User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/22/2002 Time: 09:35:15

Sample: AE10901
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/22/02 09:34 Ended: 5/22/02 09:34 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		99		10.0

Comments for Sample AE10901 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-22-2002 Time: 09:35:54

The GCMS scan, from 35 to 550 mau, does not reveal the presence of unusual compounds. The recoveries for 2 of the 43 compounds in the LCS Standard were low.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 16 14:35:15 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu May 16 14:34:28 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.94	152	5574512	40.00	ug/L	0.00
10) Napthalene-d8	13.43	136	22251464	40.00	ug/L	0.00
17) Acenapthalene-d10	18.57	164	11959554	40.00	ug/L	0.00
29) Phenanthranene-d10	22.95	188	17253657	40.00	ug/L	0.00
37) Chrysene-d12	30.81	240	12154219	40.00	ug/L	0.00
43) Perylene-d12	34.71	264	7620693	40.00	ug/L	0.00
System Monitoring Compounds						
27) TCMX	20.55	209	2886040	39.75	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.38%			
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	20.55	204	17381	N.D.		
26) Fluorene	0.00	166	0	N.D.		
28) Azobenzene	20.55	77	51493	N.D.		
30) Nnitrosodiphenylamine	20.55	169	56229	0.27	ug/L #	60
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	25219	N.D.		

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

Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 16 14:35:15 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu May 16 14:34:28 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

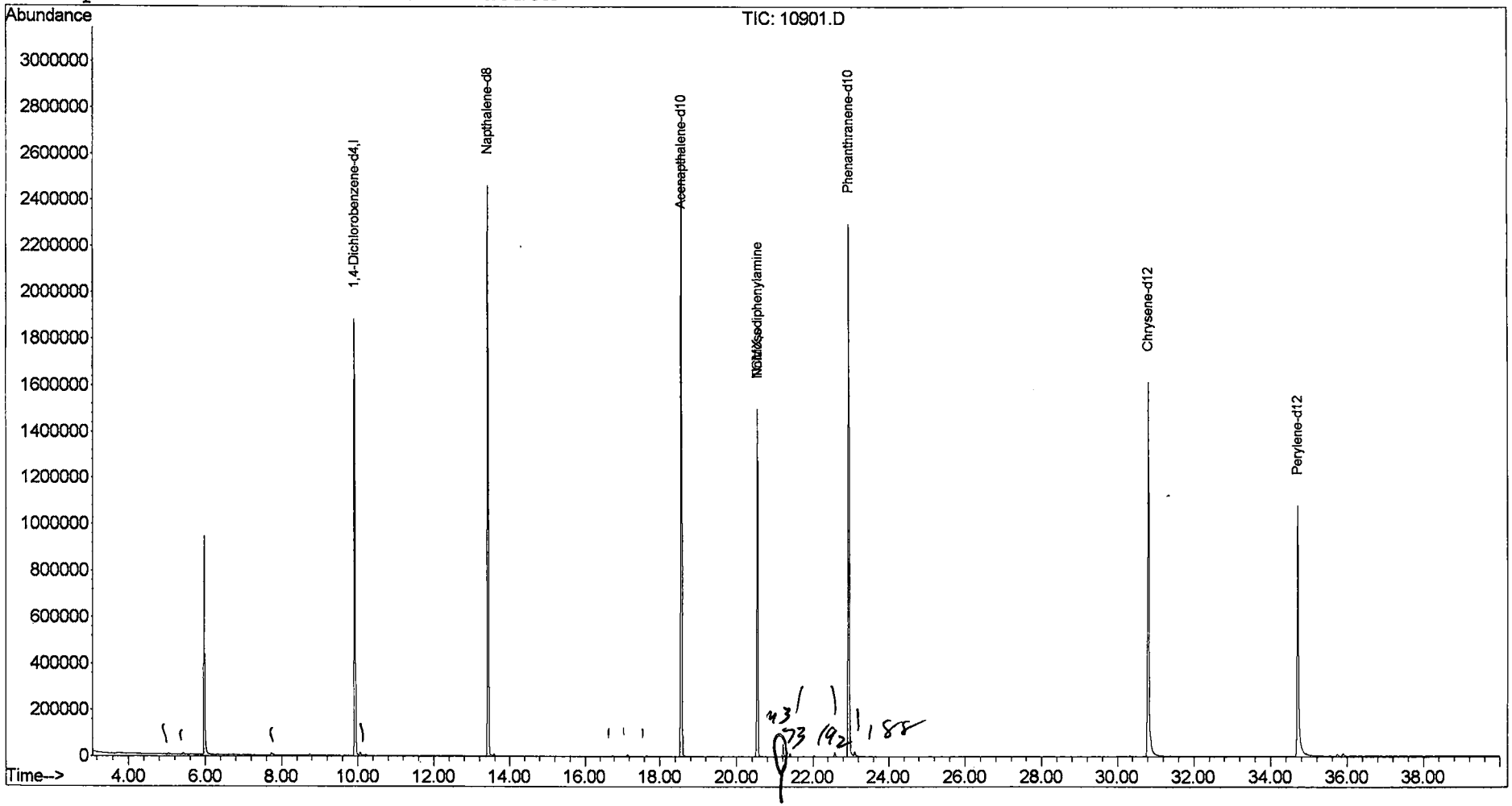
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Fluoroanthene	0.00	202	0	N.D.	
38)	Pyrene	0.00	202	0	N.D.	
39)	Butylbenzylphthalate	0.00	149	0	N.D.	
40)	Benzo(a)anthracene	30.81	228	29285	N.D.	
41)	Bis(2-ethylhexyl)phthalate	0.00	149	0	N.D.	
42)	Chrysene	0.00	228	0	N.D.	
44)	Di-n-octylphthalate	0.00	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)

Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 16 14:35 2002 Quant Results File: 050102.RES

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu May 16 14:34:28 2002
Response via : Initial Calibration



10901.D 050102.M Thu May 16 14:35:29 2002 Page 3

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb 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

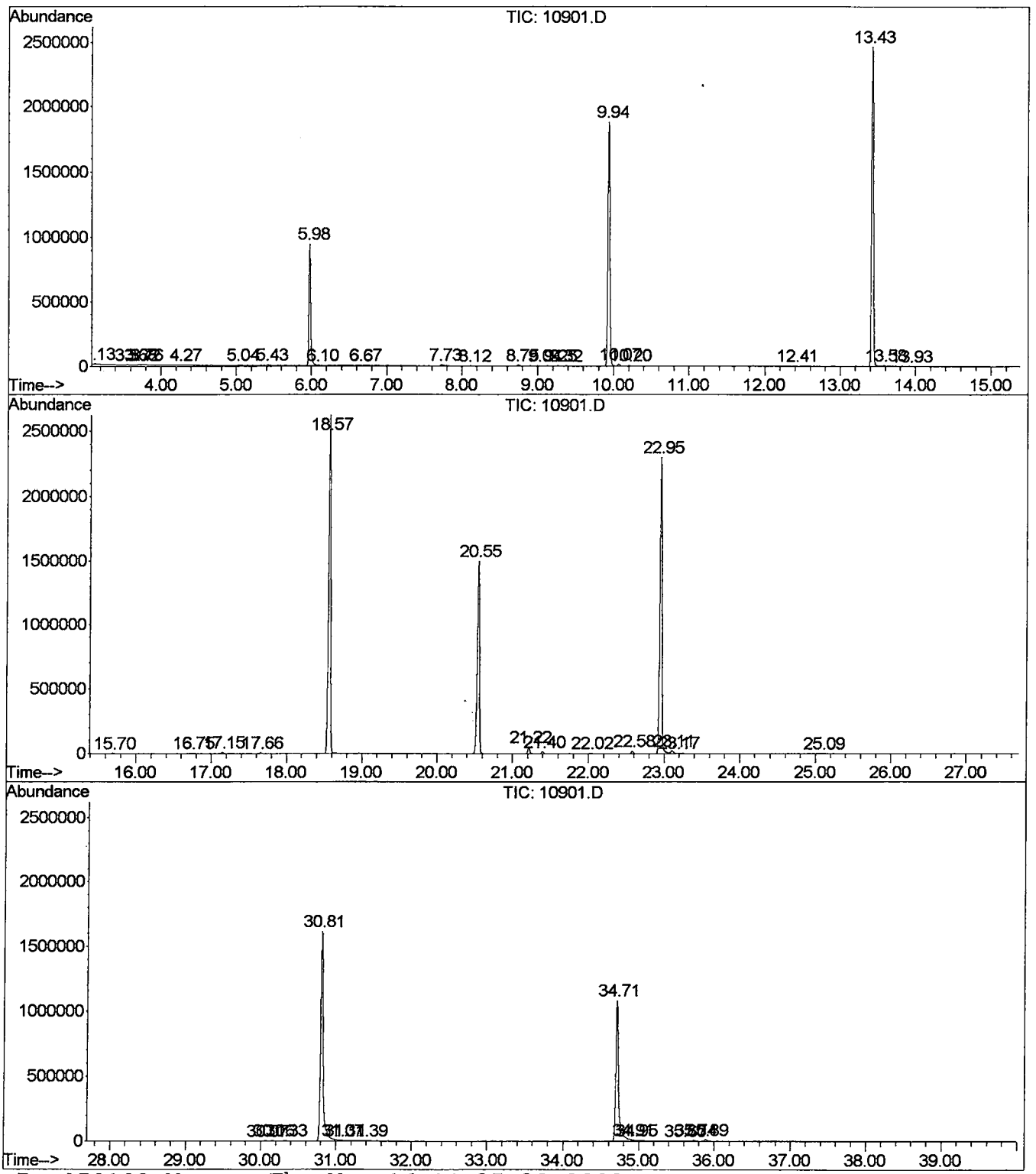
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.132	3	9	18	BV 4	2811	49138	0.10%	0.017%
2	3.555	77	81	90	PV 7	2162	39179	0.08%	0.013%
3	3.679	95	102	105	PV 5	1541	25475	0.05%	0.009%
4	3.720	105	109	111	VV 5	2400	44797	0.09%	0.015%
5	3.761	111	116	121	VV 7	2100	44086	0.09%	0.015%
6	4.272	197	203	214	PV 6	2947	72646	0.15%	0.025%
7	5.036	330	333	344	PV 3	4713	128638	0.26%	0.044%
8	5.430	393	400	408	VV 3	6053	134513	0.27%	0.046%
9	5.976	484	493	512	VV	913680	15554866	31.41%	5.293%
10	6.099	512	514	527	VV 4	4090	111226	0.22%	0.038%
11	6.669	606	611	613	PV 5	1753	18152	0.04%	0.006%
12	7.727	785	791	802	VV	9731	253877	0.51%	0.086%
13	8.121	854	858	865	VV 6	1565	21242	0.04%	0.007%
14	8.749	960	965	973	PV 2	6955	134450	0.27%	0.046%
15	9.043	1008	1015	1020	VV 7	1931	44562	0.09%	0.015%
16	9.255	1046	1051	1055	VV 4	1698	31268	0.06%	0.011%
17	9.319	1055	1062	1068	VV 5	1750	44272	0.09%	0.015%
18	9.936	1157	1167	1185	PV	1867643	33931502	68.53%	11.547%
19	10.065	1185	1189	1199	VV 2	15397	293940	0.59%	0.100%
20	10.200	1207	1212	1220	VV 2	5029	77489	0.16%	0.026%
21	12.410	1579	1588	1596	VV 3	4060	66785	0.13%	0.023%
22	13.432	1748	1762	1783	PV	2454892	45816259	92.53%	15.591%
23	13.585	1783	1788	1793	VV 2	8981	153610	0.31%	0.052%
24	13.931	1841	1847	1850	VV 4	1680	24992	0.05%	0.009%
25	15.700	2140	2148	2154	PV 4	1986	33659	0.07%	0.011%
26	16.746	2319	2326	2336	VV 4	3831	83146	0.17%	0.028%
27	17.151	2382	2395	2403	BV 4	9463	157453	0.32%	0.054%
28	17.662	2477	2482	2487	VV 4	4658	68367	0.14%	0.023%
29	18.567	2626	2636	2674	PV	2587070	49516658	100.00%	16.850%
30	20.547	2950	2973	2987	BV	1494971	29173093	58.92%	9.927%
31	21.217	3078	3087	3100	PV 2	50903	809091	1.63%	0.275%
32	21.399	3111	3118	3129	VV 2	13902	238617	0.48%	0.081%
33	22.022	3217	3224	3234	VV 3	3742	82035	0.17%	0.028%
34	22.580	3313	3319	3329	VV 2	18389	331922	0.67%	0.113%
35	22.956	3372	3383	3403	PV 2	2278853	47406645	95.74%	16.132%
36	23.109	3403	3409	3418	VV 2	20977	535454	1.08%	0.182%
37	23.174	3418	3420	3439	VV 5	4081	121239	0.24%	0.041%

39	30.072	4589	4594	4601	VV	4	2398	51639	0.10%	0.018%
40	30.154	4604	4608	4616	VV	5	3578	58341	0.12%	0.020%
41	30.324	4631	4637	4643	PV	3	4301	82989	0.17%	0.028%
42	30.806	4703	4719	4762	PV	2	1594023	38586179	77.93%	13.131%
43	31.065	4762	4763	4768	VV	5	4830	91786	0.19%	0.031%
44	31.106	4768	4770	4777	VV	4	4401	105685	0.21%	0.036%
45	31.388	4813	4818	4825	PV	5	2524	50088	0.10%	0.017%
46	34.708	5371	5383	5416	PV	2	1069996	27961718	56.47%	9.515%
47	34.907	5416	5417	5424	VV	5	11965	293105	0.59%	0.100%
48	34.954	5424	5425	5438	VV	8	8155	312861	0.63%	0.106%
49	35.595	5529	5534	5547	VV	5	2155	52569	0.11%	0.018%
50	35.736	5553	5558	5572	VV	5	10195	220418	0.45%	0.075%
51	35.894	5577	5585	5596	PV	3	10929	262191	0.53%	0.089%

Sum of corrected areas: 293864974

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\051402\10901.D
Operator : Mclean
Acquired : 14 May 2002 7:12 pm using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/10 kb
Misc Info :
Vial Number: 8
Quant File :050102.RES (Chemstation Integrator)



Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

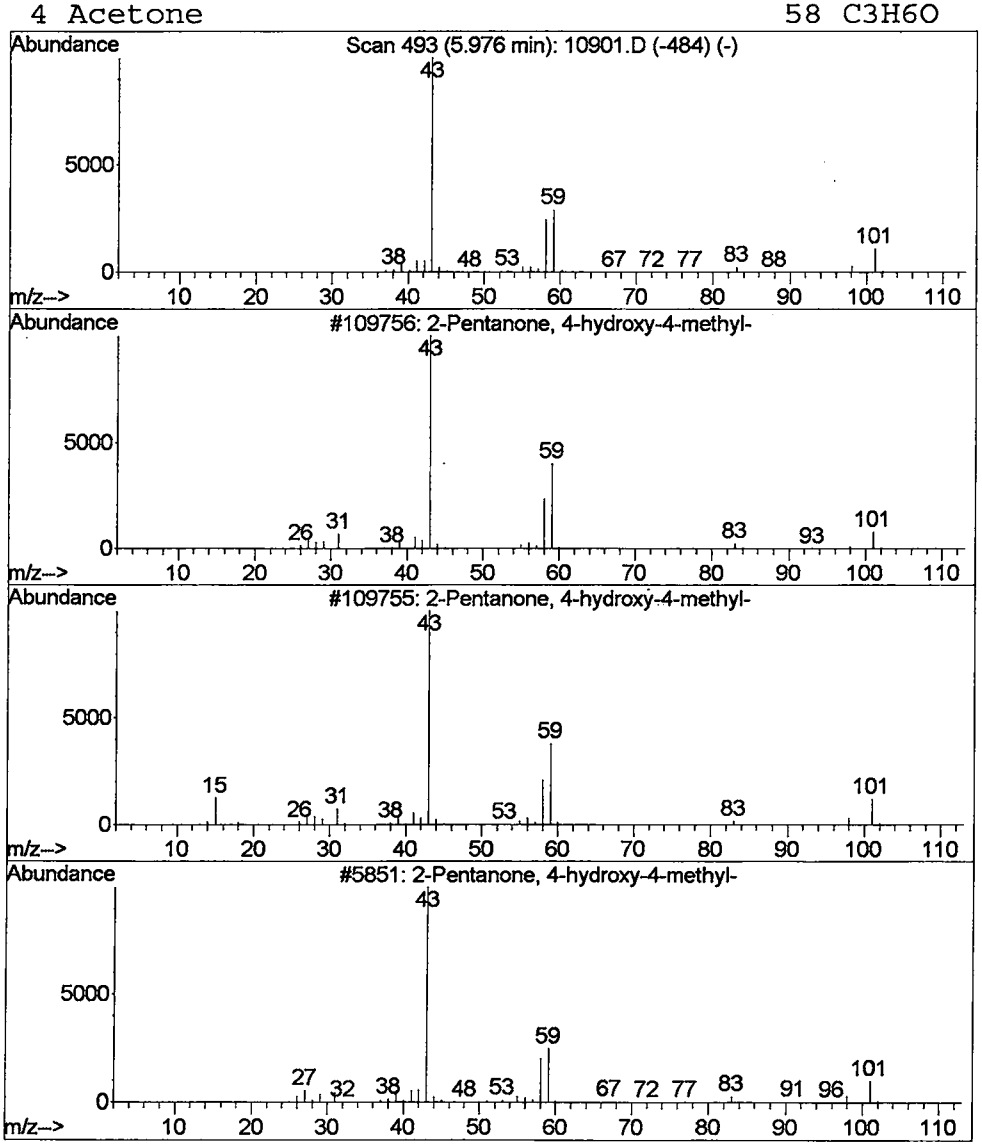
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

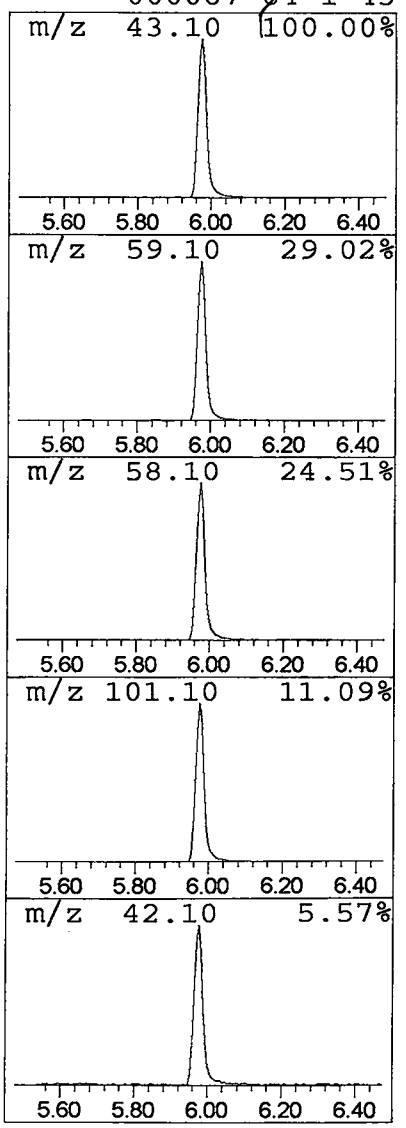
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.98	18.34 ug/L	15554900	1,4-Dichlorobenzene-d4	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	78
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
4	Acetone	58	C3H6O	000067-64-1	43





Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

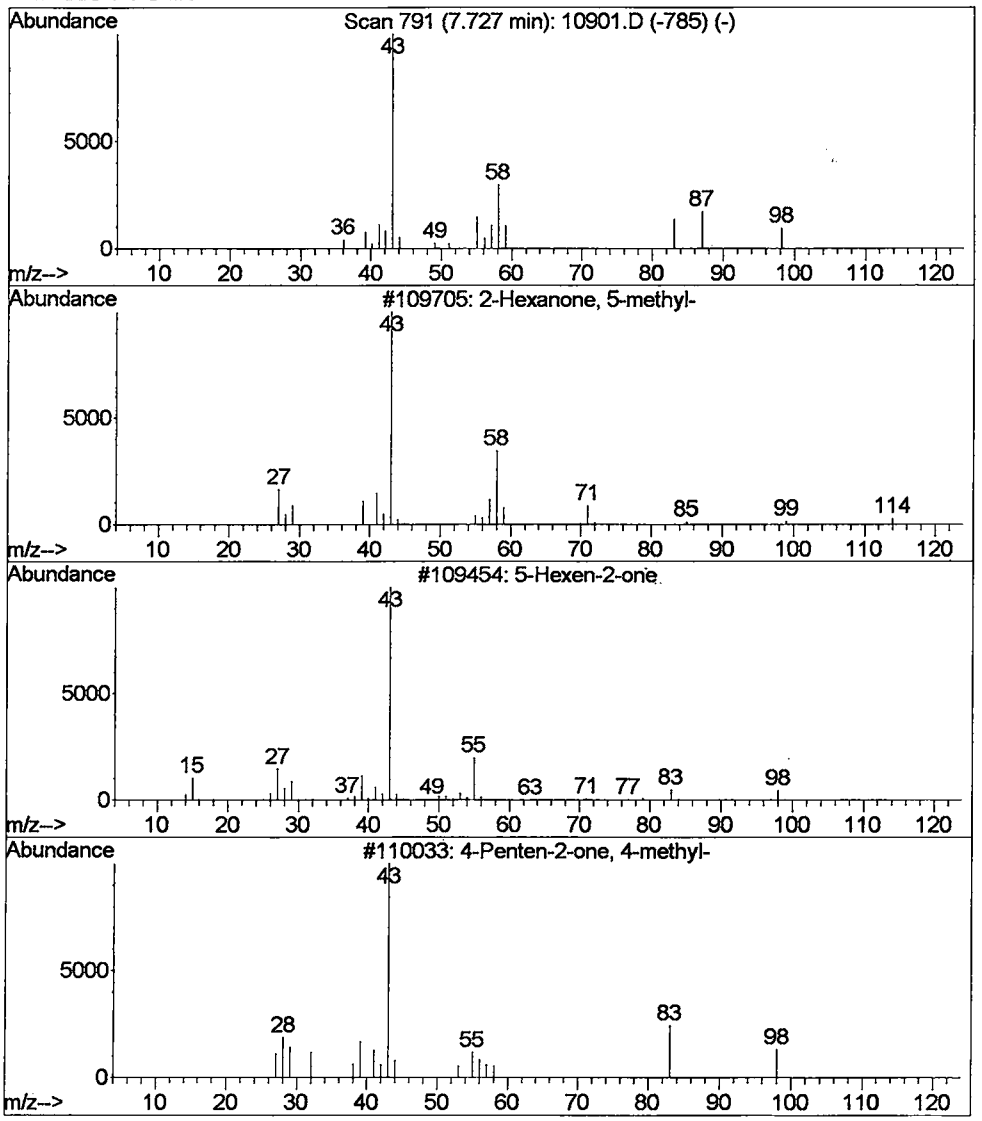
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

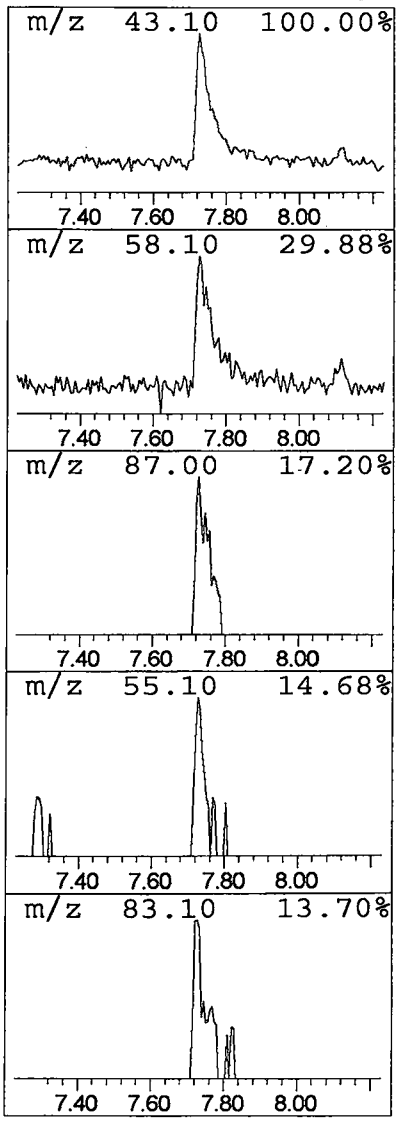
****

Peak Number 2 2-Hexanone, 5-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.73	0.30 ug/L	253877	1,4-Dichlorobenzene-d4	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	33
2	5-Hexen-2-one	98	C6H10O	000109-49-9	9
3	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
4	Acetone	58	C3H6O	000067-64-1	9





Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

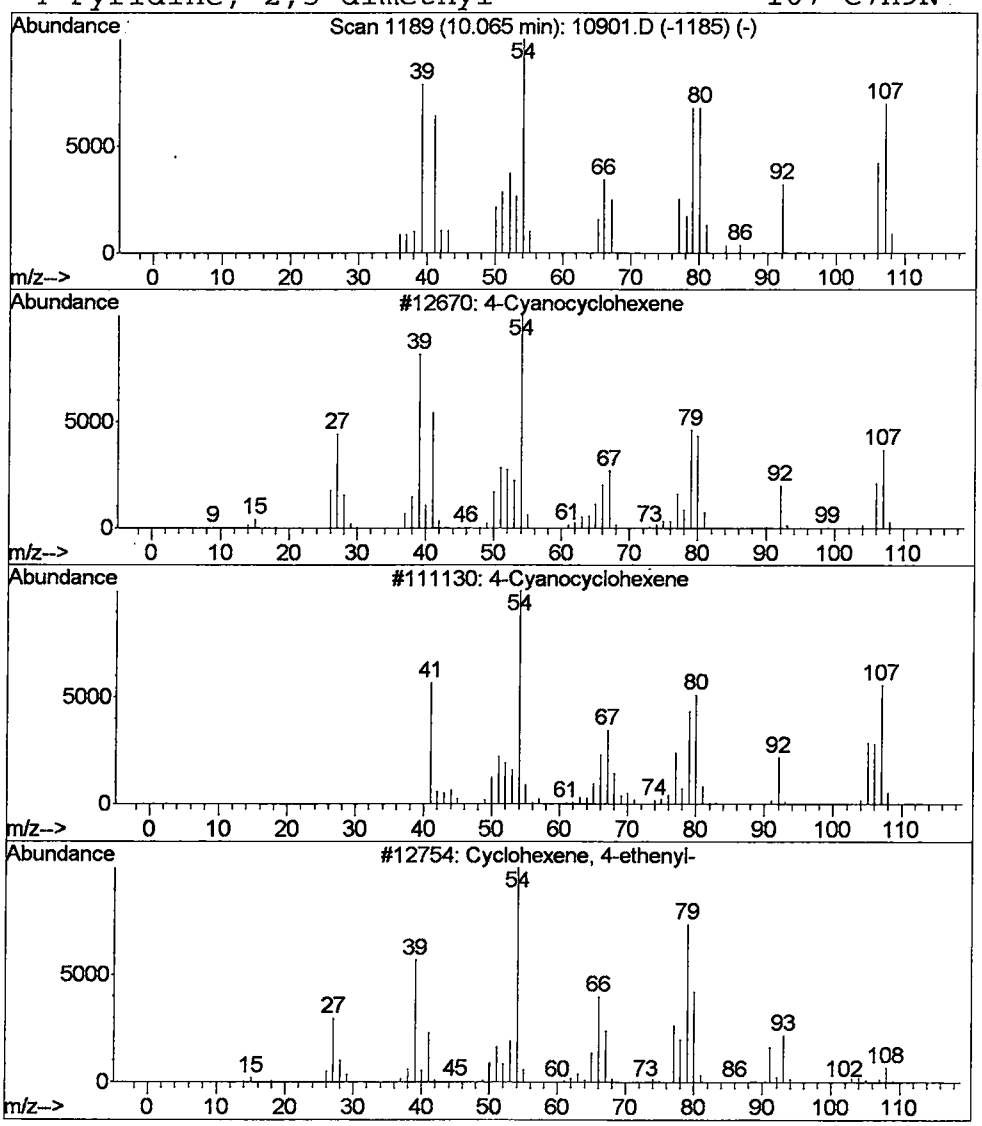
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

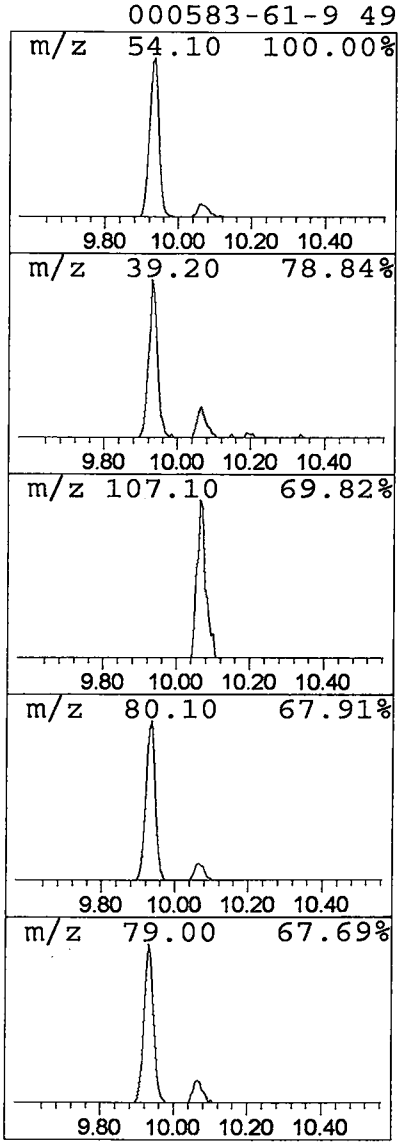
****

Peak Number 3 4-Cyanocyclohexene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.07	0.35 ug/L	293940	1,4-Dichlorobenzene-d4	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Cyanocyclohexene	107	C7H9N	000100-45-8	94
2	4-Cyanocyclohexene	107	C7H9N	000100-45-8	94
3	Cyclohexene, 4-ethenyl-	108	C8H12	000100-40-3	50
4	Pyridine, 2,3-dimethyl-	107	C7H9N	000583-61-9	49





Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

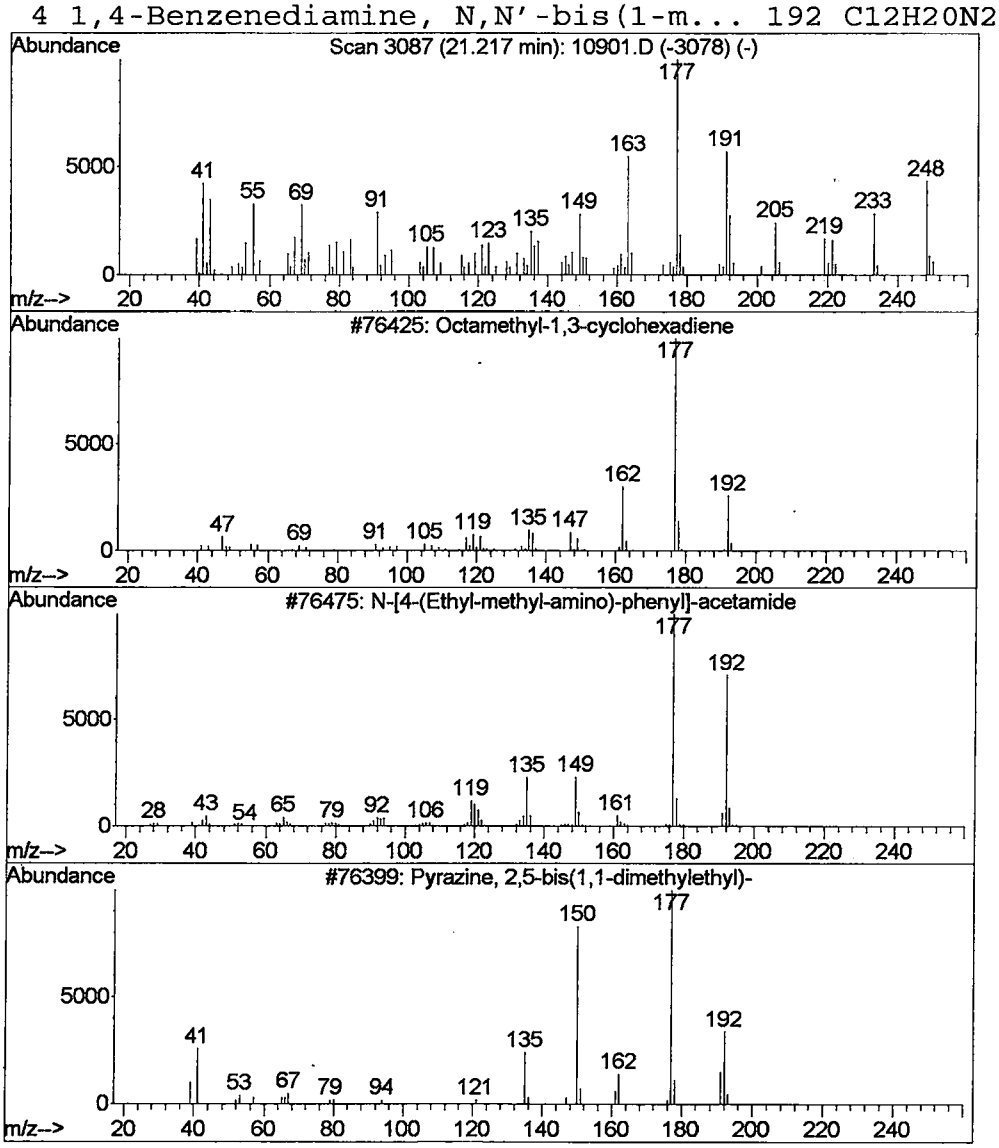
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

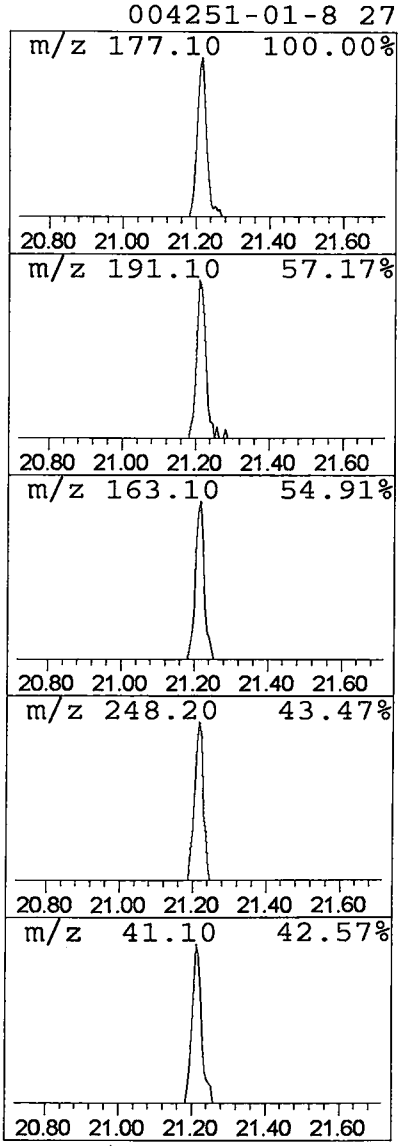
****

Peak Number 4 Octamethyl-1,3-cyclohexadiene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.22	0.68 ug/L	809091	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octamethyl-1,3-cyclohexadiene	192	C14H24	1000110-41-8	42
2	N-[4-(Ethyl-methyl-amino)-phenyl...	192	C11H16N2O	1000194-36-4	38
3	Pyrazine, 2,5-bis(1,1-dimethylet...	192	C12H20N2	018709-51-8	30
4	1,4-Benzenediamine, N,N'-bis(1-m...	192	C12H20N2	004251-01-8	27





Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

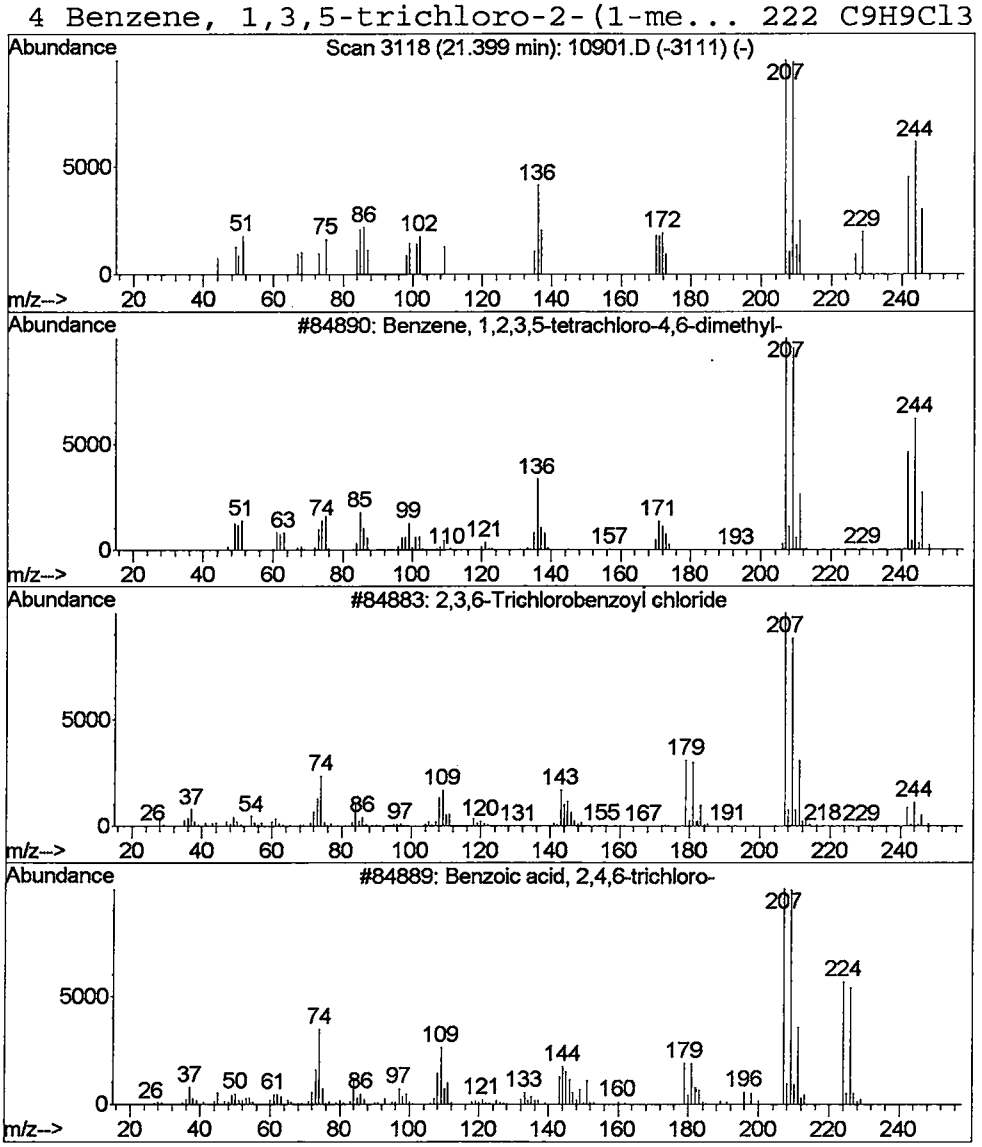
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

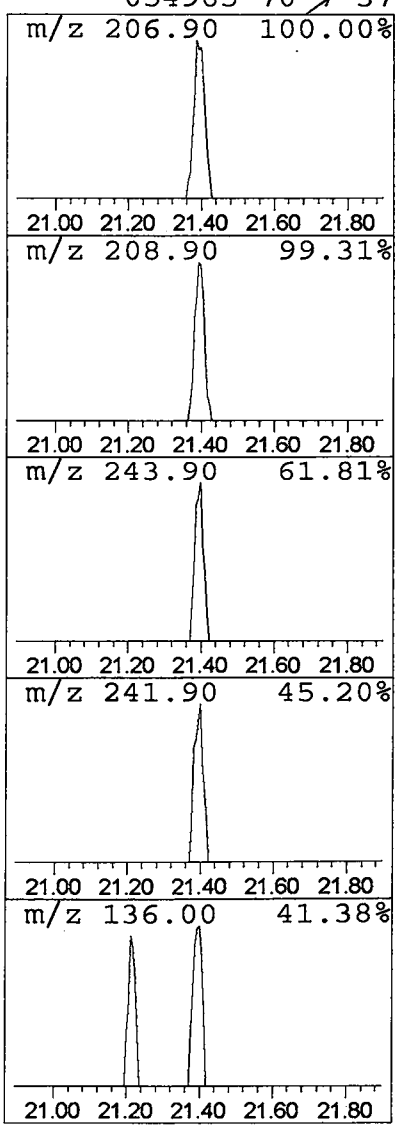
****

Peak Number 5 Benzene, 1,2,3,5-tetrachlor... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.40	0.20 ug/L	238617	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetrachloro-4,6...	242	C8H6Cl4	000877-09-8	98
2	2,3,6-Trichlorobenzoyl chloride	242	C7H2Cl4O	004093-17-8	38
3	Benzoic acid, 2,4,6-trichloro-	224	C7H3Cl3O2	000050-43-1	38
4	Benzene, 1,3,5-trichloro-2-(1-me...	222	C9H9Cl3	054965-70-7	37





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

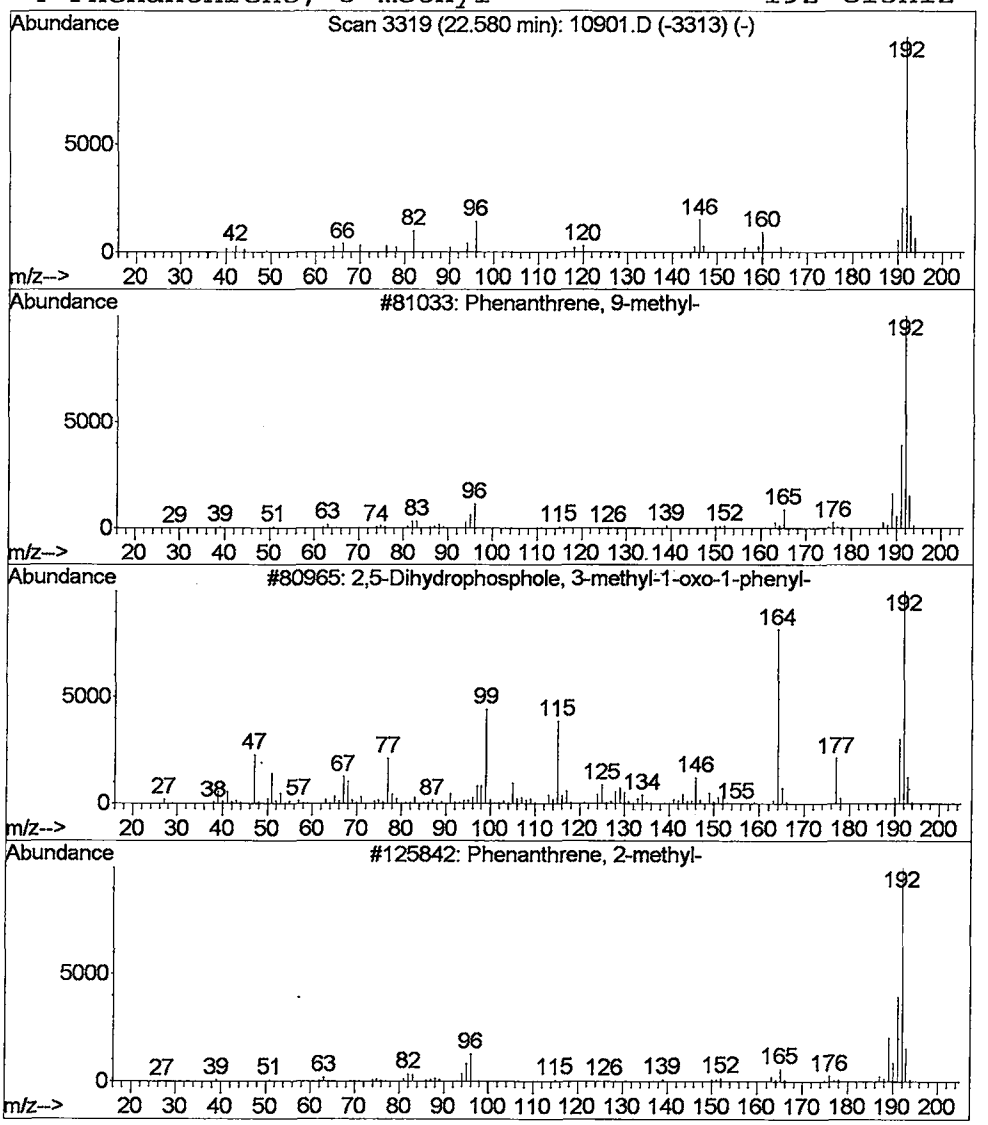
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

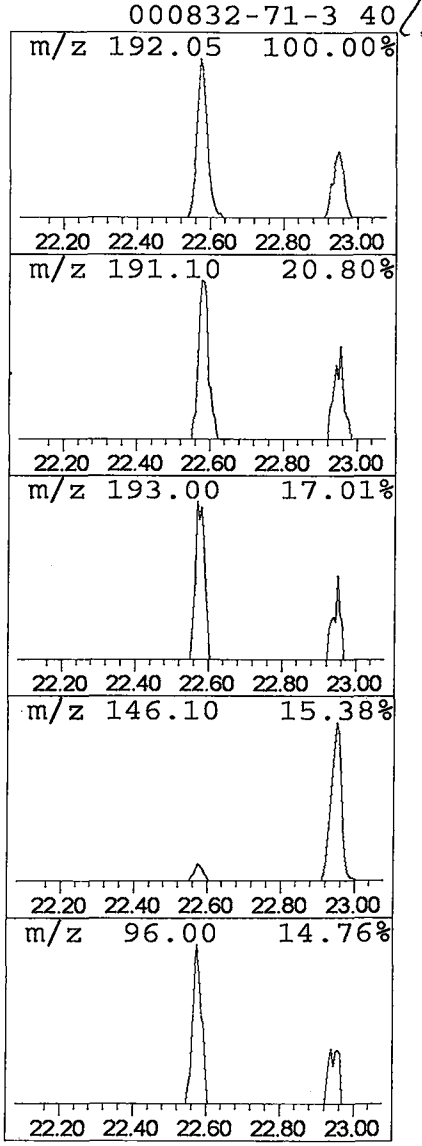
****

Peak Number 6 Phenanthrene, 9-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	0.28 ug/L	331922	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	53
2	2,5-Dihydrophosphole, 3-methyl-1...	192	C11H13OP	1000196-97-5	45
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	40
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	40





Data File : C:\MSDCHEM\1\DATA\051402\10901.D Vial: 8
Acq On : 14 May 2002 7:12 pm Operator: Mclean
Sample : 5/10 kb Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

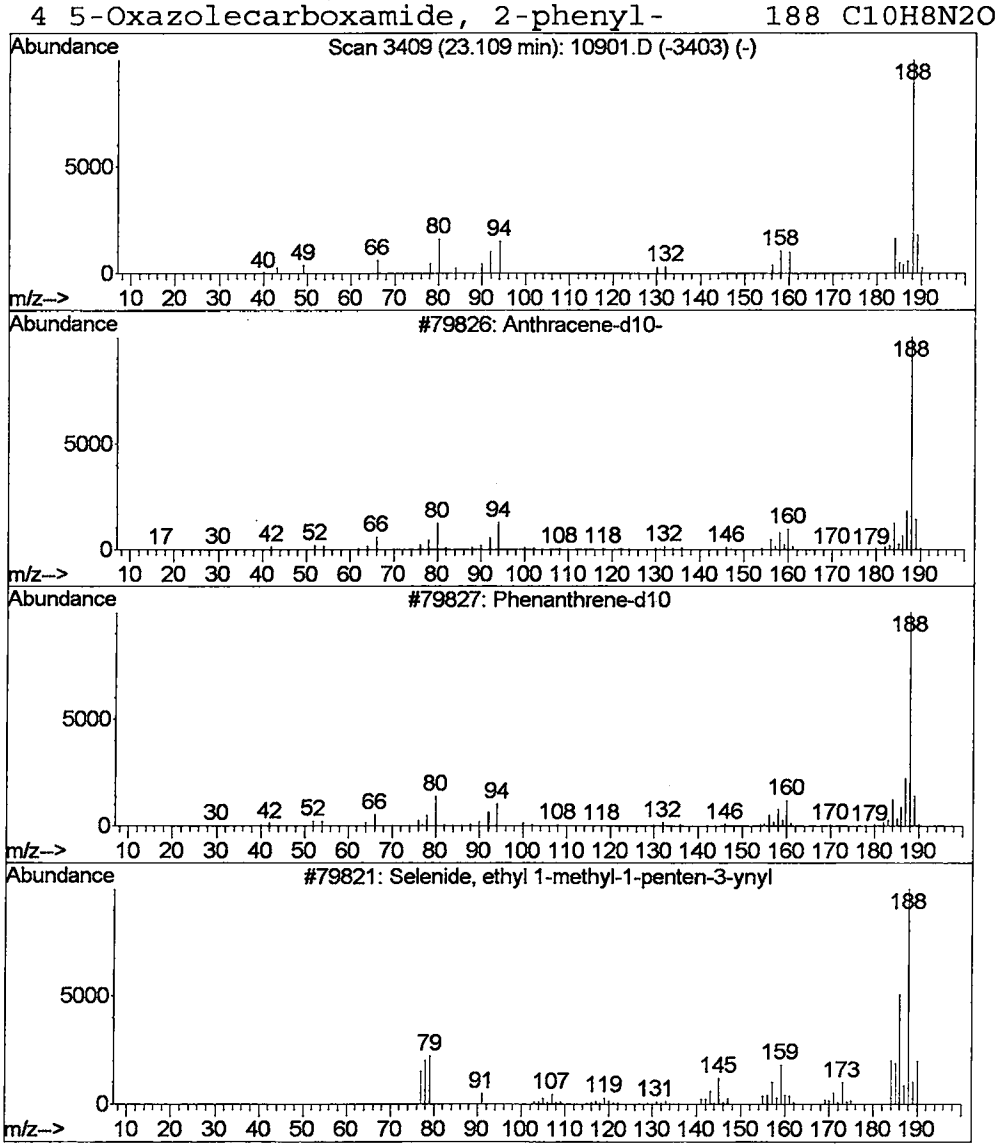
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

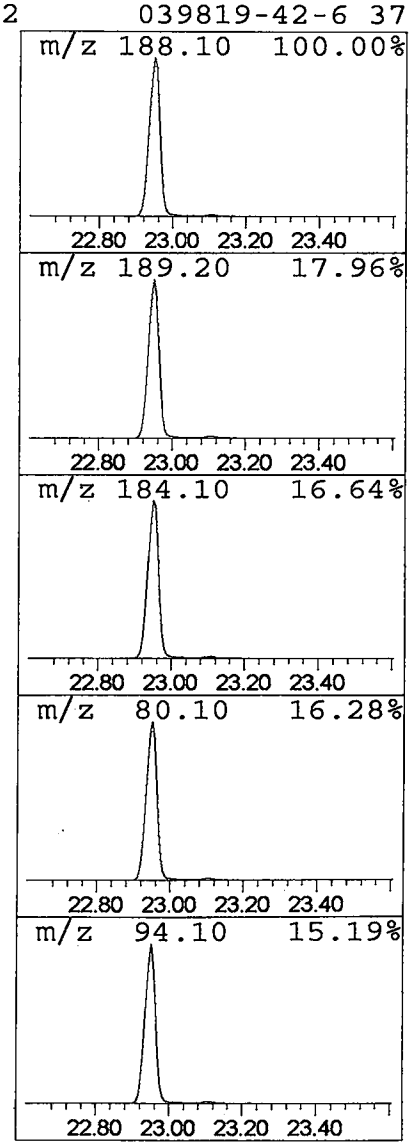
****

Peak Number 7 Anthracene-d10- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	0.45 ug/L	535454	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene-d10-	188	C14D10	001719-06-8	90
2	Phenanthrene-d10	188	C14D10	001517-22-2	83
3	Selenide, ethyl 1-methyl-1-pente...	188	C8H12Se	025128-48-7	38
4	5-Oxazolecarboxamide, 2-phenyl-	188	C10H8N2O2	039819-42-6	37





Tentatively Identified Compound (LSC) summary

Operator ID: Mclean Date Acquired: 14 May 2002 7:12 pm
Data File: C:\MSDCHEM\1\DATA\051402\10901.D
Name: 5/10 kb
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
2-Pentanone, 4-hy...	5.98	18.3	ug/L	15554900	1	9.94	33931500	40.0
2-Hexanone, 5-met...	7.73	0.3	ug/L	253877	1	9.94	33931500	40.0
4-Cyanocyclohexene	10.07	0.3	ug/L	293940	1	9.94	33931500	40.0
Octamethyl-1,3-cy...	21.22	0.7	ug/L	809091	4	22.95	47406600	40.0
Benzene, 1,2,3,5-...	21.40	0.2	ug/L	238617	4	22.95	47406600	40.0
Phenanthrene, 9-m...	22.58	0.3	ug/L	331922	4	22.95	47406600	40.0
Anthracene-d10-	23.11	0.5	ug/L	535454	4	22.95	47406600	40.0
Benzene, 1,1'-(1,...	34.91	0.4	ug/L	293105	6	34.71	27961700	40.0
1H,3H-Pyrrolo[1,2...	34.95	0.4	ug/L	312861	6	34.71	27961700	40.0
4,5-2H-Oxazole-5-...	35.74	0.3	ug/L	220418	6	34.71	27961700	40.0
Spiro[3-cyclohexe...	35.89	0.4	ug/L	262191	6	34.71	27961700	40.0