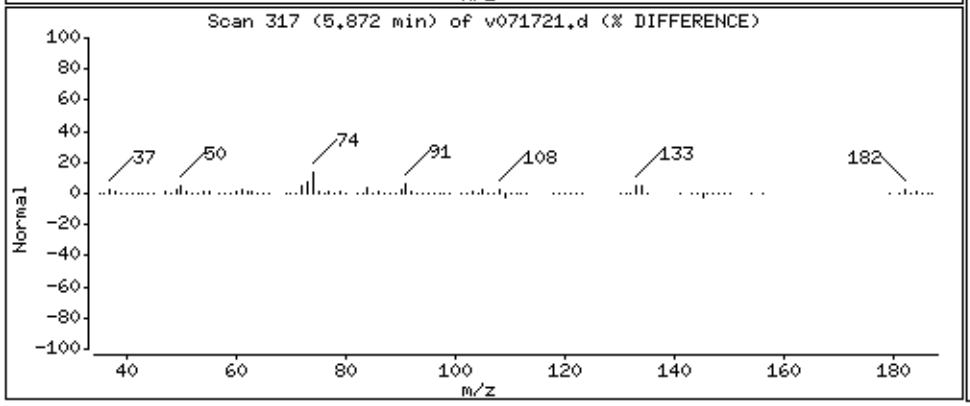
26 1,2,4-Trichlorobenzene

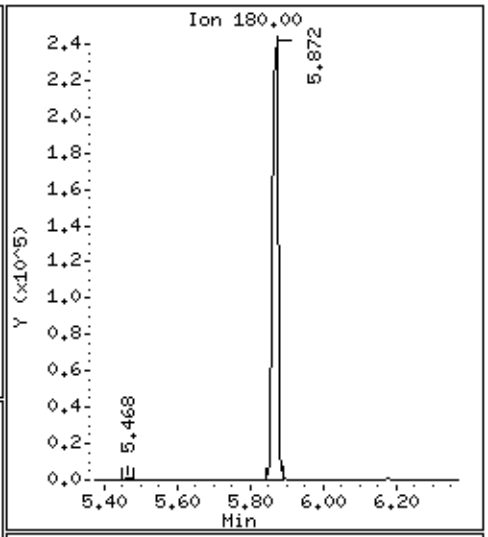
Concentration: 38.41 ug

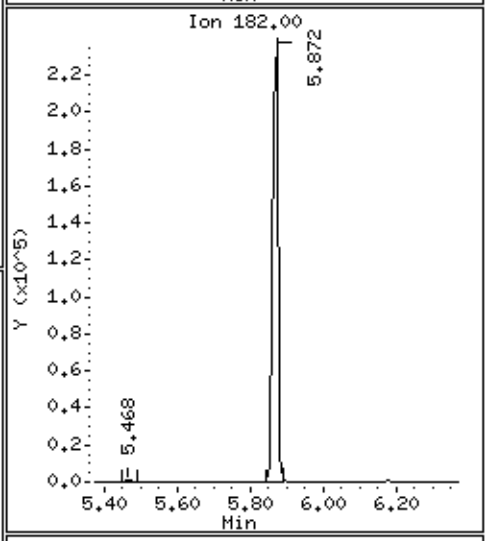


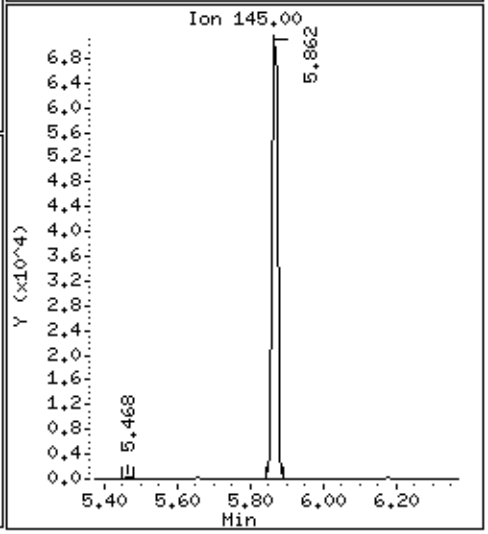












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

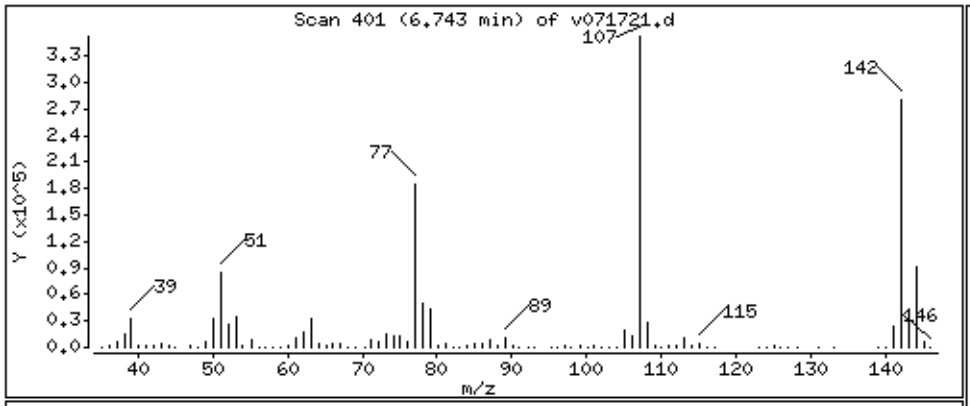
Operator: rn

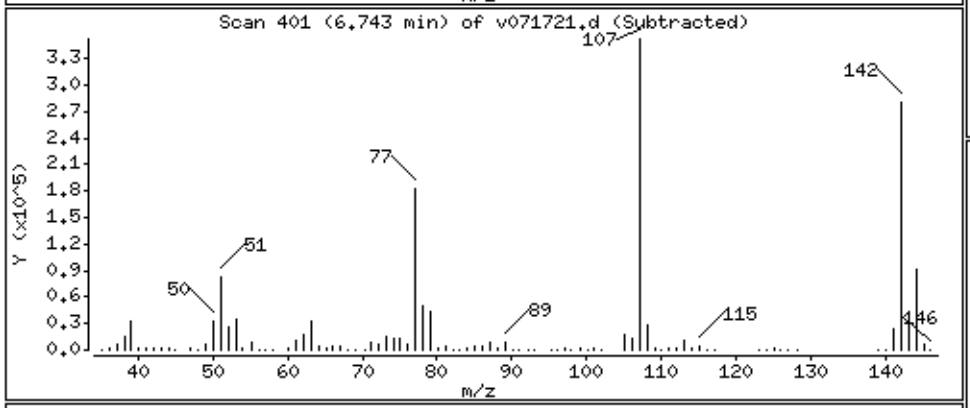
Column phase: DB-5.625

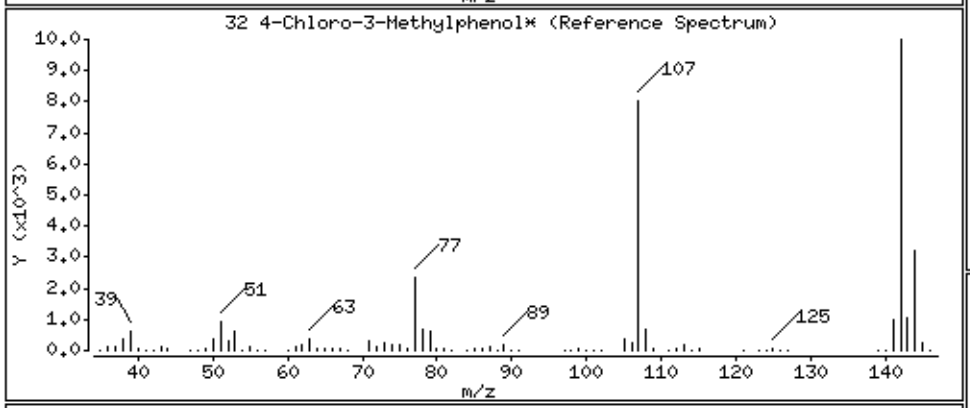
Column diameter: 0.25

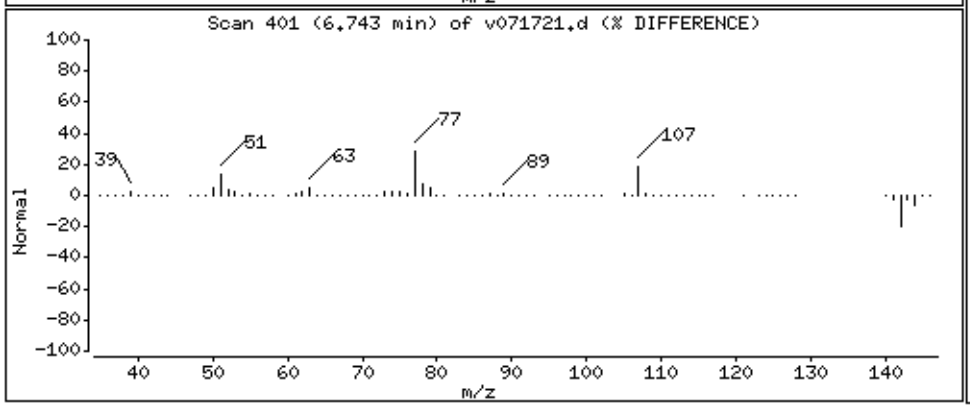
32 4-Chloro-3-Methylphenol*

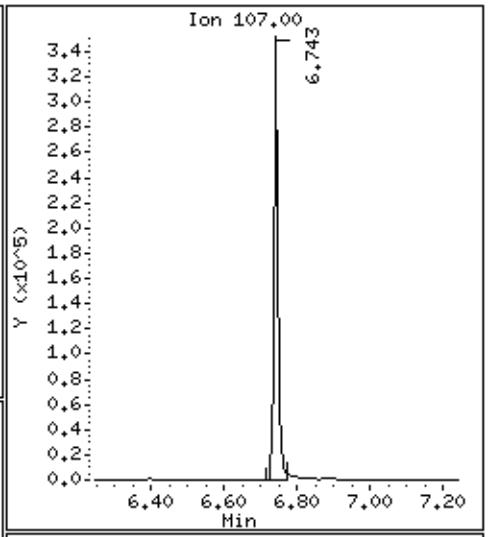
Concentration: 41.91 ug

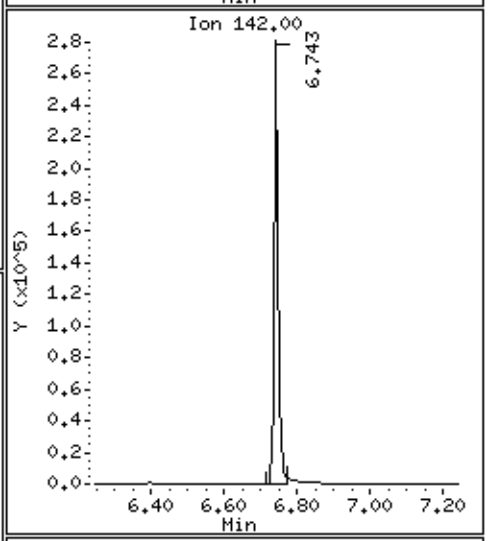


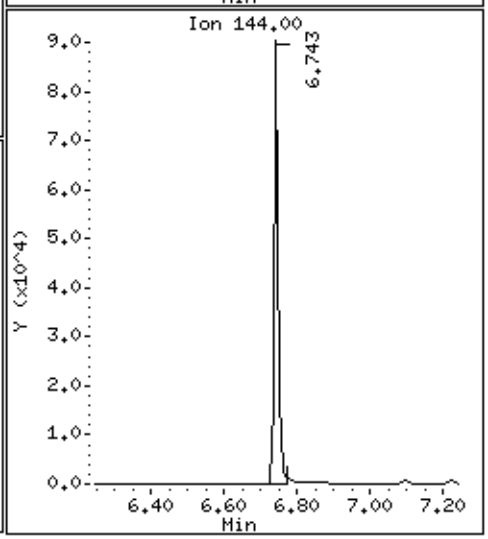












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

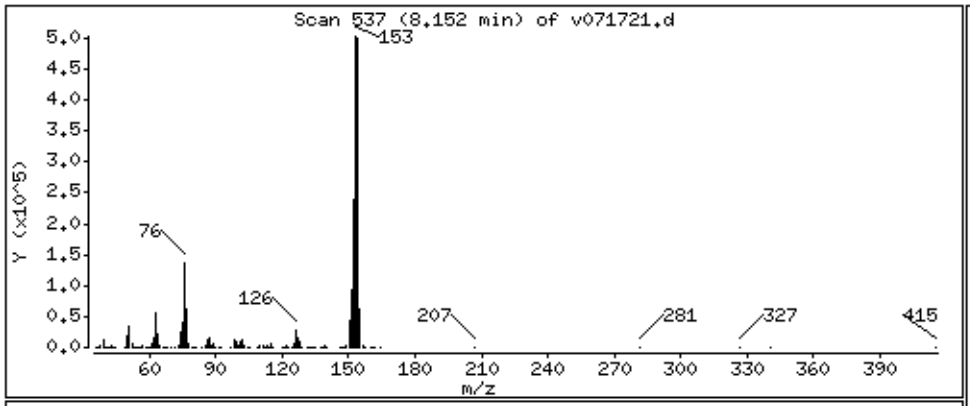
Operator: rn

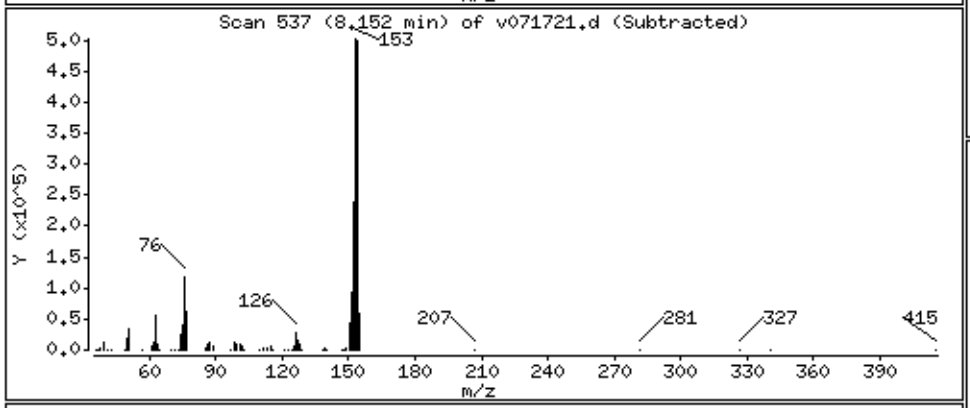
Column phase: DB-5.625

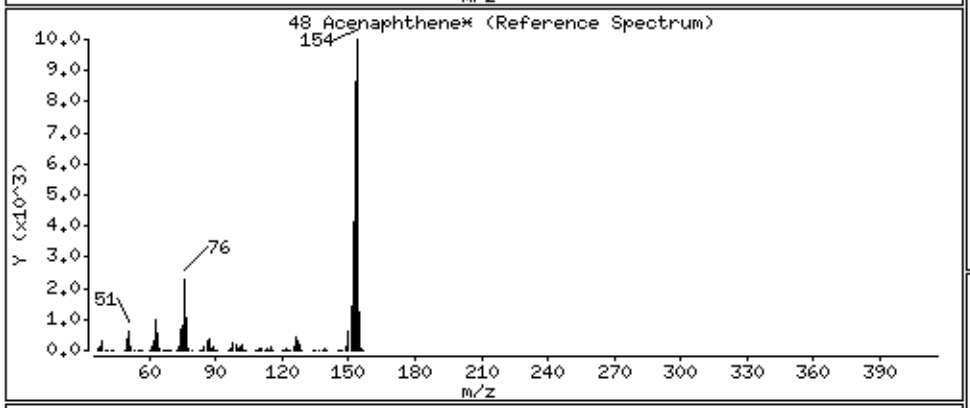
Column diameter: 0.25

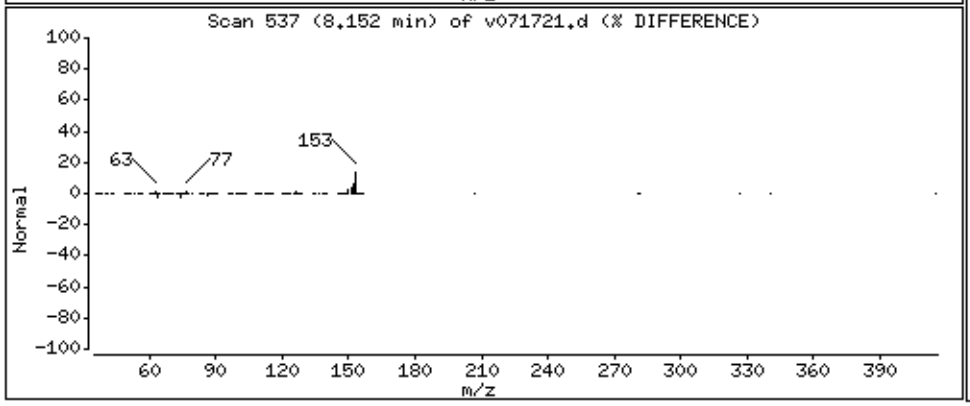
48 Acenaphthene*

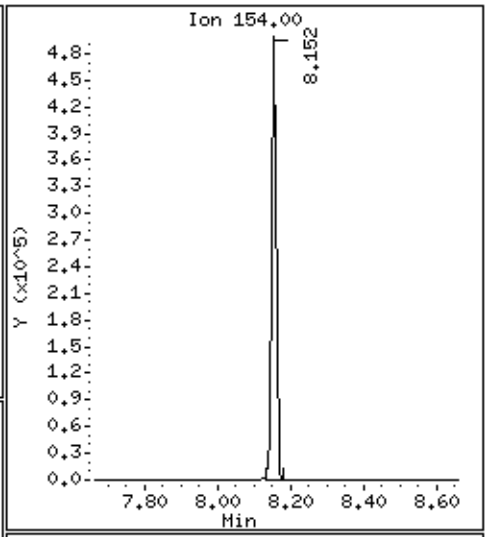
Concentration: 36.92 ug

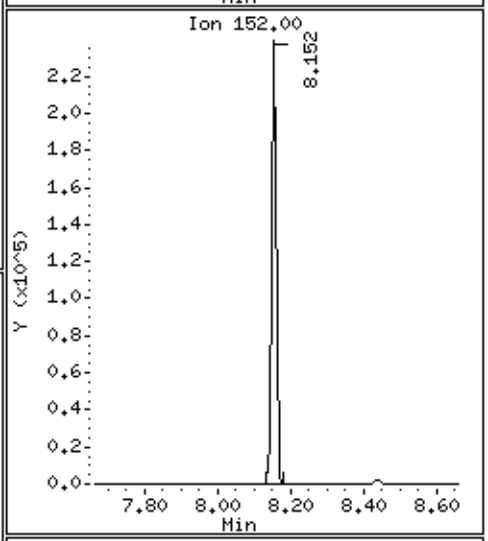


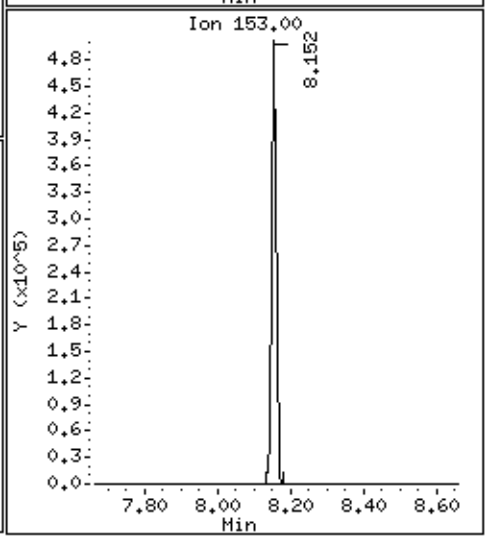












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

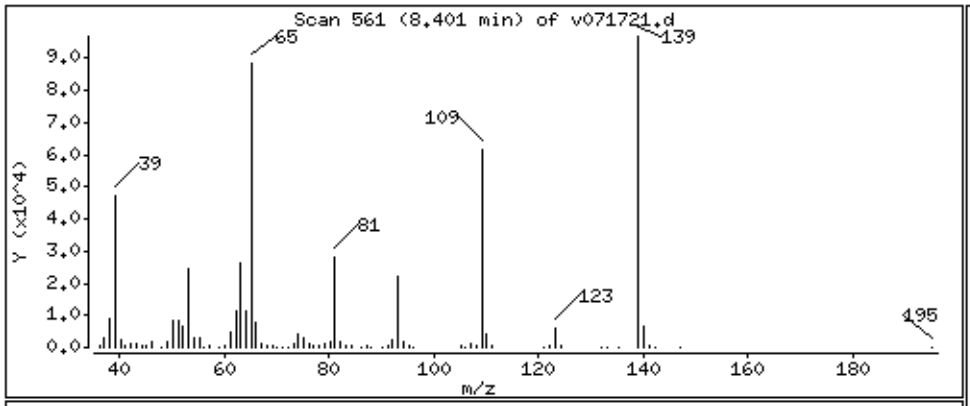
Operator: rn

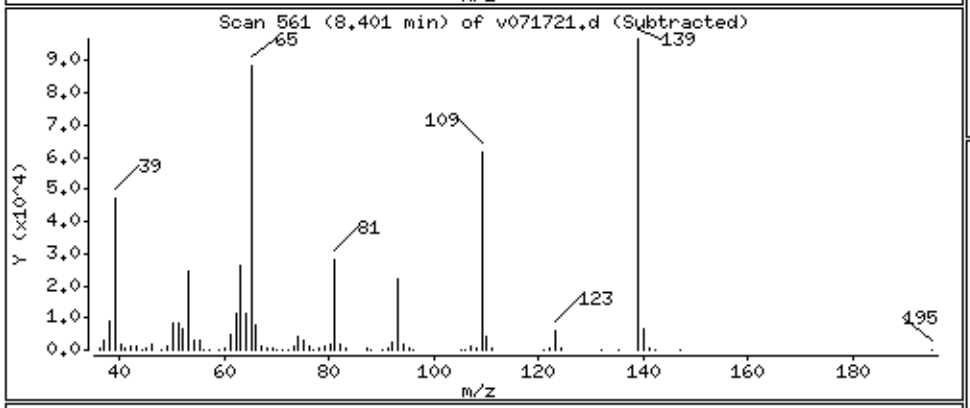
Column phase: DB-5.625

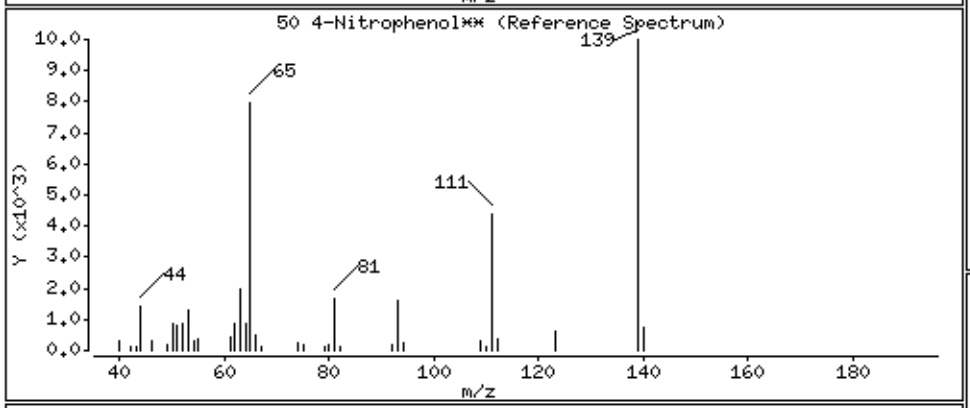
Column diameter: 0.25

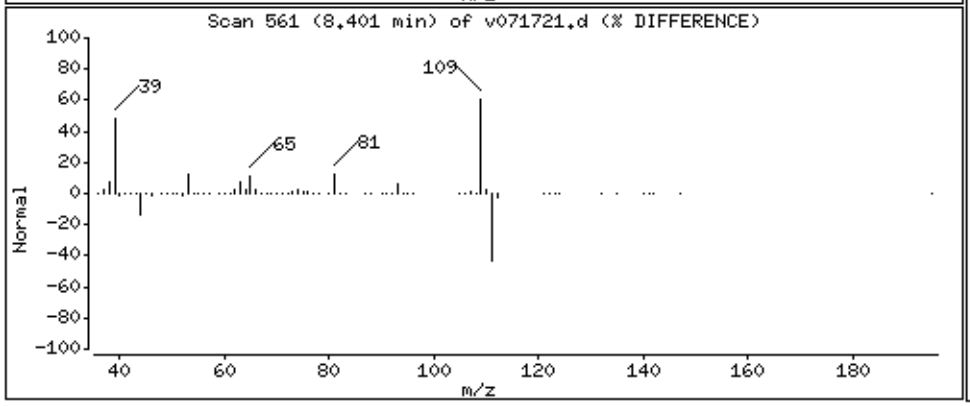
50 4-Nitrophenol**

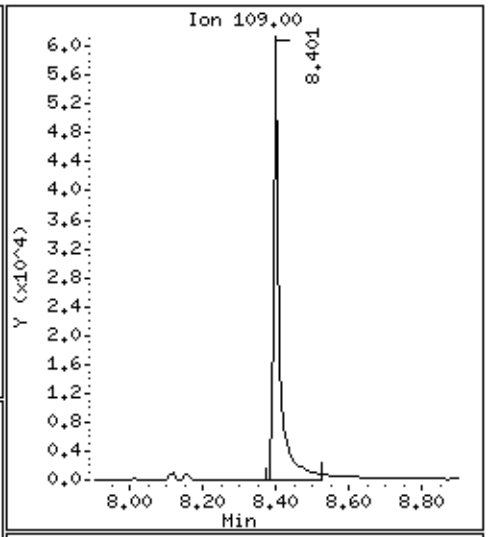
Concentration: 29.20 ug

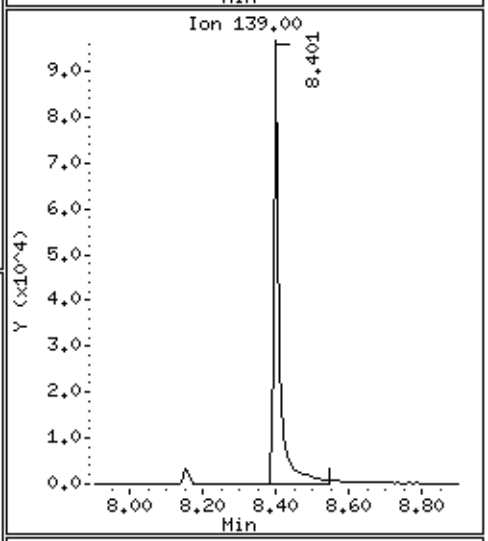


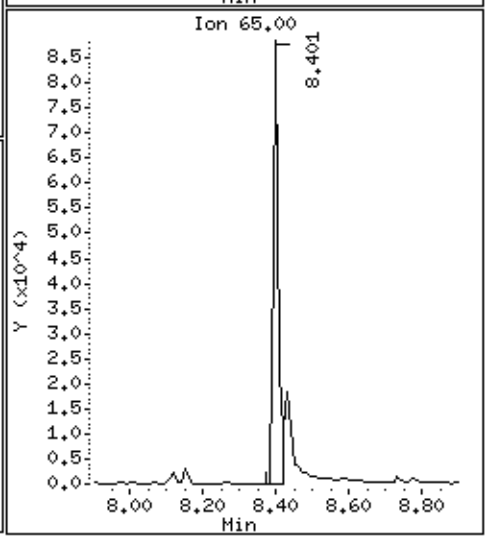












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

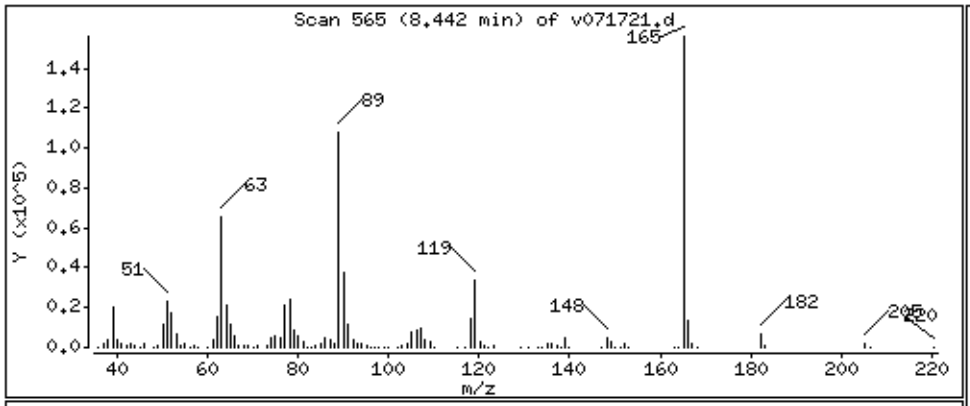
Operator: rn

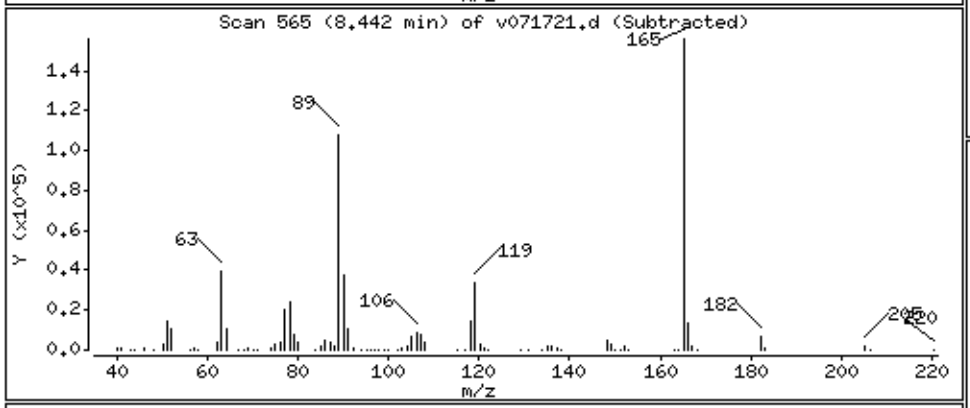
Column phase: DB-5.625

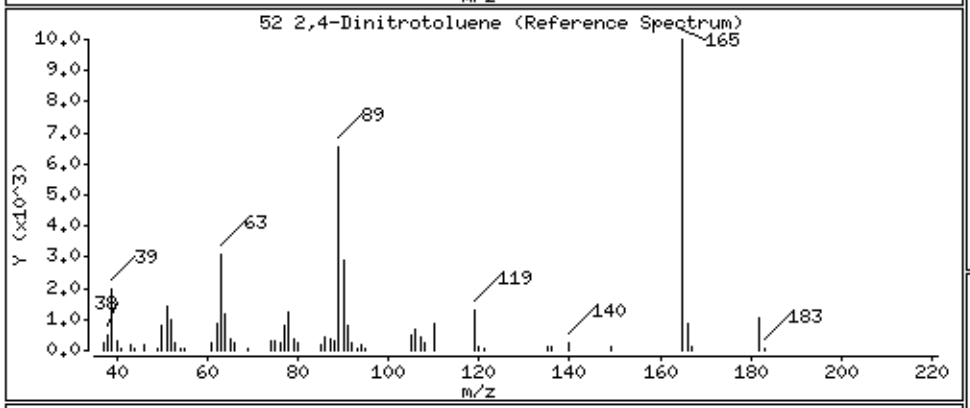
Column diameter: 0.25

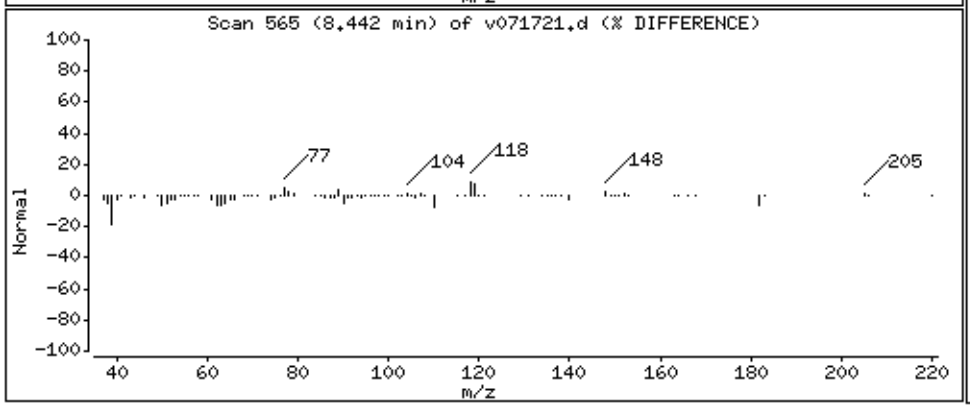
52 2,4-Dinitrotoluene

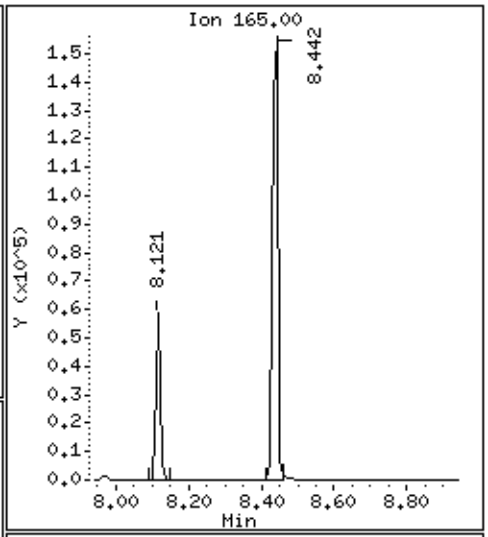
Concentration: 37.80 ug

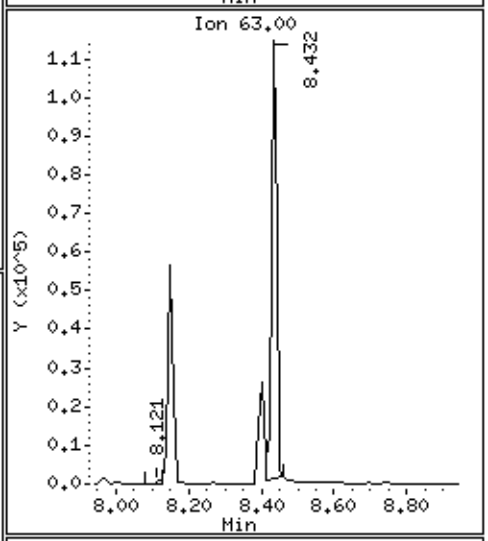


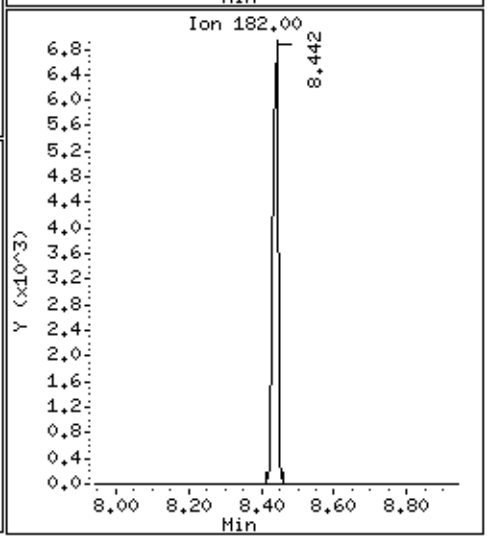












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

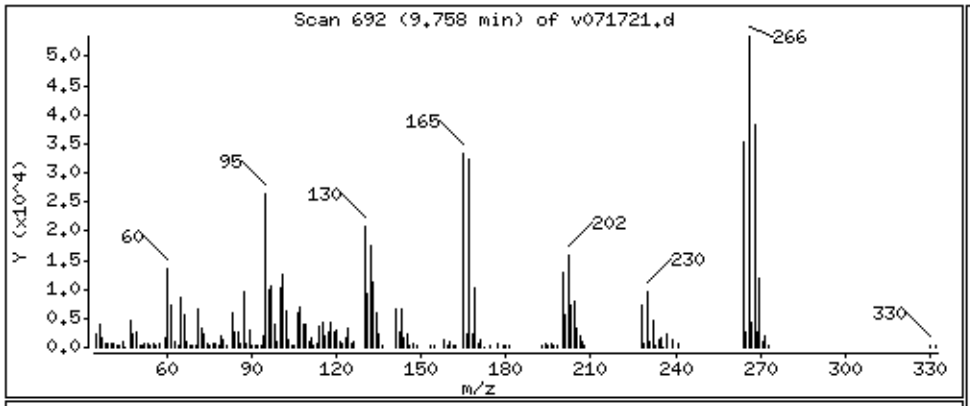
Operator: rn

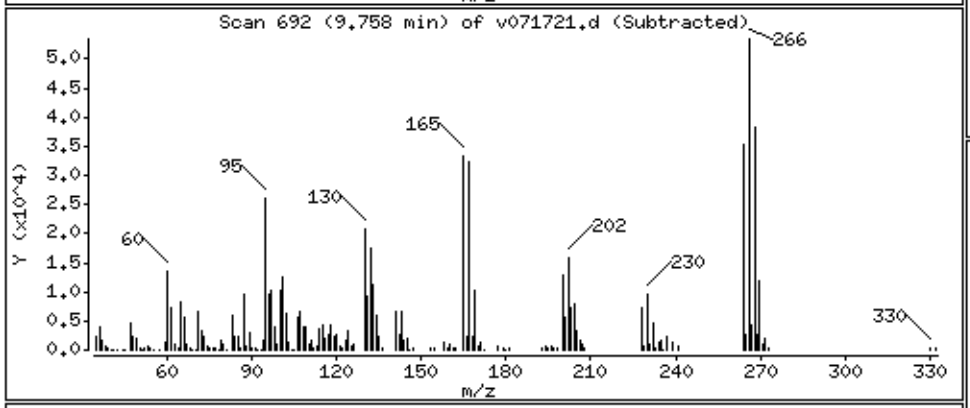
Column phase: DB-5.625

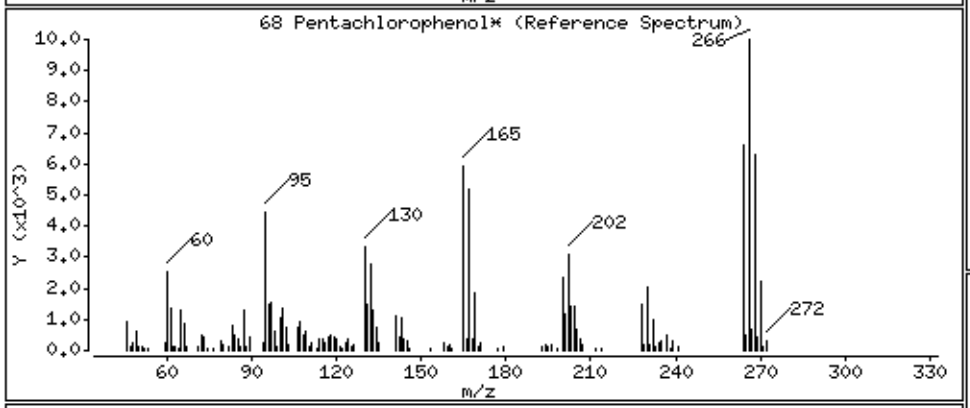
Column diameter: 0.25

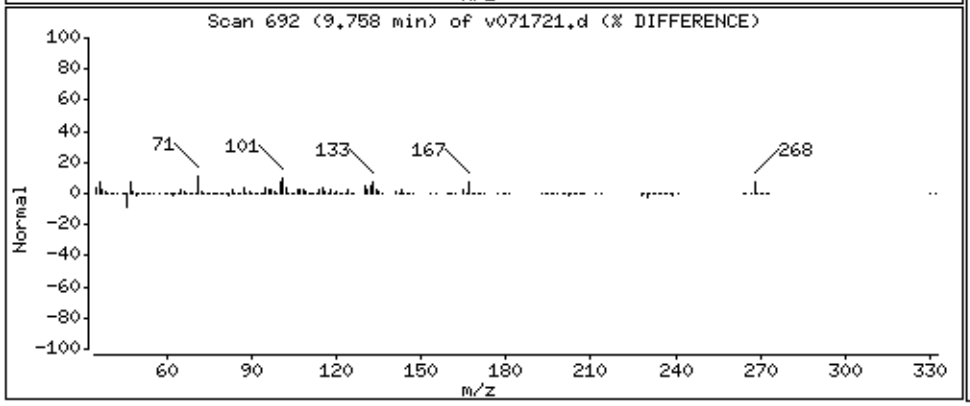
68 Pentachlorophenol*

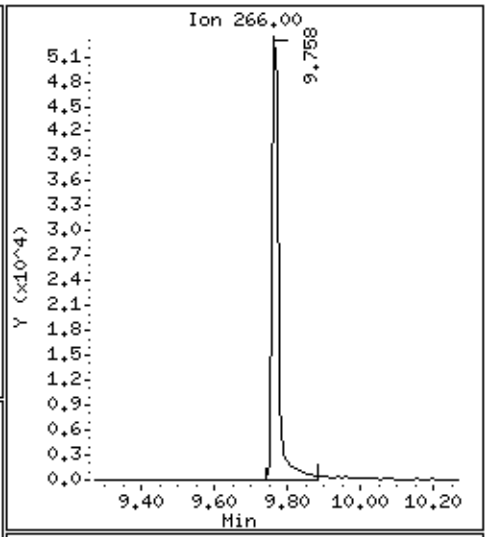
Concentration: 38.22 ug

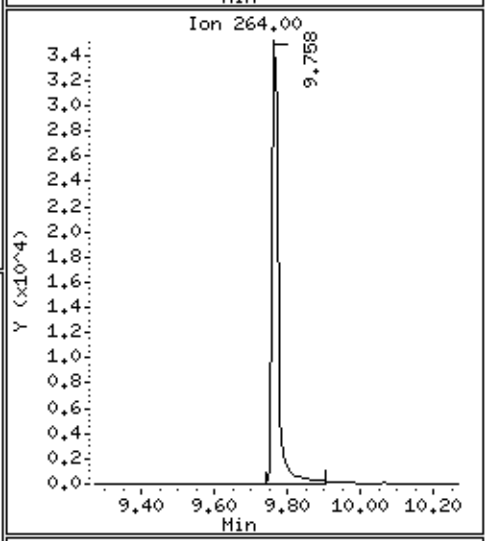


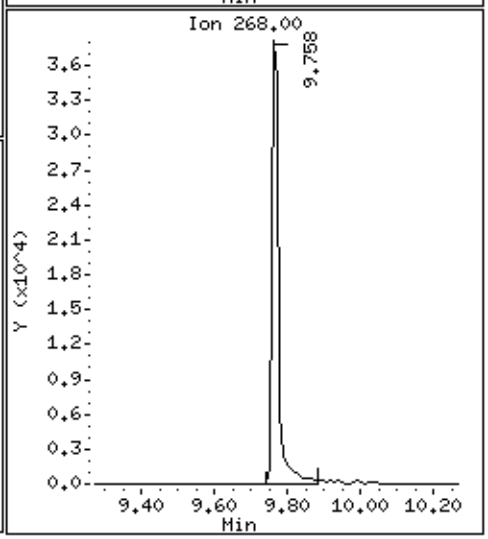












Data File: /chem/msdv.i/17jul09.b/v071721.d

Date : 17-JUL-2009 19:55

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907167B/168B-LCS;LCS

Volume Injected (uL): 1.0

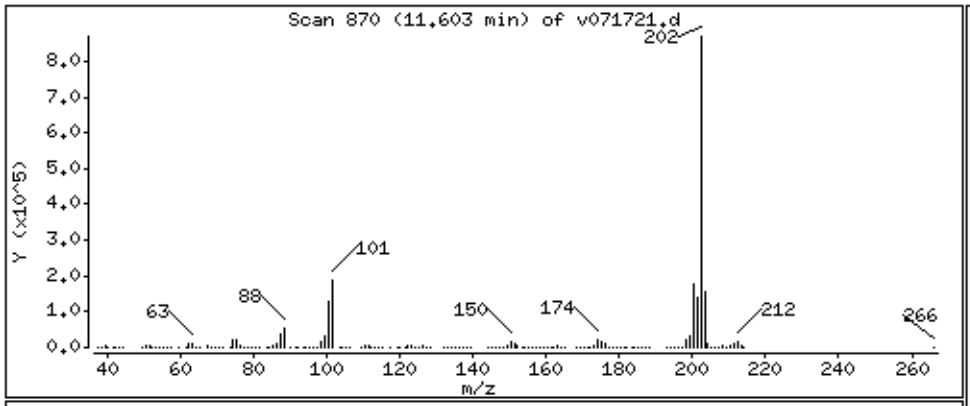
Operator: rn

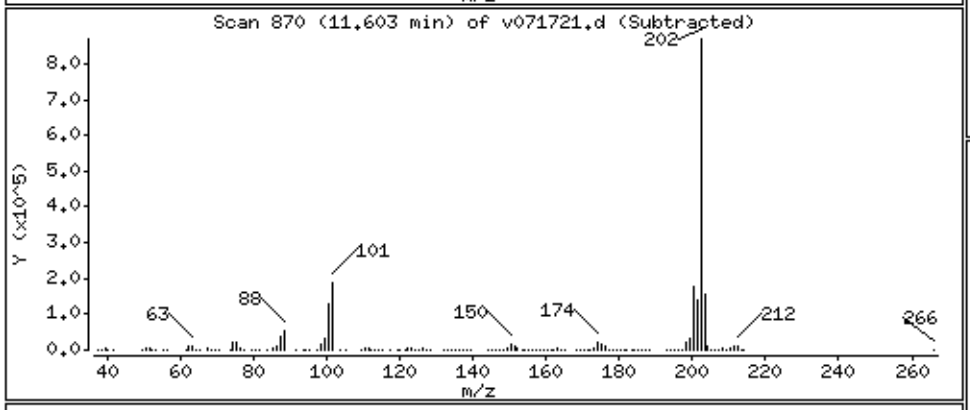
Column phase: DB-5.625

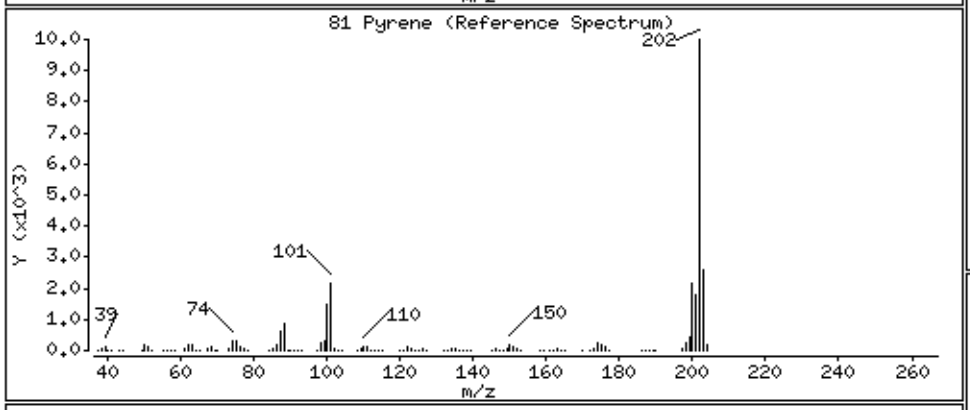
Column diameter: 0.25

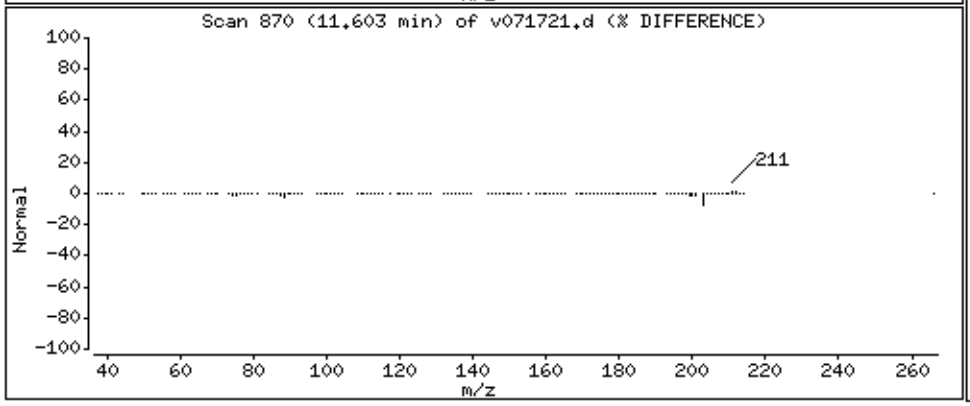
81 Pyrene

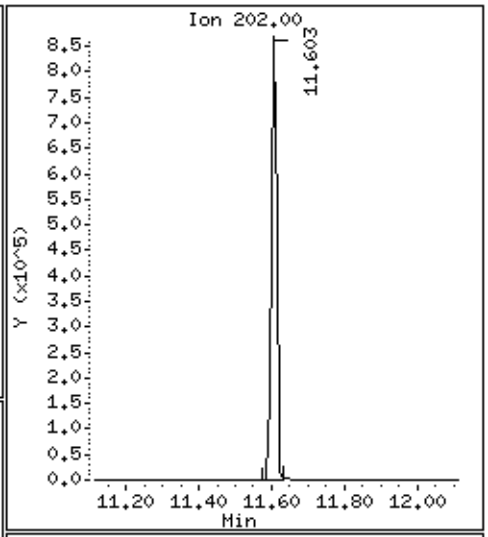
Concentration: 40.17 ug

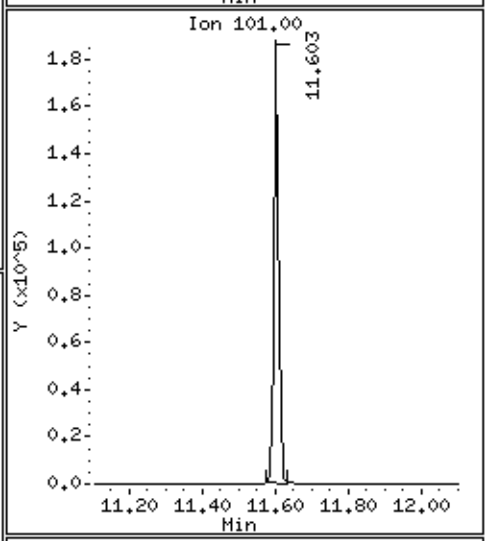


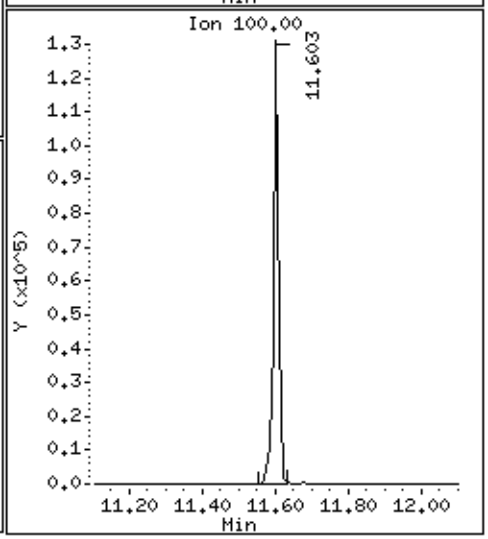












TO-13A ASE Extraction Logbook @Air Toxics Logbook#: 1809

Date Extracted: 7/10/09
Set-up By: MJS
Spiked By: MJS
Spike Date: 7/10/09

Spike Witness: CRL
Date Witnessed: 7/10/09
☑ *Proj.Pr./COC checked* ☑ *Spike ID Verified*
☑ *Spike Amt. Verified* ☑ *Equipment checked*
☑ *Verified media certified*

Solvent: Dichloromethane
Solvent Lot #: 090321
Concentrated By: MJS
Date Concentrated: 7/13/09

ATL Sample ID #	Client I.D. #	Car. #	PUF / XAD/Filter Lot #	Surr. ID/Conc. (µg/mL)*	Surr. Amt. (mL)	LCS ID/Conc. (µg/mL)	LCS Amt. (mL)	Fin. Vol. (mL)
1.) 0907167B-03A	OFF04-070709	2	P090626/X090608/F090A9	1698-23-100	0.5	N/A	N/A	1.0
-06A	OFF03-070709	3	↓	↓	↓	↓	↓	↓
-09A	OFF03-070709 BS	2	↓	↓	↓	↓	↓	↓
2.) 0907168B-03A	~~BMI06-070709~~ BMI08-070709 MJS 7/10/09	2	P090621/X090608/F090521	↓	↓	↓	↓	↓
-06A	BMI08-070709	3	↓	↓	↓	↓	↓	↓
0907167B 0907168B-BLK	N/A	2	P090624/X090608	↓	↓	↓	↓	↓
-LCS	↓	3	↓	↓	↓	1698-5-100	0.5	↓
							MJS	
							7/13/09	

Pre-Spiked Surrogate	Surr. ID/Conc. (ug/mL)	Surr Amt (uL)	Spiked By	Spiked Date
Benzo(a)pyrene-d12	1.) 1698-14-100	100	MJS	7/1/09
	2.) 1698-14-100	100	MJS	6/24/09
Fluoranthene-d10				

Water Bath Temperature °C	Initial Temp °C	Final Temp °C
	65° C	66° C

Comments:

**TO-13A(mod) Surrogate Compounds: 2-Fluorophenol, Phenol-d_5, Nitrobenzene-d_5, 2,4,6-Tribromophenol, Fluorene-d_{10} and Pyrene-d_{10}*
**PAH Surrogate Compounds: Fluorene-d_{10} and Pyrene-d_{10}*

Signed: [signature] *Date:* 7/13/09

Revised: 04/09

MSD-V Run Log @Air Toxics Ltd. Logbook#: 1837

Method: TO13A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.88
68	Less than 2.00% of mass 69	0.00 (0.00)1
69	Less than 99.90% of mass 198	49.55
70	Less than 2.00% of mass 69	0.00(0.00)1
127	40.00 – 60.00% of mass 198	54.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	20.37
365	Greater than 1.00% of mass 198	2.43
441	Present, but less than mass 443	9.80
442	40.00 - 100.00% of mass 198	65.11
443	17.00 - 23.00% of mass 442	12.87(19.76)2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-V
DFTPP File ID: V071702
DFTPP Injection Date: 7/17/09
DFTPP Injection Time 1045

IS# :	Area Counts
1,4-Dichlorobenzene-d_4:	335278
Naphthalene-d_8:	773459
Acenaphthene-d_{10}:	359156
Phenanthrene-d_{10}:	662052
Chrysene-d_{12}:	551895
Perylene-d_{12}:	409341

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	V071701	DCM Wash	1	1.0	7/17/09	1021	mm/li	
2	✓	02	1685-10C-50	2			1045		0% Breakdown
3	✓	03	1685-171-50	3			1117		CCV
4	✓	04	1685-124-4	4			1208		SIM CCV
5	✓	05	DCM Blank	5			1236		
6	✓	06	P090713 ×0907I3	6			1303		cnt SIM
7	✓	07	DCM Blank	7			1328		
8	✓	08	0907125- Blank	8			1356		
9	✓	09	-02A	9			1423		
10	✓	10	-02AA	9			1451		
11	✓	11	-02B	10			1518		
12	✓	12	-03A	11			1546		
13	✗	13	-03B	12			1614		2,4,6-Tribromophenol ↓
14	✓	14	-04A	13			1641		
15		15	-04B	14			1709		2,4,6-Tribromophenol ↓
16		16	-05A	15			1737		
17	✓	17	-05B	16			1804		
18	✓	18	-01A	17			1832		
19	✓	19	-LCS	18			1859		
20	✓	20	0907167B 0907168B -Blank	19			1927		
21	✓	21	-LCS	20			1955		
22	✓	22	0907167B -03A	21	↓	↓	2022		

Calculation Check:

ng of compound = $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{533320}{335278} \times \frac{40.0}{624740} = 51.01$

7 mm 7/17/09
File ID: ~~V071701~~ V071703
Compound: phenol
Initials: RR

Signed

7/20/09
Date

Rev.07/09
Page 8

MSD-V Run Log — @Air Toxics Ltd. — Logbook#: 1837

Method: To-13A

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	
51	30.00 - 60.00% of mass 198	
68	Less than 2.00% of mass 69	( )1
69	Less than 99.90% of mass 198	
70	Less than 2.00% of mass 69	( )1
127	40.00 – 60.00% of mass 198	
197	Less than 1.00% of mass 198	
199	5.00 - 9.00% of mass 198	
275	10.00 - 30.00% of mass 198	
365	Greater than 1.00% of mass 198	
441	Present, but less than mass 443	
442	40.00 - 100.00% of mass 198	
443	17.00 - 23.00% of mass 442	( )2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-V
DFTPP File ID:
DFTPP Injection Date:
DFTPP Injection Time

IS#	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	

Injection Volume: 1.0 µL

li 7/20/09

li 7/20/09 cont. from Pg. 8

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	V07723	09071167B-06A	22	1.0	7/17/09	2050	RBM/li	
2	✓	24	-09A	23			2117		
3	✓	25	09071168B-03A	24			2144		
4	✓	26	-06A	25			2211		
5	✓	27	09071125-03B	26			2239		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22						li 7/20/09			

Calculation Check:

ng of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF}$ = ____ × ____ = ____

File ID:
Compound:
Initials:

li 7/20/09

Signed Date 7/20/09

Air Toxics Ltd.

Data file : /chem/msdv.i/16Jul2009.b/v071605.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 16-JUL-2009 14:19
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10C-50;
Misc Info :
Comment :
Method : /chem/msdv.i/16Jul2009.b/dftpp.m
Meth Date : 04-May-2009 14:11 rnoonan Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug)		
RT	EXP RT	(REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp							CAS #:	
5.232	5.502	(0.000)	198	19894			100.00- 100.00	100.00
5.232	5.502	(0.000)	51	11246			30.00- 60.00	56.53
5.232	5.502	(0.000)	68	69			0.00- 2.00	0.69
5.232	5.502	(0.000)	69	10043			0.00- 99.90	50.48
5.232	5.502	(0.000)	70	0			0.00- 2.00	0.00
5.232	5.502	(0.000)	127	11640			40.00- 60.00	58.51
5.232	5.502	(0.000)	197	0			0.00- 1.00	0.00
5.232	5.502	(0.000)	199	1306			5.00- 9.00	6.56
5.232	5.502	(0.000)	275	4085			10.00- 30.00	20.53
5.232	5.502	(0.000)	365	474			1.00- 0.00	2.38
5.232	5.502	(0.000)	441	1795			0.01- 99.99	76.97
5.232	5.502	(0.000)	442	12170			40.00- 100.00	61.17
5.232	5.502	(0.000)	443	2332			17.00- 23.00	19.16

Data File: /chem/msdv.i/16jul09a.b/v071605.d

Date : 16-JUL-2009 14:19

Client ID: DFTPP 50ng

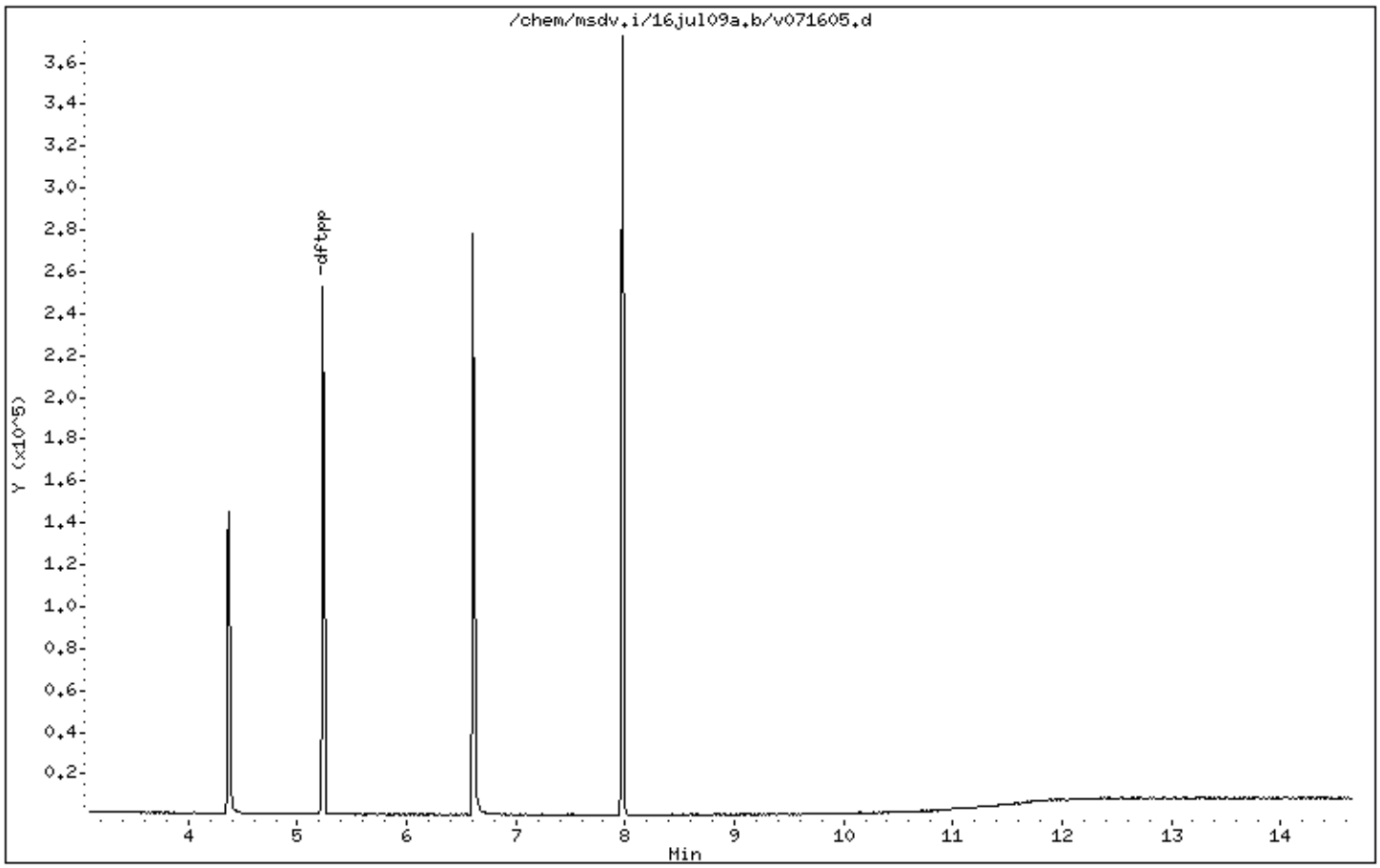
Instrument: msdv.i

Sample Info: ;1685-10C-50;

Operator: rn

Column phase:

Column diameter: 0.25



Data File: /chem/msdv.i/16jul09a.b/v071605.d

Date : 16-JUL-2009 14:19

Client ID: DFTPP 50ng

Instrument: msdv.i

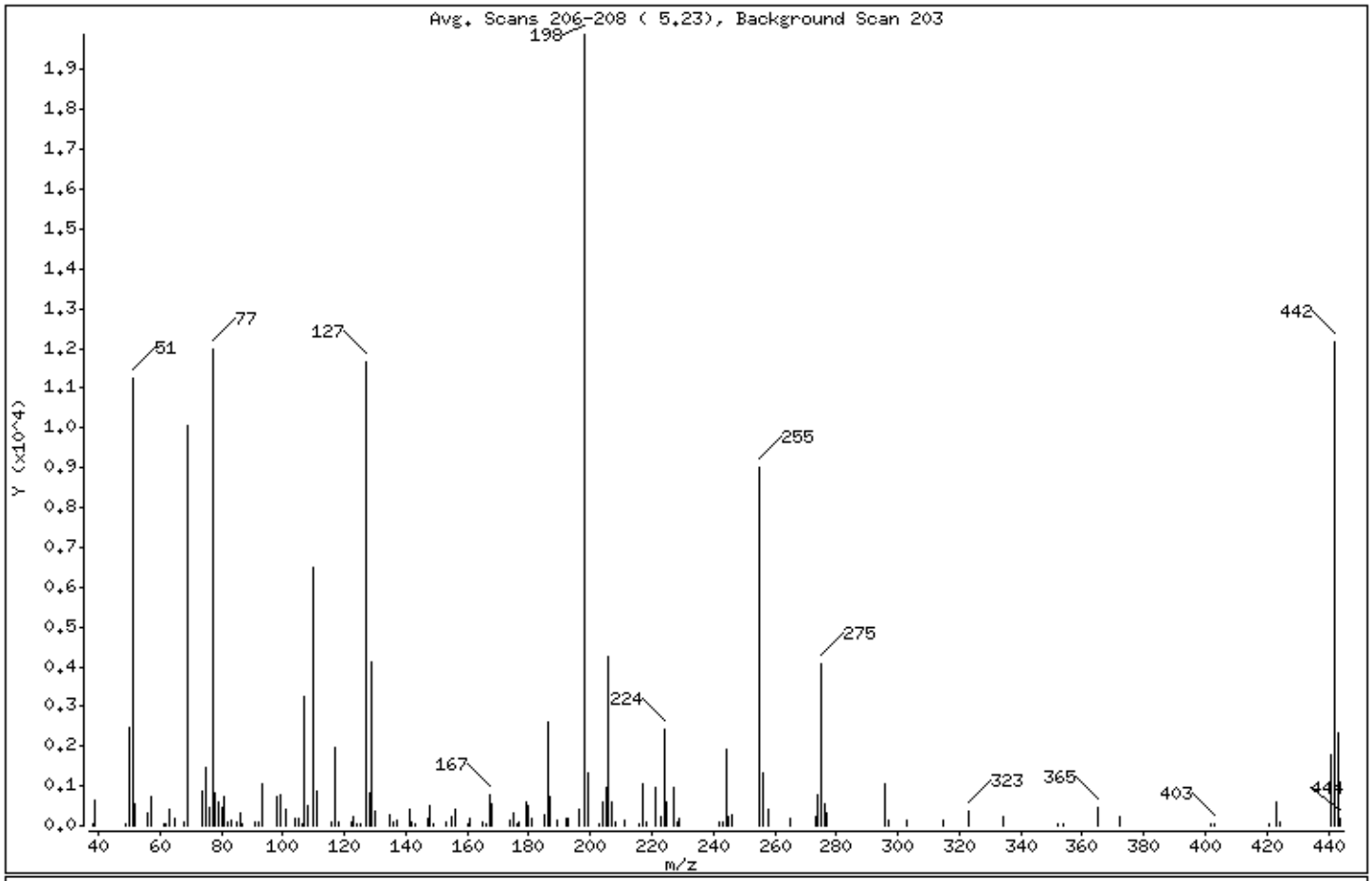
Sample Info: ;1685-10C-50;

Operator: rn

Column phase:

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	56.53
68	Less than 2.00% of mass 69	0.35 (0.69)
69	Less than 99.90% of mass 198	50.48
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	58.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	20.53
365	Greater than 1.00% of mass 198	2.38
441	Present, but less than mass 443	9.02
442	40.00 - 100.00% of mass 198	61.17
443	17.00 - 23.00% of mass 442	11.72 (19.16)

Date : 16-JUL-2009 14:19

Client ID: DFTPP 50ng Instrument: msdv.i

Sample Info: ;1685-10C-50;

Operator: rn

Column phase: Column diameter: 0.25

Data File: v071605.d
Spectrum: Avg. Scans 206-208 (5.23), Background Scan 203
Location of Maximum: 198.00
Number of points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	56	105.00	177	168.00	566	242.00	109
39.00	655	106.00	53	174.00	148	243.00	105
49.00	30	107.00	3252	175.00	333	244.00	1931
50.00	2479	108.00	516	176.00	54	245.00	215
51.00	11246	110.00	6502	177.00	73	246.00	276
52.00	567	111.00	873	179.00	615	255.00	9018
56.00	318	116.00	82	180.00	498	256.00	1320
57.00	753	117.00	1962	181.00	187	258.00	422
61.00	62	118.00	74	185.00	274	265.00	170
62.00	65	122.00	102	186.00	2599	273.00	251
63.00	402	123.00	223	187.00	731	274.00	755
65.00	187	124.00	66	189.00	117	275.00	4085
68.00	69	125.00	60	192.00	182	276.00	529
69.00	10043	127.00	11640	193.00	194	277.00	306
74.00	862	128.00	816	196.00	412	296.00	1057
75.00	1478	129.00	4095	198.00	19888	297.00	159
76.00	476	130.00	343	199.00	1306	303.00	122
77.00	11956	135.00	255	203.00	56	315.00	119
78.00	830	136.00	75	204.00	573	323.00	374
79.00	602	137.00	144	205.00	956	334.00	206
80.00	479	141.00	410	206.00	4245	352.00	60
81.00	720	142.00	79	207.00	592	354.00	60
82.00	103	143.00	59	208.00	73	365.00	474
83.00	155	147.00	171	211.00	136	372.00	209
85.00	77	148.00	497	216.00	50	402.00	50
86.00	298	149.00	50	217.00	1054	403.00	68
87.00	51	153.00	70	218.00	71	421.00	54
91.00	78	155.00	207	221.00	946	423.00	602
92.00	90	156.00	395	223.00	236	424.00	82
93.00	1047	160.00	60	224.00	2437	441.00	1795
98.00	723	161.00	181	225.00	601	442.00	12170
99.00	765	165.00	69	227.00	953	443.00	2332
101.00	427	166.00	55	228.00	109	444.00	178
104.00	187	167.00	775	229.00	180		

Air Toxics Ltd.

Data file : /chem/msdv.i/17Jul2009.b/v071702.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 17-JUL-2009 10:45
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10C-50;
Misc Info :
Comment :
Method : /chem/msdv.i/17Jul2009.b/dftpp.m
Meth Date : 04-May-2009 14:11 rnoonan Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	(REL RT)	MASS	RESPONSE	(ug/L)	(ug)	TARGET RANGE	RATIO
1 dftpp						CAS #:		
5.232	5.502	(0.000)	198	15507			100.00- 100.00	100.00
5.232	5.502	(0.000)	51	8511			30.00- 60.00	54.88
5.232	5.502	(0.000)	68	0			0.00- 2.00	0.00
5.232	5.502	(0.000)	69	7683			0.00- 99.90	49.55
5.232	5.502	(0.000)	70	0			0.00- 2.00	0.00
5.232	5.502	(0.000)	127	8909			40.00- 60.00	57.45
5.232	5.502	(0.000)	197	0			0.00- 1.00	0.00
5.232	5.502	(0.000)	199	1048			5.00- 9.00	6.76
5.232	5.502	(0.000)	275	3159			10.00- 30.00	20.37
5.232	5.502	(0.000)	365	377			1.00- 0.00	2.43
5.232	5.502	(0.000)	441	1519			0.01- 99.99	76.14
5.232	5.502	(0.000)	442	10097			40.00- 100.00	65.11
5.232	5.502	(0.000)	443	1995			17.00- 23.00	19.76

Data File: /chem/msdv.i/17Jul2009.b/v071702.d

Date : 17-JUL-2009 10:45

Client ID: DFTPP 50ng

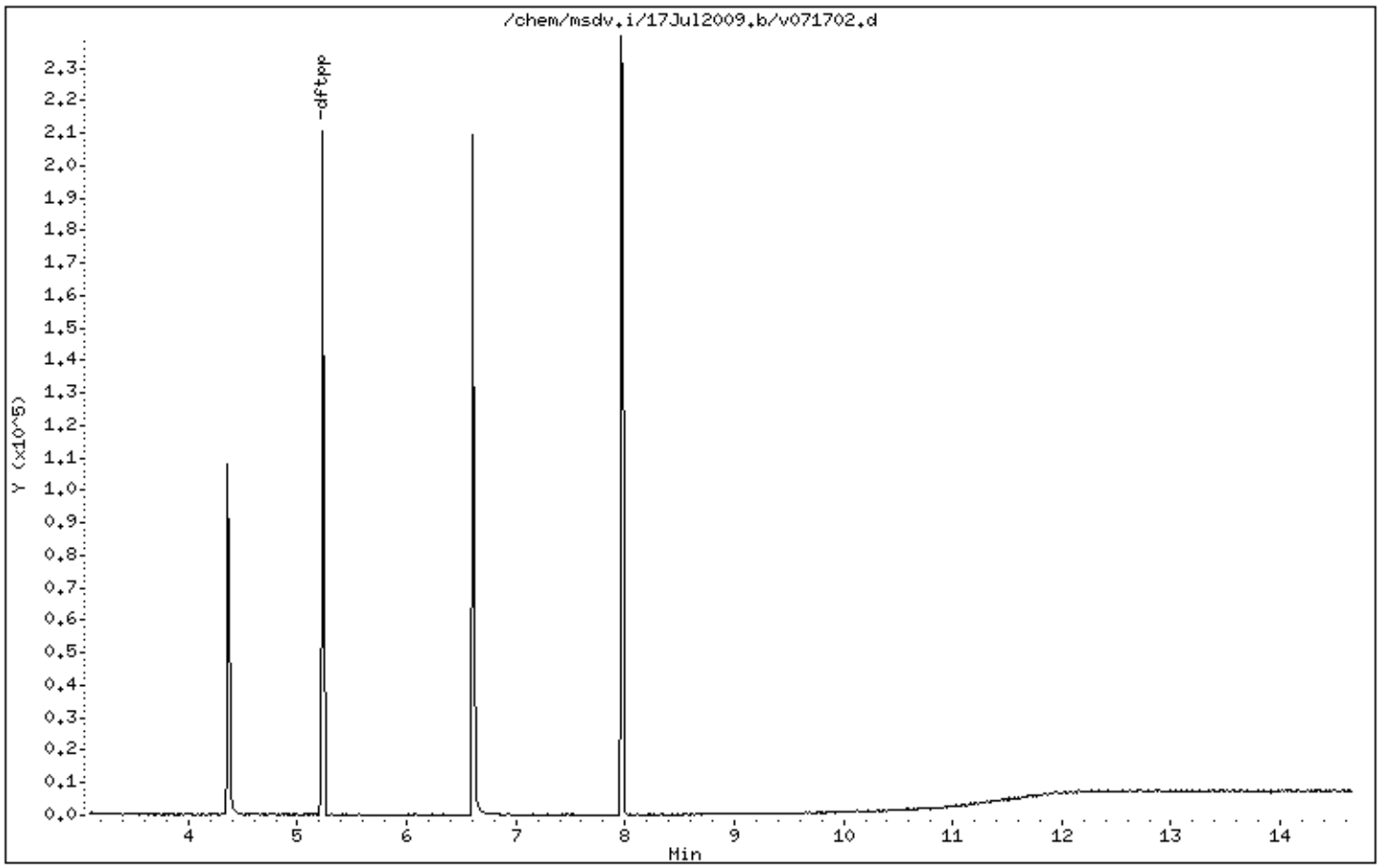
Instrument: msdv.i

Sample Info: ;1685-10C-50;

Operator: rn

Column phase:

Column diameter: 0.25



Data File: /chem/msdv.i/17Jul2009.b/v071702.d

Date : 17-JUL-2009 10:45

Client ID: DFTPP 50ng

Instrument: msdv.i

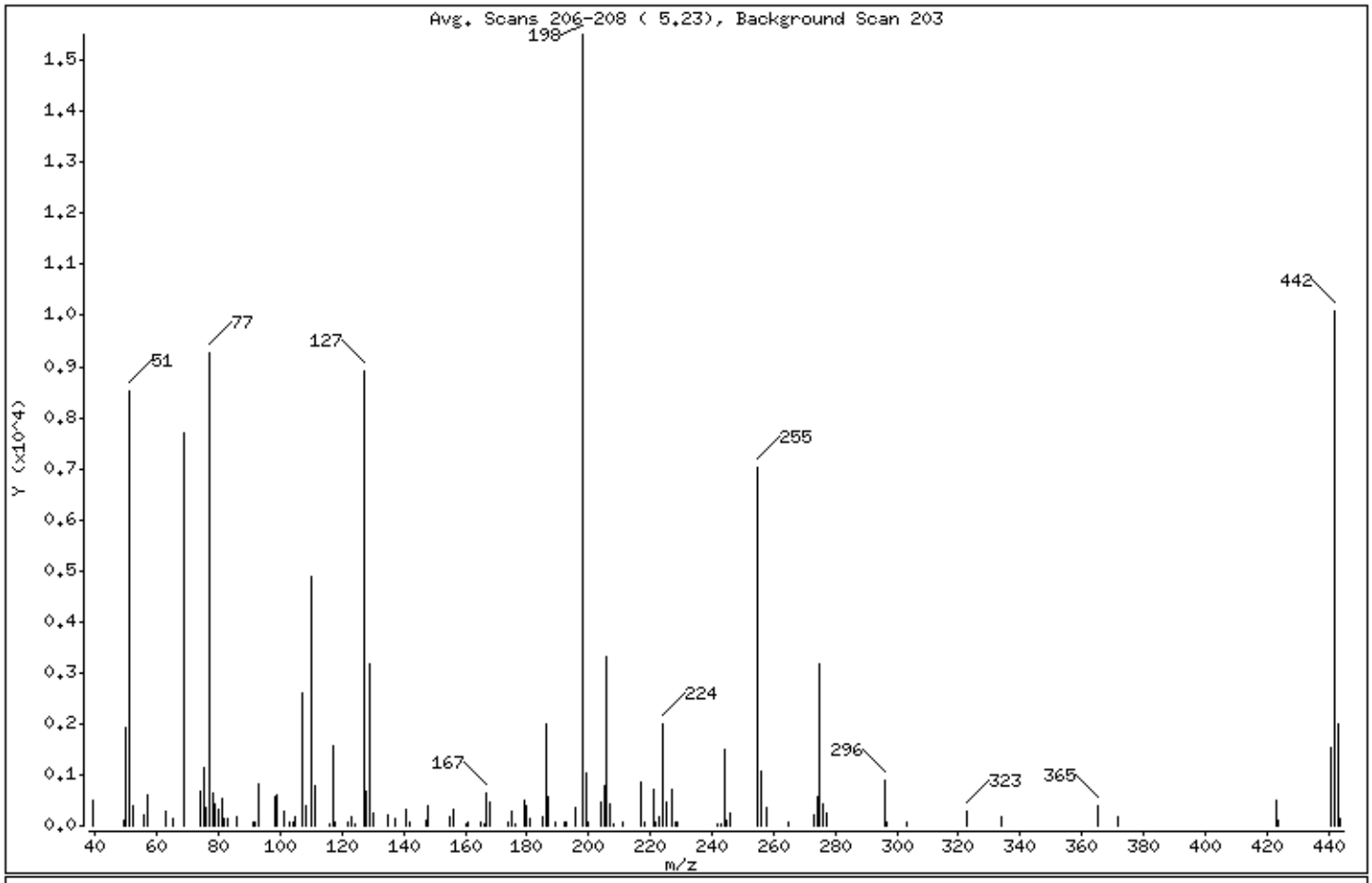
Sample Info: ;1685-10C-50;

Operator: rn

Column phase:

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	54.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 99.90% of mass 198	49.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	57.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	20.37
365	Greater than 1.00% of mass 198	2.43
441	Present, but less than mass 443	9.80
442	40.00 - 100.00% of mass 198	65.11
443	17.00 - 23.00% of mass 442	12.87 (19.76)

Date : 17-JUL-2009 10:45

Client ID: DFTPP 50ng Instrument: msdv.i

Sample Info: ;1685-10C-50;

Operator: rn

Column phase: Column diameter: 0.25

Data File: v071702.d
Spectrum: Avg. Scans 206-208 (5,23), Background Scan 203
Location of Maximum: 198.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	507	107.00	2614	176.00	50	242.00	53
49.00	105	108.00	384	179.00	504	243.00	52
50.00	1919	110.00	4884	180.00	408	244.00	1481
51.00	8511	111.00	767	181.00	147	245.00	108
52.00	388	116.00	53	185.00	191	246.00	232
56.00	203	117.00	1556	186.00	2005	255.00	7024
57.00	593	118.00	68	187.00	584	256.00	1080
63.00	287	122.00	70	189.00	61	258.00	354
65.00	143	123.00	193	192.00	75	265.00	84
69.00	7683	124.00	52	193.00	86	273.00	203
74.00	664	127.00	8909	196.00	354	274.00	588
75.00	1136	128.00	665	198.00	15507	275.00	3159
76.00	355	129.00	3170	199.00	1048	276.00	441
77.00	9258	130.00	237	200.00	54	277.00	260
78.00	626	135.00	204	204.00	452	296.00	883
79.00	412	137.00	132	205.00	786	297.00	69
80.00	328	141.00	321	206.00	3301	303.00	55
81.00	549	142.00	56	207.00	418	323.00	296
82.00	127	147.00	92	208.00	51	334.00	181
83.00	139	148.00	395	211.00	59	365.00	377
86.00	174	155.00	172	217.00	839	372.00	170
91.00	64	156.00	309	218.00	63	423.00	497
92.00	79	160.00	53	221.00	700	424.00	112
93.00	835	161.00	82	222.00	84	441.00	1519
98.00	562	165.00	55	223.00	171	442.00	10097
99.00	612	166.00	53	224.00	2002	443.00	1995
101.00	284	167.00	650	225.00	447	444.00	157
103.00	57	168.00	455	227.00	721		
104.00	74	174.00	71	228.00	75		
105.00	170	175.00	276	229.00	79		

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: Tetra Tech
ATTENTION: Mr. Doug Herlocker
FAX #:
FROM: Sample Receiving
Workorder #: 0907167B
# of pages (Including Cover): 1

7/21/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Kelly Buettner at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA ~~95630-4719~~ 95630
(916) 985-1000 FAX (916) 985-1020

0233

Page 1 of 1

Project Manager: Douglas Herlocker
Collected by: (Print and Sign) Becky DANO
Company: Tetra Tech EM Inc Email: douglas.herlocker@tetratech.com
Address: 3380 Americana Terr. 201 City: Boise State: ID Zip: 83706
Phone: 208 389 1030 Fax: 208 389 1183

Project Info:
P.O. #:
Project #: 103P0333.006
Project Name: Bull offsite

Turn Around Time:
☑ Normal
☐ Rush
specify

Circle Reporting Units:
ppbv ppmv ug/m³ mg/m³

Lab ID	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
	OFF04-070709		07/07/09	727	1717	9.22		TO4A
	OFF04-070709					9.22		TO9A
0234	OFF04-070709					9.22		TO13A
	OFF03-070709			747	1756	10.05		TO4A
	OFF03-070709					10.05		TO9A
0235	OFF03-070709					10.05		TO13A
	OFF03-070709BS			—	—	—		TO4A
	OFF03-070709BS			—	—	—		TO9A
0236	OFF03-070709BS			—	—	—		TO13A

Relinquished by: (signature) Date/Time: Becky DANO 7/8/2009 1600
Received by: (signature) Date/Time: Air 7/9/09 0905

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FEDEX		4°C	Good	(Yes) No None	0907167

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0907167B

Client

Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Phone

208-389-1030

Fax

Date Promised: 07/23/09
Date Completed: 7/20/09
Date Received: 7/9/09
PO#: 103P0333.005
Project#: 103P0333.006 BMI Offsite

Sales Rep: JJM

Total $: $ 675.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
03A	OFF04-070709	Modified TO-13A	7/7/2009	$225.00
06A	OFF03-070709	Modified TO-13A	7/7/2009	$225.00
09A	OFF03-070709BS	Modified TO-13A	7/7/2009	$225.00
10A	Lab Blank	Modified TO-13A	NA	$0.00
11A	LCS	Modified TO-13A	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Las Vegas Phase III/12356

BILL TO: Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Analysis Code: TO-13A

TERMS: NET 45

Reporting Method: Modified TO-13A (rev. 2001)

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records

Air Toxics Ltd.

Performance Check for 8270C

Data file : /chem/msdv.i/17Jul2009.b/v071702a.d
Lab Smp Id: Client Smp ID: BREAKDOWN
Inj Date : 17-JUL-2009 10:45
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10C-50;
Misc Info :
Comment :
Method : /chem/msdv.i/17Jul2009.b/BREAK.m
Meth Date : 17-Jul-2009 11:04 rnoonan Quant Type: ESTD
Cal Date : 20-OCT-2004 08:05 Cal File: p102001a.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (area)	ON-COL (area)
M	1 Total DDT				334355	50.0000	13.91323
	2 Pentachlorophenol	4.362	4.362	0.000	141876	50.0000	12.19067
	3 Benzidine	6.610	6.610	0.000	257451	50.0000	8.329338
	4 p,p'-DDE	Compound Not Detected.					
	5 p,p'-DDD	Compound Not Detected.					
	6 p,p'-DDT	7.968	7.968	0.000	334355	50.0000	13.91323

0% Breakdown.

Sample ID Number	Sample Date			Corrected Average Flow Rate-Qstd (m3/min)	Beginning Timer (hours)	Ending Timer (hours)	Total Sample Time (hours)	Total Sample Volume (m^3)	Total Sample Volume (Liters)
CAMUS1-061609 (TO-4)	6/16/2009	48	42	0.19	866.04	875.33	9.29	105.78	105,778.50
CAMUS1-061809 (TO-4)	6/18/2009	48	48	0.19	875.33	885.02	9.69	110.67	110,667.10
CAMUS1-062309 (TO-4)	6/23/2009	44	44	0.182	885.06	894.3	9.24	100.63	100,627.00
CAMUS1-062509 (TO-4)	6/25/2009	52	52	0.198	894.29	900.67	6.38	75.7	75,695.50
CAMUS1-061609 (TO-9)	6/16/2009	54	50	0.17	849.73	859.02	9.29	94.83	94,829.20
CAMUS1-061809 (TO-9)	6/18/2009	52	52	0.166	859.02	868.71	9.69	96.74	96,735.40
CAMUS1-062309 (TO-9)	6/23/2009	52	52	0.166	868.74	874.52	5.78	57.51	57,510.70
CAMUS1-062509 (TO-9)	6/25/2009	54	52	0.167	874.54	884.36	9.82	98.62	98,621.00
CAMUS1-061609 (TO-13)	6/16/2009	48	42	0.205	922.79	932.07	9.28	114.07	114,066.20
CAMUS1-061809 (TO-13)	6/18/2009	38	38	0.186	932.09	941.77	9.68	108	108,001.60
CAMUS1-062309 (TO-13)	6/23/2009	48	46	0.203	941.75	947.58	5.83	70.94	70,935.20
CAMUS1-062509 (TO-13)	6/25/2009	46	44	0.2	947.6	957.43	9.83	117.67	117,673.40
CAMUS3									
CAMUS3-061609 (TO-4)	6/16/2009	54	48	0.216	861.46	871.05	9.59	124.04	124,036.50
CAMUS3-061809 (TO-4)	6/18/2009	56	56	0.219	871.05	880.48	9.43	123.74	123,738.10
CAMUS3-092309 (TO-4)	6/23/2009	50	50	0.208	880.4	890.05	9.65	120.45	120,452.10
CAMUS3-062509 (TO-4)	6/25/2009	52	52	0.212	890.05	900.72	10.67	135.63	135,632.80
CAMUS3-061609 (TO-9)	6/16/2009	56	50	0.218	864.78	874.36	9.58	125.1	125,095.60
CAMUS3-061809 (TO-9)	6/18/2009	54	54	0.214	874.37	883.79	9.42	120.94	120,935.40
CAMUS3-062309 (TO-9)	6/23/2009	54	54	0.213	883.8	893.36	9.56	122.28	122,275.80
CAMUS3-062509 (TO-9)	6/25/2009	54	52	0.212	893.37	904.02	10.65	135.45	135,450.70
CAMUS3-061609 (TO-13)	6/16/2009	50	48	0.214	976.92	986.5	9.58	123.05	123,046.60
CAMUS3-061809 (TO-13)	6/18/2009	48	48	0.207	986.51	995.94	9.43	117.24	117,240.40
CAMUS3-062309 (TO-13)	6/23/2009	50	50	0.21	995.95	1005.5	9.55	120.31	120,307.40
CAMUS3-062509 (TO-13)	6/25/2009	52	48	0.125	1005.51	1016.18	10.67	80.3	80,299.90
OFF03									
OFF03-061609 (TO-4)	6/17/2009	44	42	0.125	310.57	320.35	9.78	73.6	73,602.00
OFF03-061809 (TO-4)	6/18/2009	NA	NA	NA	320.35	320.35	0	NA	NA
OFF03-062309 (TO-4)	6/23/2009	42	38	0.12	343.51	353.2	9.69	69.49	69,487.50
OFF03-062509 (TO-4)	6/25/2009	56	52	0.144	353.2	363.02	9.82	84.99	84,987.10
OFF03-063009 (TO-4)	6/30/2009	46	40	0.123	363.02	372.51	9.49	69.97	69,971.50
OFF03-070209 (TO-4)	7/2/2009	56	52	0.145	372.51	381.52	9.01	78.46	78,458.90
OFF03-070709 (TO-4)	7/7/2009	58	54	0.146	381.52	391.57	10.05	87.88	87,883.90
OFF03-061609 (TO-9)	6/17/2009	32	31	0.08	1531.49	1541.29	9.8	47.24	47,237.60
OFF03-061809 (TO-9)	6/18/2009	44	42	0.103	1541.29	1550.77	9.48	58.36	58,362.20
OFF03-062309 (TO-9)	6/23/2009	38	30	0.085	1570.77	1580.4	9.63	49.16	49,156.10
OFF03-062509 (TO-9)	6/25/2009	34	34	0.085	1560.49	1570.39	9.9	50.75	50,753.40
OFF03-063009 (TO-9)	6/30/2009	36	32	0.083	1570.34	1579.82	9.48	47.33	47,326.30
OFF03-070209 (TO-9)	7/2/2009	56	52	0.122	1579.82	1588.83	9.01	65.76	65,758.10
OFF03-070709 (TO-9)	7/7/2009	60	50	0.121	1588.83	1598.89	10.06	72.85	72,849.20
OFF03-061609 (TO-13)	6/17/2009	36	39	0.123	1765.17	1774.94	9.77	71.92	71,921.50
OFF03-061809 (TO-13)	6/18/2009	26	26	0.097	1774.96	1784.44	9.48	55.21	55,211.60

OFF03-062309 (TO-13)	6/23/2009	50	42	0.139	1784.44	1794.19	9.75	81.24	81,242.30
OFF03-062509 (TO-13)	6/25/2009	52	46	0.145	1794.19	1803.37	9.18	79.78	79,775.10
OFF03-063009 (TO-13)	6/30/2009	52	48	0.144	1803.4	1812.88	9.48	81.73	81,727.20
OFF03-070209 (TO-13)	7/2/2009	52	48	0.148	1812.88	1821.9	9.02	79.85	79,848.90
OFF03-070709 (TO-13)	7/7/2009	50	44	0.14	1821.9	1831.95	10.05	84.14	84,140.80
OFF04									
OFF04-061609 (TO-4)	6/17/2009	32	32	0.121	1051.77	1060.33	8.56	62.33	62,332.90
OFF04-061809 (TO-4)	6/18/2009	40	40	0.138	1060.34	1069.62	9.28	77.03	77,025.20
OFF04-092309 (TO-4)	6/23/2009	40	40	0.138	1069.62	1079.23	9.61	79.37	79,365.80
OFF04-062509 (TO-4)	6/25/2009	22	20	0.095	1079.89	1089.82	9.93	56.33	56,329.40
OFF04-063009 (TO-4)	6/30/2009	32	30	0.117	1089.82	1098.95	9.13	64.02	64,019.60
OFF04-070209 (TO-4)	7/2/2009	50	46	0.154	1098.95	1107.76	8.81	81.43	81,427.00
OFF04-070709 (TO-4)	7/7/2009	56	52	0.162	1107.76	1116.98	9.22	89.57	89,565.50
OFF04-061609 (TO-9)	6/17/2009	32	31	0.096	4556.43	4564.97	8.54	48.97	48,973.70
OFF04-061809 (TO-9)	6/18/2009	36	34	0.103	4564.97	4574.27	9.3	57.48	57,482.10
OFF04-062309 (TO-9)	6/23/2009	44	44	0.119	4574.27	4583.87	9.6	68.73	68,730.80
OFF04-062509 (TO-9)	6/25/2009	44	40	0.116	4583.88	4594.47	10.59	73.8	73,797.00
OFF04-063009 (TO-9)	6/30/2009	48	46	0.122	4594.47	4603.6	9.13	67.02	67,015.80
OFF04-070209 (TO-9)	7/2/2009	50	48	0.129	4603.6	4612.41	8.81	68.33	68,334.30
OFF04-070709 (TO-9)	7/7/2009	58	56	0.14	4612.41	4621.63	9.22	77.3	77,297.90
OFF04-061609 (TO-13)	6/17/2009	36	39	0.075	909.82	918.36	8.54	38.26	38,258.40
OFF04-061809 (TO-13)	6/18/2009	48	46	0.091	918.37	927.65	9.28	50.68	50,675.40
OFF04-062309 (TO-13)	6/23/2009	28	28	0.056	927.65	937.26	9.61	32.34	32,344.40
OFF04-062509 (TO-13)	6/25/2009	24	24	0.048	937.26	947.85	10.59	30.37	30,366.00
OFF04-063009 (TO-13)	6/30/2009	28	26	0.052	947.85	956.98	9.13	28.72	28,723.20
OFF04-070209 (TO-13)	7/2/2009	45	40	0.084	956.98	965.79	8.81	44.46	44,457.90
OFF04-070709 (TO-13)	7/7/2009	54	46	0.094	965.79	975.01	9.22	52.01	52,005.60

Compound Listing

Modified TO-13A (rev. 2001)

CAS Number	Compound	Detection Limit ug	Type
108-95-2	Phenol	5.0	
111-44-4	bis(2-Chloroethyl) Ether	1.0	
95-48-7	2-Methylphenol (o-Cresol)	5.0	
108-60-1	bis(2-Chloroisopropyl) Ether	1.0	
621-64-7	N-Nitroso-di-n-propylamine	1.0	
106-44-5	4-Methylphenol/3-Methylphenol	5.0	
67-72-1	Hexachloroethane	1.0	
98-95-3	Nitrobenzene	1.0	
78-59-1	Isophorone	1.0	
88-75-5	2-Nitrophenol	5.0	
105-67-9	2,4-Dimethylphenol	5.0	
65-85-0	Benzoic Acid	30	
111-91-1	bis(2-Chloroethoxy) Methane	1.0	
120-83-2	2,4-Dichlorophenol	5.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	
91-20-3	Naphthalene	1.0	
106-47-8	4-Chloroaniline	10	
87-68-3	Hexachlorobutadiene	1.0	
59-50-7	4-Chloro-3-methylphenol	5.0	
91-57-6	2-Methylnaphthalene	1.0	
77-47-4	Hexachlorocyclopentadiene	20	
88-06-2	2,4,6-Trichlorophenol	5.0	
95-95-4	2,4,5-Trichlorophenol	5.0	
91-58-7	2-Chloronaphthalene	1.0	
88-74-4	2-Nitroaniline	10	
131-11-3	Dimethylphthalate	5.0	
208-96-8	Acenaphthylene	1.0	
606-20-2	2,6-Dinitrotoluene	5.0	
99-09-2	3-Nitroaniline	10	
83-32-9	Acenaphthene	1.0	
51-28-5	2,4-Dinitrophenol	20	
100-02-7	4-Nitrophenol	20	
121-14-2	2,4-Dinitrotoluene	5.0	
132-64-9	Dibenzofuran	1.0	
84-66-2	Diethylphthalate	5.0	
86-73-7	Fluorene	1.0	
7005-72-3	4-Chlorophenyl-phenyl Ether	1.0	
100-01-6	4-Nitroaniline	10	
534-52-1	4,6-Dinitro-2-methylphenol	10	
86-30-6	N-Nitrosodiphenylamine	10	
101-55-3	4-Bromophenyl-phenyl Ether	1.0	
118-74-1	Hexachlorobenzene	1.0	
87-86-5	Pentachlorophenol	20	
85-01-8	Phenanthrene	1.0	
120-12-7	Anthracene	1.0	
84-74-2	di-n-Butylphthalate	5.0	

Compound Listing

Modified TO-13A (rev. 2001)

CAS Number	Compound	Detection Limit ug	Type
206-44-0	Fluoranthene	1.0	
129-00-0	Pyrene	1.0	
85-68-7	Butylbenzylphthalate	5.0	
91-94-1	3,3'-Dichlorobenzidine	20	
218-01-9	Chrysene	1.0	
56-55-3	Benzo(a)anthracene	1.0	
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	
117-84-0	Di-n-Octylphthalate	5.0	
205-99-2	Benzo(b)fluoranthene	1.0	
207-08-9	Benzo(k)fluoranthene	1.0	
50-32-8	Benzo(a)pyrene	1.0	
193-39-5	Indeno(1,2,3-c,d)pyrene	1.0	
53-70-3	Dibenz(a,h)anthracene	1.0	
191-24-2	Benzo(g,h,i)perylene	1.0	
367-12-4	2-Fluorophenol		
4165-62-2	Phenol-d5		
4165-60-0	Nitrobenzene-d5		
118-79-6	2,4,6-Tribromophenol		
81103-79-9	Fluorene-d10		
1718-52-1	Pyrene-d10		
95-57-8	2-Chlorophenol	5.0	
541-73-1	1,3-Dichlorobenzene	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0907167B

A_1	A_2	R	T	M	Q	
☐	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	☑	☐	Sample Discrepancy Report (SDR) is completed
☐	☐	☐	☐	☐	☐	Corrective Action issued - #
☐	☐	☐	☐	☐	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / NO)***

☐	☐	☑	☐	☑	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☐	☐	☑	☐	☑	☐	Hold time is met for all samples
		☑	☐	☑	☐	Appropriate data qualifier flags are applied
		☑	☐	☑	☐	Manual integrations for samples and QC are properly documented
☐	☐	☑	☐		☐	Samples analyzed within the project or method specific clock
		☑	☐			Retention times have been verified
☐	☐	☑	☐		☐	Appropriate ICAL(s) included
		☑	☐	☑	☐	At least one result per sample is verified against the target quant sheets/raw data
☐	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		☑	☐			TICs resemble reference spectra
		☑	☐			TICs between duplicate samples are consistent
☐	☐	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑		☑		Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
		☑				Date MDL(s) performed per instrument(s) 11/21/08
☐	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☑ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☐				Verify receipt pressures
☐	☐	☐				Verify canister ID #'s
		☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
				☐		MDL date(s) present for all instruments utilized
		☑	☐	☐	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: Report in ug/m³. client provided the Volumes.

pre-spiked Surrogates. (Field Surrogates).

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1:	R: 7/20/09	7/20/09	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 02/20/09

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable