User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/30/2002 Time: 09:20:09

Sample: AE11421
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/30/02 09:19 Ended: 5/30/02 09:19 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		85		10.0

Comments for Sample AE11421 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-30-2002 Time: 09:20:34

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for 3 of the 43 compounds in the LCS Standard were low.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\052002\11421.D Vial: 11
Acq On : 20 May 2002 9:26 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 23 10:47:40 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.93	152	5245384	40.00	ug/L	0.00
10) Napthalene-d8	13.43	136	20843449	40.00	ug/L	0.00
17) Acenapthalene-d10	18.57	164	11378198	40.00	ug/L	0.00
29) Phenanthranene-d10	22.95	188	16635025	40.00	ug/L	0.00
37) Chrysene-d12	30.80	240	12193865	40.00	ug/L	0.00
43) Perylene-d12	34.70	264	7697739	40.00	ug/L	0.00
System Monitoring Compounds						
27) TCMX	20.54	209	2336000	33.82	ug/L	0.00
Spiked Amount 40.000			Recovery = 84.55%			
Target Compounds						Qvalue
2) n-nitros-dimethyl amine	0.00	74	0	N.D.	d	
3) bis(2-Chloroethyl)ether	0.00	93	0	N.D.		
4) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
5) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
6) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
7) 2,2'oxybis(1-Chloropropane	0.00	45	0	N.D.		
8) N-nitroso-di-propylamine	0.00	70	0	N.D.		
9) Hexachloroethane	0.00	117	0	N.D.		
11) Nitrobenzene	0.00	77	0	N.D.		
12) Isophorone	0.00	82	0	N.D.		
13) bis(2-Chloroethoxy) methan	0.00	93	0	N.D.		
14) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
15) Napthalene	0.00	128	0	N.D.		
16) Hexachlorobutadiene	0.00	225	0	N.D.		
18) 2-Chloronaphthalene	0.00	162	0	N.D.		
19) Dimethylphthalate	0.00	163	0	N.D.		
20) 2,6-Dinitrotoluene	0.00	165	0	N.D.		
21) Acenapthylene	0.00	152	0	N.D.		
22) Acenapthalene	0.00	153	0	N.D.		
23) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
24) Diethylphthalate	0.00	149	0	N.D.		
25) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
26) Fluorene	0.00	166	0	N.D.		
28) Azobenzene	20.54	77	39055	N.D.		
30) Nnitrosodiphenylamine	20.55	169	44523	N.D.		
31) 4-Bromophenyl-phenylether	0.00	248	0	N.D.		
32) Hexachlorobenzene	0.00	284	0	N.D.		
33) Phenanthrene	0.00	178	0	N.D.		
34) Anthracene	0.00	178	0	N.D.		
35) Di-n-butylphthalate	25.09	149	19441	N.D.		

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

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	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Fluoroanthene	0.00	202	0	N.D.	
38)	Pyrene	0.00	202	0	N.D.	
39)	Butylbenzylphthalate	0.00	149	0	N.D.	
40)	Benzo(a)anthracene	30.81	228	32438	N.D.	
41)	Bis(2-ethylhexyl)phthalate	0.00	149	0	N.D.	
42)	Chrysene	0.00	228	0	N.D.	
44)	Di-n-octylphthalate	0.00	149	0	N.D.	
45)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
46)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
47)	Benzo(a)pyrene	0.00	252	0	N.D.	
48)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
49)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
50)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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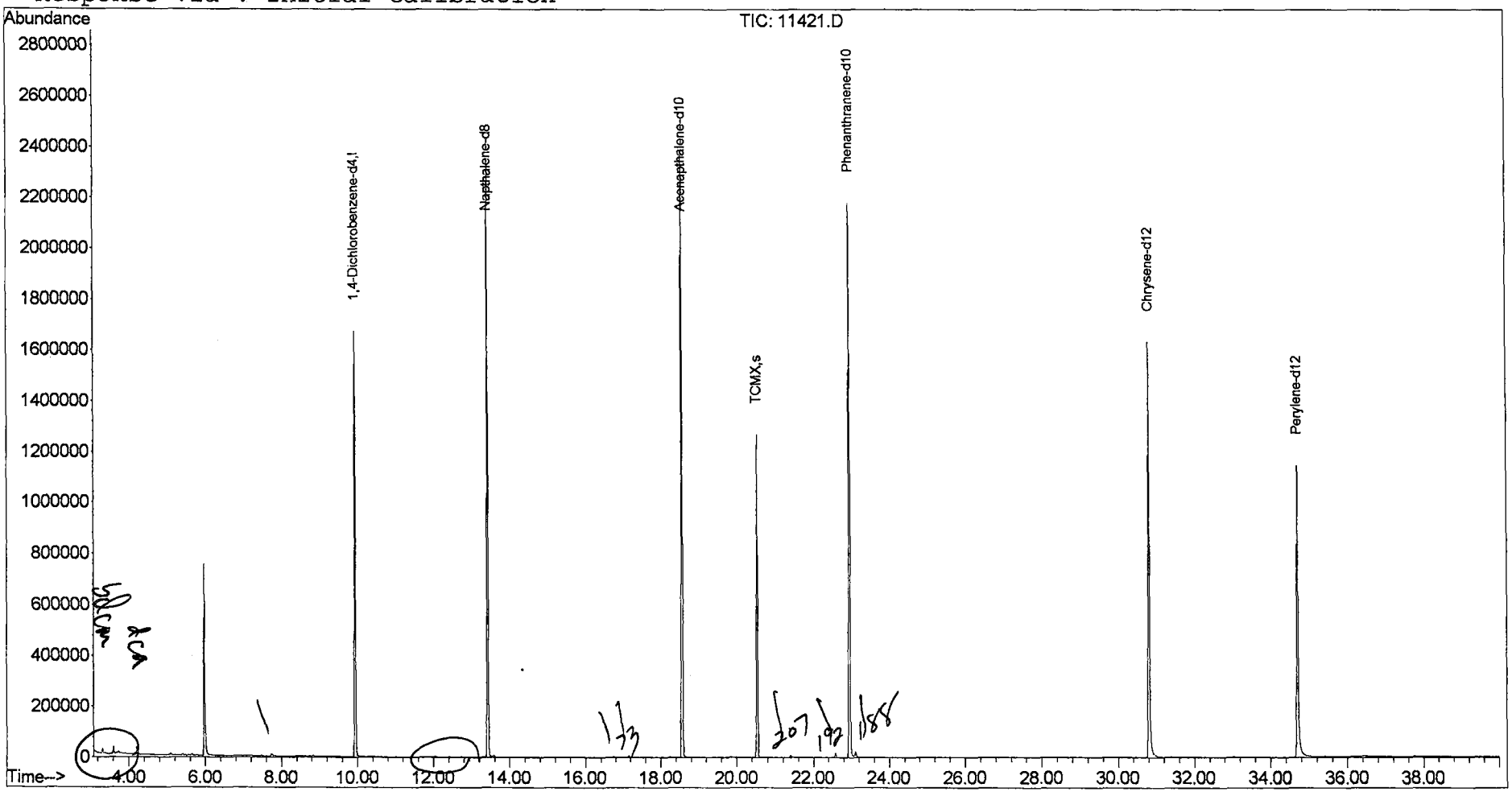
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\052002\11421.D Vial: 11
Acq On : 20 May 2002 9:26 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan

Signal : TIC

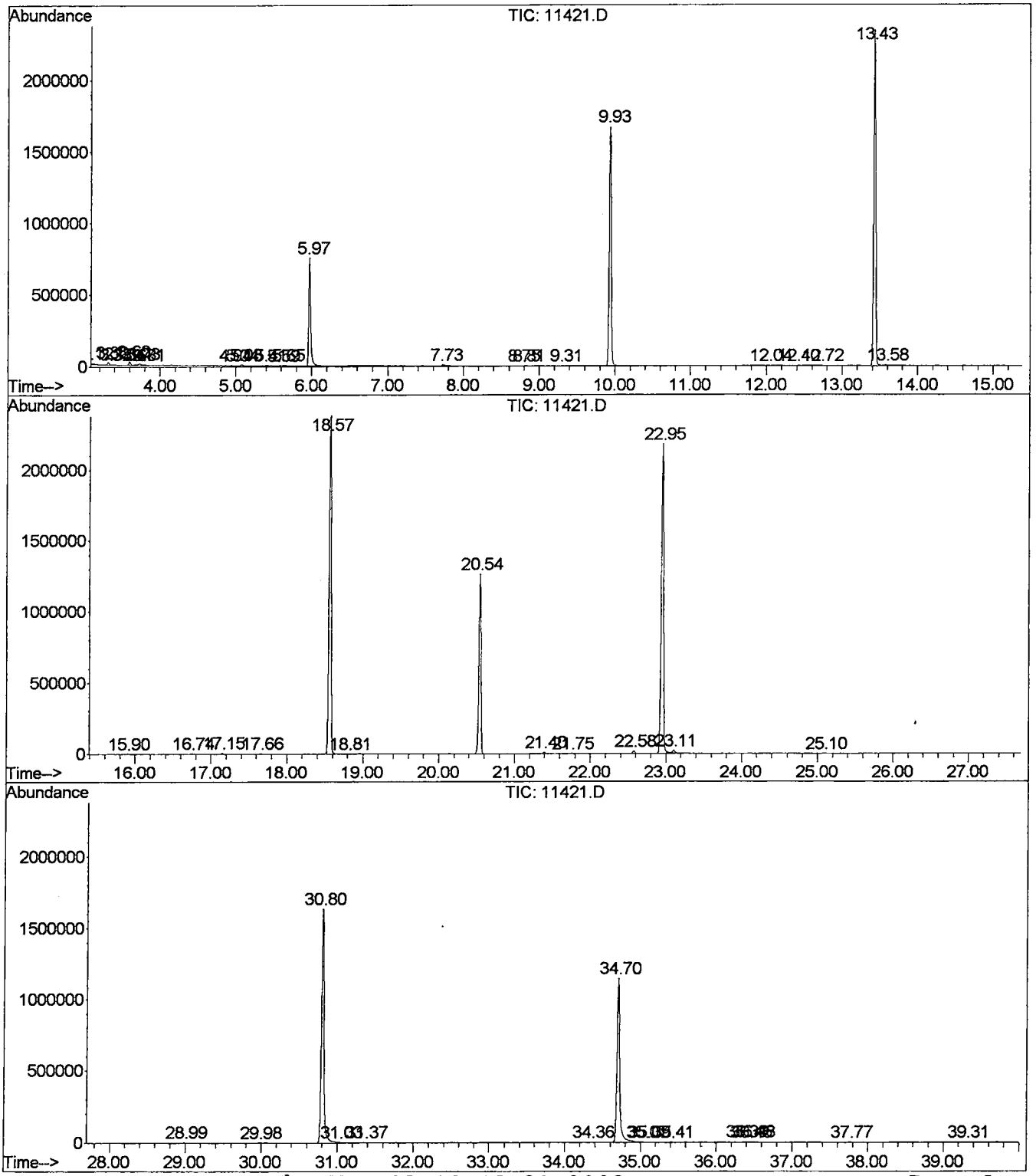
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.114	3	6	15	BV 2	3276	58852	0.13%	0.021%
2	3.320	34	41	47	PV	18444	289280	0.62%	0.106%
3	3.373	47	50	56	VV 6	3434	74673	0.16%	0.027%
4	3.537	71	78	82	PV 7	1764	39667	0.09%	0.014%
5	3.602	82	89	97	VV	26569	463527	1.00%	0.169%
6	3.673	97	101	103	VV 4	4033	70491	0.15%	0.026%
7	3.731	103	111	122	VV 2	11635	405619	0.87%	0.148%
8	3.808	122	124	131	VV 6	4534	103183	0.22%	0.038%
9	4.942	314	317	322	VV 4	2858	42551	0.09%	0.016%
10	5.036	329	333	336	PV 6	2804	46450	0.10%	0.017%
11	5.083	336	341	358	VV 4	7986	205994	0.44%	0.075%
12	5.412	391	397	402	VV 3	4616	96465	0.21%	0.035%
13	5.582	422	426	430	VV 4	1803	33636	0.07%	0.012%
14	5.647	430	437	442	VV 7	4458	111903	0.24%	0.041%
15	5.970	486	492	520	VV	734353	13126461	28.19%	4.792%
16	7.733	787	792	804	PV 3	7742	195549	0.42%	0.071%
17	8.743	952	964	970	PV 5	1832	31738	0.07%	0.012%
18	8.814	973	976	986	VV 7	2596	57895	0.12%	0.021%
19	9.307	1055	1060	1072	VV 7	2595	70945	0.15%	0.026%
20	9.936	1157	1167	1187	PV	1664736	31474235	67.59%	11.489%
21	12.034	1517	1524	1530	VV	3522	66145	0.14%	0.024%
22	12.404	1578	1587	1592	VV 4	2944	55627	0.12%	0.020%
23	12.721	1637	1641	1661	VV	2310	65840	0.14%	0.024%
24	13.426	1749	1761	1780	BV	2305514	42490398	91.24%	15.510%
25	13.585	1780	1788	1805	VV 3	6977	181235	0.39%	0.066%
26	15.900	2172	2182	2191	PV 6	1905	39792	0.09%	0.015%
27	16.746	2319	2326	2336	PV 3	3879	82070	0.18%	0.030%
28	17.145	2389	2394	2400	VV 3	7169	122113	0.26%	0.045%
29	17.657	2477	2481	2488	PV 5	3509	53122	0.11%	0.019%
30	18.567	2625	2636	2655	PV	2382326	46567395	100.00%	16.998%
31	18.814	2672	2678	2682	VV 3	1875	31615	0.07%	0.012%
32	20.541	2960	2972	2986	PV	1246532	23344290	50.13%	8.521%
33	21.393	3109	3117	3126	VV 2	10018	167506	0.36%	0.061%
34	21.752	3167	3178	3184	VV 7	1829	40056	0.09%	0.015%
35	22.580	3308	3319	3328	PV 2	17878	324810	0.70%	0.119%
36	22.950	3372	3382	3402	BV 2	2148291	45386295	97.46%	16.567%
37	23.109	3402	3409	3420	VV 3	20358	490000	1.05%	0.179%

38	25.095	3739	3747	3752	PV	2	1717	38309	0.08%	0.014%
39	28.996	4405	4411	4415	PV	4	2455	37302	0.08%	0.014%
40	29.978	4568	4578	4585	PV	5	1438	30948	0.07%	0.011%
41	30.806	4707	4719	4756	PV	2	1626340	38042277	81.69%	13.886%
42	31.035	4756	4758	4772	VV	6	3892	152905	0.33%	0.056%
43	31.370	4810	4815	4816	PV	4	729	4781	0.01%	0.002%
44	34.361	5322	5324	5330	VV	4	2134	28099	0.06%	0.010%
45	34.702	5364	5382	5443	PV	2	1129847	28603608	61.42%	10.441%
46	35.072	5443	5445	5447	VV	2	2160	20766	0.04%	0.008%
47	35.095	5447	5449	5452	VV	3	1960	26558	0.06%	0.010%
48	35.412	5496	5503	5509	VV	6	2942	76936	0.17%	0.028%
49	36.394	5665	5670	5678	VV	6	4136	135927	0.29%	0.050%
50	36.452	5678	5680	5681	VV	2	3323	39129	0.08%	0.014%
51	36.482	5681	5685	5697	VV	7	3891	122532	0.26%	0.045%
52	37.769	5895	5904	5914	PV	9	1756	51158	0.11%	0.019%
53	39.314	6164	6167	6178	VV	5	1401	33402	0.07%	0.012%

Sum of corrected areas: 273952059

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\052002\11421.D
Operator : Mclean
Acquired : 20 May 2002 9:26 pm using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/16 eh
Misc Info :
Vial Number: 11
Quant File :050102.RES (Chemstation Integrator)



Library Search Compound Report

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Acq On : 20 May 2002 9:26 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

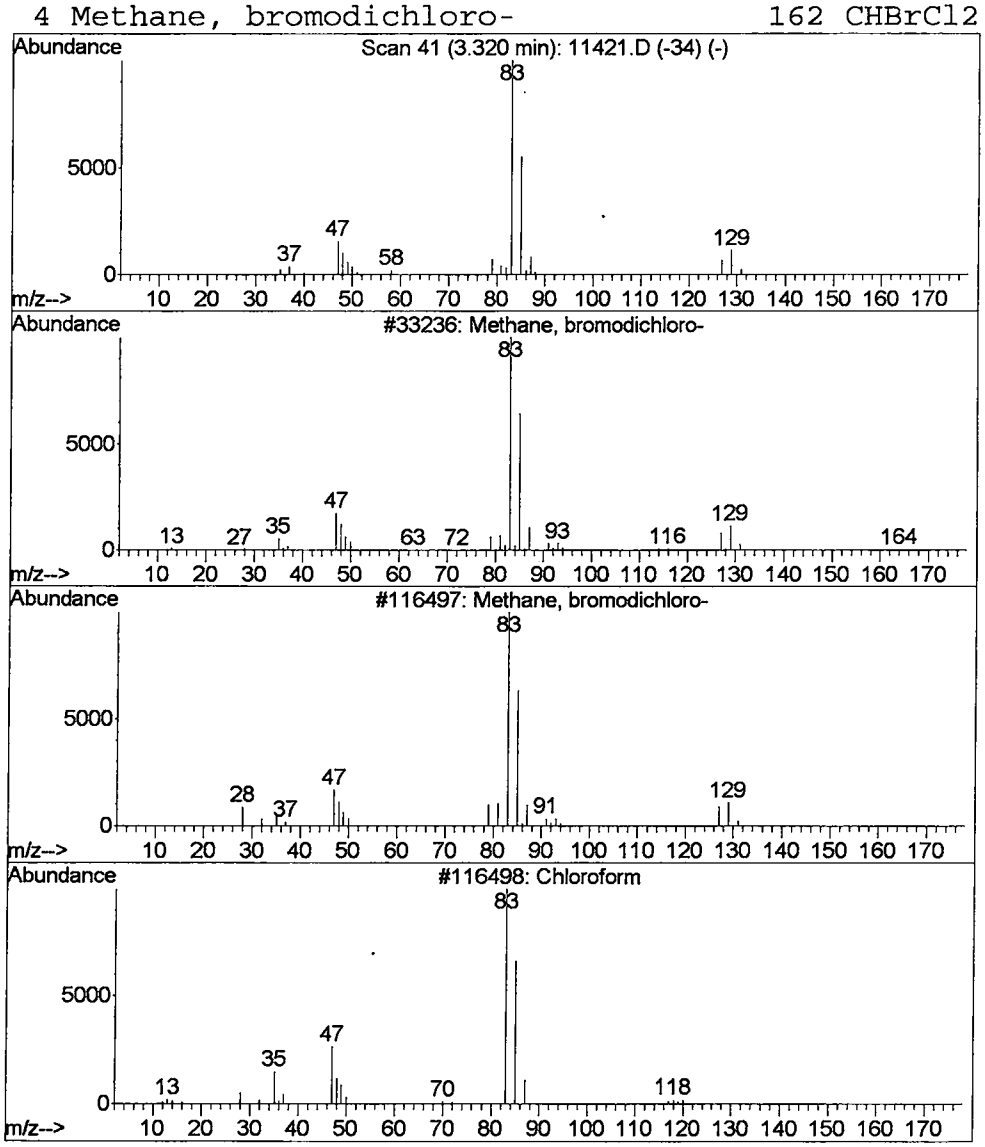
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

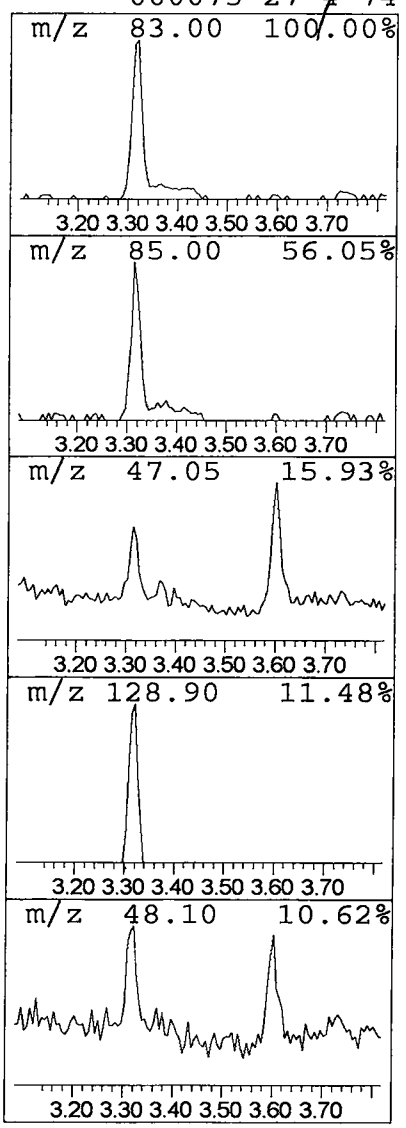
****

Peak Number 1 Methane, bromodichloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.32	0.37 ug/L	289280	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	83
2	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	83
3	Chloroform	118	CHCl3	000067-66-3	78
4	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	74





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Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
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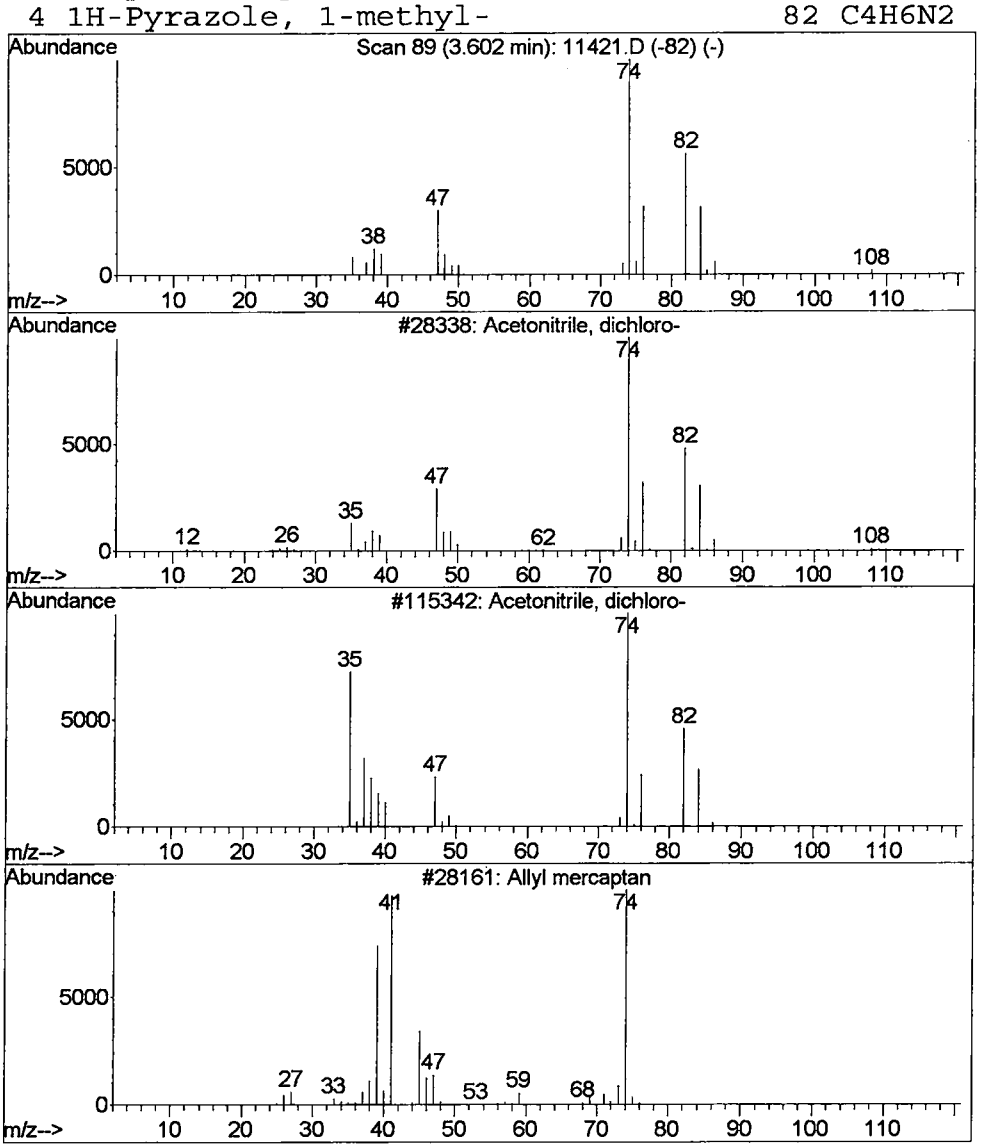
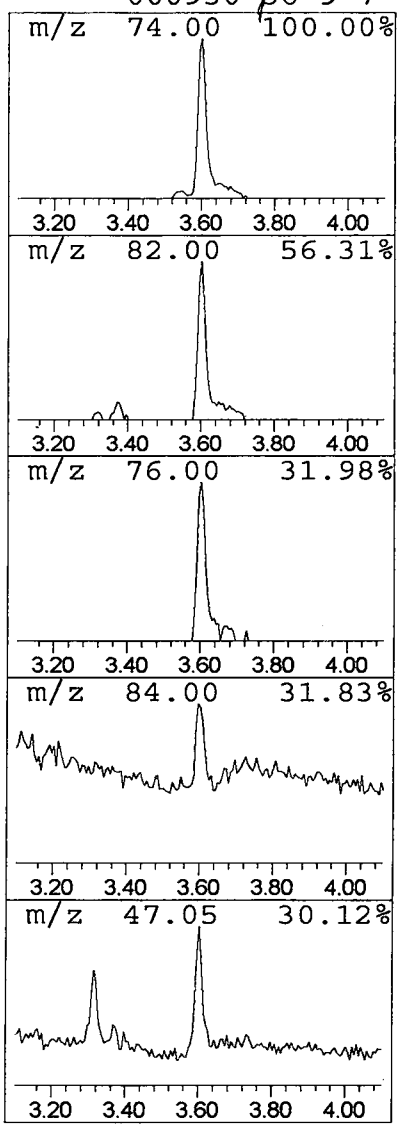
****

Peak Number 2 Acetonitrile, dichloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.60	0.59 ug/L	463527	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetonitrile, dichloro-	109	C2HCl2N	003018-12-0	78
2	Acetonitrile, dichloro-	109	C2HCl2N	003018-12-0	32
3	Allyl mercaptan	74	C3H6S	000870-23-5	9
4	1H-Pyrazole, 1-methyl-	82	C4H6N2	000930-36-9	7





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Misc :
MS Integration Params: LSCINT.e

Vial: 11
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

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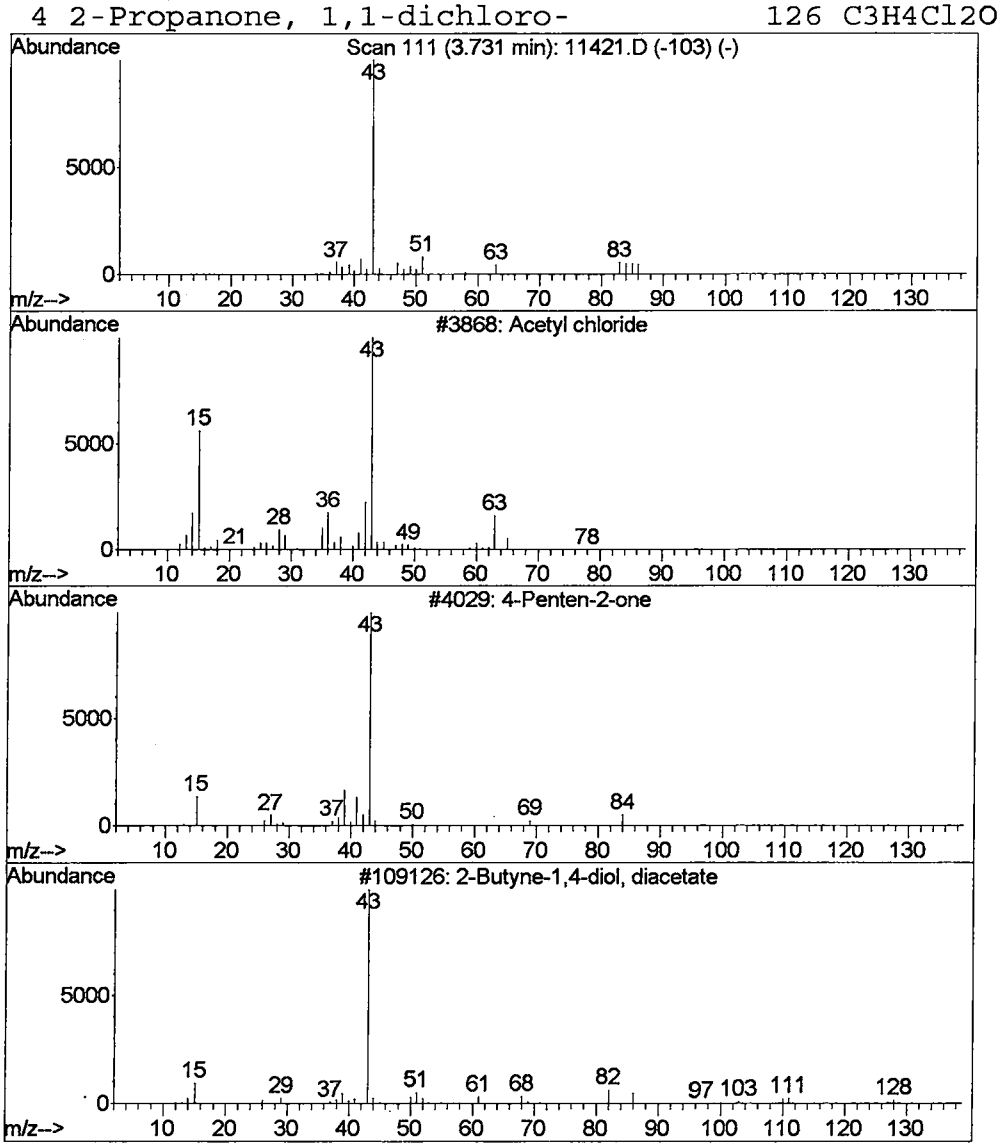
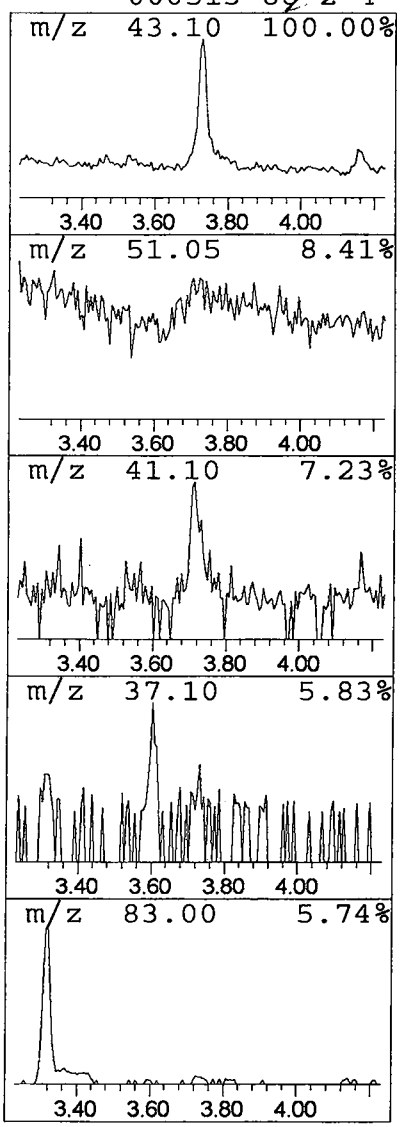
Peak Number 3 Acetyl chloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.73	0.52 ug/L	405619	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetyl chloride	78	C2H3ClO	000075-36-5	9
2	4-Penten-2-one	84	C5H8O	013891-87-7	7
3	2-Butyne-1,4-diol, diacetate	170	C8H10O4	001573-17-7	4
4	2-Propanone, 1,1-dichloro-	126	C3H4Cl2O	000513-88-2	4





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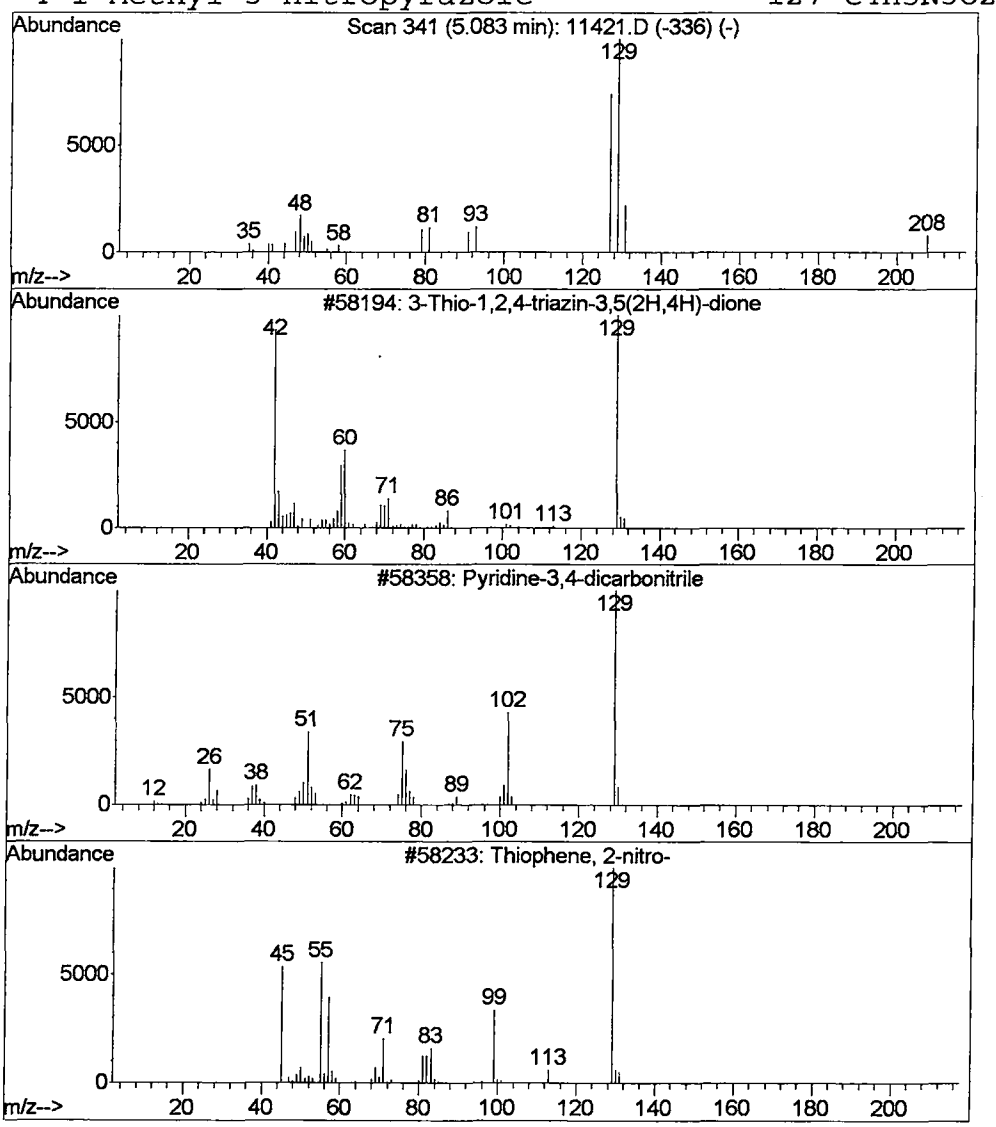
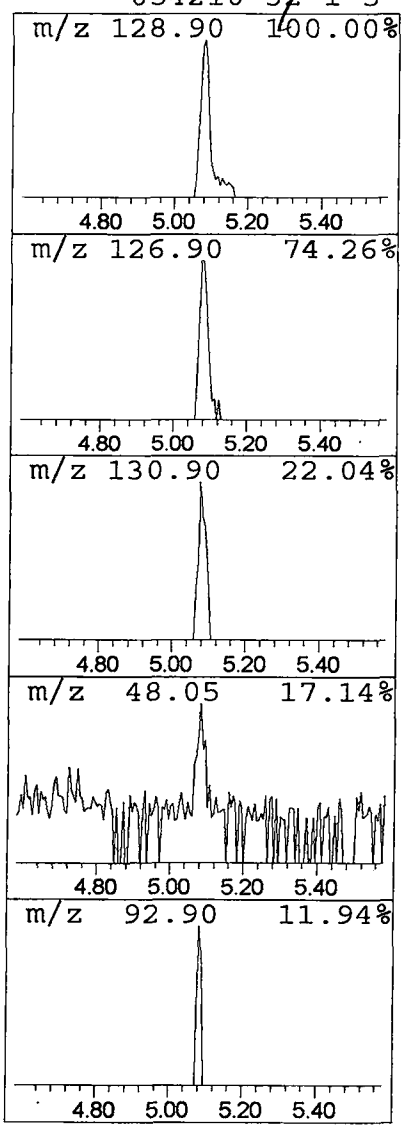
Peak Number 4 3-Thio-1,2,4-triazin-3,5(2H... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	0.26 ug/L	205994	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Thio-1,2,4-triazin-3,5(2H,4H)-...	129	C3H3N3OS	1000213-20-1	9
2	Pyridine-3,4-dicarbonitrile	129	C7H3N3	001633-44-9	7
3	Thiophene, 2-nitro-	129	C4H3NO2S	000609-40-5	7
4	1-Methyl-3-nitropyrazole	127	C4H5N3O2	054210-32-1	5





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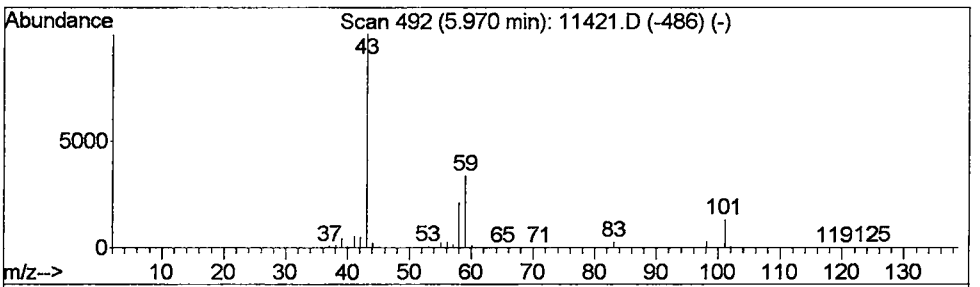
Library : C:\DATABASE\NIST98.L

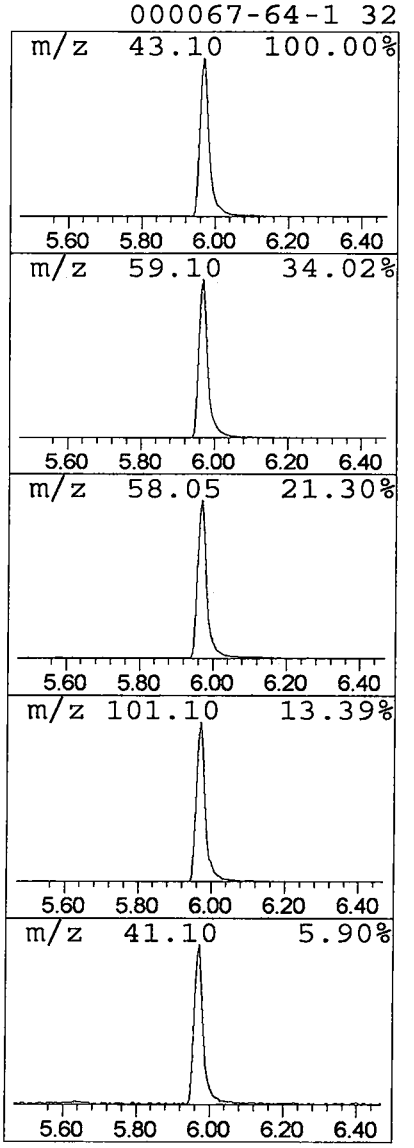
****

Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.97	16.68 ug/L	13126500	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	86
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
4	Acetone	58	C3H6O	000067-64-1	32





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Library : C:\DATABASE\NIST98.L

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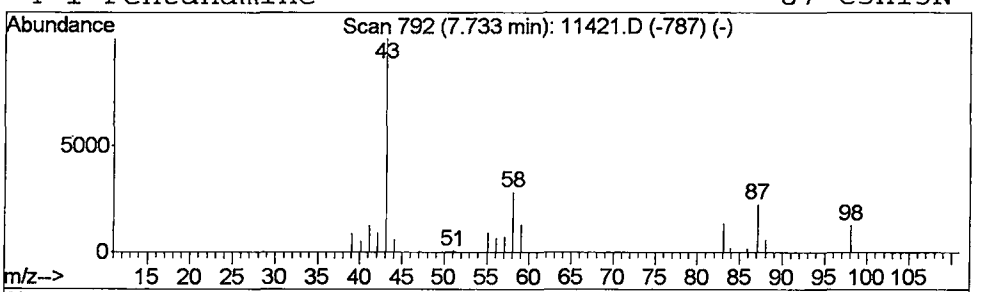
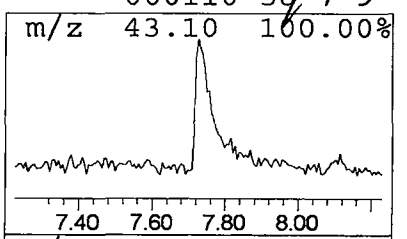
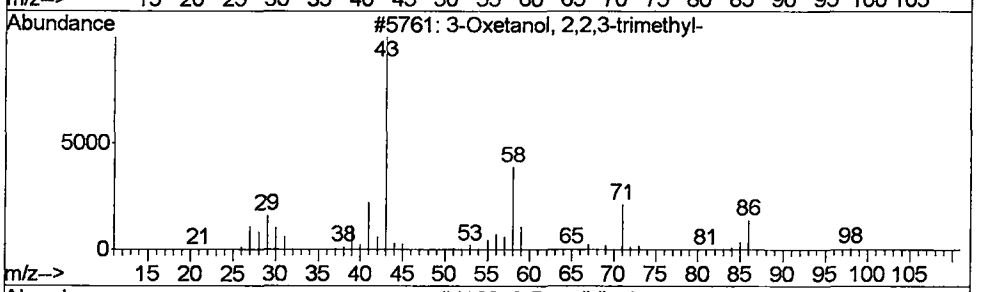
Peak Number 6 3-Oxetanol, 2,2,3-trimethyl- Concentration Rank 8

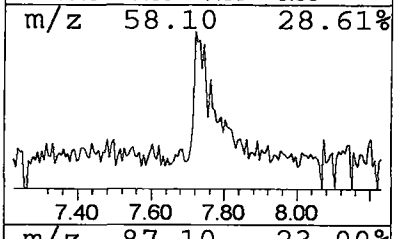
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.73	0.25 ug/L	195549	1,4-Dichlorobenzene-d4	9.93

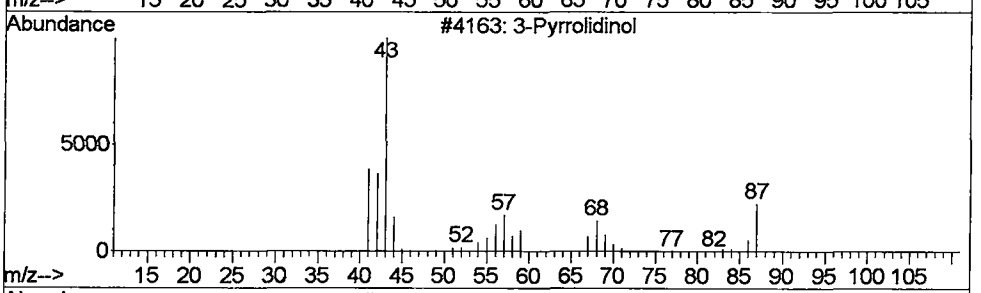
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Oxetanol, 2,2,3-trimethyl-	116	C6H12O2	025910-96-7	25
2	3-Pyrrolidinol	87	C4H9NO	040499-83-0	23
3	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	10
4	1-Pentanamine	87	C5H13N	000110-58-7	9

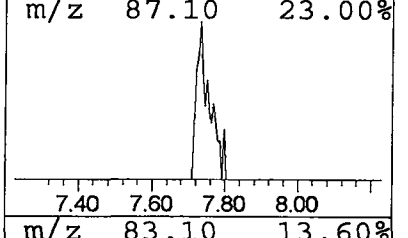


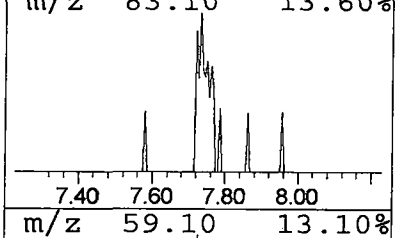


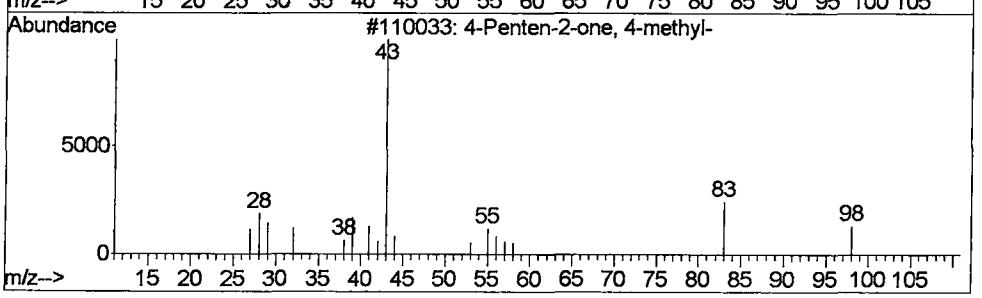


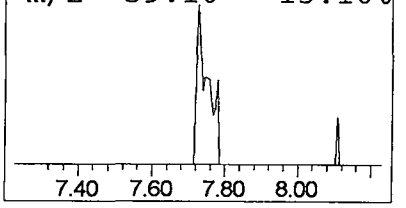












Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\052002\11421.D Vial: 11
Acq On : 20 May 2002 9:26 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

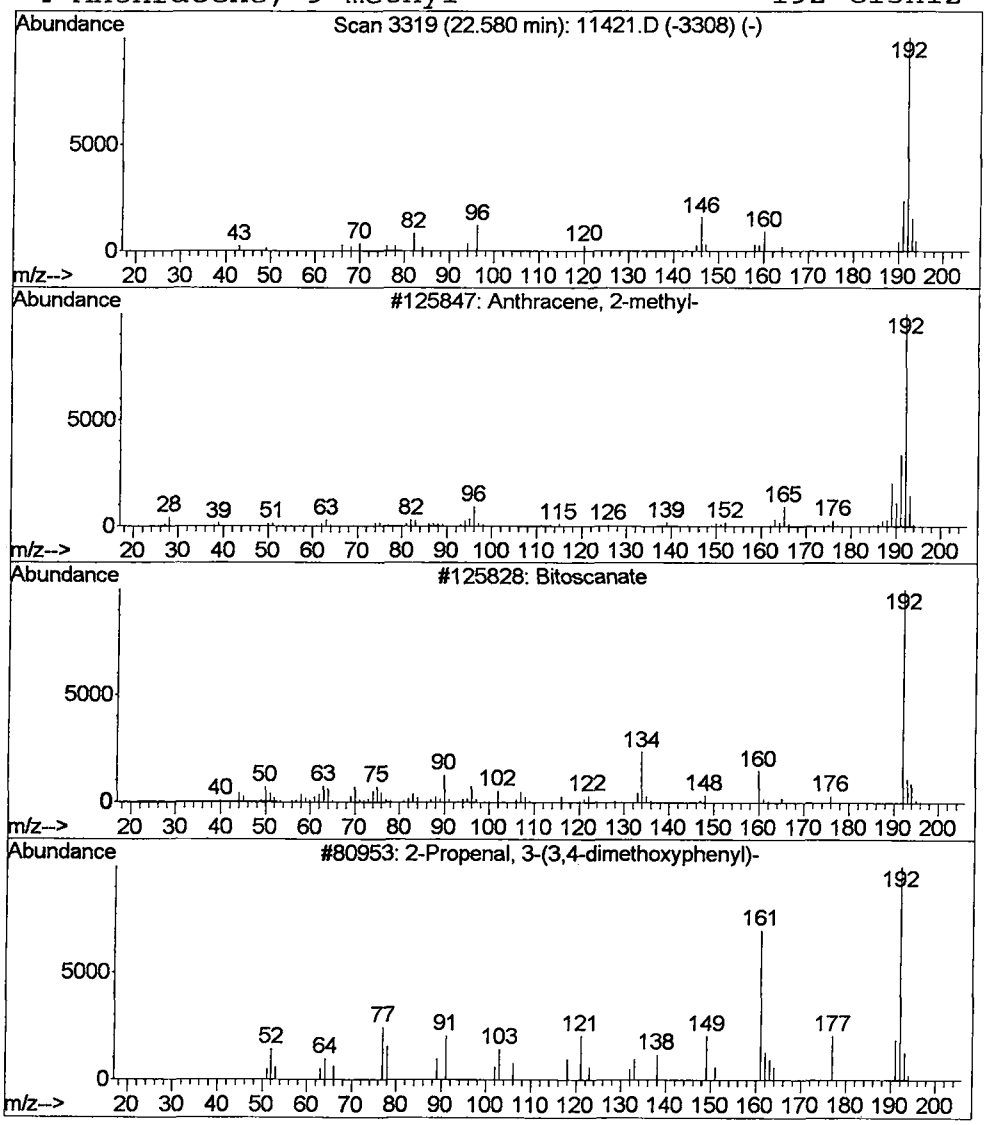
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

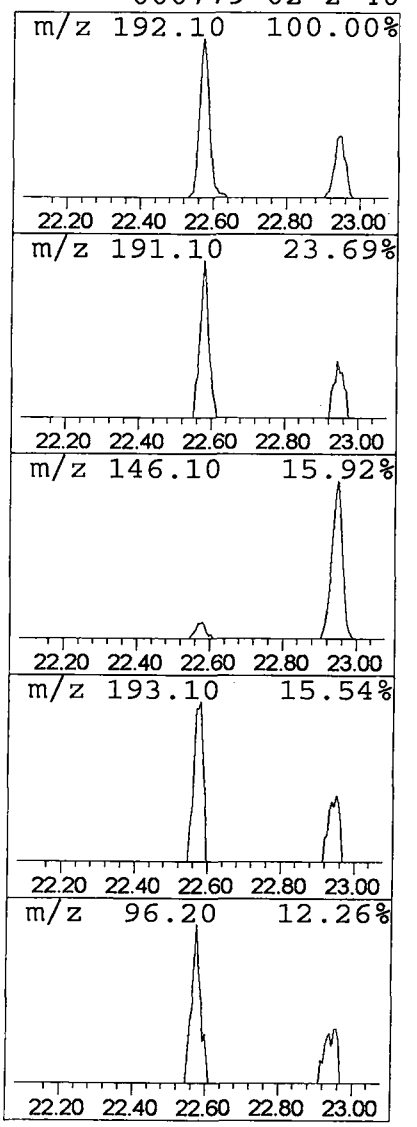
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	0.29 ug/L	324810	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	59
2	Bitoscanate	192	C8H4N2S2	004044-65-9	50
3	2-Propenal, 3-(3,4-dimethoxyphen...	192	C11H12O3	004497-40-9	45
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	40





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\052002\11421.D Vial: 11
Acq On : 20 May 2002 9:26 pm Operator: Mclean
Sample : 5/16 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

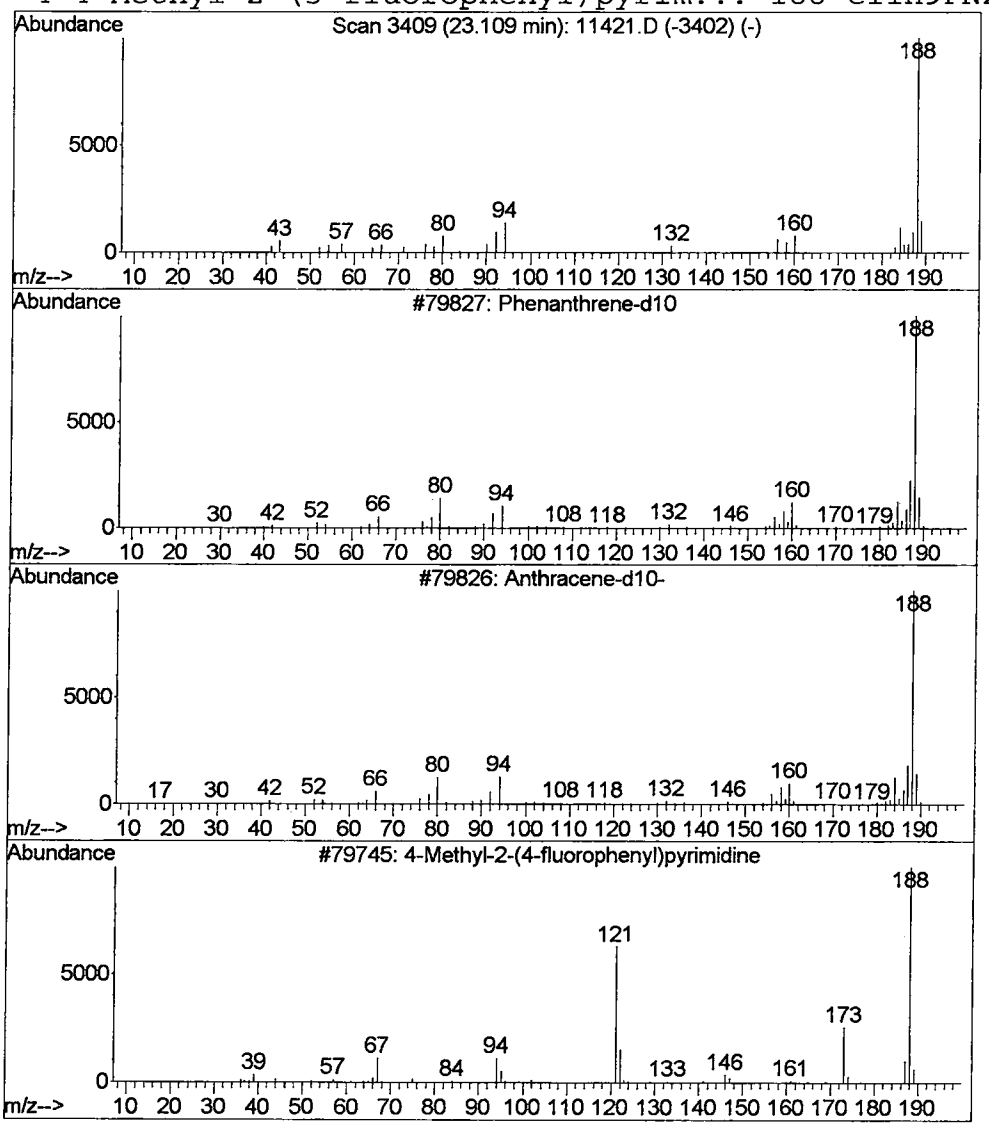
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

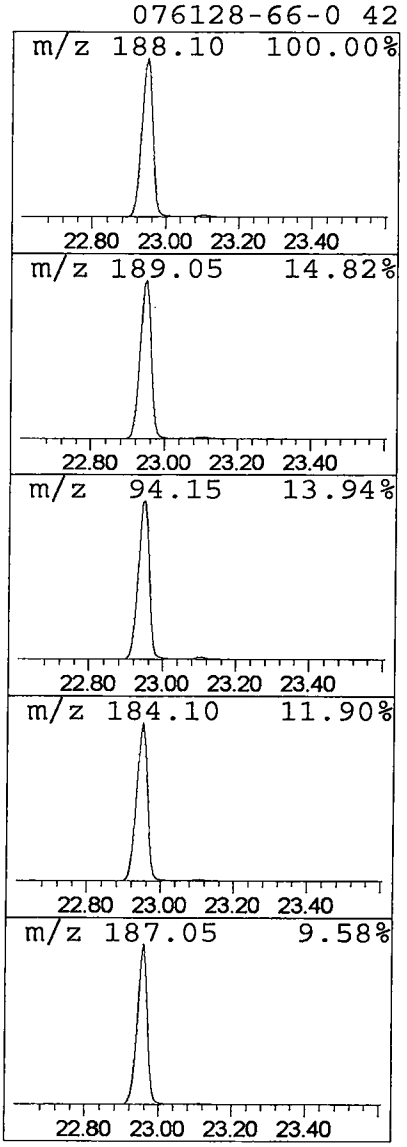
****

Peak Number 8 Phenanthrene-d10 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	0.43 ug/L	490000	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene-d10	188	C14D10	001517-22-2	80
2	Anthracene-d10-	188	C14D10	001719-06-8	50
3	4-Methyl-2-(4-fluorophenyl)pyrim...	188	C11H9FN2	076128-67-1	42
4	4-Methyl-2-(3-fluorophenyl)pyrim...	188	C11H9FN2	076128-66-0	42





Tentatively Identified Compound (LSC) summary

Operator ID: Mclean Date Acquired: 20 May 2002 9:26 pm
Data File: C:\MSDCHEM\1\DATA\052002\11421.D
Name: 5/16 eh
Misc:
Method: C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title: 508 Modified GC/MS scan
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Methane, bromodic...	3.32	0.4	ug/L	289280	1	9.93	31474200	40.0
Acetonitrile, dic...	3.60	0.6	ug/L	463527	1	9.93	31474200	40.0
Acetyl chloride	3.73	0.5	ug/L	405619	1	9.93	31474200	40.0
3-Thio-1,2,4-tria...	5.08	0.3	ug/L	205994	1	9.93	31474200	40.0
2-Pentanone, 4-hy...	5.97	16.7	ug/L	13126500	1	9.93	31474200	40.0
3-Oxetanol, 2,2,3...	7.73	0.2	ug/L	195549	1	9.93	31474200	40.0
Anthracene, 2-met...	22.58	0.3	ug/L	324810	4	22.95	45386300	40.0
Phenanthrene-d10	23.11	0.4	ug/L	490000	4	22.95	45386300	40.0