User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/28/2002 Time: 15:20:11

Sample: AE11414
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/28/02 15:19 Ended: 5/28/02 15:19 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		87		10.0

Comments for Sample AE11414 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-28-2002 Time: 15:20:42

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.

Data File : C:\MSDCHEM\1\DATA\051702\11414.D Vial: 23
Acq On : 18 May 2002 7:32 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 20 09:52:22 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	5080079	40.00	ug/L	0.00
10) Napthalene-d8	13.43	136	20037277	40.00	ug/L	0.00
17) Acenapthalene-d10	18.57	164	10848821	40.00	ug/L	0.00
29) Phenanthranene-d10	22.95	188	15871199	40.00	ug/L	0.00
37) Chrysene-d12	30.81	240	11952639	40.00	ug/L	0.00
43) Perylene-d12	34.71	264	7569089	40.00	ug/L	0.00
System Monitoring Compounds						
27) TCMX	20.54	209	2284608	34.69	ug/L	0.00
Spiked Amount 40.000			Recovery = 86.72%			
Target Compounds						Qvalue
2) n-nitros-dimethyl amine	0.00	74	0	N.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	40547	N.D.		
30) Nnitrosodiphenylamine	20.54	169	43407	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	0.00	149	0	N.D.		

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

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Last Update : Mon May 13 11:40:29 2002
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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	28928	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

Quantitation Report (QT Reviewed)

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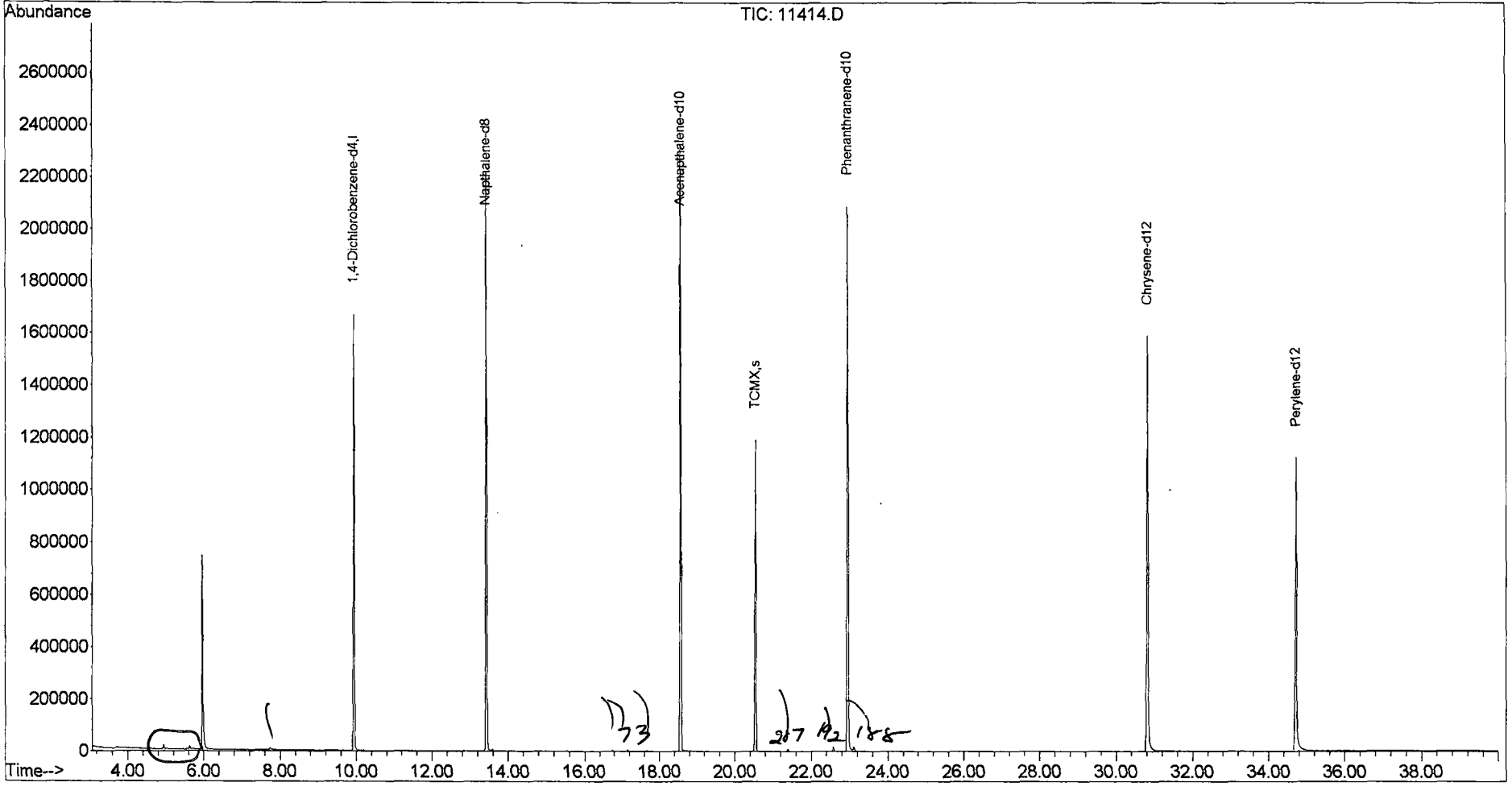
Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\051702\11414.D Vial: 23
Acq On : 18 May 2002 7:32 am Operator: Mclean
Sample : 5/15 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

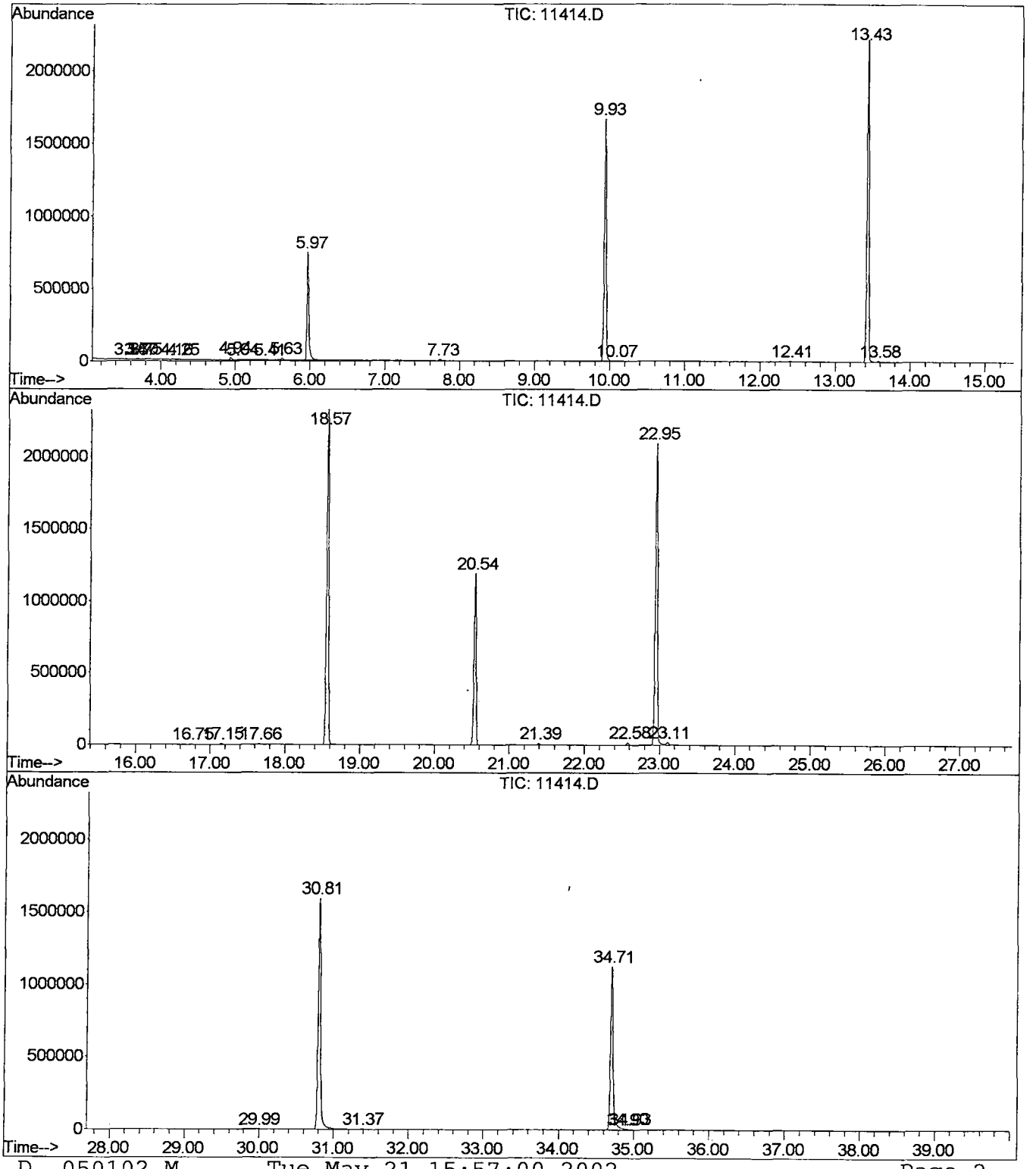
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.537	75	78	90	PV 8	1817	42835	0.10%	0.016%
2	3.673	95	101	102	PV 3	2406	35178	0.08%	0.013%
3	3.696	102	105	110	VV 8	3420	76220	0.17%	0.029%
4	3.743	110	113	124	VV 8	3597	153189	0.35%	0.058%
5	4.160	179	184	192	VV 7	3349	98643	0.22%	0.038%
6	4.248	196	199	211	VV 7	3122	86661	0.20%	0.033%
7	4.942	304	317	329	PV	16385	293741	0.66%	0.112%
8	5.042	329	334	339	VV 8	2724	60599	0.14%	0.023%
9	5.412	387	397	409	VV 5	2967	100052	0.23%	0.038%
10	5.629	428	434	445	VV 3	12010	241234	0.55%	0.092%
11	5.970	481	492	523	PV	739508	12985415	29.35%	4.957%
12	7.727	788	791	807	PV 4	6333	200563	0.45%	0.077%
13	9.936	1158	1167	1184	PV	1630809	30489563	68.91%	11.638%
14	10.071	1188	1190	1195	VV 5	2271	34182	0.08%	0.013%
15	12.404	1582	1587	1596	VV 5	2060	38659	0.09%	0.015%
16	13.426	1749	1761	1782	PV	2189461	40892967	92.42%	15.610%
17	13.579	1782	1787	1800	VV	7612	158691	0.36%	0.061%
18	16.746	2320	2326	2332	PV 3	3347	61286	0.14%	0.023%
19	17.151	2389	2395	2403	VV 2	6508	111044	0.25%	0.042%
20	17.662	2476	2482	2488	PV 4	2876	49818	0.11%	0.019%
21	18.567	2626	2636	2655	PV	2316151	44246431	100.00%	16.890%
22	20.541	2959	2972	2984	PV	1177267	22703252	51.31%	8.666%
23	21.393	3110	3117	3126	PV 4	9751	155215	0.35%	0.059%
24	22.580	3308	3319	3330	PV 3	16253	300525	0.68%	0.115%
25	22.950	3364	3382	3401	PV 2	2063854	43316013	97.90%	16.534%
26	23.109	3401	3409	3428	VV	17836	483567	1.09%	0.185%
27	29.983	4573	4579	4591	VV 4	1766	46687	0.11%	0.018%
28	30.806	4706	4719	4774	PV 2	1584005	37062542	83.76%	14.147%
29	31.376	4809	4816	4831	BV 3	2190	54644	0.12%	0.021%
30	34.707	5369	5383	5415	PV 2	1117982	27298487	61.70%	10.420%
31	34.901	5415	5416	5420	VV 4	4230	70615	0.16%	0.027%
32	34.937	5420	5422	5425	VV 4	2532	26172	0.06%	0.010%

Sum of corrected areas: 261974688

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\051702\11414.D
Operator : Mclean
Acquired : 18 May 2002 7:32 am using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/15 eh
Misc Info :
Vial Number: 23
Quant File :050102.RES (Chemstation Integrator)



Data File : C:\MSDCHEM\1\DATA\051702\11414.D Vial: 23
Acq On : 18 May 2002 7:32 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

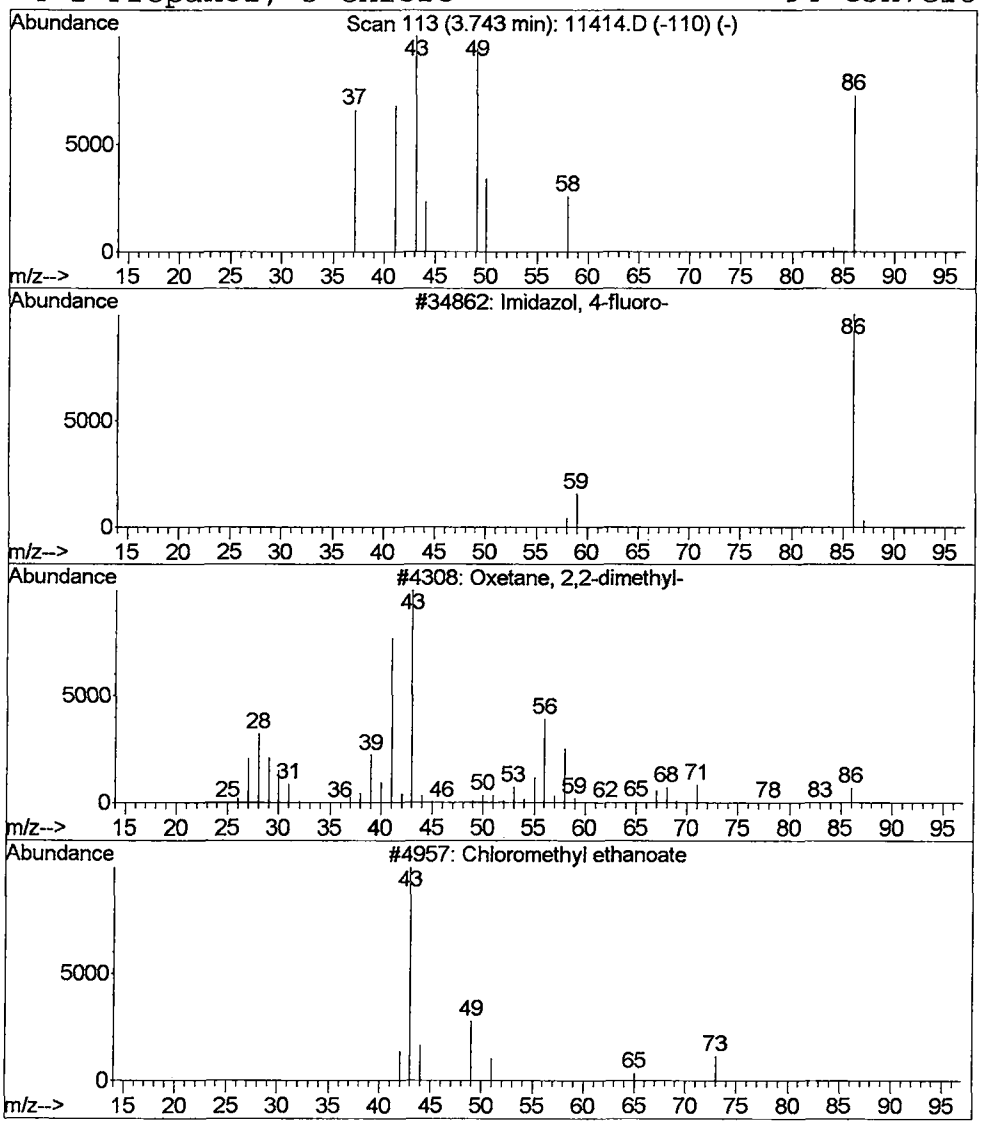
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

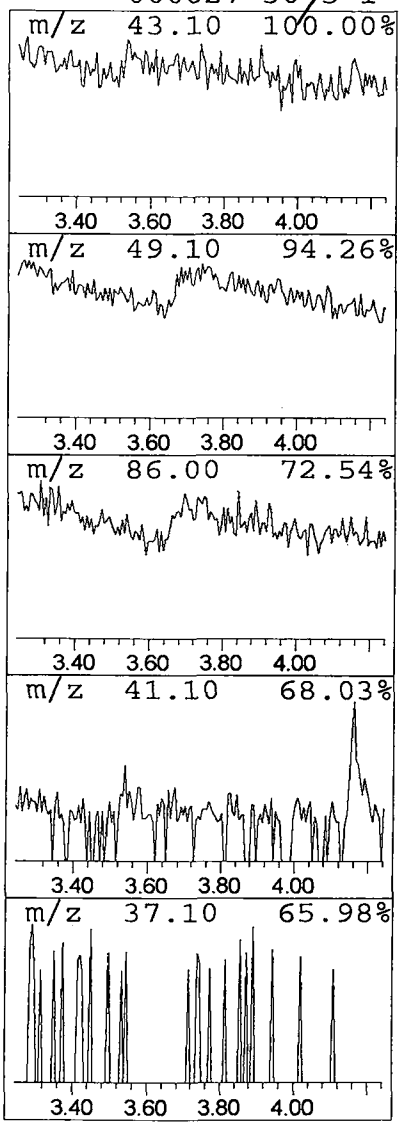
****

Peak Number 1 Imidazol, 4-fluoro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.75	0.20 ug/L	153189	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Imidazol, 4-fluoro-	86	C3H3FN2	030086-17-0	2
2	Oxetane, 2,2-dimethyl-	86	C5H10O	006245-99-4	1
3	Chloromethyl ethanoate	108	C3H5ClO2	1000143-34-6	1
4	1-Propanol, 3-chloro-	94	C3H7ClO	000627-30-5	1





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MS Integration Params: LSCINT.e

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Title : 508 Modified GC/MS scan
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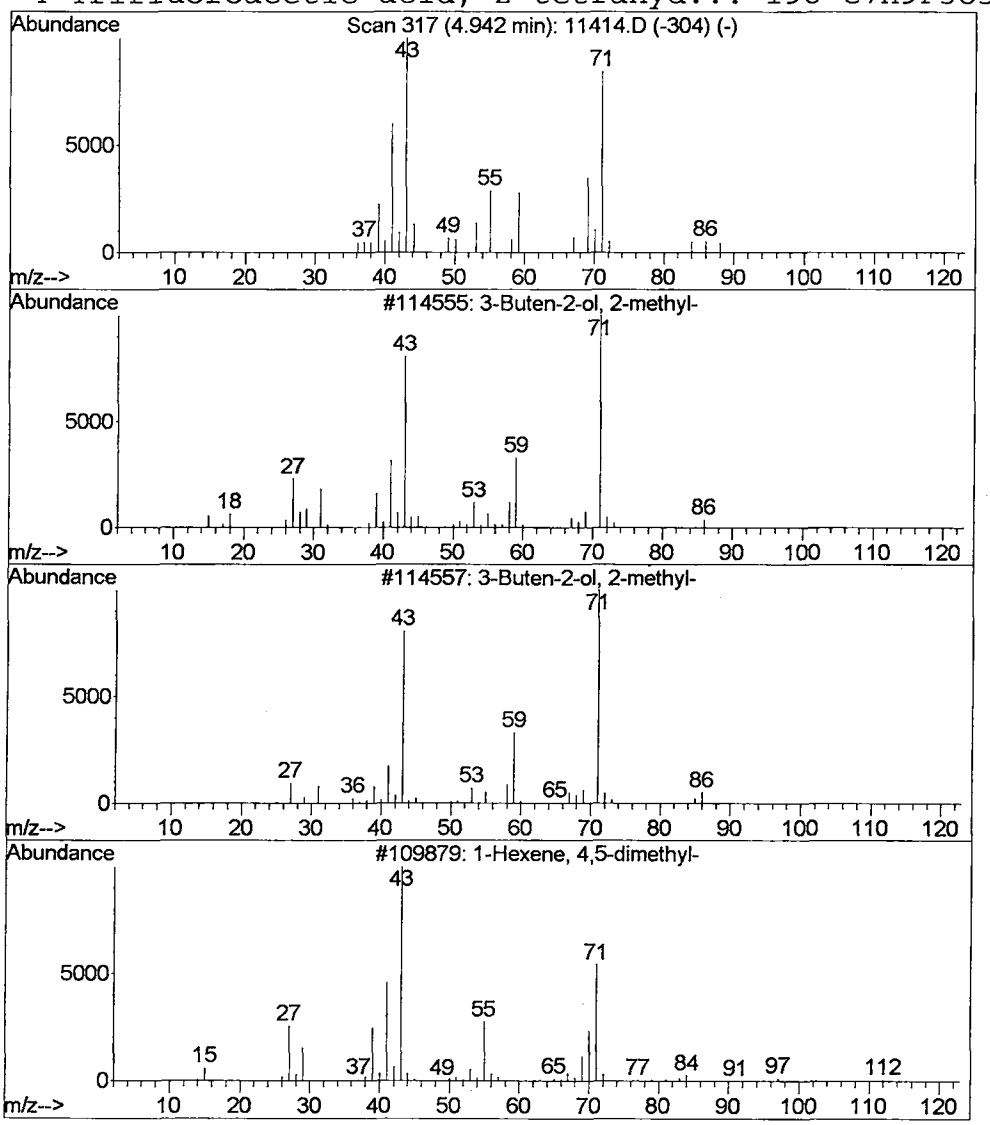
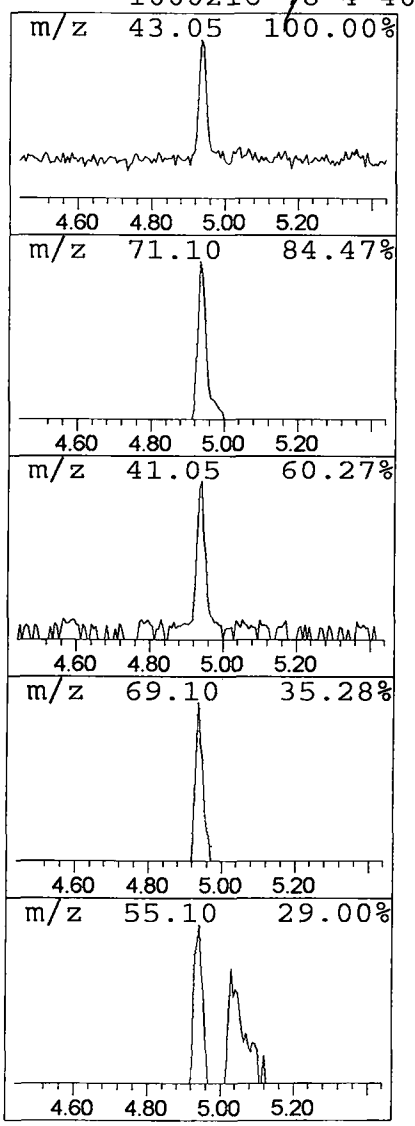
****

Peak Number 2 3-Buten-2-ol, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.94	0.39 ug/L	293741	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	64
2	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	59
3	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	40
4	Trifluoroacetic acid, 2-tetrahyd...	198	C7H9F3O3	1000216-78-4	40





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Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

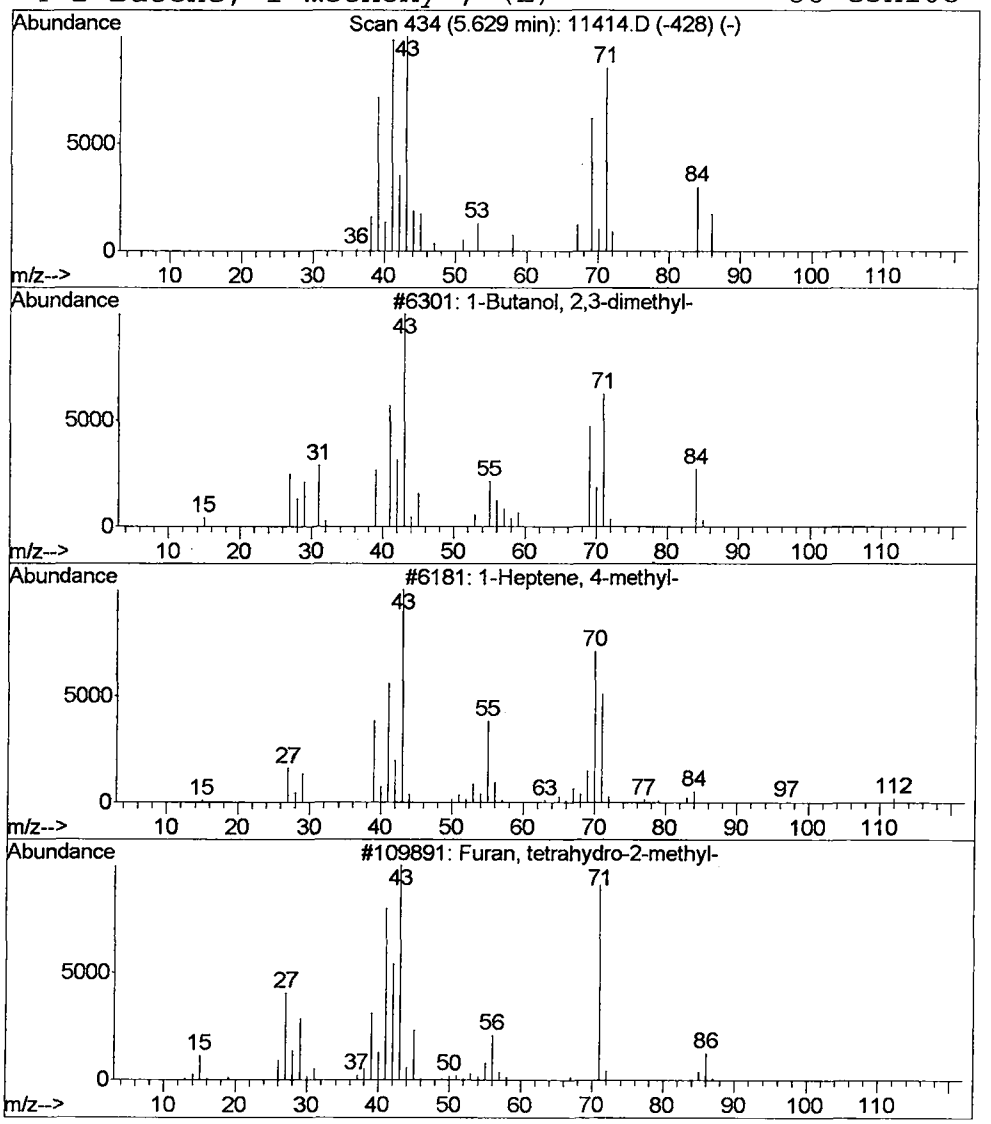
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

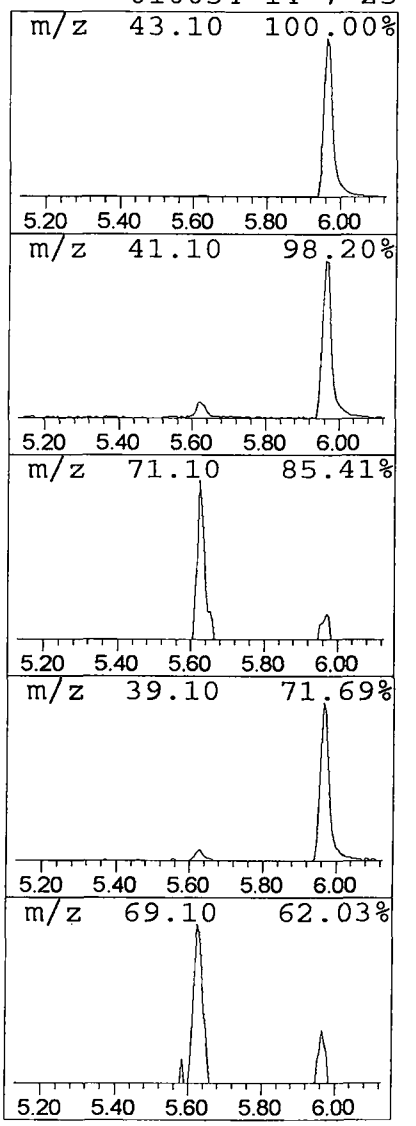
****

Peak Number 3 1-Butanol, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.63	0.32 ug/L	241234	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	40
2	1-Heptene, 4-methyl-	112	C8H16	013151-05-8	39
3	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	32
4	2-Butene, 1-methoxy-, (E)-	86	C5H10O	010034-14-7	25





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Acq On : 18 May 2002 7:32 am Operator: Mclean
Sample : 5/15 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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Library : C:\DATABASE\NIST98.L

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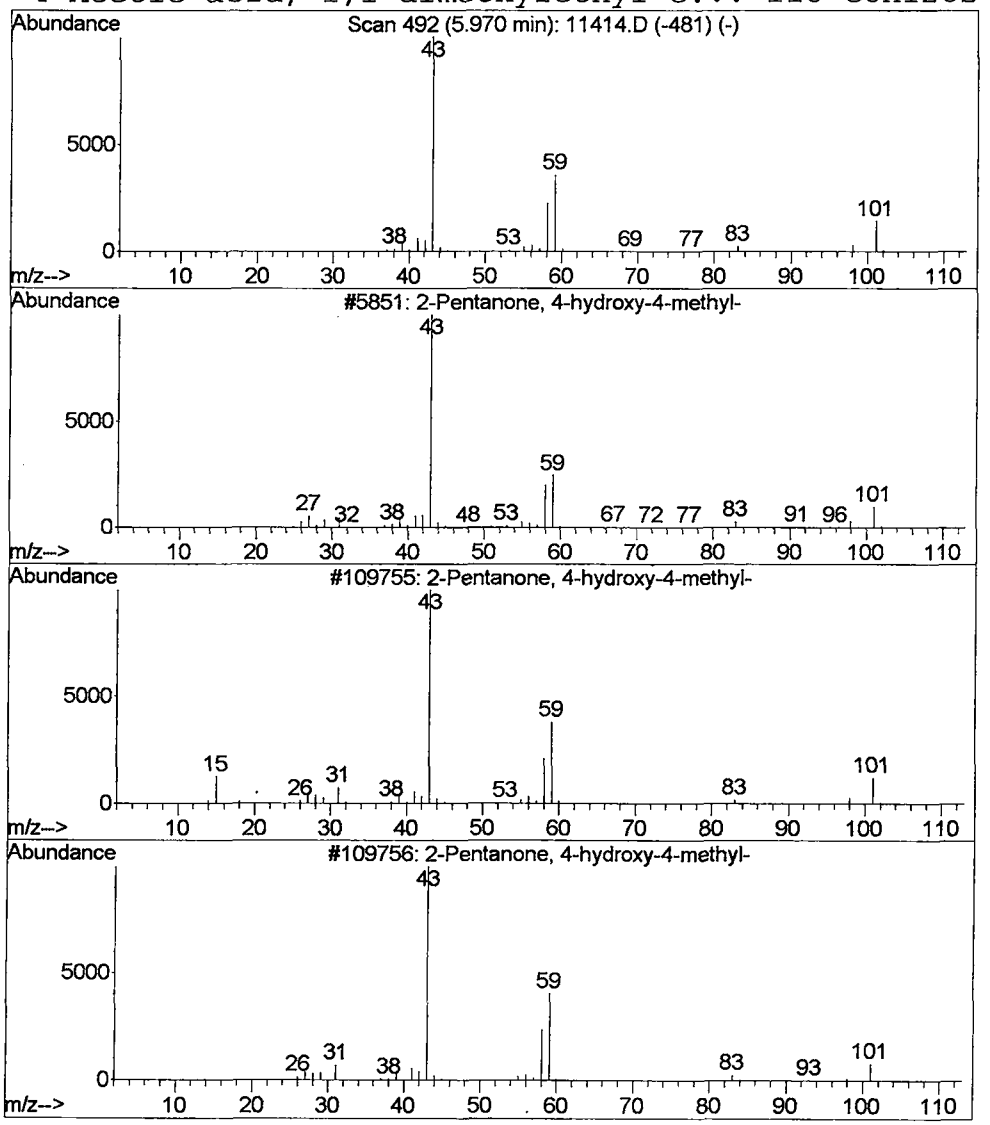
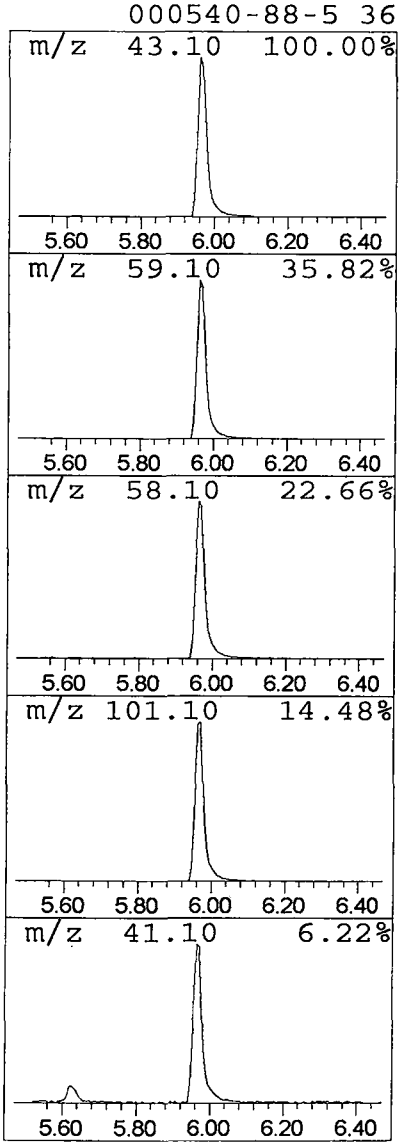
Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.97	17.04 ug/L	12985400	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	83
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	83
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	36





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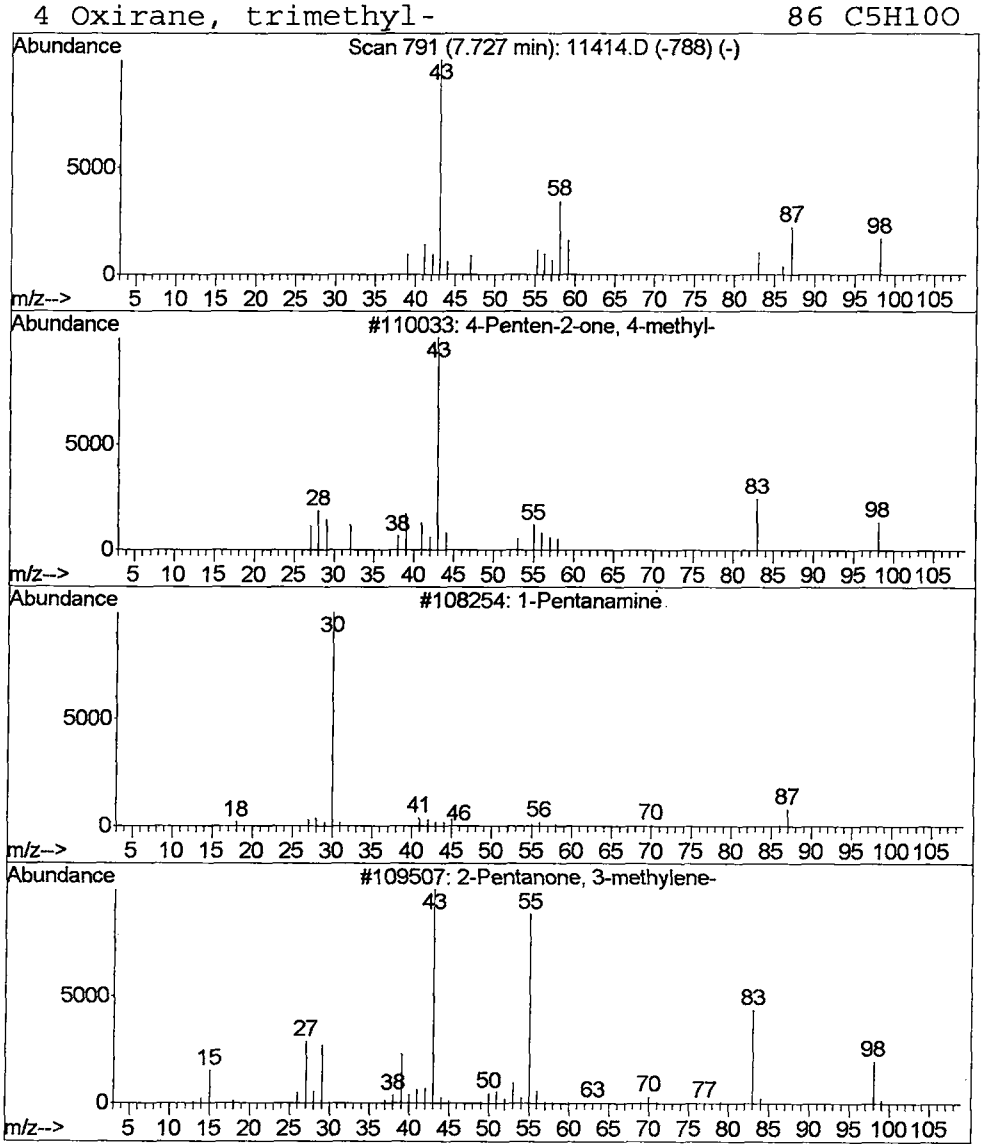
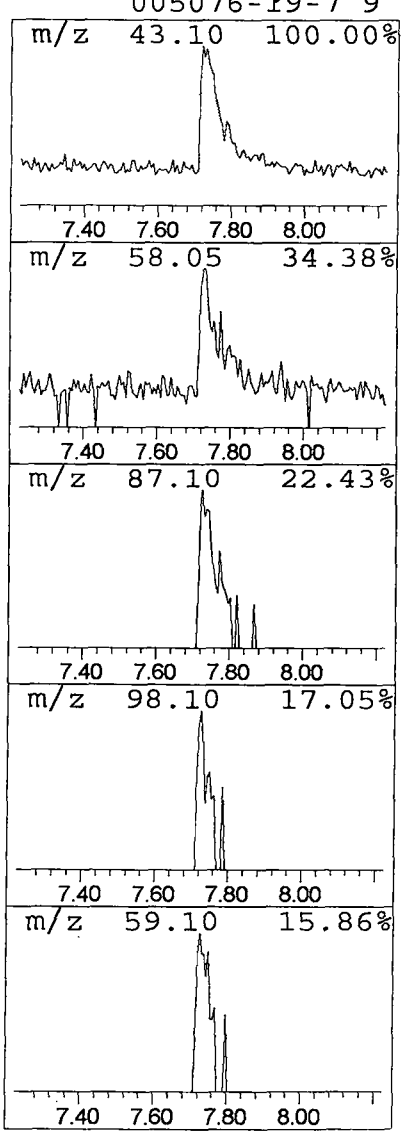
Peak Number 5 4-Penten-2-one, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.73	0.26 ug/L	200563	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	35
2	1-Pentanamine	87	C5H13N	000110-58-7	9
3	2-Pentanone, 3-methylene-	98	C6H10O	004359-77-7	9
4	Oxirane, trimethyl-	86	C5H10O	005076-19-7	9





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Sample : 5/15 eh Inst : Instrumen
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MS Integration Params: LSCINT.e

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Library : C:\DATABASE\NIST98.L

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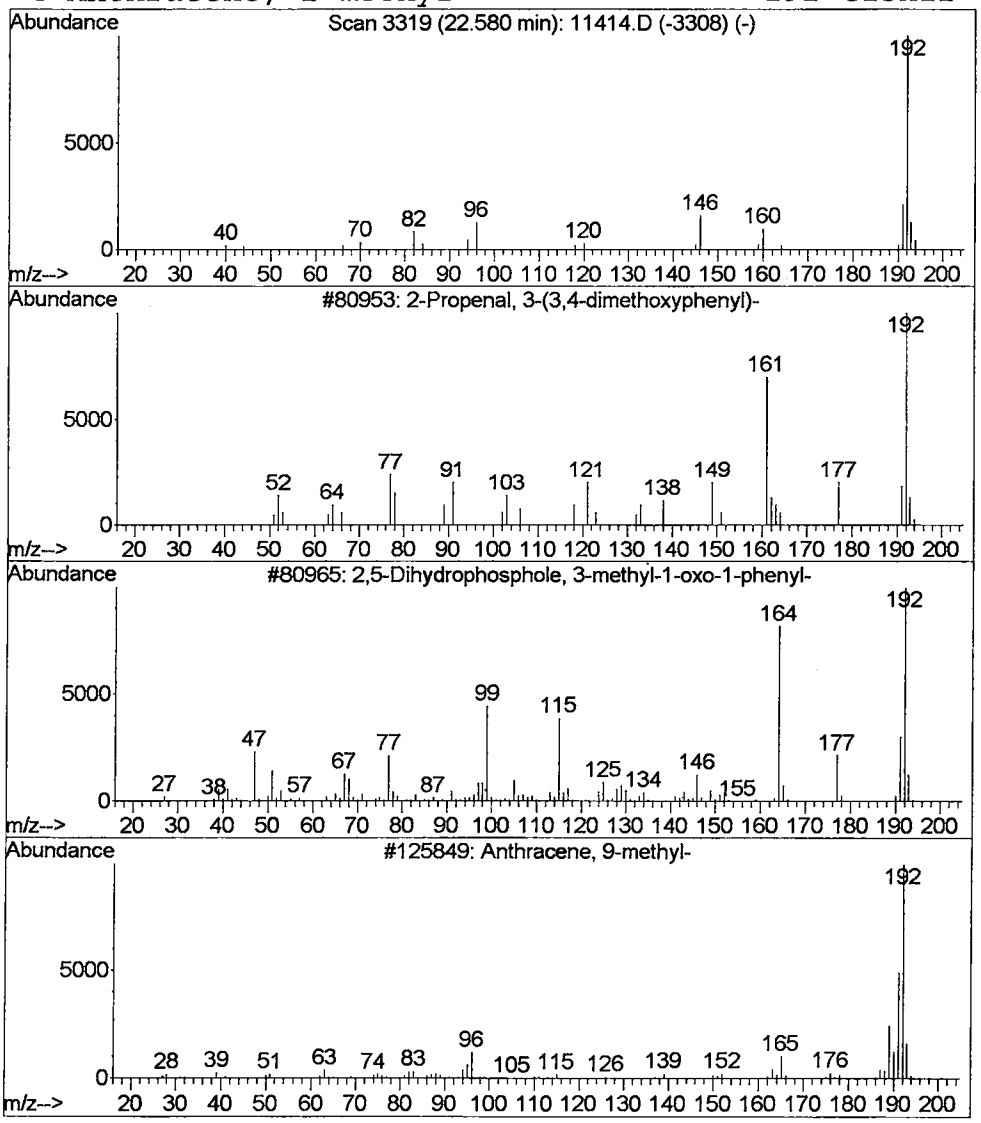
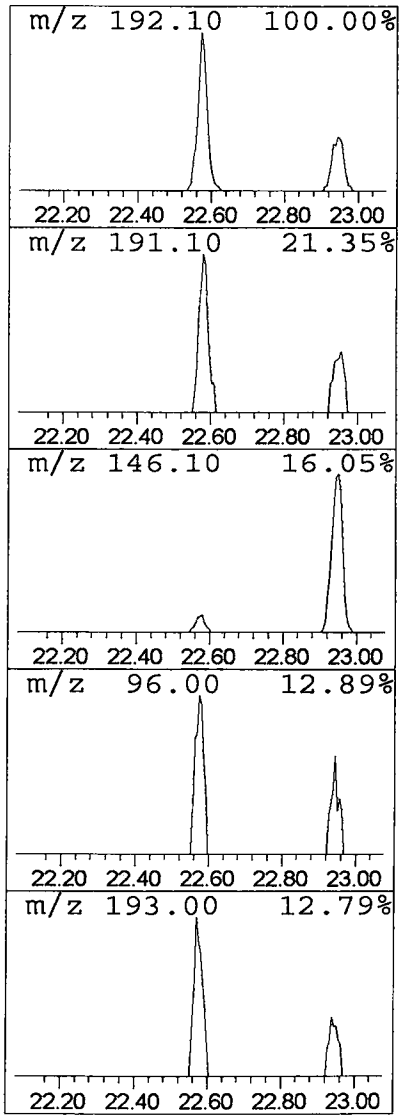
Peak Number 6 2-Propenal, 3-(3,4-dimethox... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	0.28 ug/L	300525	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenal, 3-(3,4-dimethoxyphen...	192	C11H12O3	004497-40-9	45
2	2,5-Dihydrophosphole, 3-methyl-1...	192	C11H13OP	1000196-97-5	45
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	42
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42





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MS Integration Params: LSCINT.e

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Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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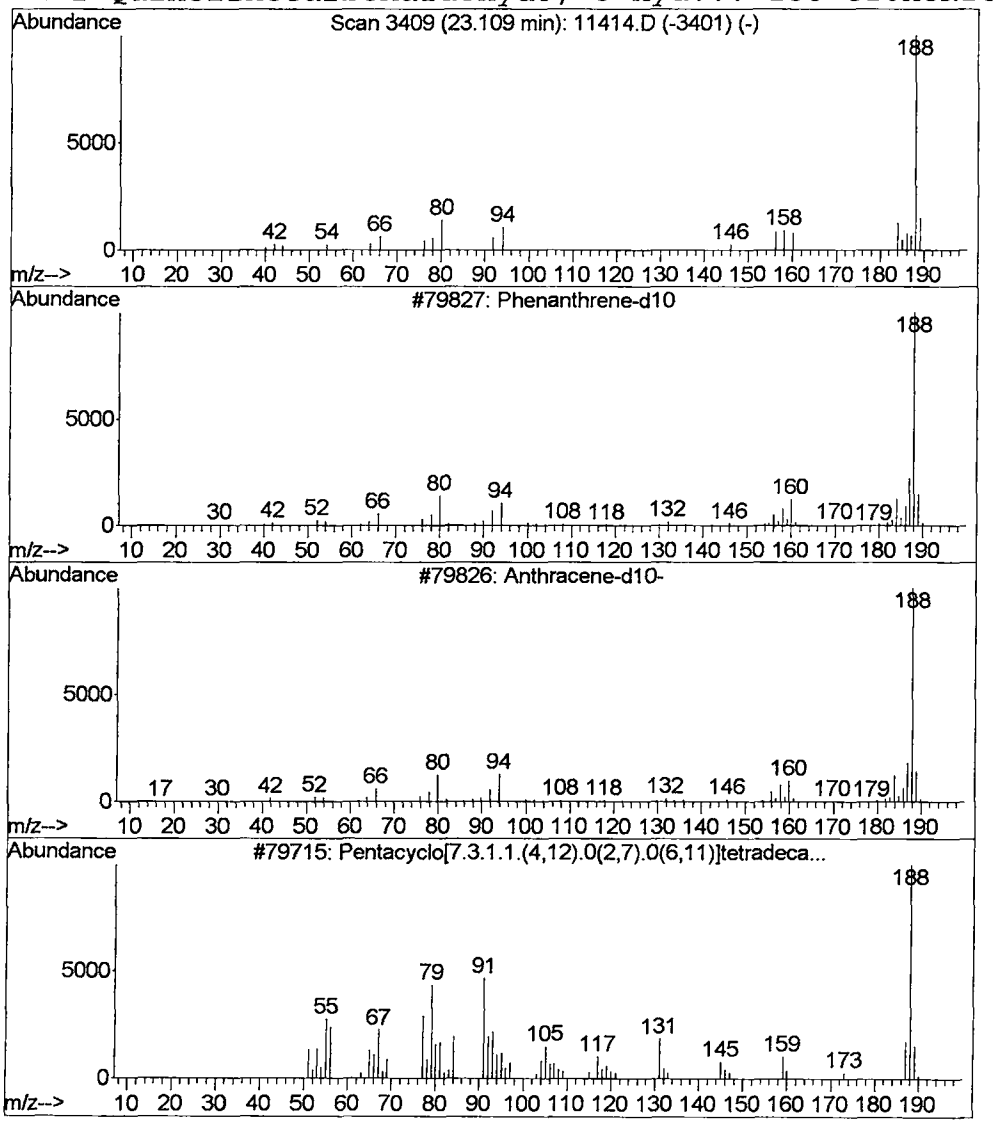
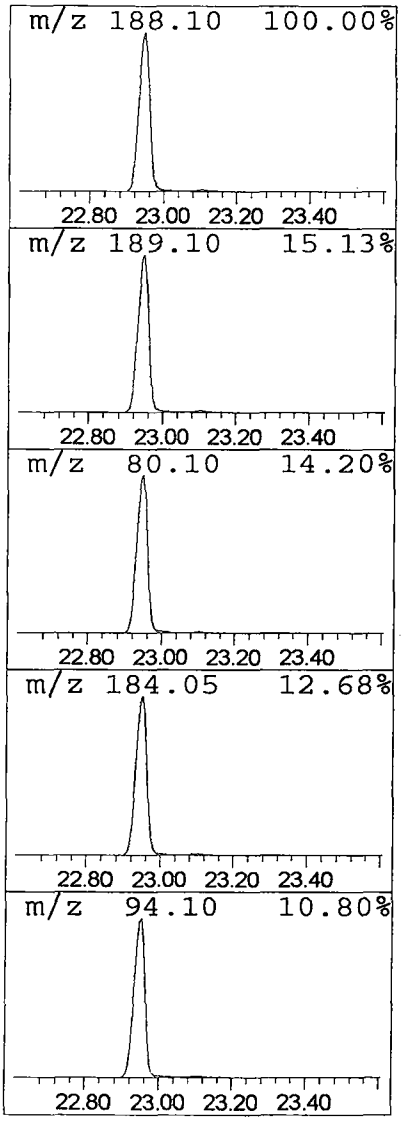
Peak Number 7 Phenanthrene-d10 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	0.45 ug/L	483567	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene-d10	188	C14D10	001517-22-2	94
2	Anthracene-d10-	188	C14D10	001719-06-8	91
3	Pentacyclo[7.3.1.1.(4,12).0(2,7)...	188	C14H20	1000215-61-8	53
4	2-Quinolinecarboxaldehyde, 8-hyd...	188	C10H8N2O2	005603-22-5	40





Tentatively Identified Compound (TIC) Summary

Operator ID: Mclean Date Acquired: 18 May 2002 7:32 am
Data File: C:\MSDCHEM\1\DATA\051702\11414.D
Name: 5/15 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
Imidazol, 4-fluoro-	3.75	0.2	ug/L	153189	1	9.93	30489600	40.0
3-Buten-2-ol, 2-m...	4.94	0.4	ug/L	293741	1	9.93	30489600	40.0
1-Butanol, 2,3-di...	5.63	0.3	ug/L	241234	1	9.93	30489600	40.0
2-Pentanone, 4-hy...	5.97	17.0	ug/L	12985400	1	9.93	30489600	40.0
4-Penten-2-one, 4...	7.73	0.3	ug/L	200563	1	9.93	30489600	40.0
2-Propenal, 3-(3,...	22.58	0.3	ug/L	300525	4	22.95	43316000	40.0
Phenanthrene-d10	23.11	0.4	ug/L	483567	4	22.95	43316000	40.0