User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/06/2002 Time: 12:22:57

Sample: AE08323
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/6/02 12:22 Ended: 5/6/02 12:22 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		73		10.0

.Comments for Sample AE08323 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-06-2002 Time: 12:24:55

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Apr 22 15:38:19 2002 Quant Results File: SCAN020418.RE

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Last Update : Mon Apr 22 15:35:07 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN1

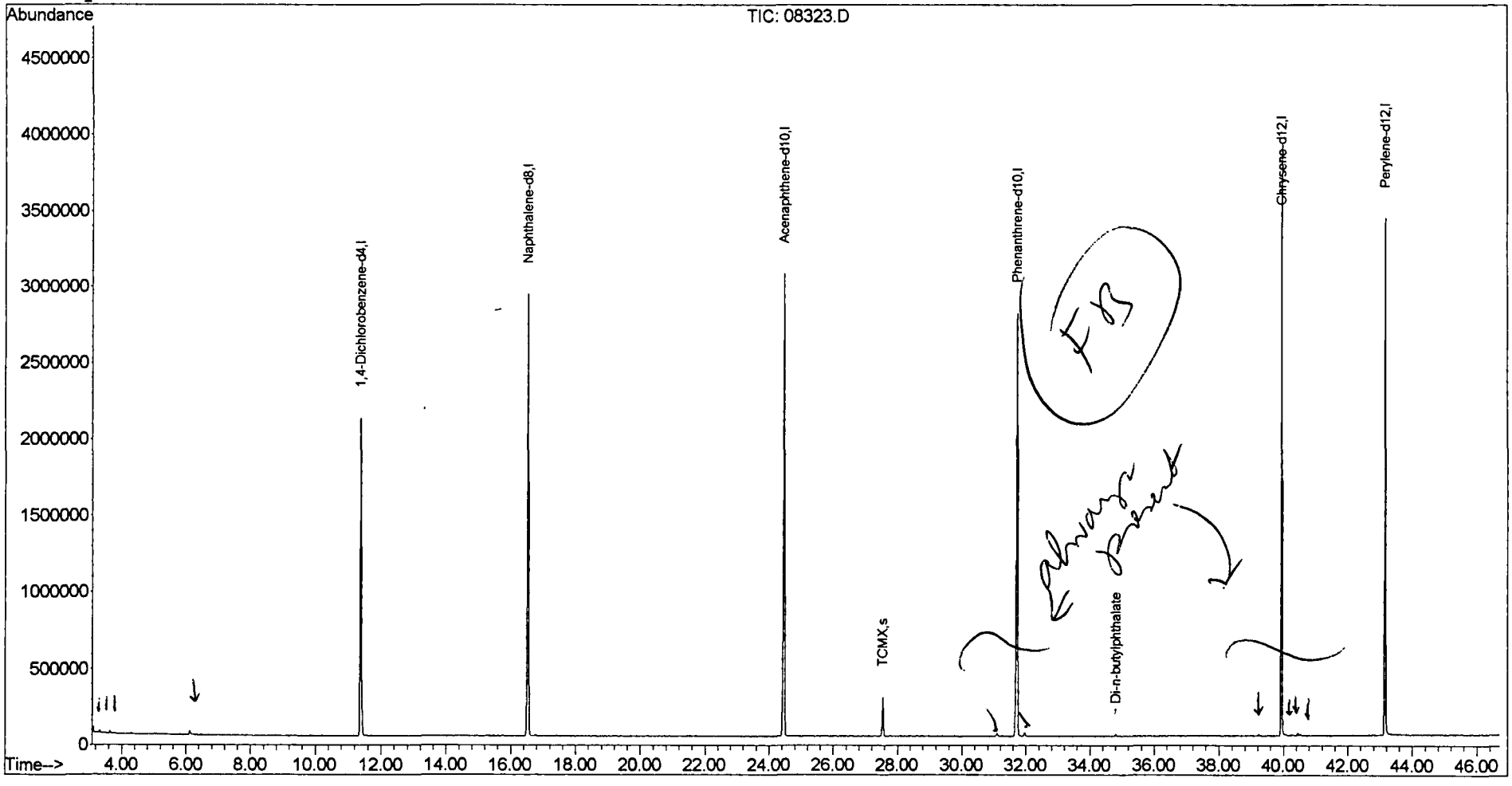
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.38	152	10654857	40.00	ug/l	-0.05
10) Naphthalene-d8	16.54	136	40901955	40.00	ug/l	-0.07
17) Acenaphthene-d10	24.46	164	22353704	40.00	ug/l	-0.06
30) Phenanthrene-d10	31.72	188	33772332	40.00	ug/l	-0.06
38) Chrysene-d12	39.94	240	26718286	40.00	ug/l	-0.07
44) Perylene-d12	43.16	264	20411987	40.00	ug/l	-0.04
System Monitoring Compounds						
27) TCMX	27.54	207	814695	5.87	ug/l	-0.07
Spiked Amount 8.000			Recovery = 73.38%			
Target Compounds						Qvalue
35) Di-n-butylphthalate	34.81	149	202958	0.17	ug/l	94

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Apr 22 15:39 2002 Quant Results File: SCAN020418.RES

Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Last Update : Mon Apr 22 15:35:07 2002
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (RTE Integrator)
Title : Method 508 GC/MS Scan
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 5 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.01 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

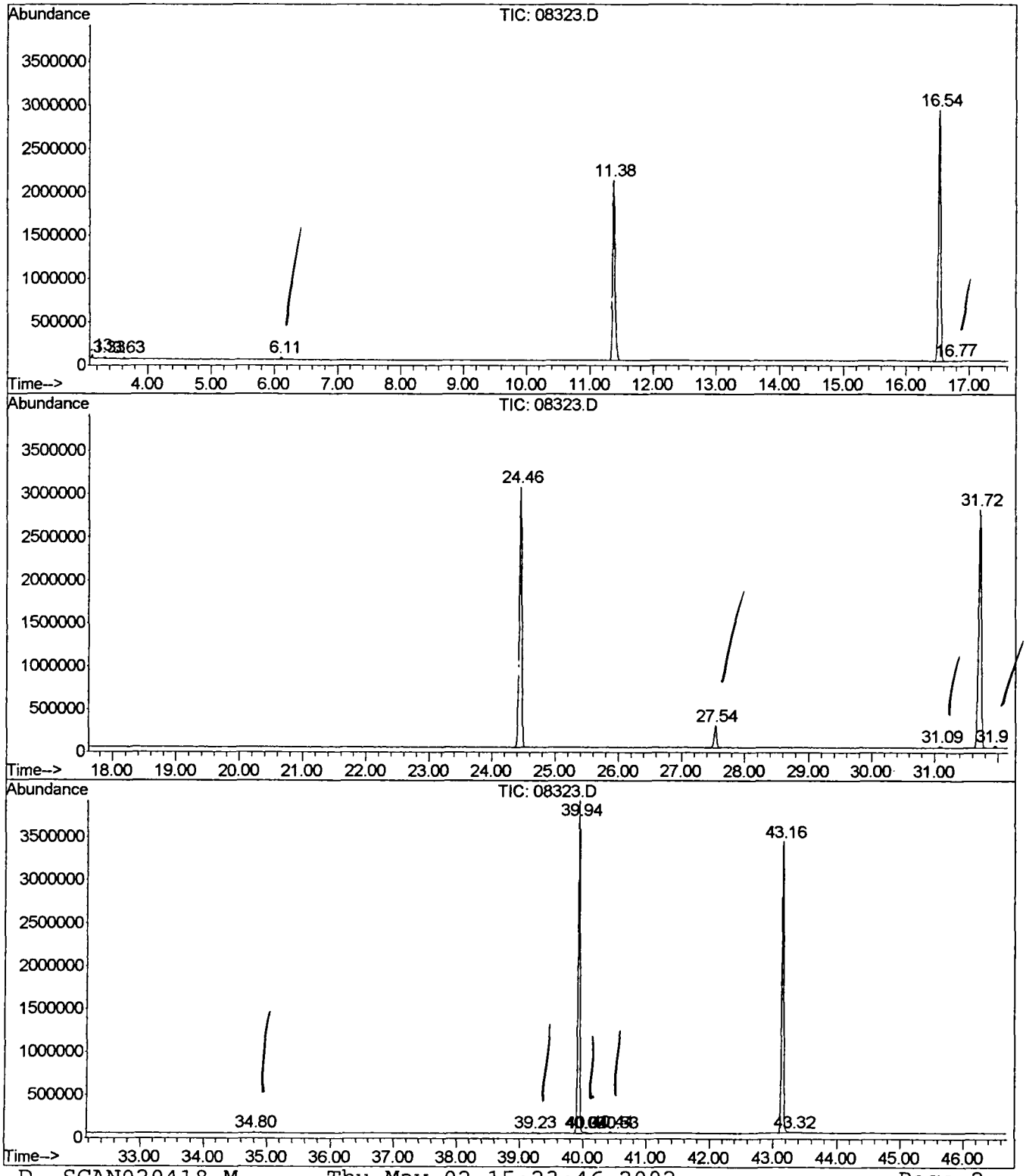
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.126	3	8	18	BV	38584	402832	0.48%	0.087%
2	3.332	39	43	48	VV	21057	332843	0.39%	0.072%
3	3.631	88	94	104	PV	18970	332647	0.39%	0.072%
4	6.117	511	517	530	PV	27696	720921	0.85%	0.157%
5	11.375	1399	1412	1433	BV	2079270	53813460	63.55%	11.684%
6	16.534	2270	2290	2312	PV	2864942	74761303	88.29%	16.232%
7	16.769	2323	2330	2338	VV	10500	271749	0.32%	0.059%
8	24.460	3616	3639	3654	PV	3013917	84458135	99.74%	18.337%
9	27.539	4131	4163	4178	PV	257009	7163049	8.46%	1.555%
10	31.088	4758	4767	4777	VV	20578	592748	0.70%	0.129%
11	31.722	4853	4875	4901	VV	2769005	84677180	100.00%	18.384%
12	31.952	4906	4914	4925	VV	25894	736473	0.87%	0.160%
13	34.807	5385	5400	5406	VV	16285	371013	0.44%	0.081%
14	39.226	6146	6152	6172	VV	13385	402682	0.48%	0.087%
15	39.937	6260	6273	6285	PV	3803541	78691918	92.93%	17.085%
16	40.013	6285	6286	6289	VV	12091	137424	0.16%	0.030%
17	40.042	6289	6291	6311	VV	13322	514833	0.61%	0.112%
18	40.436	6353	6358	6365	PV	18697	373238	0.44%	0.081%
19	40.530	6365	6374	6379	VV	8532	214443	0.25%	0.047%
20	43.162	6809	6822	6843	PV	3435612	71419282	84.34%	15.506%
21	43.315	6843	6848	6859	VV	6353	202905	0.24%	0.044%

Sum of corrected areas: 460591076

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\020419\08323.D
Operator : Nefliu
Acquired : 19 Apr 2002 4:59 pm using AcqMethod 508SCAN1
Instrument : Instrumen
Sample Name: sample
Misc Info :
Vial Number: 10
Quant File :SCAN020418.RES (Chemstation Integrator)



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D
Acq On : 19 Apr 2002 4:59 pm
Sample : sample
Misc :
MS Integration Params: rteint.e

Vial: 10
Operator: Nefliu
Inst : Instrumen
Multiplr: 1.00

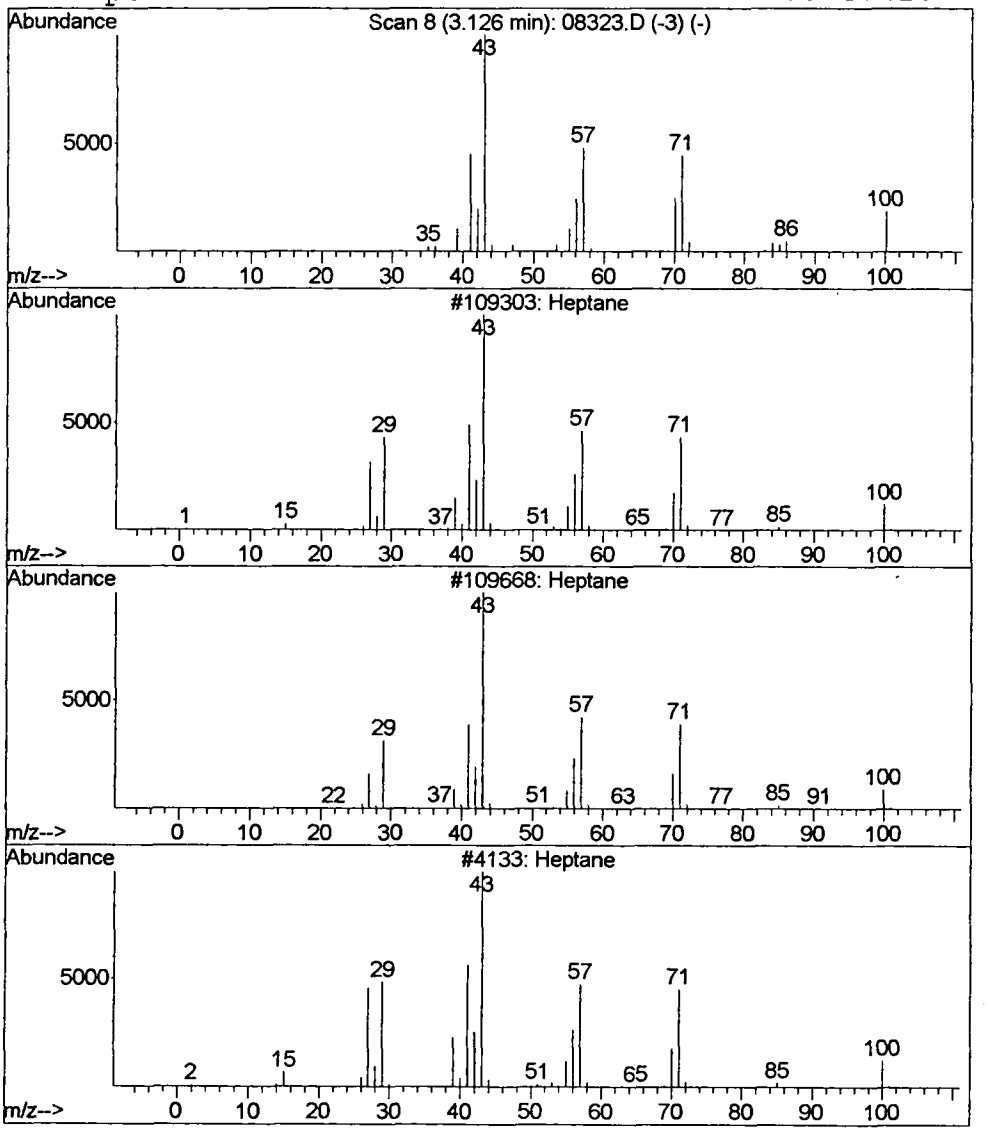
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

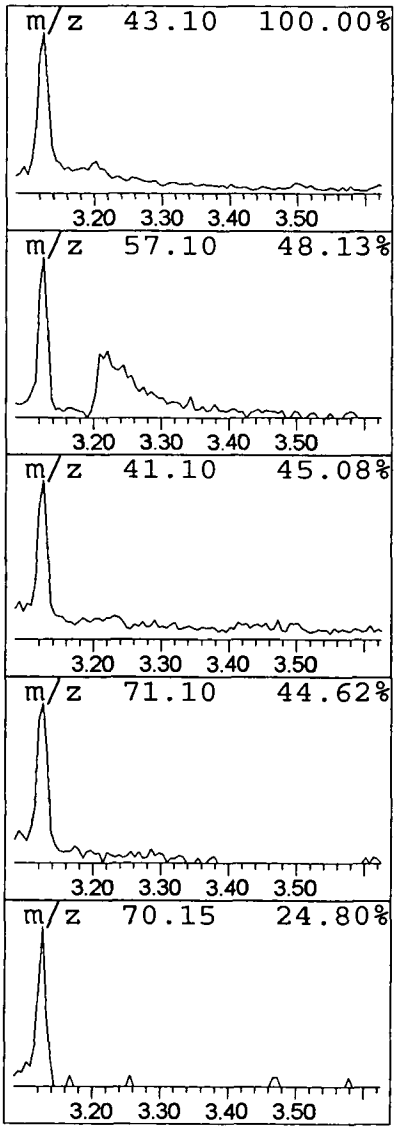
****

Peak Number 1 Heptane — Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.13	0.30 ug/l	402832	1,4-Dichlorobenzene-d4	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane	100	C7H16	000142-82-5	64
2	Heptane	100	C7H16	000142-82-5	64
3	Heptane	100	C7H16	000142-82-5	56
4	Heptane	100	C7H16	000142-82-5	45





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D
Acq On : 19 Apr 2002 4:59 pm
Sample : sample
Misc :
MS Integration Params: rteint.e

Vial: 10
Operator: Nefliu
Inst : Instrumen
Multiplr: 1.00

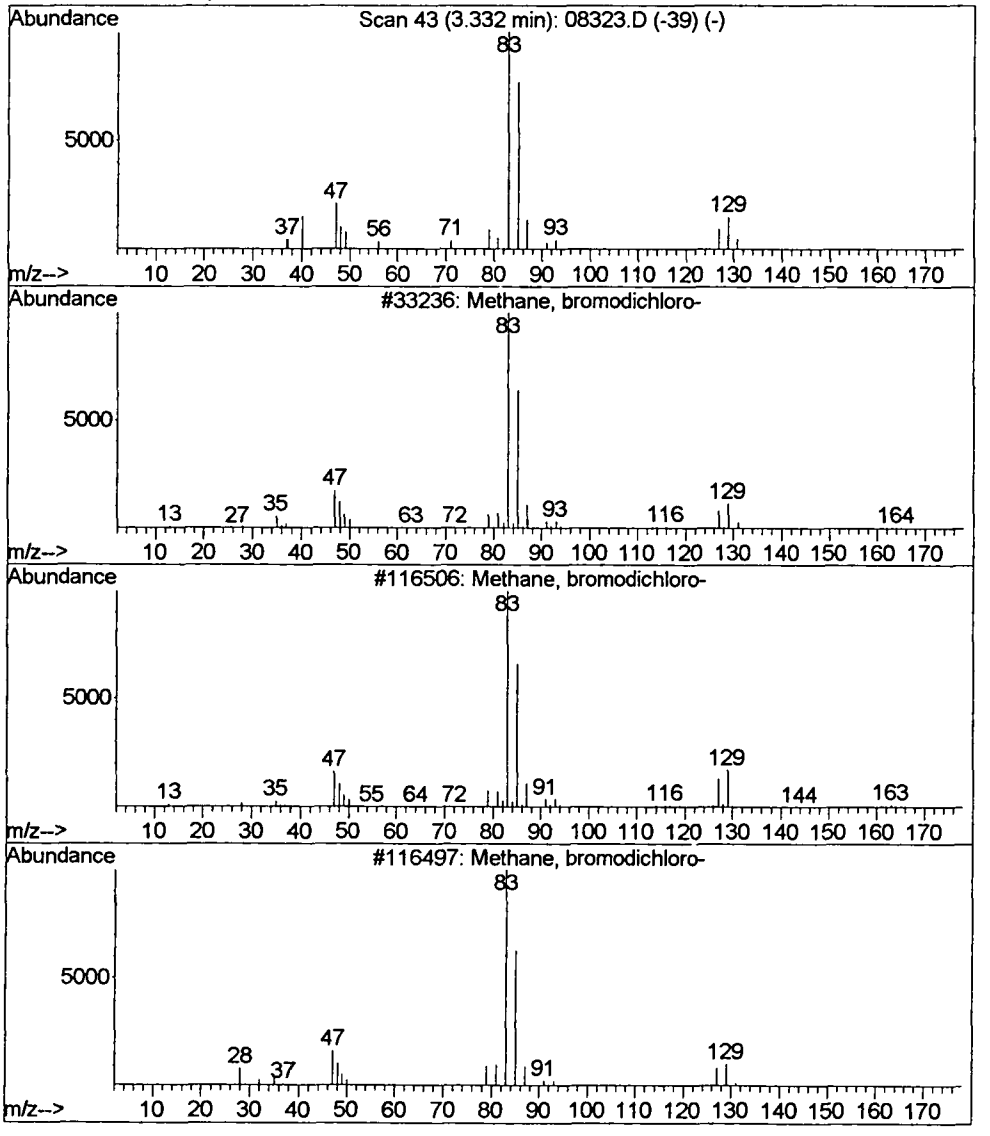
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

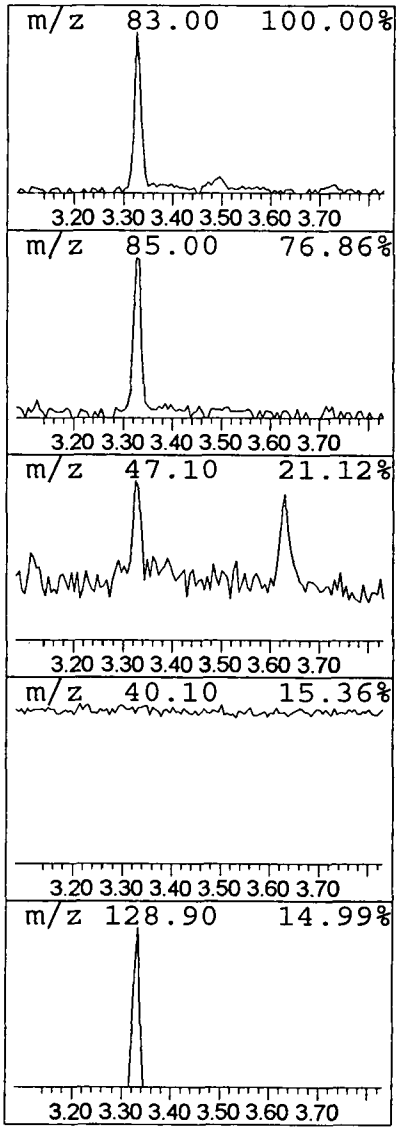
****

Peak Number 2 Methane, bromodichloro- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.33	0.25 ug/l	332843	1,4-Dichlorobenzene-d4	11.38

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	78
3	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	74
4	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	74





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

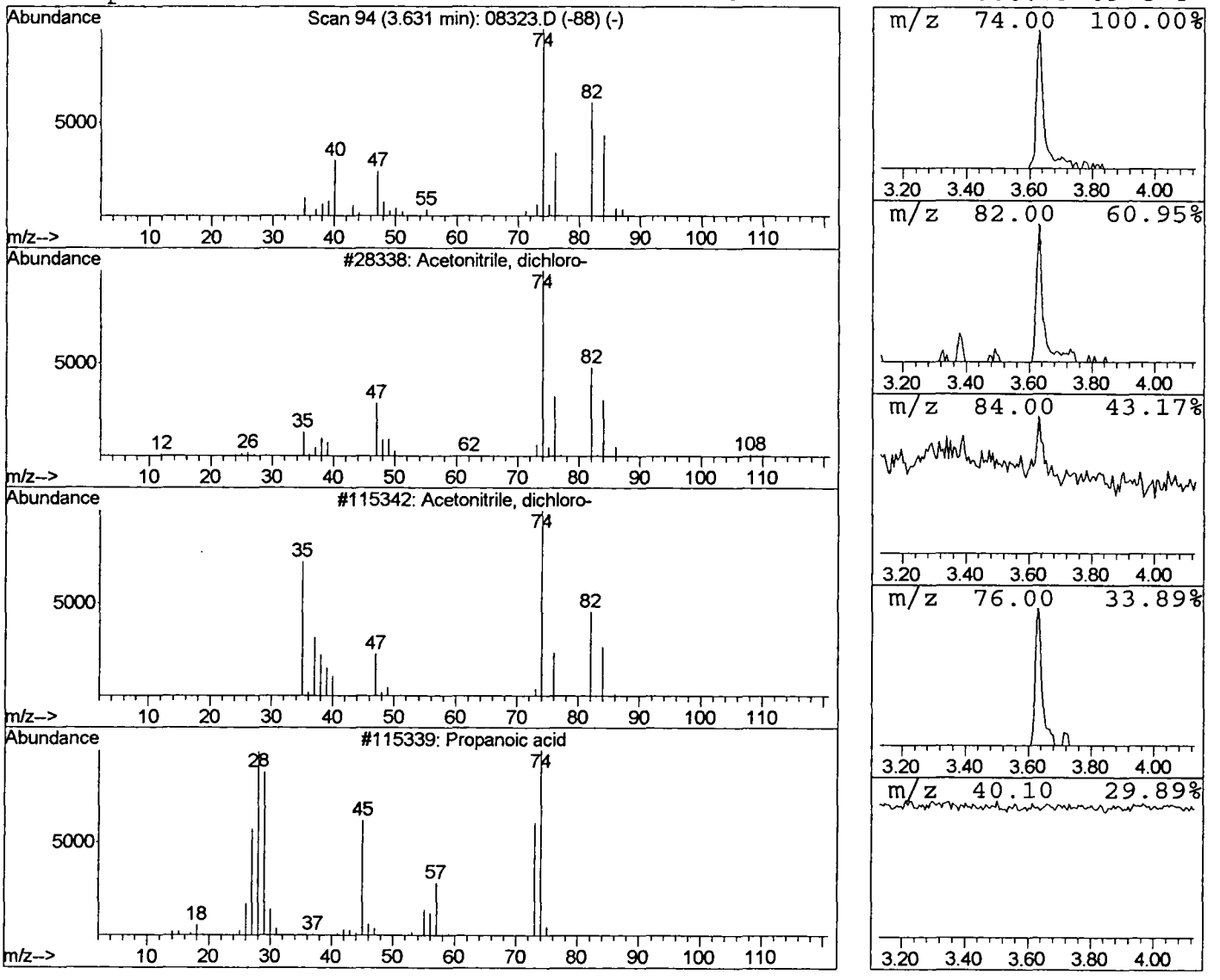
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

****

Peak Number 3 Acetonitrile, dichloro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.63	0.25 ug/l	332647	1,4-Dichlorobenzene-d4	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetonitrile, dichloro-	109	C2HCl2N	003018-12-0	83
2	Acetonitrile, dichloro-	109	C2HCl2N	003018-12-0	12
3	Propanoic acid	74	C3H6O2	000079-09-4	4
4	Propanoic acid	74	C3H6O2	000079-09-4	4



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

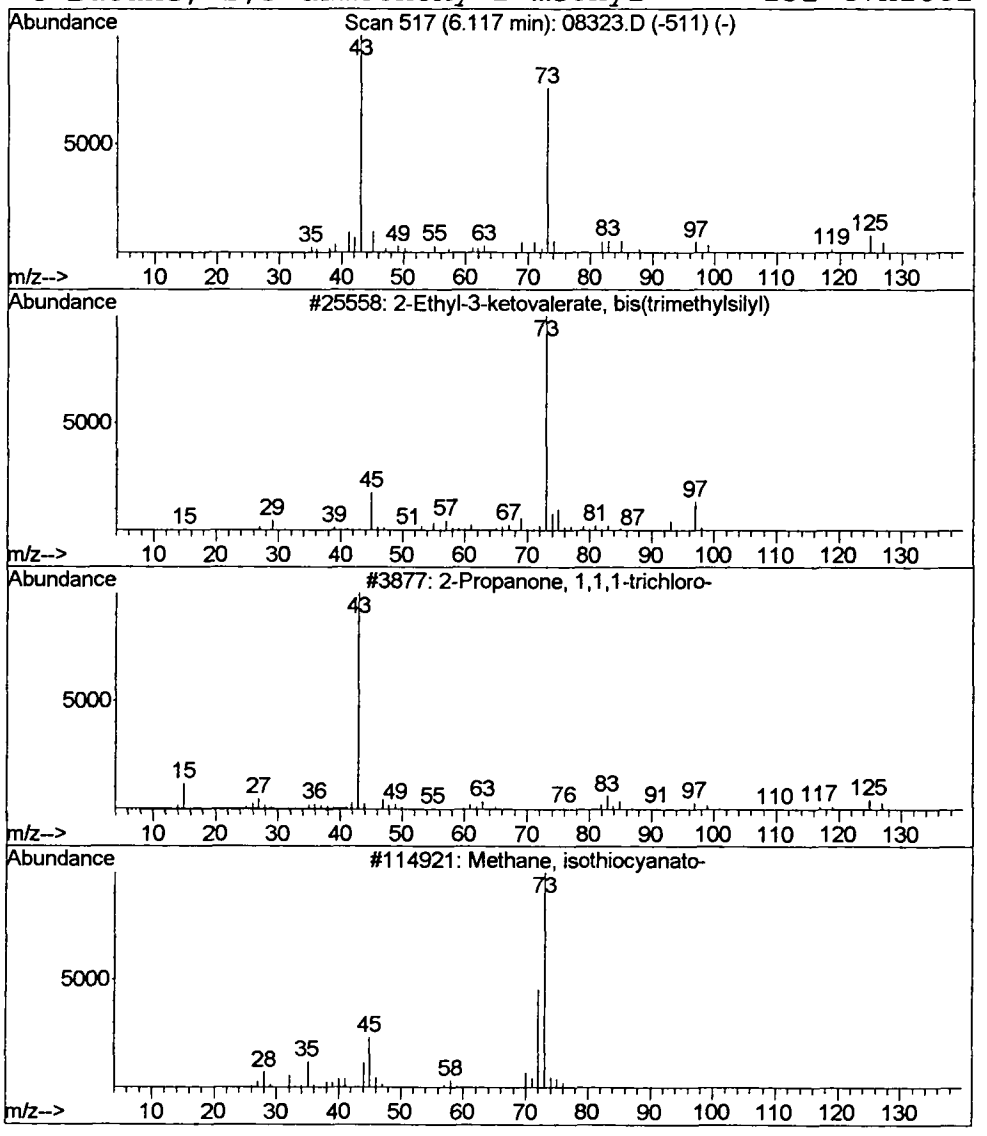
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

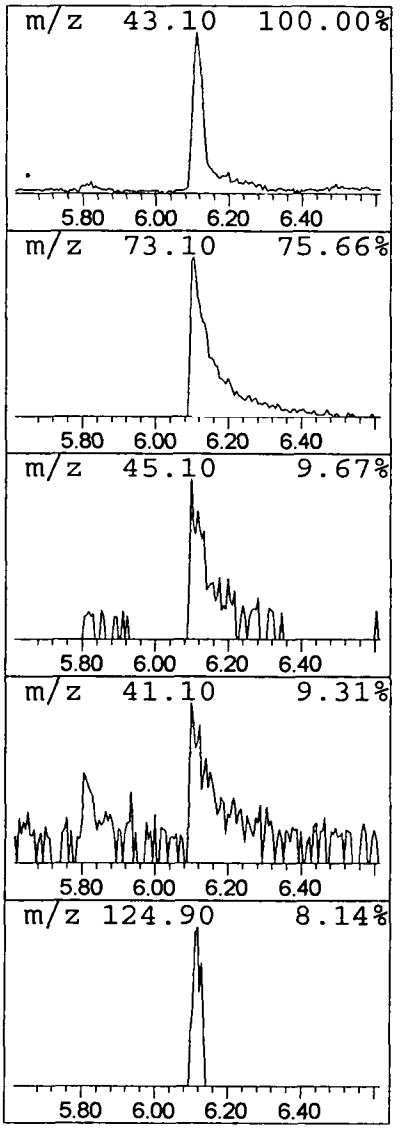
****

Peak Number 4 2-Ethyl-3-ketovalerate, bis... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.11	0.54 ug/l	720921	1,4-Dichlorobenzene-d4	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Ethyl-3-ketovalerate, bis(trim...	288	C13H28O3Si2	1000079-66-1	32
2	2-Propanone, 1,1,1-trichloro-	160	C3H3Cl3O	000918-00-3	25
3	Methane, isothiocyanato-	73	C2H3NS	000556-61-6	17
4	Butane, 2,3-dimethoxy-2-methyl-	132	C7H16O2	074421-00-4	17





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

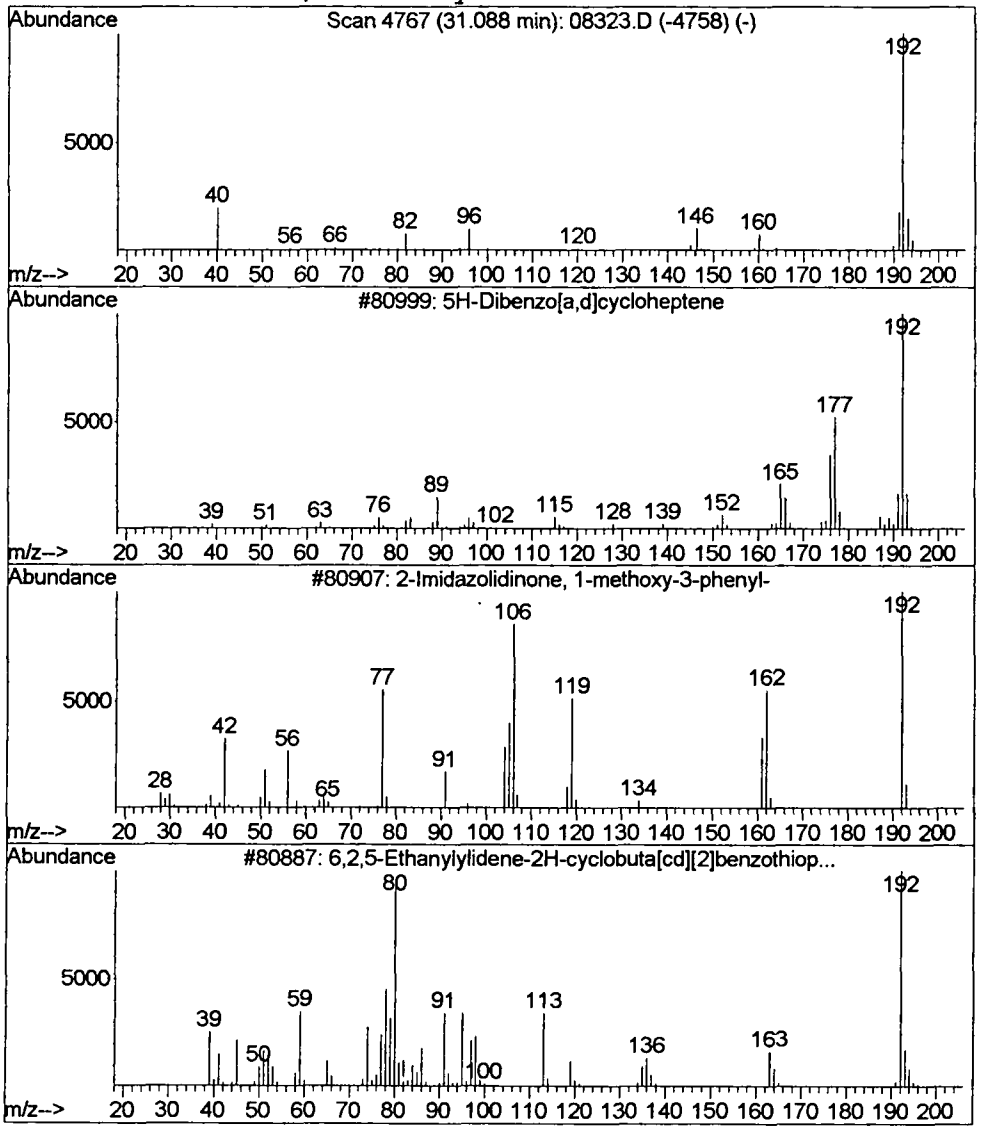
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

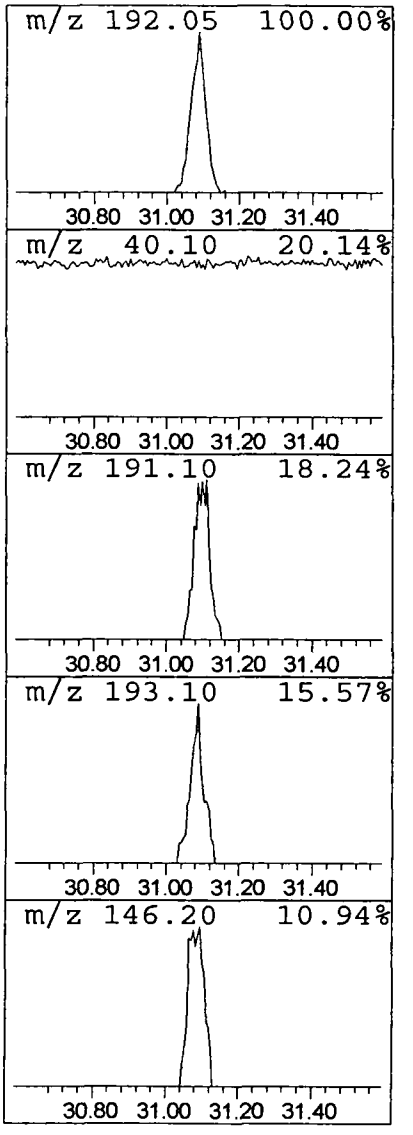
****

Peak Number 5 5H-Dibenzo[a,d]cycloheptene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.09	0.28 ug/l	592748	Phenanthrene-d10	31.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	50
2	2-Imidazolidinone, 1-methoxy-3-p...	192	C10H12N2O2	052420-43-6	40
3	6,2,5-Ethanylylidene-2H-cyclobut...	192	C11H12OS	019086-86-3	40
4	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	38





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

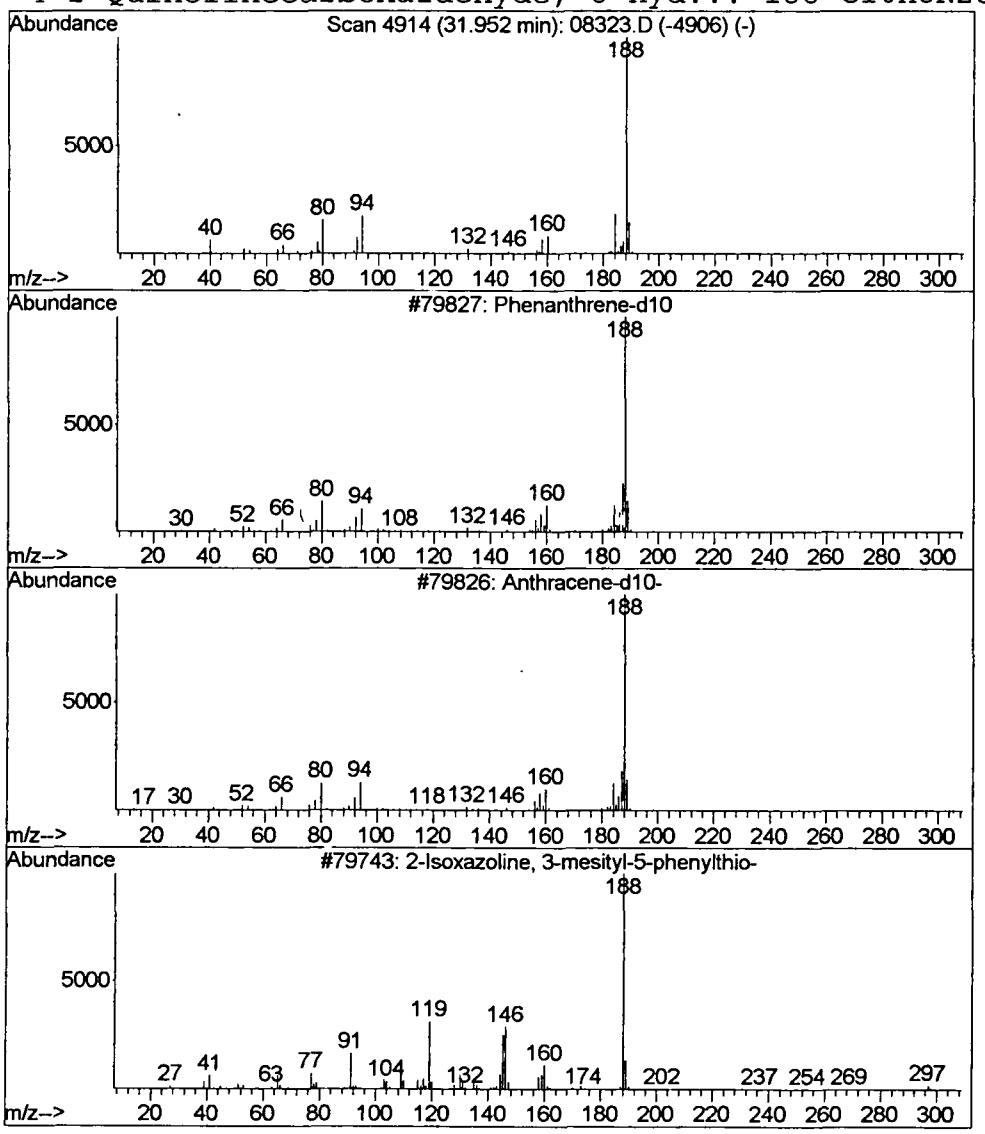
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

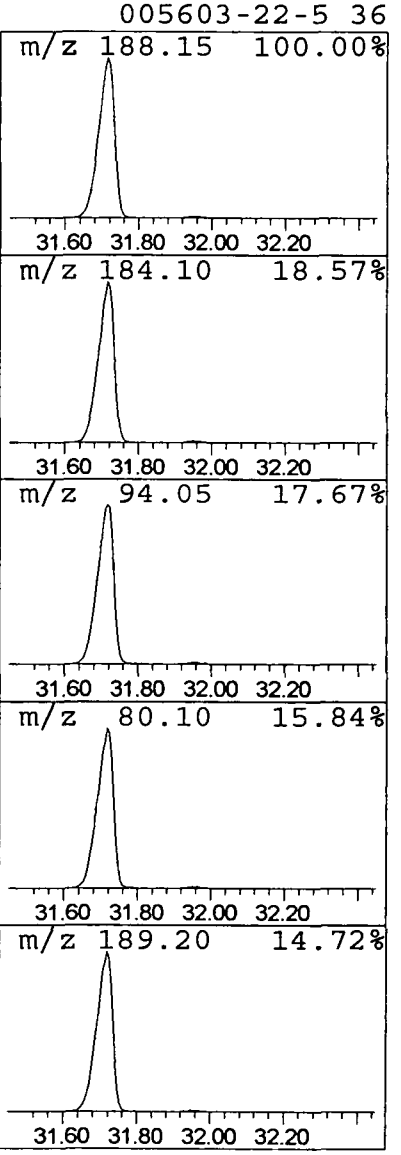
****

Peak Number 6 Phenanthrene-d10 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.95	0.35 ug/l	736473	Phenanthrene-d10	31.72

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	78
3	2-Isoxazoline, 3-mesityl-5-pheny...	297	C18H19NOS	1000164-78-1	36
4	2-Quinolinecarboxaldehyde, 8-hyd...	188	C10H8N2O2	005603-22-5	36





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

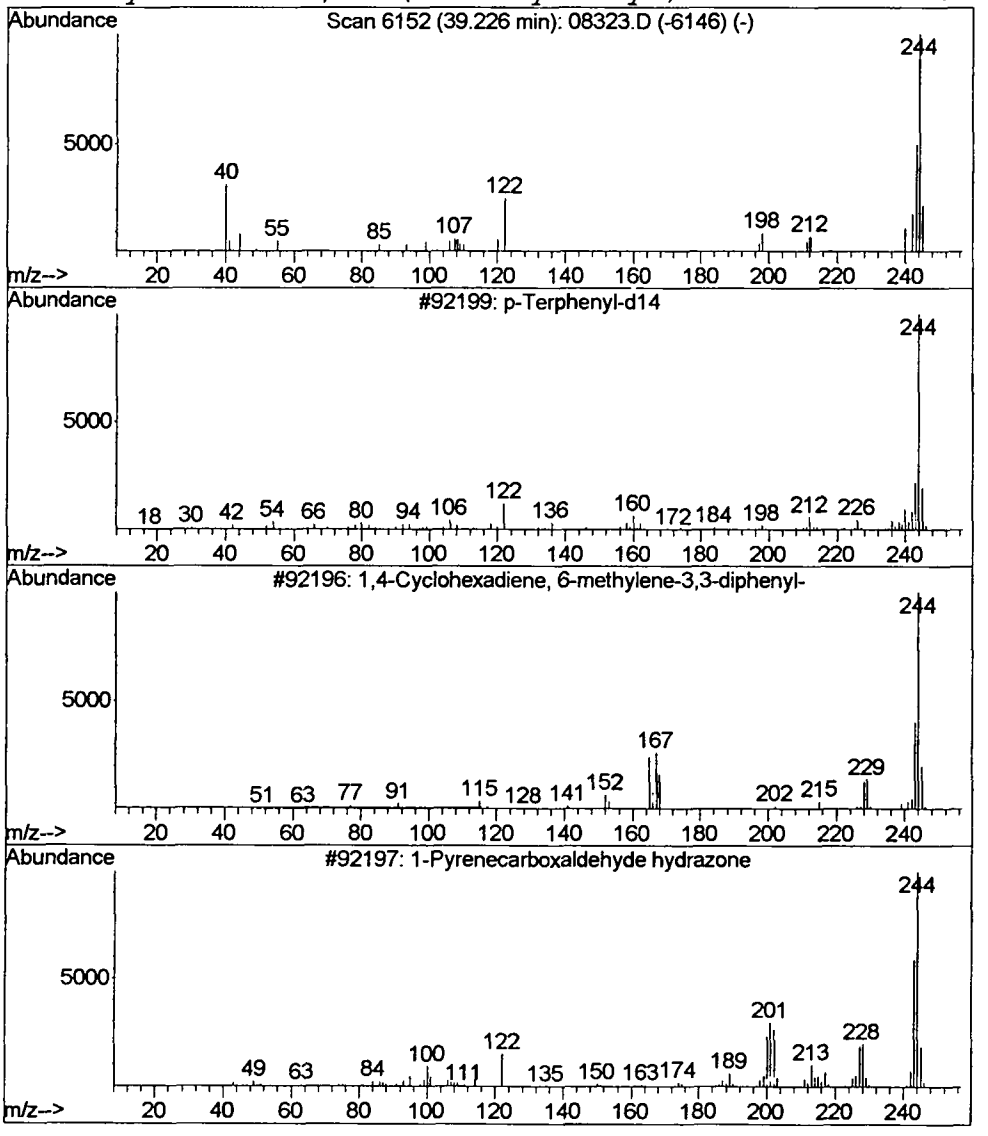
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

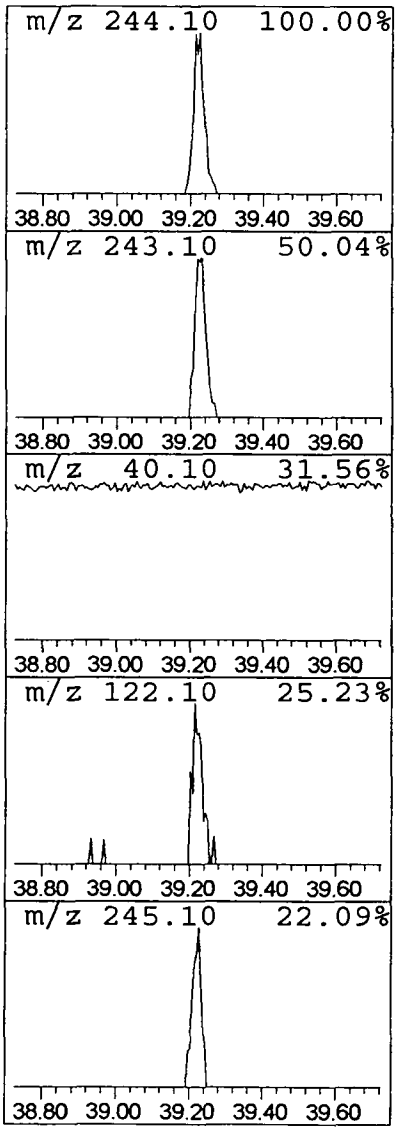
****

Peak Number 7 p-Terphenyl-d14 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
39.23	0.20 ug/l	402682	Chrysene-d12	39.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Terphenyl-d14	244	C18D14	001718-51-0	59
2	1,4-Cyclohexadiene, 6-methylene-...	244	C19H16	018636-59-4	42
3	1-Pyrenecarboxaldehyde hydrazone	244	C17H12N2	076465-53-7	42
4	4-Pyrimidinol, 2-(1-methylethyl)...	244	C14H16N2O2	1000197-09-0	40





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020419\08323.D Vial: 10
Acq On : 19 Apr 2002 4:59 pm Operator: Nefliu
Sample : sample Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: rteint.e

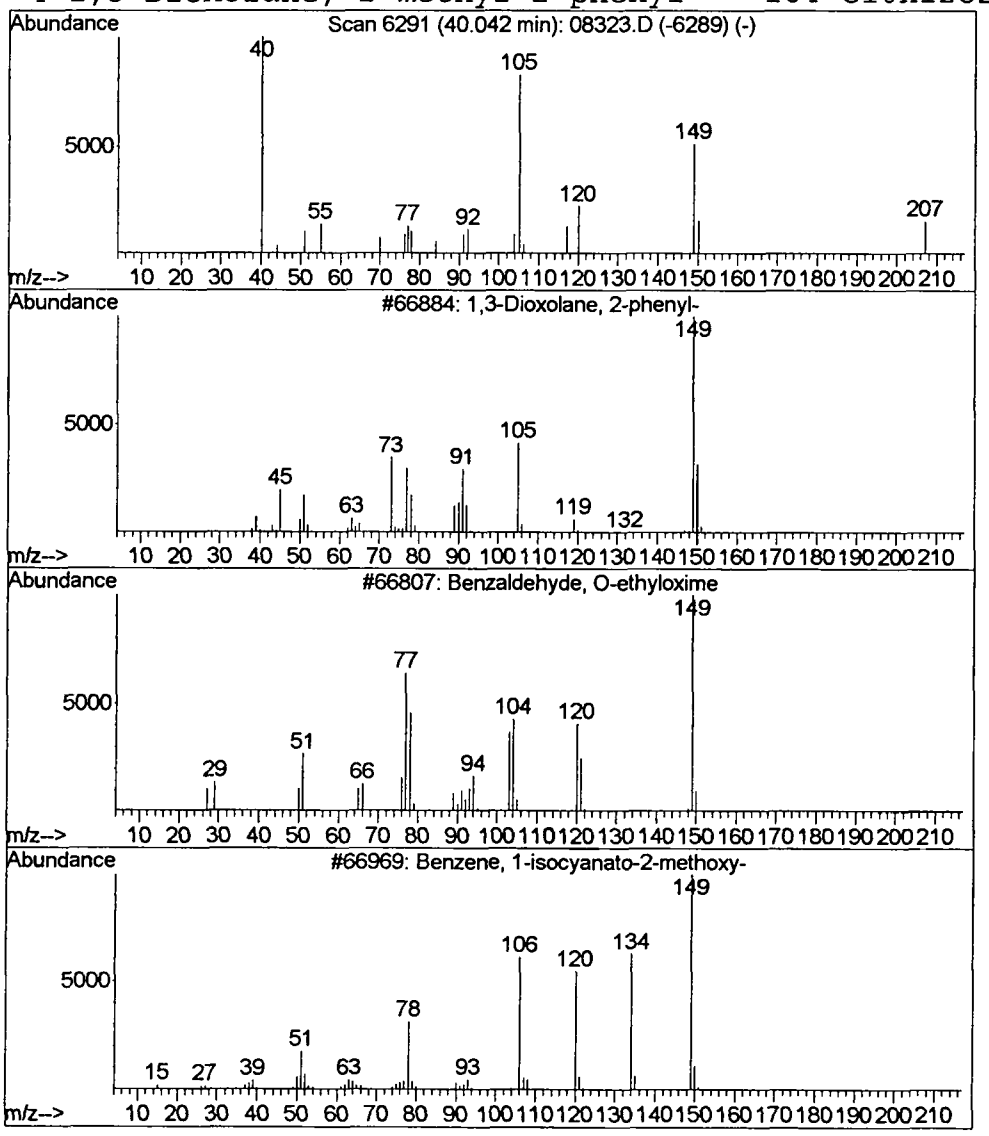
Quant Method : C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.l

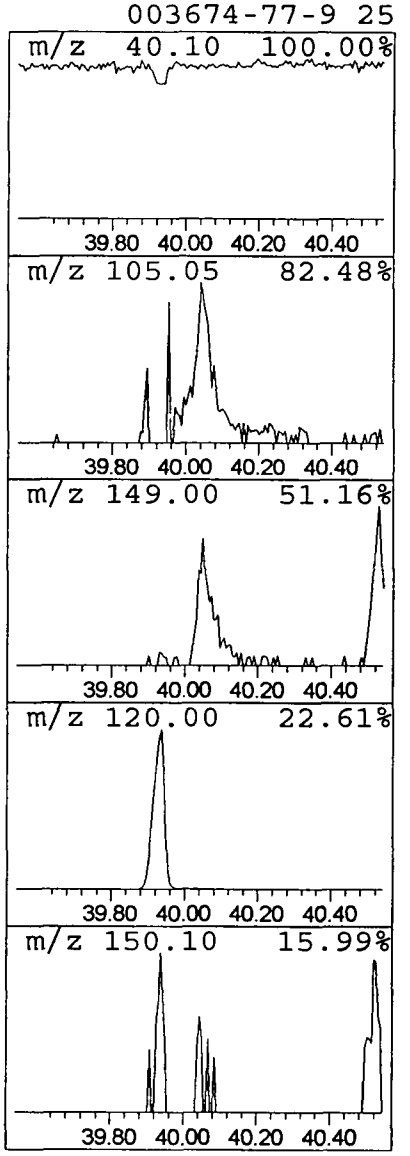
****

Peak Number 8 1,3-Dioxolane, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
40.04	0.26 ug/l	514833	Chrysene-d12	39.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2-phenyl-	150	C9H10O2	000936-51-6	38
2	Benzaldehyde, O-ethyloxime	149	C9H11NO	013858-87-2	35
3	Benzene, 1-isocyanato-2-methoxy-	149	C8H7NO2	000700-87-8	25
4	1,3-Dioxolane, 2-methyl-2-phenyl-	164	C10H12O2	003674-77-9	25





Tentatively Identified Compound (LSC) summary

Operator ID: Nefliu Date Acquired: 19 Apr 2002 4:59 pm
Data File: C:\MSDCHEM\1\DATA\020419\08323.D
Name: sample
Misc:
Method: C:\MSDCHEM\1\METHODS\SCAN020418.M (Chemstation Integrator)
Title: Method 508 GC/MS Scan
Library Searched: C:\DATABASE\nist98.l

	TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
✓	Heptane	3.13	0.3	ug/l	402832	1	11.38	53813500	40.0
✓	Methane, bromodic...	3.33	0.2	ug/l	332843	1	11.38	53813500	40.0
✓	Acetonitrile, dic...	3.63	0.2	ug/l	332647	1	11.38	53813500	40.0
	2-Ethyl-3-ketoval...	6.11	0.5	ug/l	720921	1	11.38	53813500	40.0
	5H-Dibenzo[a,d]cy...	31.09	0.3	ug/l	592748	4	31.72	84677200	40.0
✓	Phenanthrene-d10	31.95	0.3	ug/l	736473	4	31.72	84677200	40.0
	p-Terphenyl-d14	39.23	0.2	ug/l	402682	5	39.94	78691900	40.0
	1,3-Dioxolane, 2-...	40.04	0.3	ug/l	514833	5	39.94	78691900	40.0