User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/28/2002 Time: 15:10:37

Sample: AE11413
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/28/02 15:10 Ended: 5/28/02 15:10 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		88		10.0

Comments for Sample AE11413 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-28-2002 Time: 15:11:02

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\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 20 09:52:13 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	9.94	152	6345721	40.00	ug/L	0.00
10) Napthalene-d8	13.43	136	25188074	40.00	ug/L	0.00
17) Acenapthalene-d10	18.57	164	13599531	40.00	ug/L	0.00
29) Phenanthranene-d10	22.95	188	19685361	40.00	ug/L	0.00
37) Chrysene-d12	30.81	240	13617532	40.00	ug/L	0.00
43) Perylene-d12	34.70	264	7368313	40.00	ug/L	0.00
System Monitoring Compounds						
27) TCMX	20.55	209	2896060	35.08	ug/L	0.00
Spiked Amount 40.000			Recovery = 87.70%			
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	20.55	77	48863	N.D.		
30) Nnitrosodiphenylamine	20.55	169	58279	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

Data File : C:\MSDCHEM\1\DATA\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 20 09:52:13 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

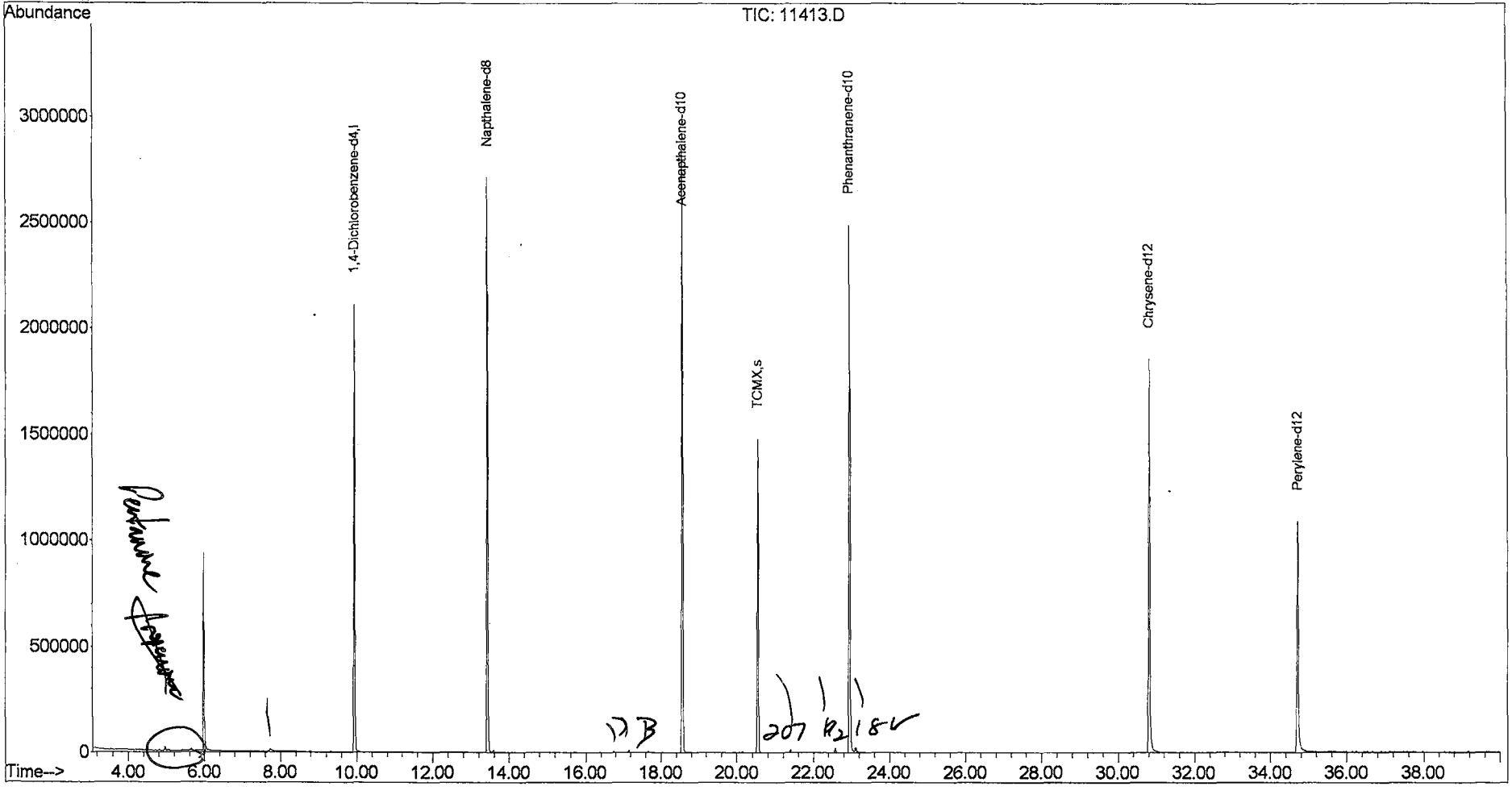
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Fluoroanthene	0.00	202	0	N.D.	
38)	Pyrene	0.00	202	0	N.D.	
39)	Butylbenzylphthalate	0.00	149	0	N.D.	
40)	Benzo(a)anthracene	30.81	228	34303	N.D.	
41)	Bis(2-ethylhexyl)phthalate	0.00	149	0	N.D.	
42)	Chrysene	0.00	228	0	N.D.	
44)	Di-n-octylphthalate	0.00	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\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 20 9:52 2002 Quant Results File: 050102.RES

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\11413.D Vial: 22
Acq On : 18 May 2002 6:43 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

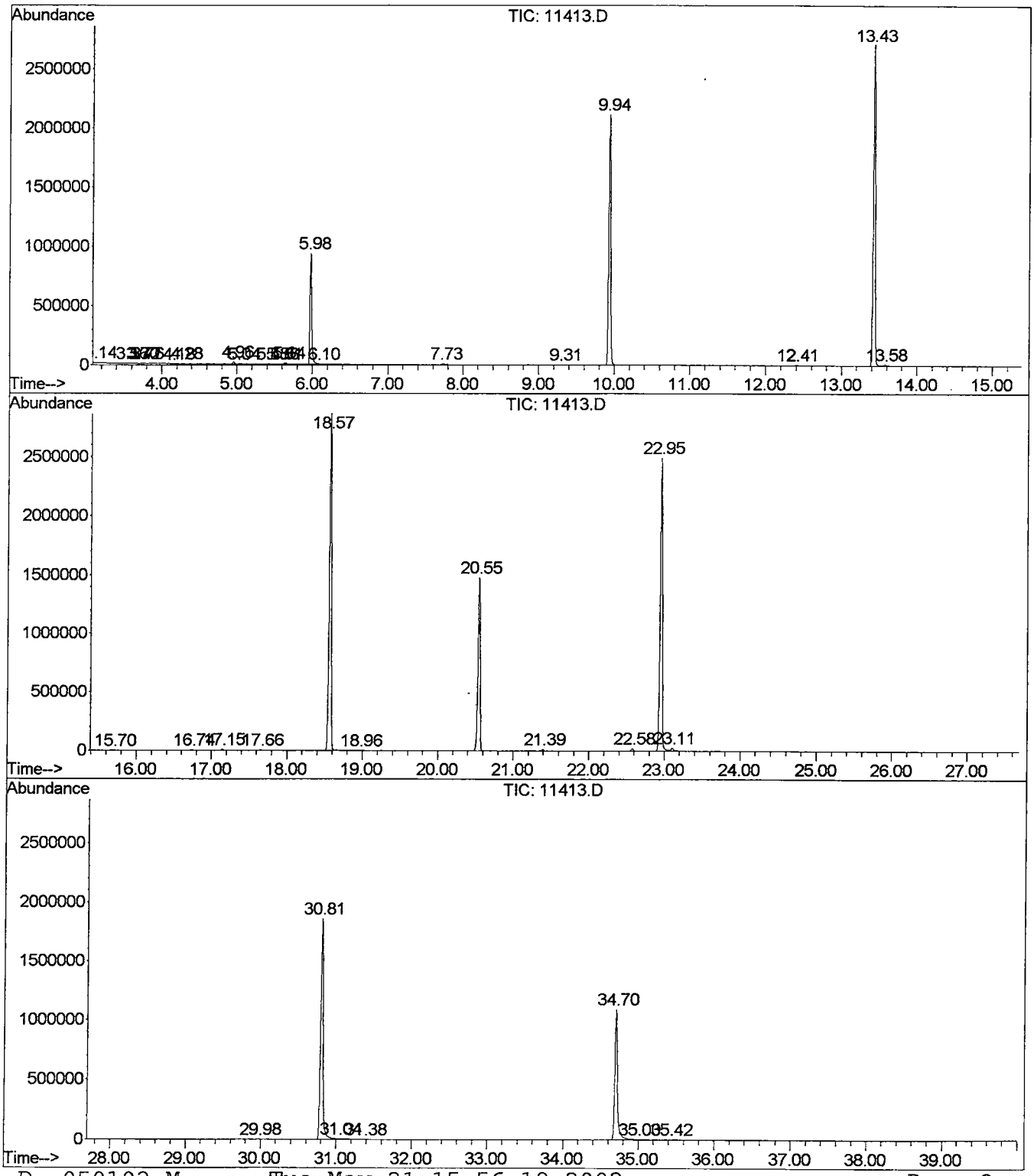
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.144	4	11	18	BV 3	3612	61303	0.11%	0.019%
2	3.561	79	82	90	PV 8	2581	52748	0.09%	0.017%
3	3.696	95	105	107	PV 7	2598	57037	0.10%	0.018%
4	3.720	107	109	110	VV 2	3525	35054	0.06%	0.011%
5	3.761	110	116	118	VV 3	4088	90756	0.16%	0.029%
6	4.184	185	188	200	VV 8	2764	72615	0.13%	0.023%
7	4.278	200	204	213	VV 6	3256	71911	0.13%	0.023%
8	4.960	312	320	331	VV 2	19078	331755	0.59%	0.104%
9	5.048	331	335	347	VV 7	4008	127980	0.23%	0.040%
10	5.430	395	400	408	VV 4	4408	86088	0.15%	0.027%
11	5.559	417	422	426	VV 8	2456	56596	0.10%	0.018%
12	5.612	426	431	432	VV 2	2451	37890	0.07%	0.012%
13	5.641	432	436	445	VV 3	11119	236346	0.42%	0.074%
14	5.982	479	494	513	PV	933923	15810665	28.33%	4.971%
15	6.105	513	515	531	VV 7	3582	89959	0.16%	0.028%
16	7.733	788	792	807	PV 2	9502	254639	0.46%	0.080%
17	9.307	1055	1060	1068	PV 6	2176	49141	0.09%	0.015%
18	9.936	1158	1167	1200	PV	2072314	38345608	68.70%	12.057%
19	12.404	1582	1587	1597	VV 4	2723	46303	0.08%	0.015%
20	13.432	1751	1762	1782	PV	2727137	51641569	92.52%	16.238%
21	13.585	1782	1788	1808	VV	9105	187145	0.34%	0.059%
22	15.700	2136	2148	2157	PV 4	2346	58987	0.11%	0.019%
23	16.746	2319	2326	2330	PV 2	4445	72125	0.13%	0.023%
24	17.145	2389	2394	2401	VV 2	10200	173547	0.31%	0.055%
25	17.663	2474	2482	2488	PV 2	4618	78198	0.14%	0.025%
26	18.573	2625	2637	2661	PV	2828854	55817350	100.00%	17.551%
27	18.961	2696	2703	2708	VV	2044	33053	0.06%	0.010%
28	20.547	2953	2973	2983	BV	1483980	29108975	52.15%	9.153%
29	21.394	3109	3117	3124	PV 2	12643	211272	0.38%	0.066%
30	22.580	3307	3319	3327	PV	21138	389107	0.70%	0.122%
31	22.956	3367	3383	3402	PV 2	2477029	53835083	96.45%	16.928%
32	23.109	3402	3409	3424	VV 2	23417	581572	1.04%	0.183%
33	29.978	4568	4578	4584	PV 3	1790	32002	0.06%	0.010%
34	30.806	4706	4719	4758	PV 2	1833087	42508925	76.16%	13.366%
35	31.041	4758	4759	4768	VV 5	3298	93253	0.17%	0.029%
36	31.376	4811	4816	4826	VB 5	2216	45688	0.08%	0.014%
37	34.708	5371	5383	5429	PV 2	1076717	27127273	48.60%	8.530%

38	34.995	5429	5432	5449	VV	6	2607	113832	0.20%	0.036%
39	35.419	5502	5504	5506	VV	3	1328	8314	0.01%	0.003%

Sum of corrected areas: 318031663

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\051702\11413.D
Operator : Mclean
Acquired : 18 May 2002 6:43 am using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/15 eh
Misc Info :
Vial Number: 22
Quant File :050102.RES (Chemstation Integrator)



Data File : C:\MSDCHEM\1\DATA\051702\11413.D
Acq On : 18 May 2002 6:43 am
Sample : 5/15 eh
Misc :
MS Integration Params: LSCINT.e

Vial: 22
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

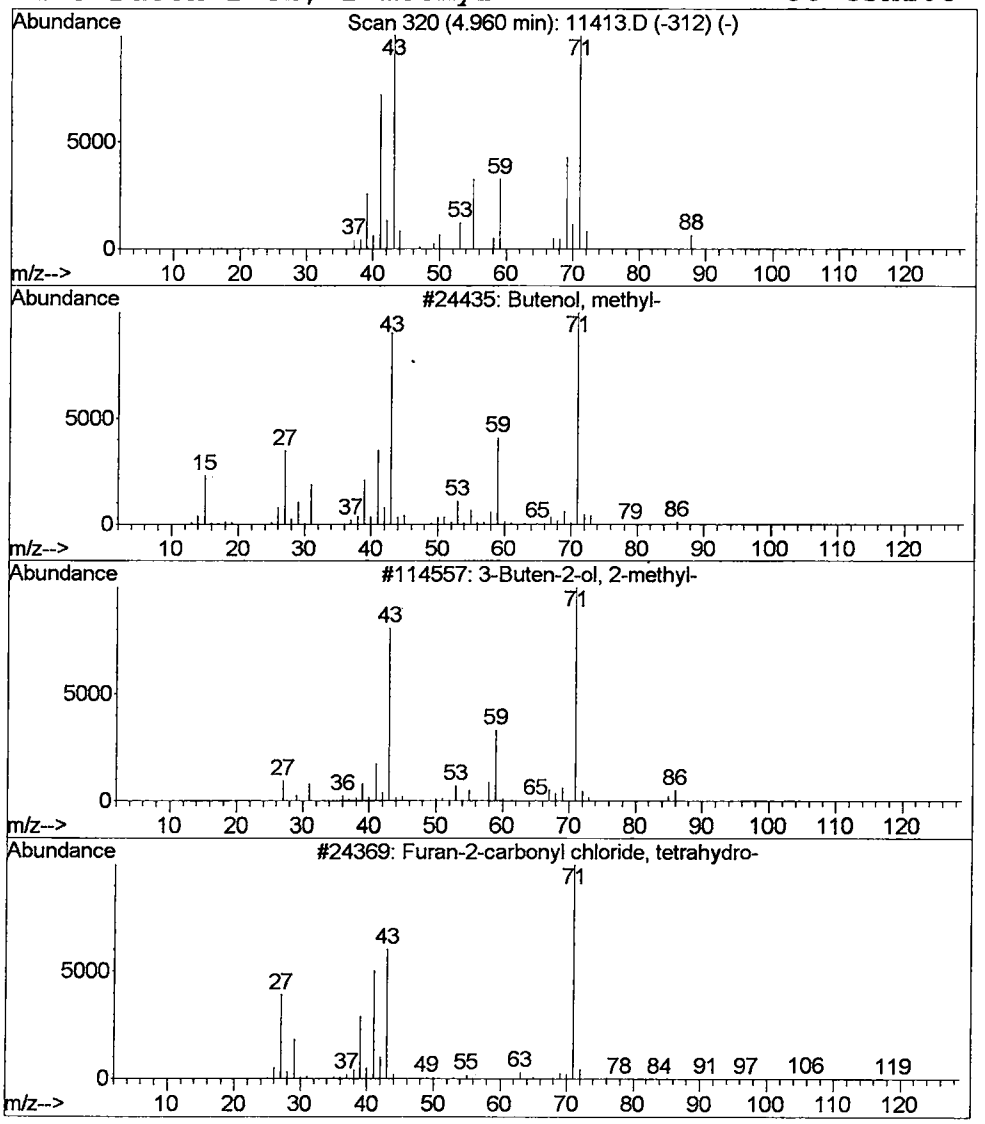
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

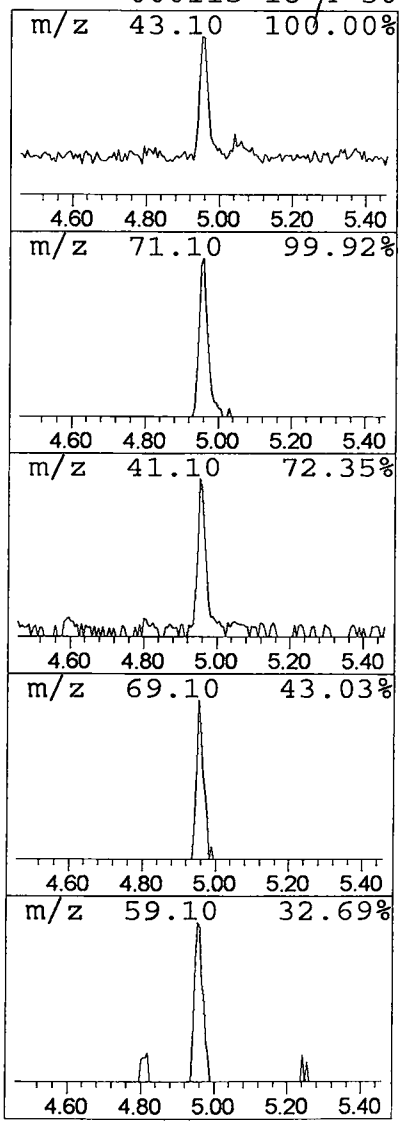
****

Peak Number 1 Butenol, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.96	0.35 ug/L	331755	1,4-Dichlorobenzene-d4	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butenol, methyl-	86	C5H10O	060766-00-9	64
2	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	56
3	Furan-2-carbonyl chloride, tetra...	134	C5H7ClO2	052449-98-6	53
4	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	50





Data File : C:\MSDCHEM\1\DATA\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

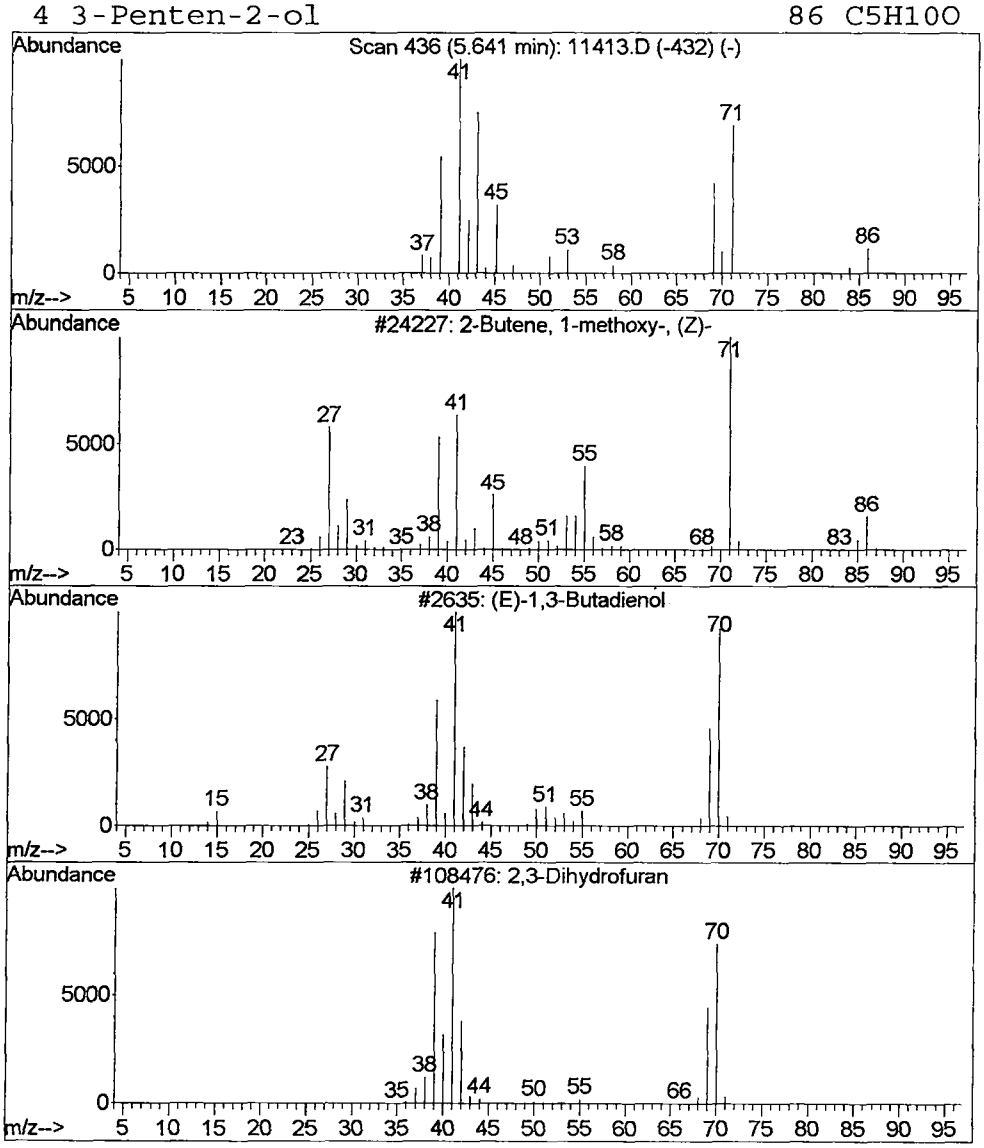
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

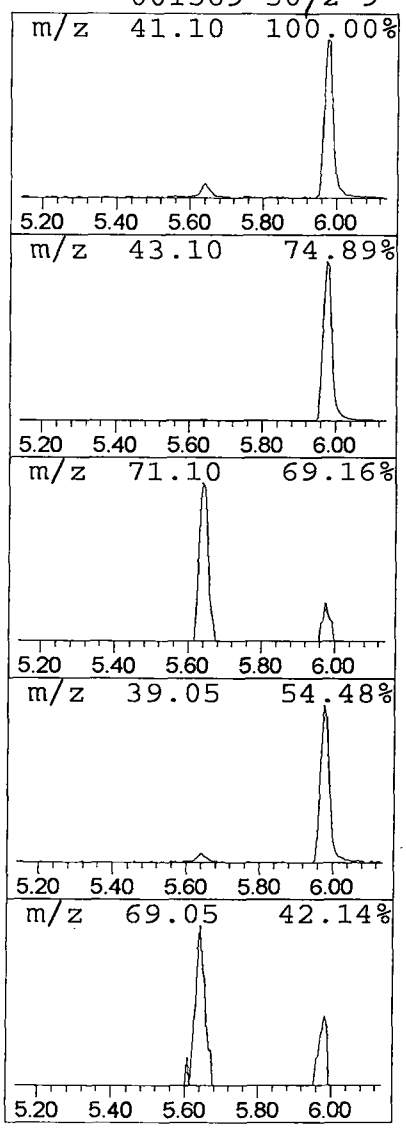
****

Peak Number 2 2-Butene, 1-methoxy-, (Z)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.64	0.25 ug/L	236346	1,4-Dichlorobenzene-d4	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene, 1-methoxy-, (Z)-	86	C5H10O	010034-16-9	38
2	(E)-1,3-Butadienol	70	C4H6O	070411-98-2	12
3	2,3-Dihydrofuran	70	C4H6O	001191-99-7	10
4	3-Penten-2-ol	86	C5H10O	001569-50-2	9





Data File : C:\MSDCHEM\1\DATA\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

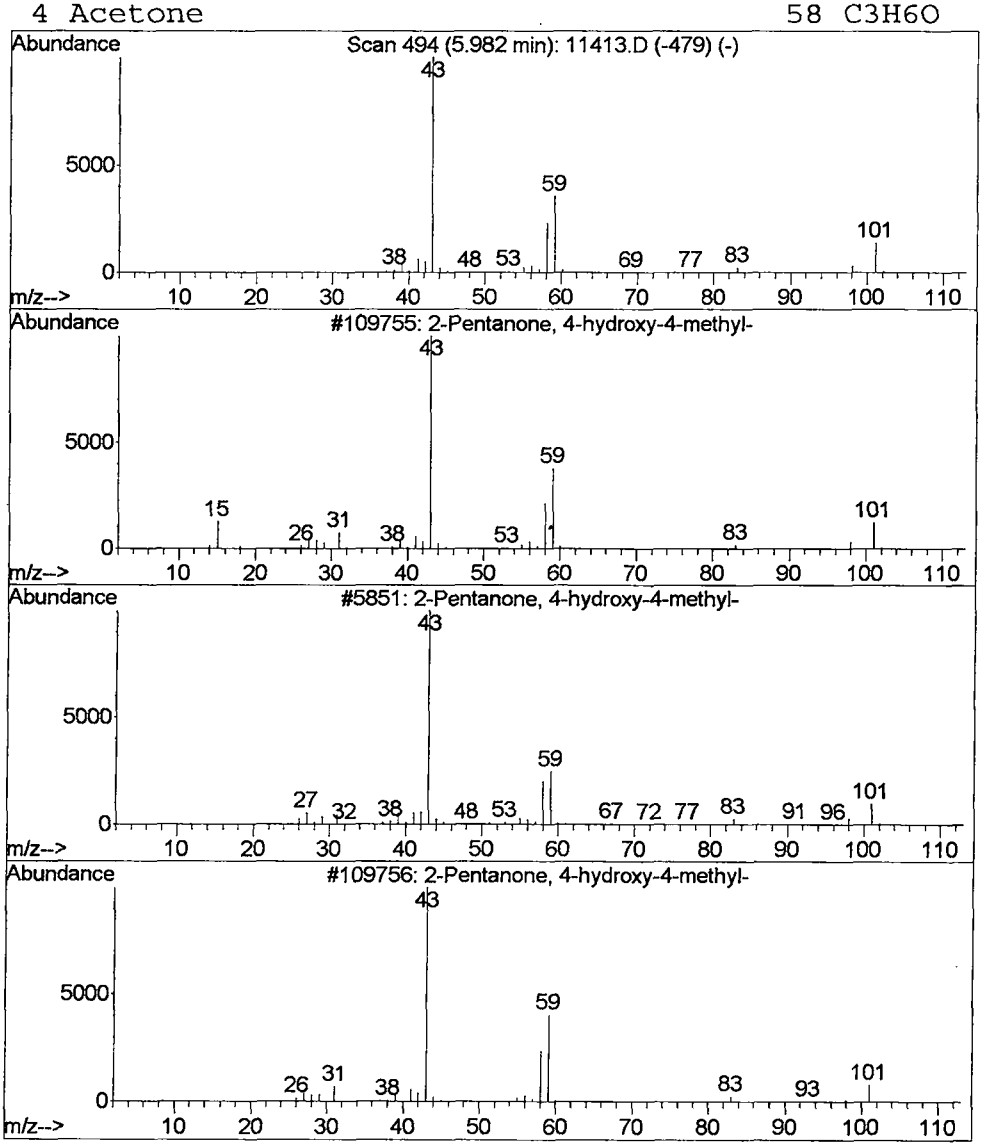
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

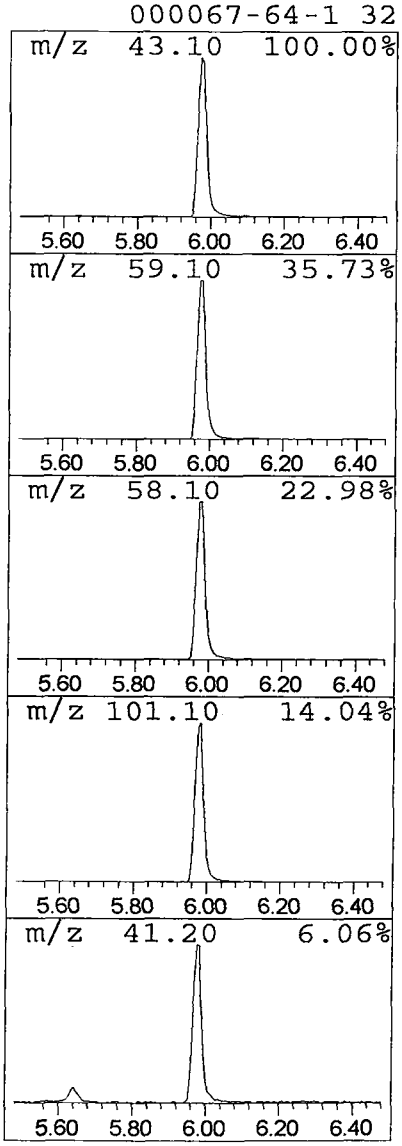
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.98	16.49 ug/L	15810700	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	90
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	40
4	Acetone	58	C3H6O	000067-64-1	32





Data File : C:\MSDCHEM\1\DATA\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

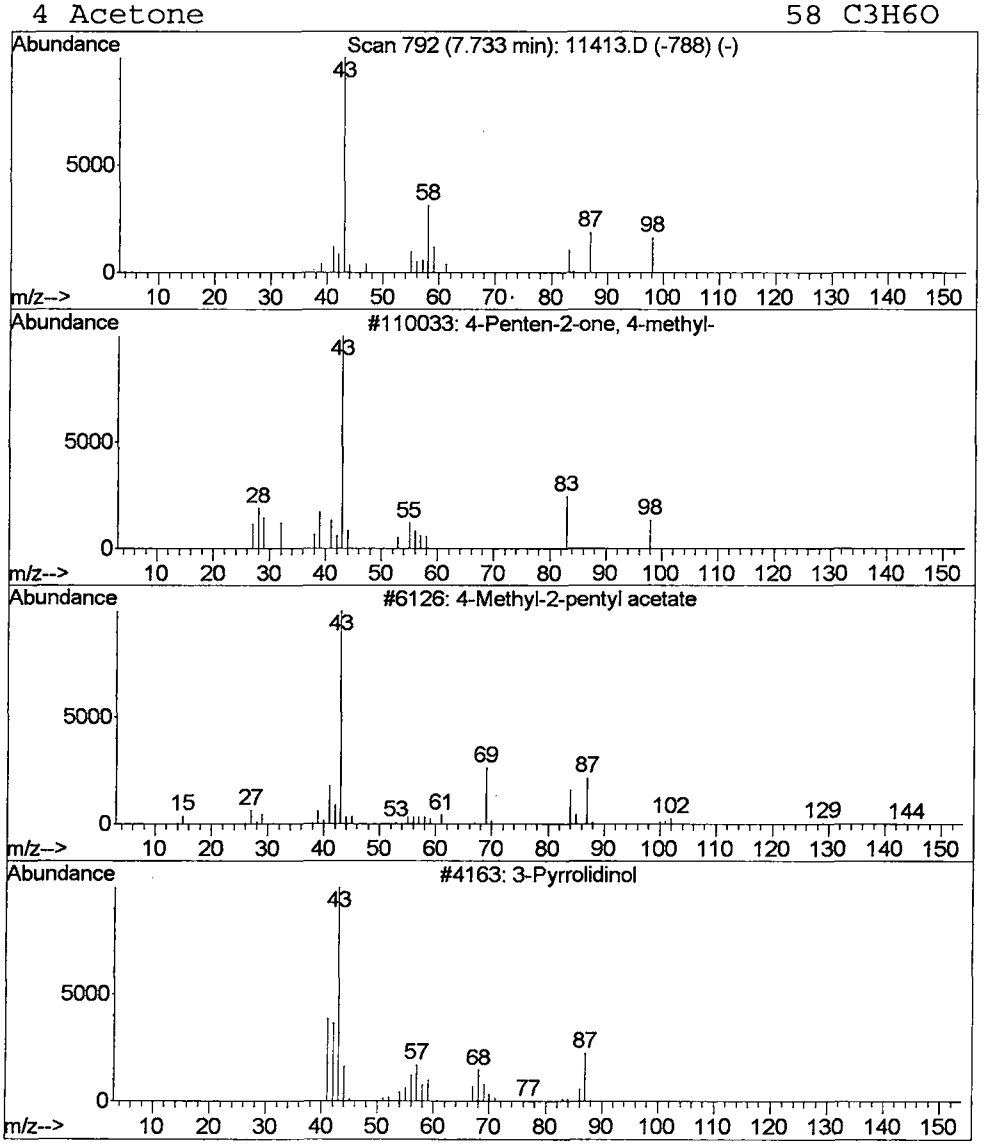
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

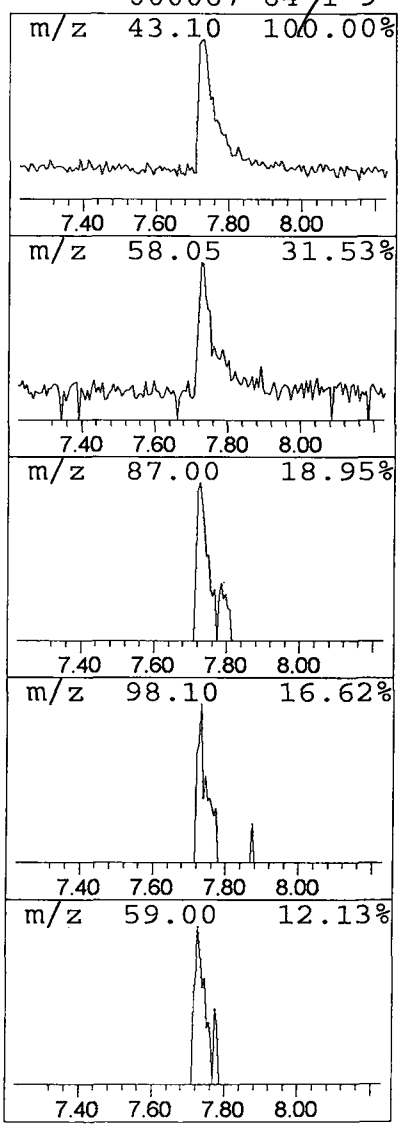
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.73	0.27 ug/L	254639	1,4-Dichlorobenzene-d4	9.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	25
2	4-Methyl-2-pentyl acetate	144	C8H16O2	000108-84-9	23
3	3-Pyrrolidinol	87	C4H9NO	040499-83-0	9
4	Acetone	58	C3H6O	000067-64-1	9





Data File : C:\MSDCHEM\1\DATA\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

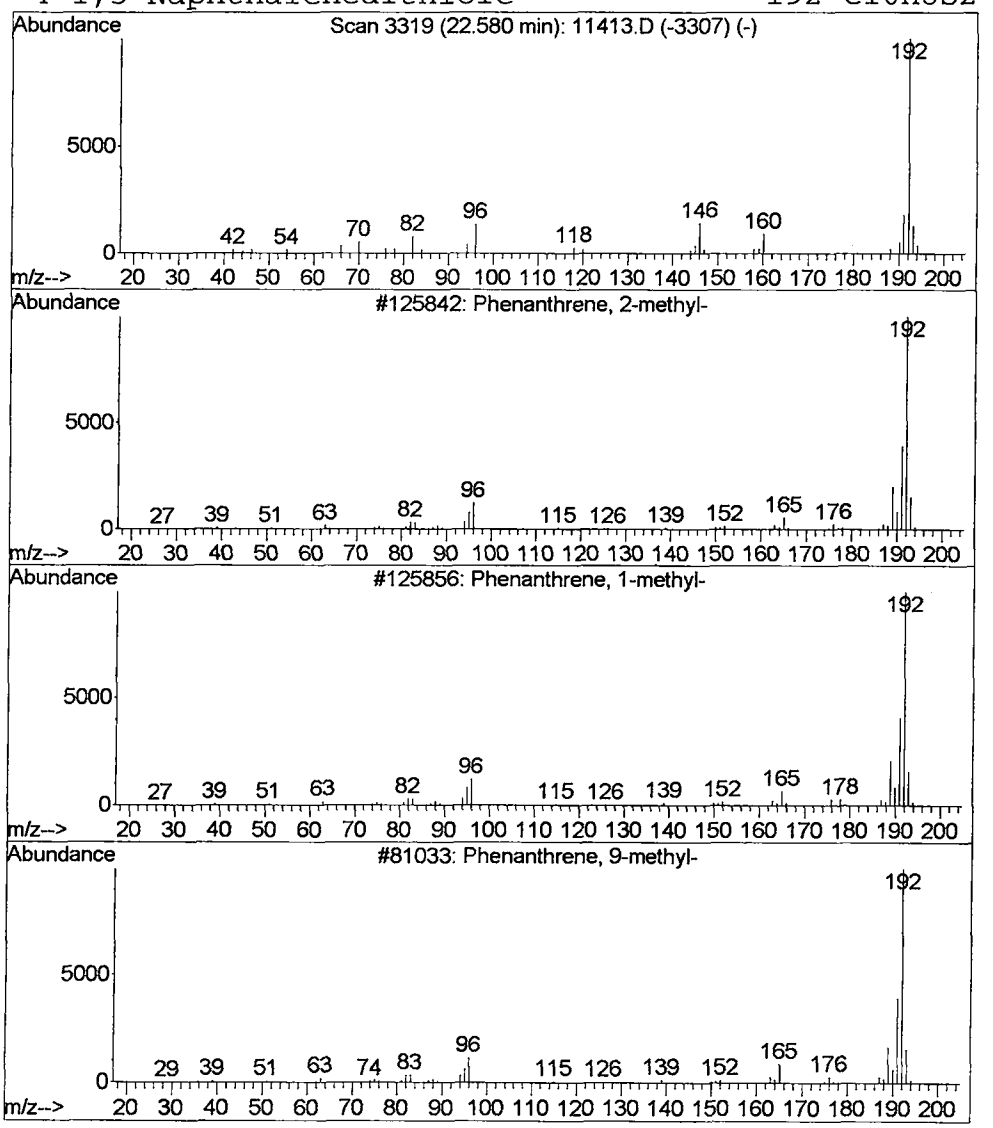
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

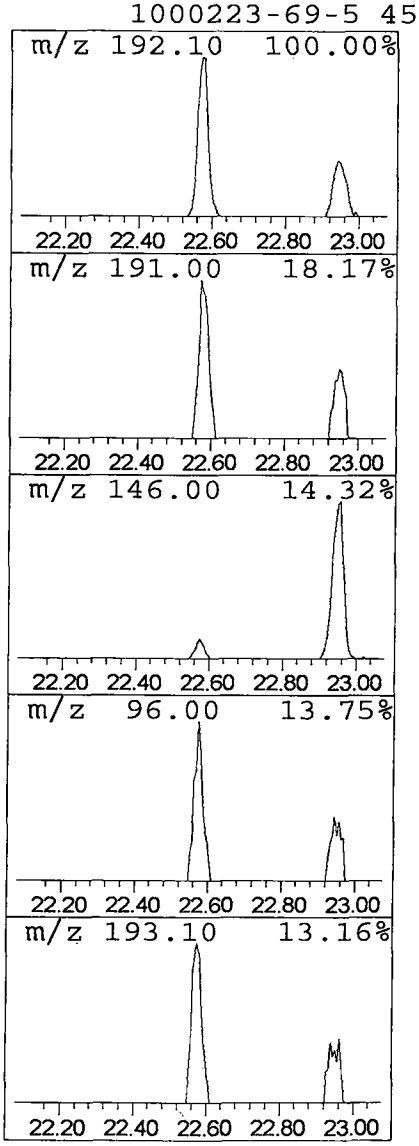
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	0.29 ug/L	389107	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	53
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	53
3	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	50
4	1,5-Naphthalenedithiole	192	C10H8S2	1000223-69-5	45





Data File : C:\MSDCHEM\1\DATA\051702\11413.D Vial: 22
Acq On : 18 May 2002 6:43 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

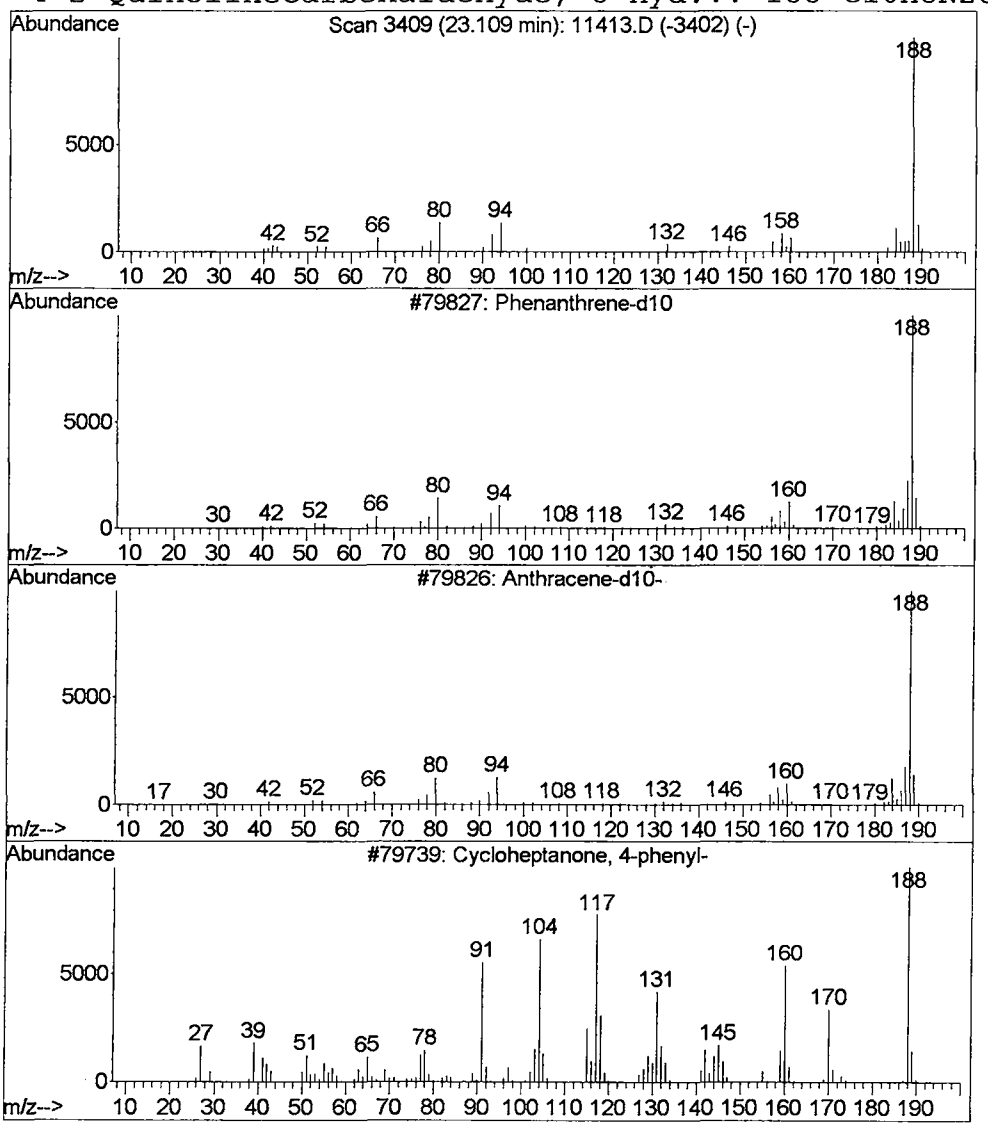
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

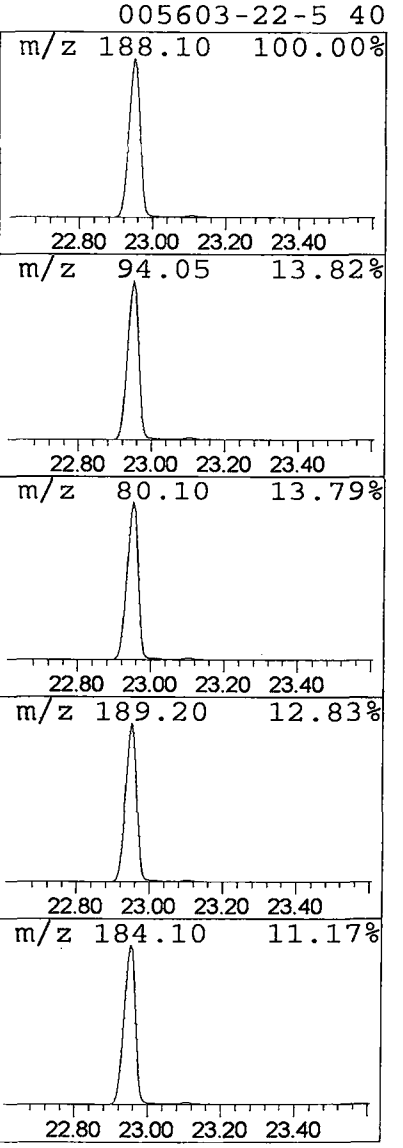
****

Peak Number 6 Phenanthrene-d10 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	0.43 ug/L	581572	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene-d10	188	C14D10	001517-22-2	93
2	Anthracene-d10-	188	C14D10	001719-06-8	93
3	Cycloheptanone, 4-phenyl-	188	C13H16O	067688-28-2	50
4	2-Quinolinecarboxaldehyde, 8-hyd...	188	C10H8N2O2	005603-22-5	40





Tentatively Identified Compound (TIC) Summary

Operator ID: Mclean Date Acquired: 18 May 2002 6:43 am
Data File: C:\MSDCHEM\1\DATA\051702\11413.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
Butenol, methyl-	4.96	0.3	ug/L	331755	1	9.94	38345600	40.0
2-Butene, 1-metho...	5.64	0.2	ug/L	236346	1	9.94	38345600	40.0
2-Pentanone, 4-hy...	5.98	16.5	ug/L	15810700	1	9.94	38345600	40.0
4-Penten-2-one, 4...	7.73	0.3	ug/L	254639	1	9.94	38345600	40.0
Phenanthrene, 2-m...	22.58	0.3	ug/L	389107	4	22.95	53835100	40.0
Phenanthrene-d10	23.11	0.4	ug/L	581572	4	22.95	53835100	40.0