User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 06/10/2002 Time: 15:22:38

Sample: AE12736
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 6/10/02 15:22 Ended: 6/10/02 15:22 Analyst: DLV
Page: 1

| | Component Name | Vial | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | Other unknown compounds | | . | | |
| 2 | Surr_2,4-DDD | | 75 | | 10.0 |

**Comments for Sample AE12736 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 06-10-2002 Time: 15:23:02

The GCMS scan, 35 to 550 amu, does not reveal the presence of unusual compounds.
The recovery for 1 of the 43 compounds in the LCS Standard was low.

Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Jun 10 11:18:23 2002 Quant Results File: 060302.RES

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu Jun 06 15:03:45 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-dichlorobenzene-d4 | 9.89 | 152 | 4718885 | 40.00 | ug/L | 0.00 |
| 10) Napthalene-d8 | 13.39 | 136 | 18797239 | 40.00 | ug/L | 0.00 |
| 17) Acenapthalene-d10 | 18.52 | 164 | 10407635 | 40.00 | ug/L | 0.00 |
| 29) Phenanthranene-d10 | 22.91 | 188 | 16001682 | 40.00 | ug/L | 0.00 |
| 37) Chrysene-d12 | 30.75 | 240 | 8743603 | 40.00 | ug/L | 0.00 |
| 43) Perylene-d12 | 34.65 | 264 | 4052600 | 40.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 27) TCMX | 20.50 | 209 | 2242656 | 30.03 | ug/L | 0.00 |
| Spiked Amount 40.000 | | | Recovery = 75.08% | | | |
| **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 | 20.50 | 77 | 36446 | N.D. | | |
| 30) Nnitrosodiphenylamine | 20.50 | 169 | 41401 | 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 | 25.04 | 149 | 89848 | Below Cal | | 97 |

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Jun 10 11:18:23 2002 Quant Results File: 060302.RES

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu Jun 06 15:03:45 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

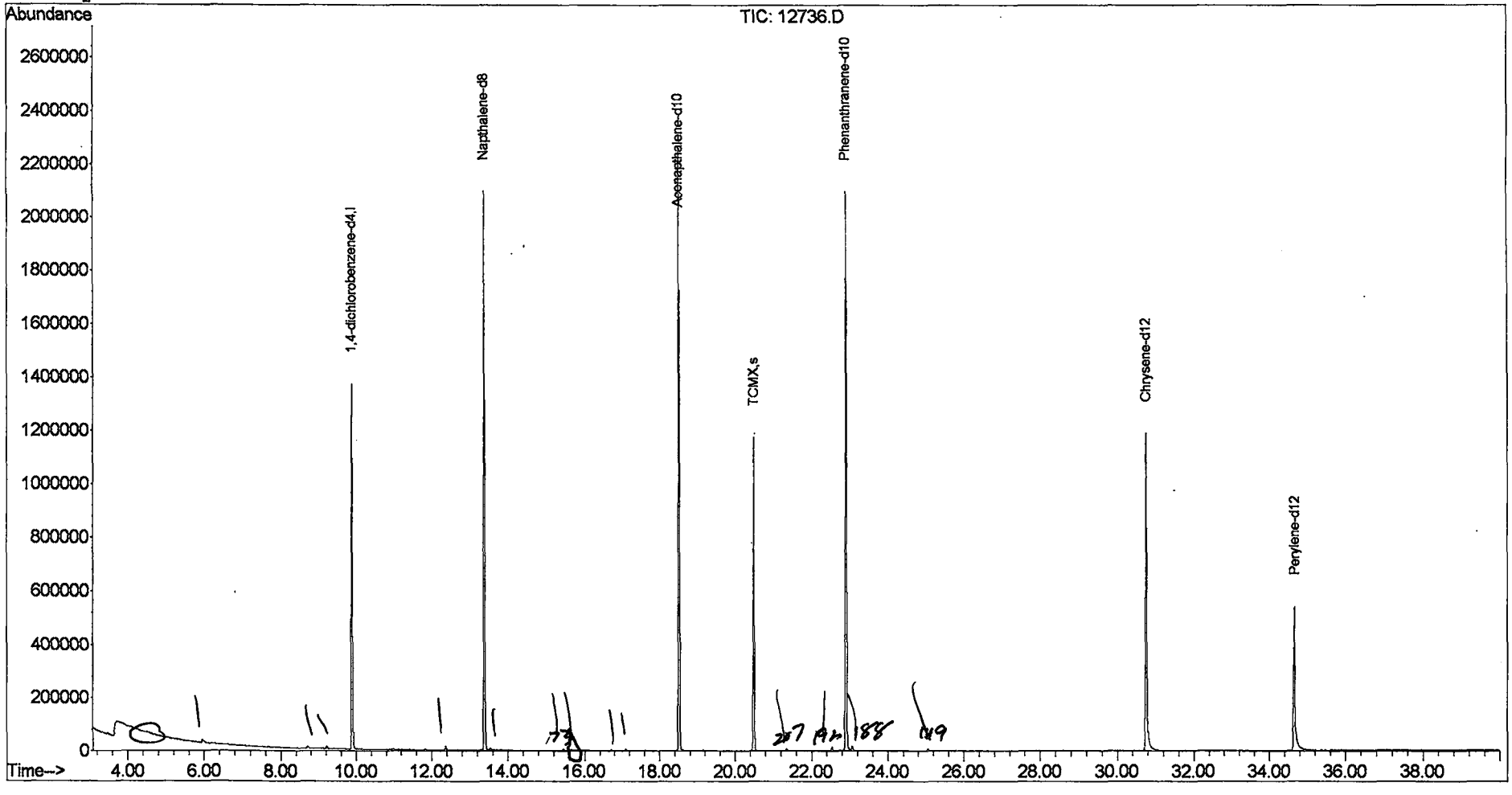
| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 36) Fluoroanthene | 0.00 | 202 | 0 | N.D. | |
| 38) Pyrene | 0.00 | 202 | 0 | N.D. | |
| 39) Butylbenzylphthalate | 0.00 | 149 | 0 | N.D. | |
| 40) Benzo(a)anthracene | 0.00 | 228 | 0 | N.D. | |
| 41) Bis(2-ethylhexyl)phthalate | 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\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Jun 10 11:18 2002 Quant Results File: 060302.RES

Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Thu Jun 06 15:03:45 2002
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan

Signal : TIC

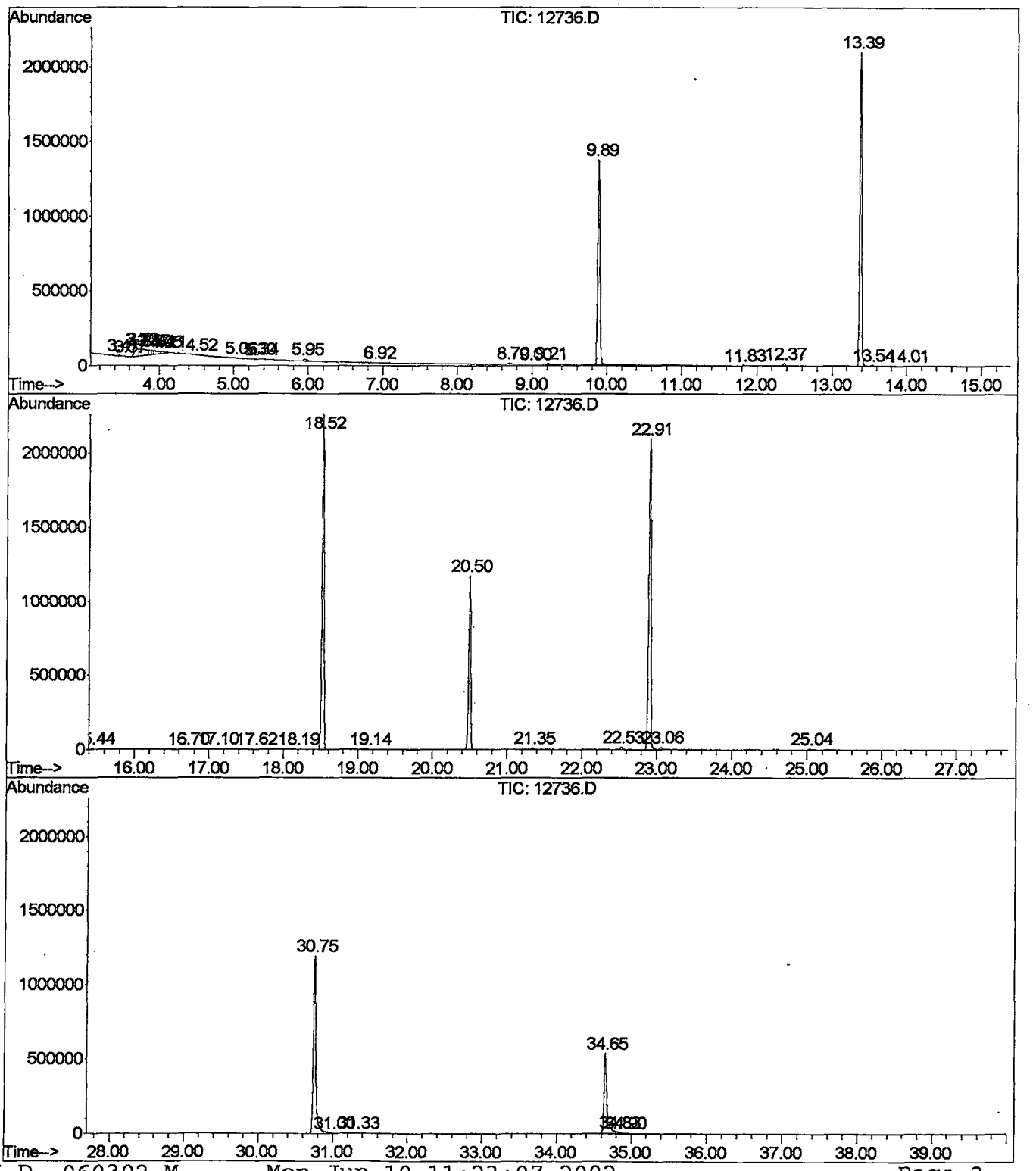
| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.467 | 61 | 66 | 76 | PV 6 | 6256 | 167110 | 0.39% | 0.074% |
| 2 | 3.567 | 81 | 83 | 88 | PV 6 | 2203 | 20474 | 0.05% | 0.009% |
| 3 | 3.714 | 93 | 108 | 110 | PV 2 | 48901 | 1711576 | 3.97% | 0.757% |
| 4 | 3.737 | 110 | 112 | 133 | VV 5 | 47264 | 3252162 | 7.54% | 1.438% |
| 5 | 3.872 | 133 | 135 | 139 | VV 3 | 32071 | 660198 | 1.53% | 0.292% |
| 6 | 3.908 | 139 | 141 | 145 | VV 3 | 28966 | 525955 | 1.22% | 0.233% |
| 7 | 3.937 | 145 | 146 | 161 | VV 4 | 24521 | 1085602 | 2.52% | 0.480% |
| 8 | 4.043 | 161 | 164 | 172 | VV 5 | 12101 | 355089 | 0.82% | 0.157% |
| 9 | 4.107 | 172 | 175 | 180 | VV 5 | 6650 | 150407 | 0.35% | 0.067% |
| 10 | 4.519 | 240 | 245 | 252 | VV 6 | 3948 | 77230 | 0.18% | 0.034% |
| 11 | 5.059 | 332 | 337 | 341 | PV 6 | 2517 | 50480 | 0.12% | 0.022% |
| 12 | 5.300 | 376 | 378 | 380 | PV 3 | 2360 | 21884 | 0.05% | 0.010% |
| 13 | 5.341 | 383 | 385 | 386 | VV 2 | 2655 | 21623 | 0.05% | 0.010% |
| 14 | 5.952 | 482 | 489 | 510 | PV 2 | 13023 | 410470 | 0.95% | 0.182% |
| 15 | 6.916 | 648 | 653 | 655 | PV 5 | 1651 | 15773 | 0.04% | 0.007% |
| 16 | 8.702 | 951 | 957 | 969 | PV 4 | 7331 | 201477 | 0.47% | 0.089% |
| 17 | 9.002 | 1001 | 1008 | 1015 | VV 5 | 2358 | 70666 | 0.16% | 0.031% |
| 18 | 9.213 | 1039 | 1044 | 1053 | VV 2 | 9348 | 173761 | 0.40% | 0.077% |
| 19 | 9.895 | 1149 | 1160 | 1188 | PV | 1366852 | 27985651 | 64.92% | 12.378% |
| 20 | 11.828 | 1475 | 1489 | 1500 | PV 7 | 2729 | 58277 | 0.14% | 0.026% |
| 21 | 12.368 | 1573 | 1581 | 1587 | VV | 15891 | 254563 | 0.59% | 0.113% |
| 22 | 13.391 | 1738 | 1755 | 1773 | PV | 2065776 | 37927460 | 87.98% | 16.775% |
| 23 | 13.544 | 1773 | 1781 | 1789 | VV | 5822 | 112576 | 0.26% | 0.050% |
| 24 | 14.014 | 1855 | 1861 | 1866 | VV 5 | 1915 | 39588 | 0.09% | 0.018% |
| 25 | 15.441 | 2089 | 2104 | 2111 | VV 2 | 6372 | 104298 | 0.24% | 0.046% |
| 26 | 16.705 | 2310 | 2319 | 2324 | PV 3 | 2992 | 55372 | 0.13% | 0.024% |
| 27 | 17.104 | 2377 | 2387 | 2392 | PV 5 | 6140 | 101541 | 0.24% | 0.045% |
| 28 | 17.615 | 2455 | 2474 | 2479 | BV 5 | 2470 | 40472 | 0.09% | 0.018% |
| 29 | 18.191 | 2567 | 2572 | 2577 | PV 5 | 1652 | 26309 | 0.06% | 0.012% |
| 30 | 18.526 | 2615 | 2629 | 2641 | BV | 2233085 | 42574821 | 98.76% | 18.830% |
| 31 | 19.143 | 2728 | 2734 | 2740 | VV 3 | 3092 | 51703 | 0.12% | 0.023% |
| 32 | 20.500 | 2945 | 2965 | 2983 | VV | 1160857 | 22049591 | 51.15% | 9.752% |
| 33 | 21.352 | 3102 | 3110 | 3119 | VV 4 | 9348 | 146831 | 0.34% | 0.065% |
| 34 | 22.533 | 3294 | 3311 | 3321 | VV 2 | 15118 | 288475 | 0.67% | 0.128% |
| 35 | 22.909 | 3360 | 3375 | 3395 | BV 2 | 2080702 | 43108389 | 100.00% | 19.066% |
| 36 | 23.062 | 3395 | 3401 | 3411 | VV 2 | 16110 | 331690 | 0.77% | 0.147% |
| 37 | 25.042 | 3731 | 3738 | 3753 | PV | 7490 | 155093 | 0.36% | 0.069% |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 38 | 30.753 | 4699 | 4710 | 4751 | PV | 2 | 1194961 | 27094488 | 62.85% | 11.984% |
| 39 | 31.006 | 4751 | 4753 | 4763 | VV | 5 | 3506 | 107836 | 0.25% | 0.048% |
| 40 | 31.329 | 4804 | 4808 | 4817 | VV | 4 | 2560 | 46340 | 0.11% | 0.020% |
| 41 | 34.649 | 5360 | 5373 | 5403 | PV | | 537663 | 14307567 | 33.19% | 6.328% |
| 42 | 34.831 | 5403 | 5404 | 5415 | VV | 6 | 6788 | 148015 | 0.34% | 0.065% |
| 43 | 34.907 | 5415 | 5417 | 5418 | VV | 2 | 1038 | 6998 | 0.02% | 0.003% |

Sum of corrected areas: 226095881

# LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\060702\12736.D
Operator :
Acquired : 7 Jun 2002 5:32 pm using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name:
Misc Info :
Vial Number: 12
Quant File :060302.RES (Chemstation Integrator)



Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

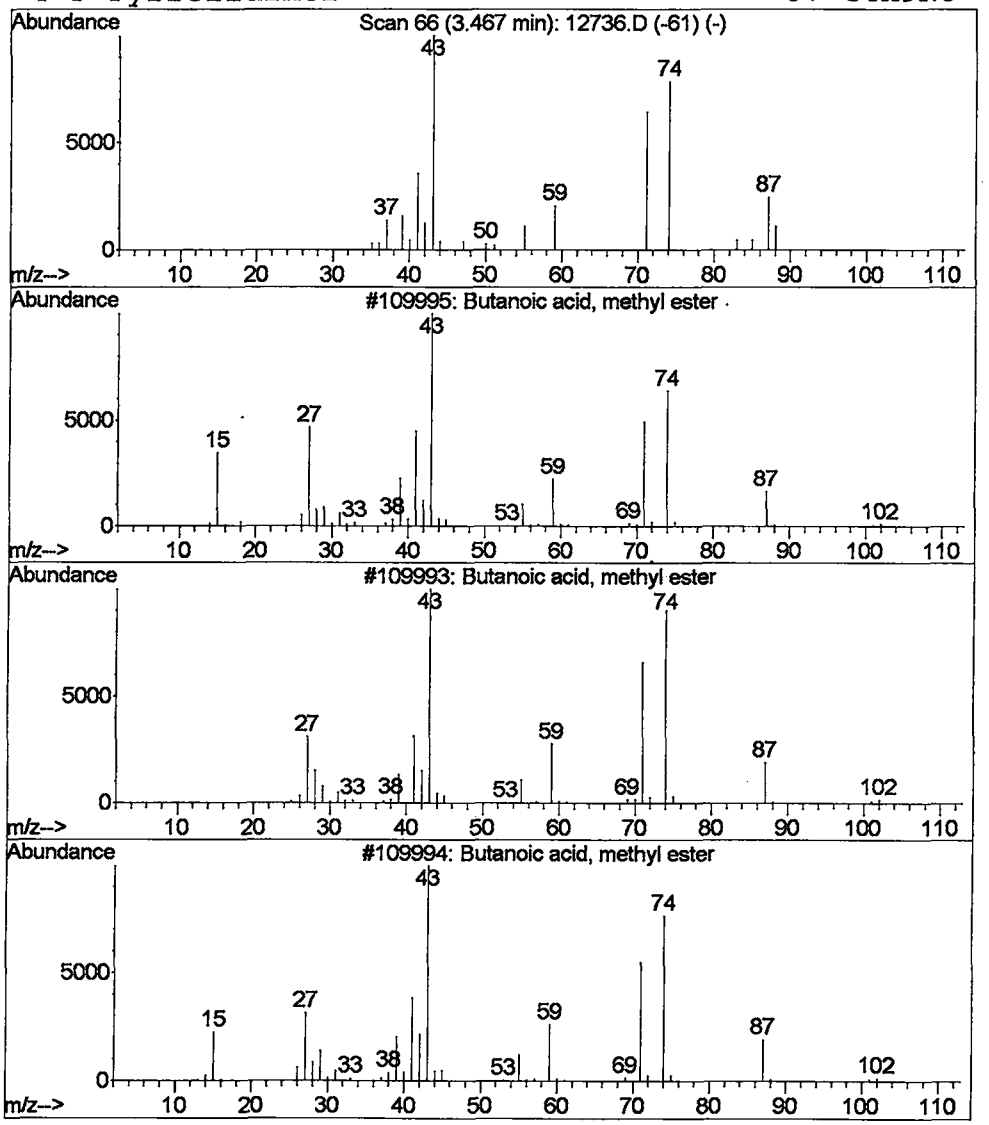
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

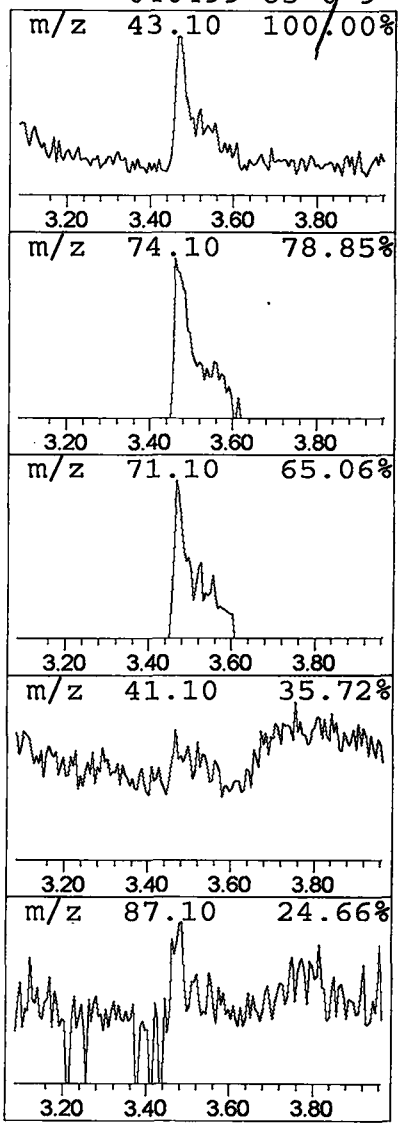
**********

Peak Number 1 Butanoic acid, methyl ester Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.47 | 0.24 ug/L | 167110 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, methyl ester | 102 | C5H10O2 | 000623-42-7 | 53 |
| 2 | Butanoic acid, methyl ester | 102 | C5H10O2 | 000623-42-7 | 53 |
| 3 | Butanoic acid, methyl ester | 102 | C5H10O2 | 000623-42-7 | 33 |
| 4 | 3-Pyrrolidinol | 87 | C4H9NO | 040499-83-0 | 9 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

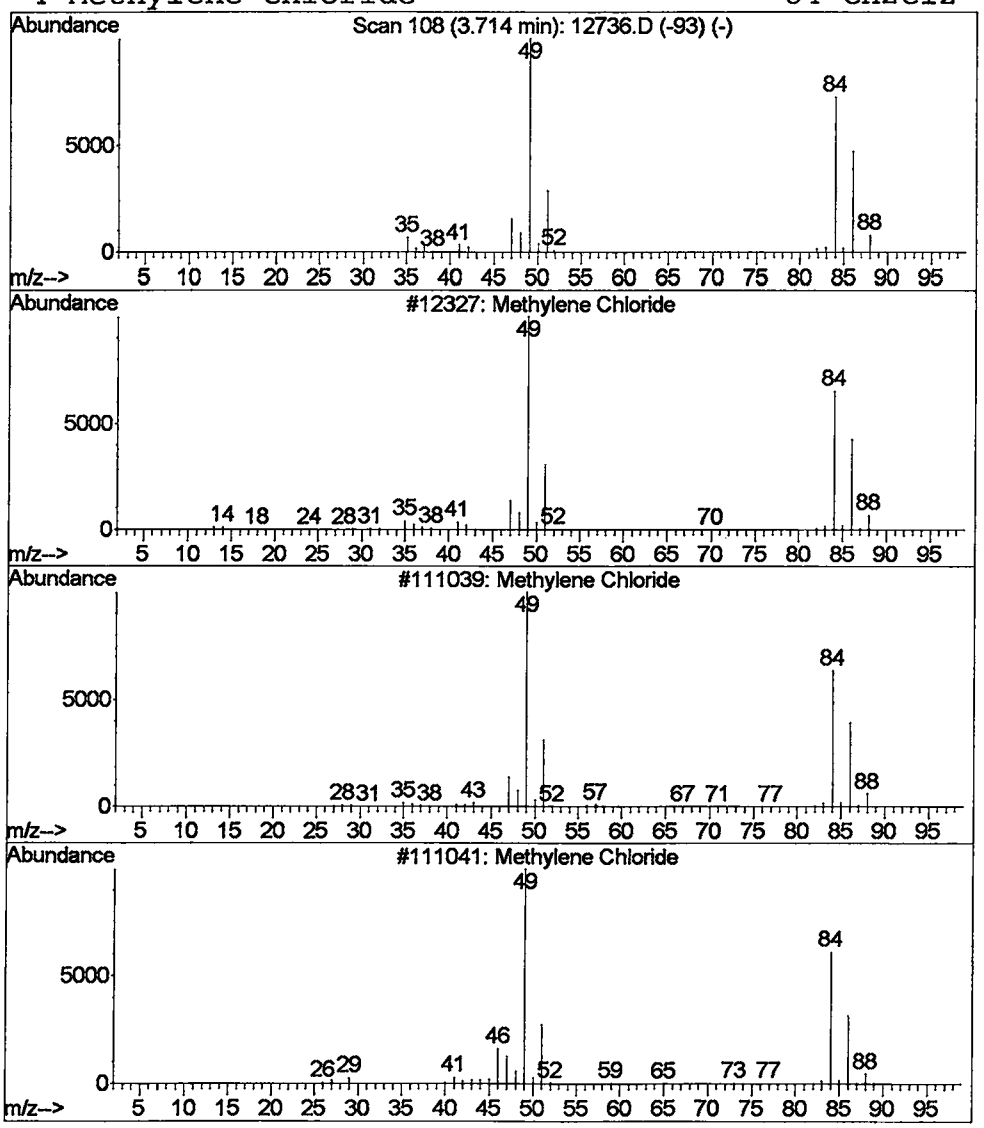
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

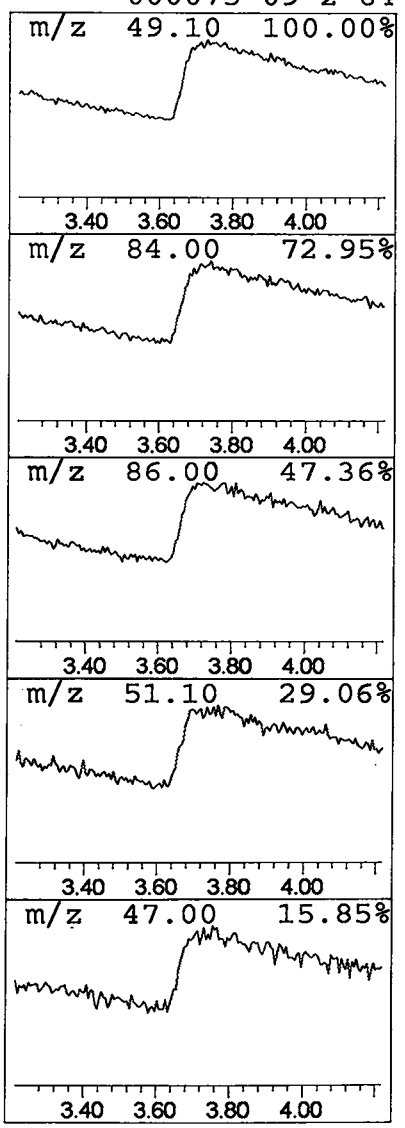
**********

Peak Number 2 Methylene Chloride  Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.72 | 2.45 ug/L | 1711580 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 97 |
| 2 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 94 |
| 3 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 94 |
| 4 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 64 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

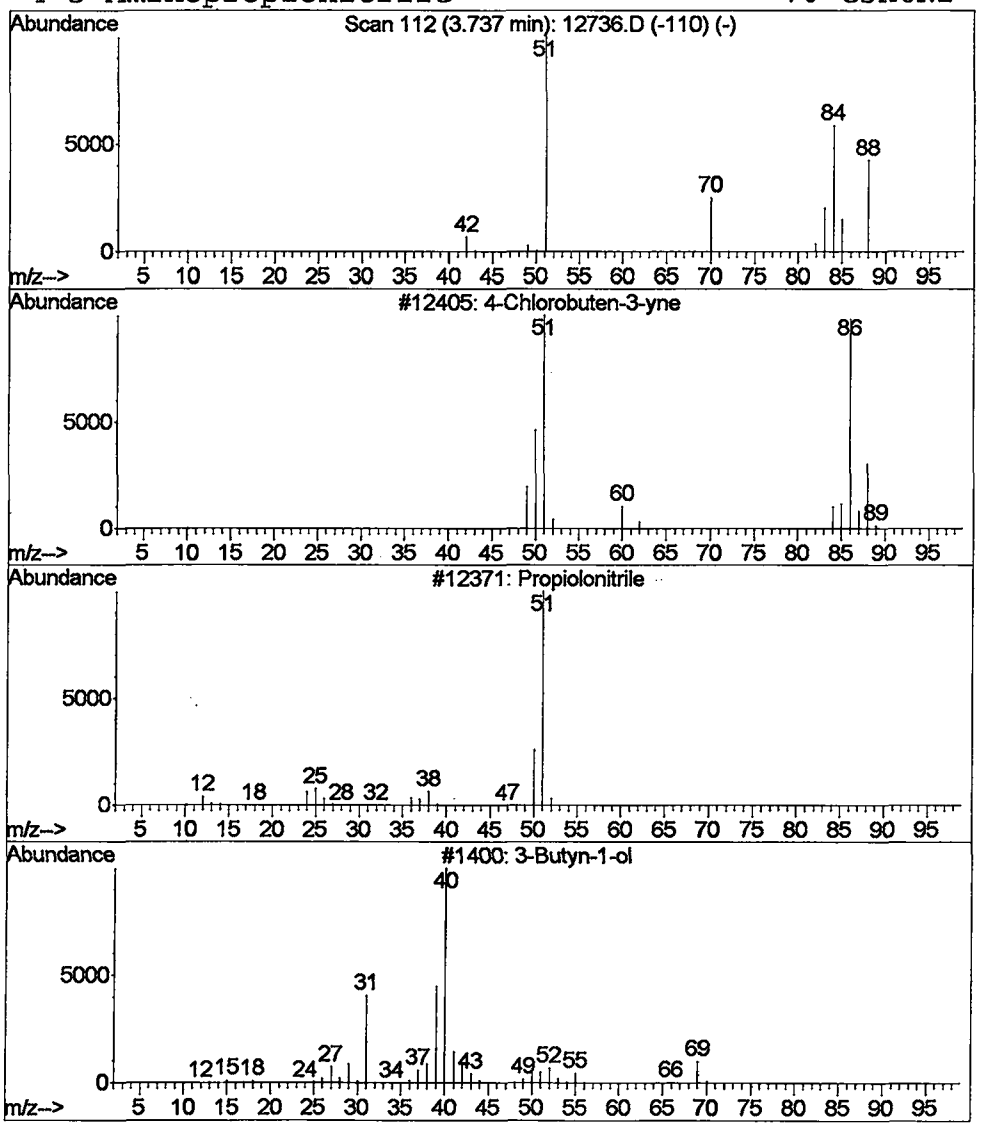
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

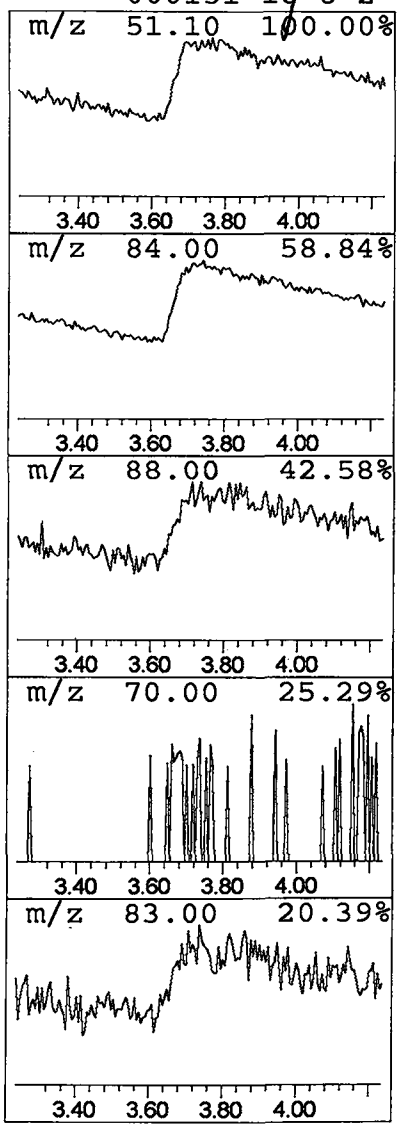
**********

Peak Number 3 4-Chlorobuten-3-yne  Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.73 | 4.65 ug/L | 3252160 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chlorobuten-3-yne | 86 | C4H3Cl | 040589-38-6 | 4 |
| 2 | Propiolonitrile | 51 | C3HN | 001070-71-9 | 3 |
| 3 | 3-Butyn-1-ol | 70 | C4H6O | 000927-74-2 | 2 |
| 4 | 3-Aminopropionitrile | 70 | C3H6N2 | 000151-18-8 | 2 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

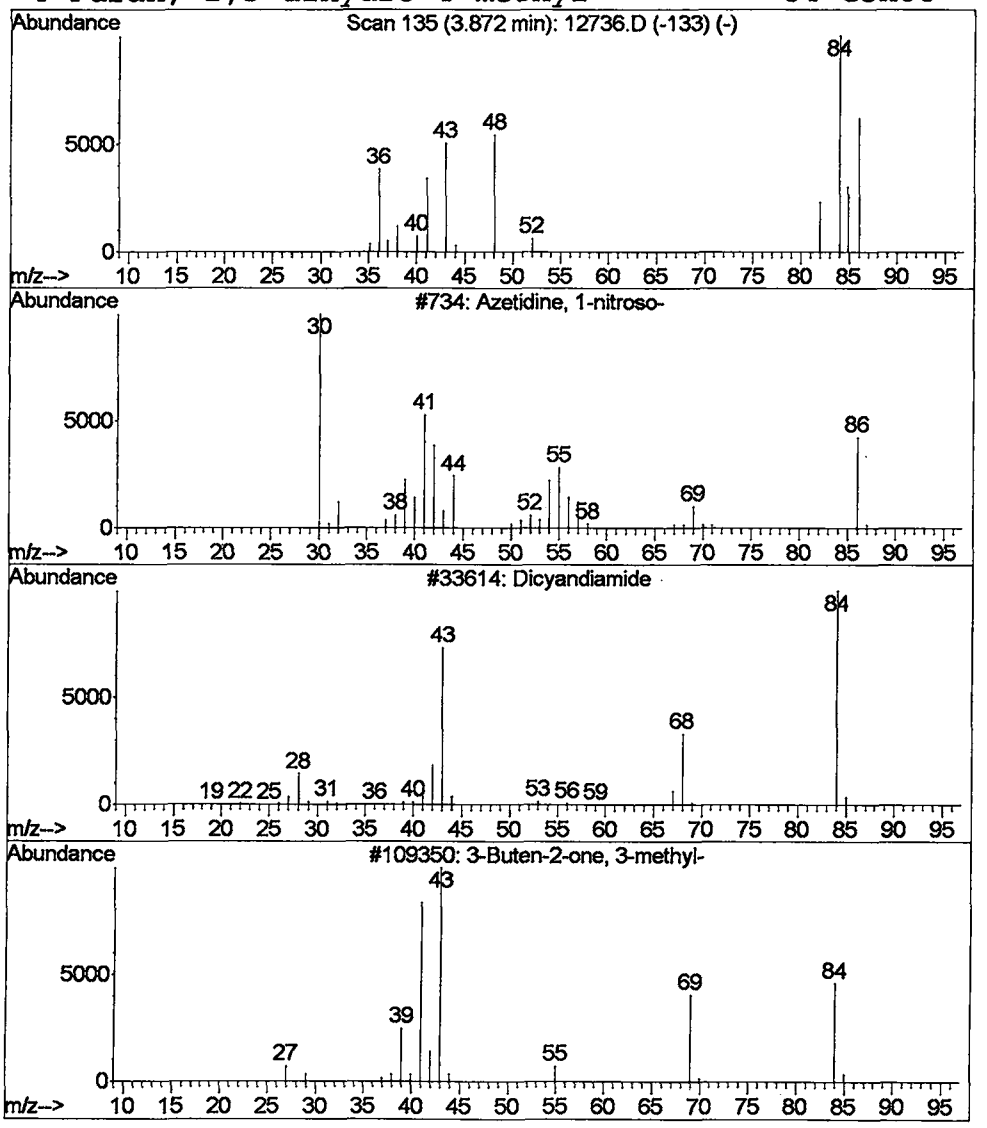
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

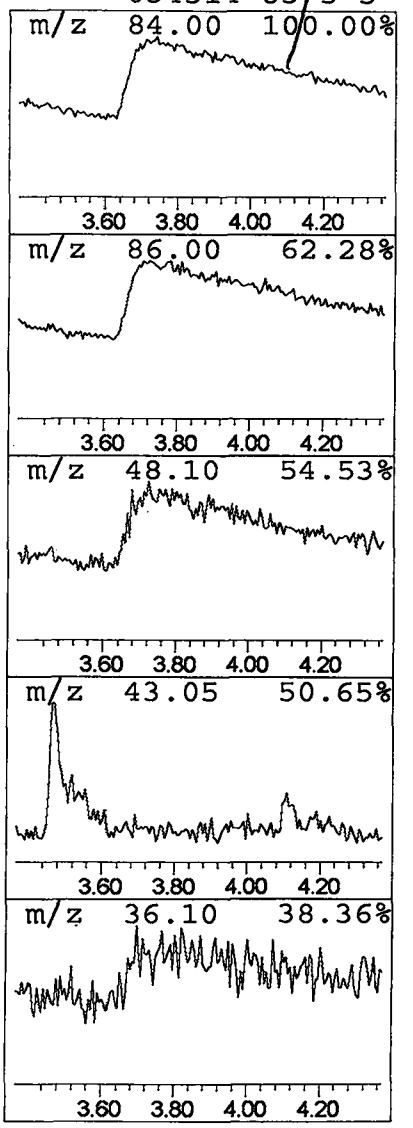
**********

Peak Number 4 Azetidine, 1-nitroso- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.87 | 0.94 ug/L | 660198 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Azetidine, 1-nitroso- | 86 | C3H6N2O | 015216-10-1 | 9 |
| 2 | Dicyandiamide | 84 | C2H4N4 | 000461-58-5 | 7 |
| 3 | 3-Buten-2-one, 3-methyl- | 84 | C5H8O | 000814-78-8 | 7 |
| 4 | Furan, 2,3-dihydro-4-methyl- | 84 | C5H8O | 034314-83-5 | 5 |



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

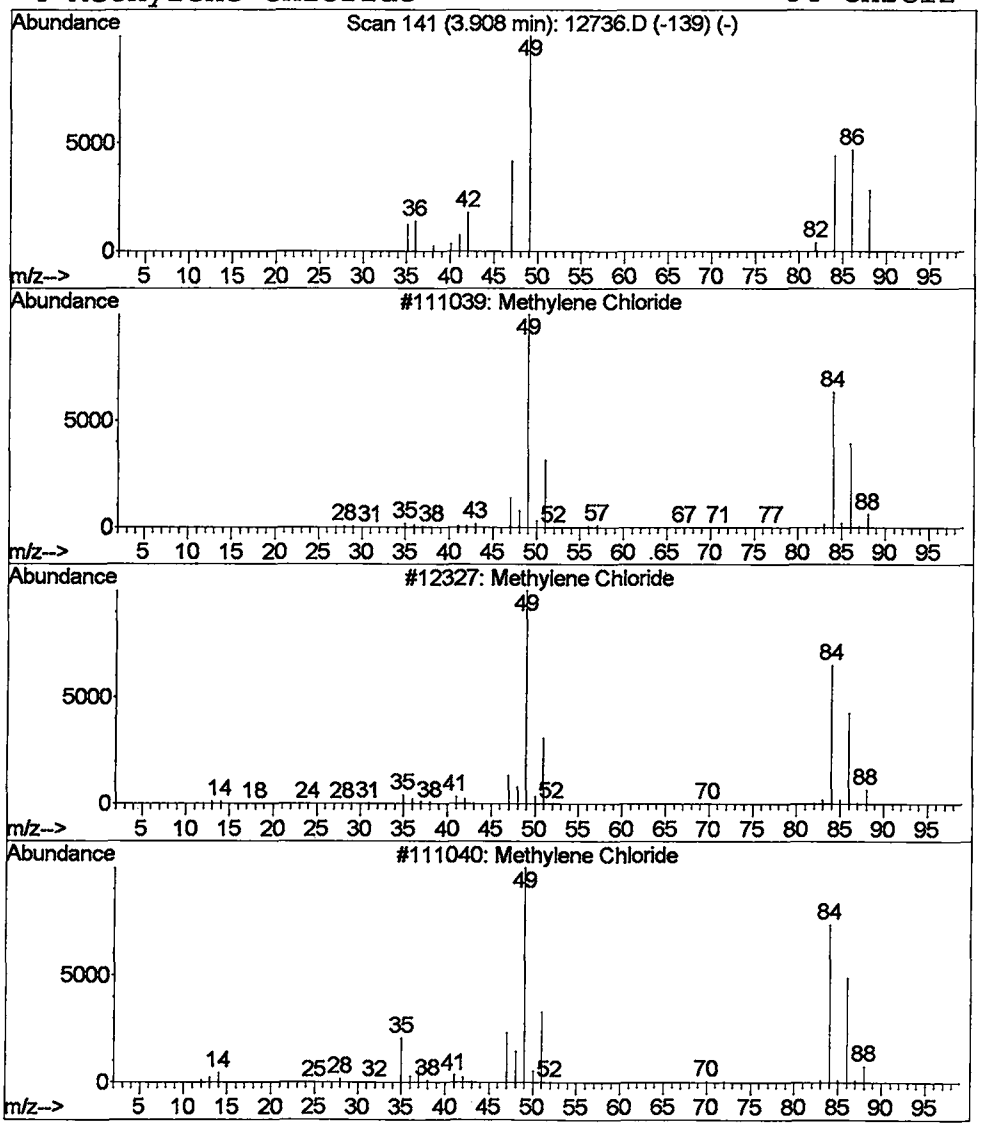
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

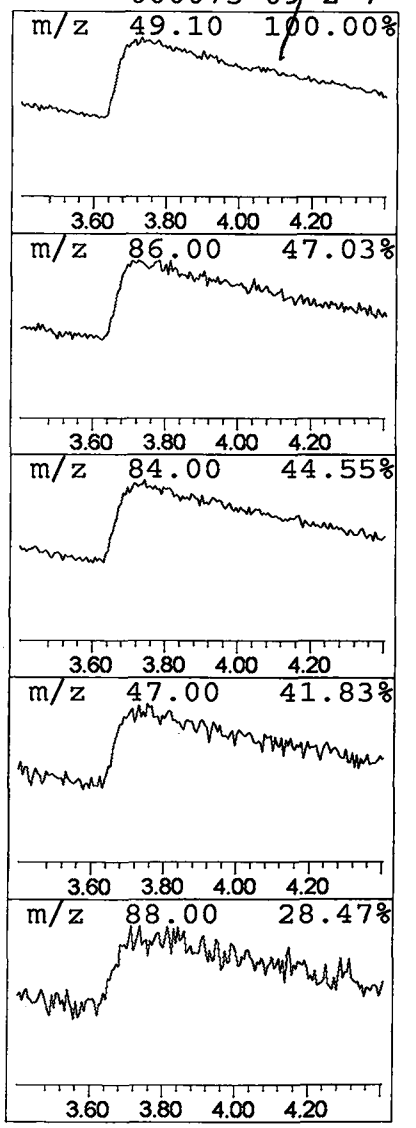
**********

Peak Number 5 Methylene Chloride Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.90 | 0.75 ug/L | 525955 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 7 |
| 2 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 7 |
| 3 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 7 |
| 4 | Methylene Chloride | 84 | CH2Cl2 | 000075-09-2 | 7 |



# Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

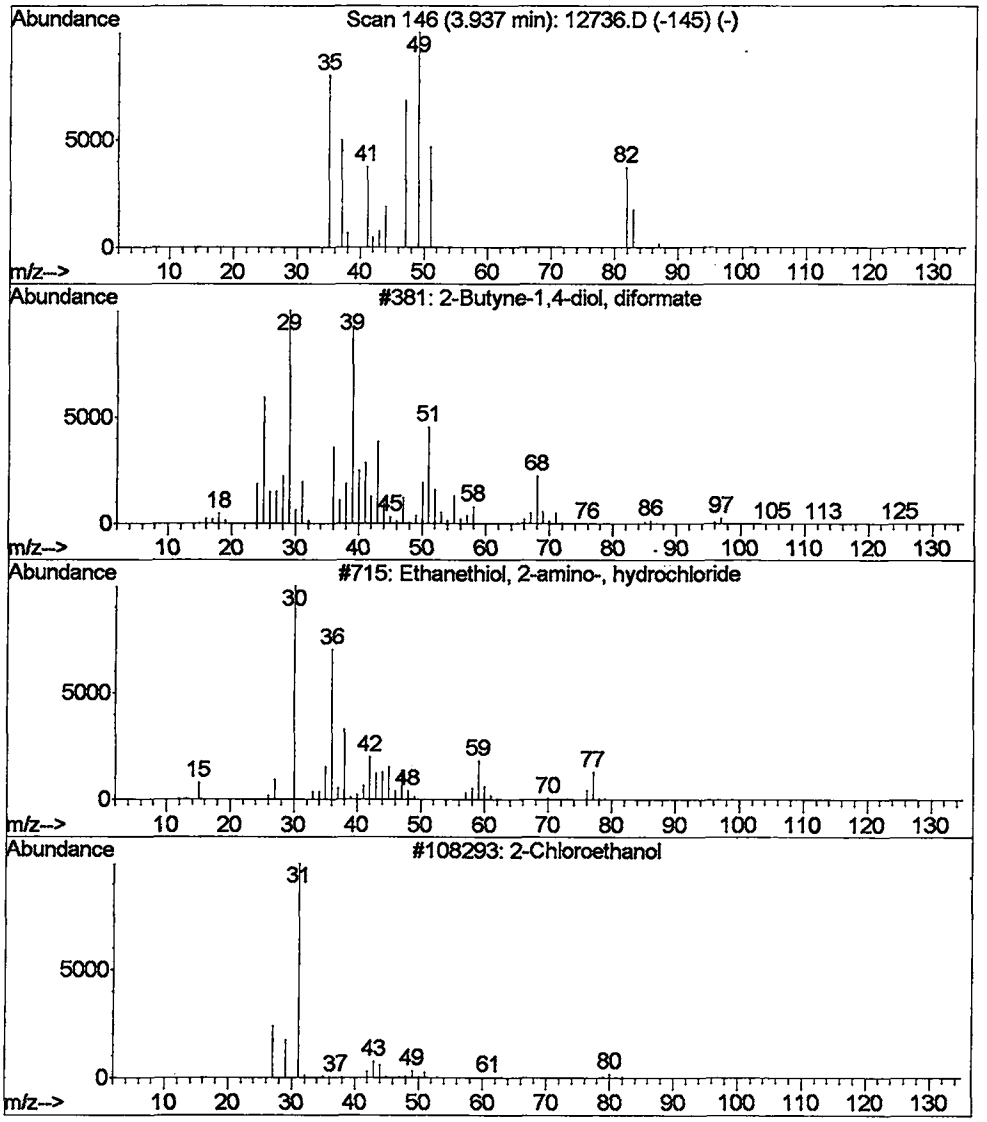
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

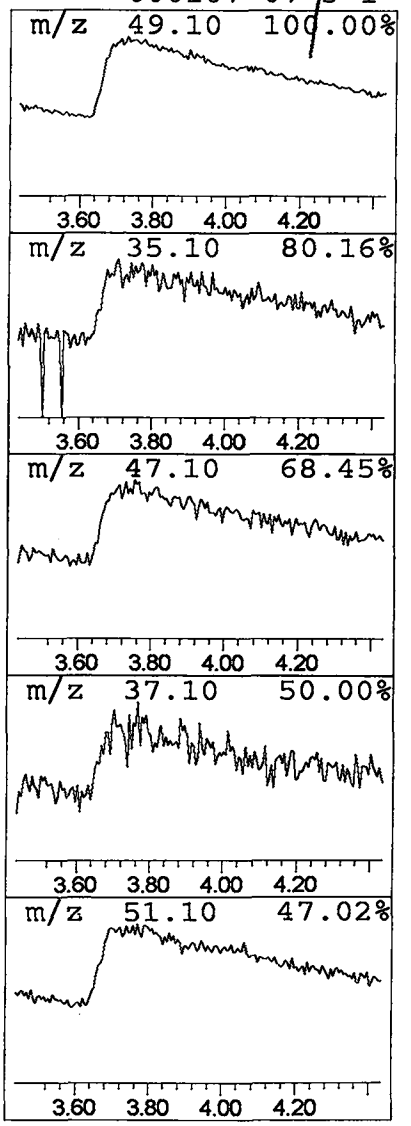
**********

Peak Number 6 2-Butyne-1,4-diol, diformate Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.94 | 1.55 ug/L | 1085600 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Butyne-1,4-diol, diformate | 142 | C6H6O4 | 036677-73-3 | 2 |
| 2 | Ethanethiol, 2-amino-, hydrochlo... | 113 | C2H8ClNS | 000156-57-0 | 2 |
| 3 | 2-Chloroethanol | 80 | C2H5ClO | 000107-07-3 | 1 |
| 4 | 2-Chloroethanol | 80 | C2H5ClO | 000107-07-3 | 1 |



# Library Search Compound Report

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Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

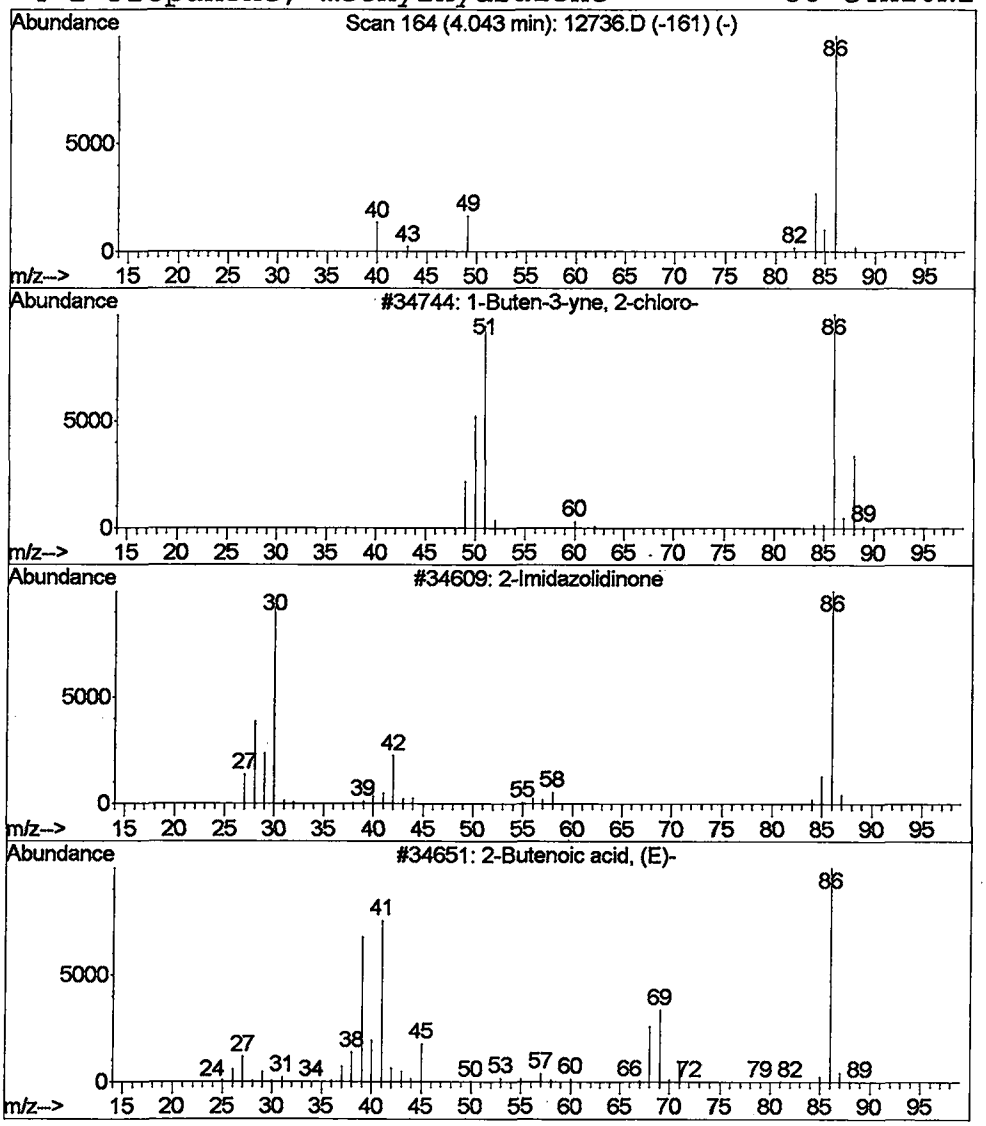
Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

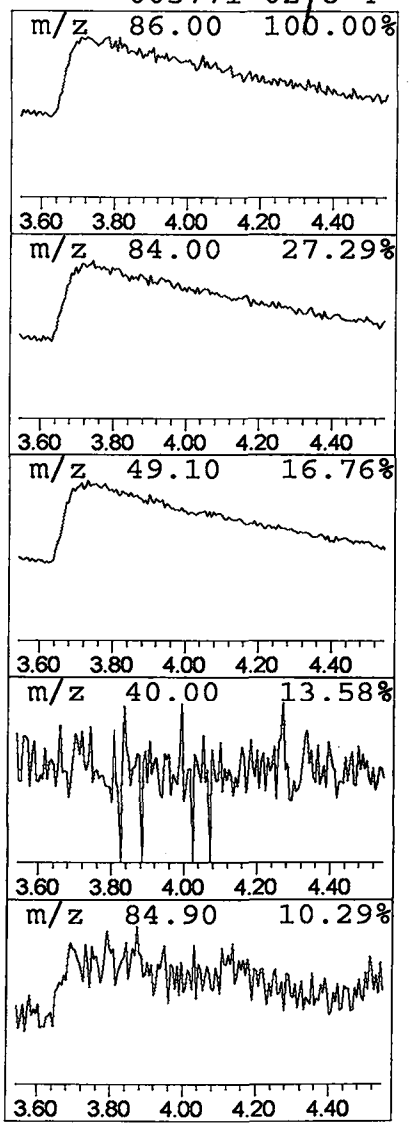
**********

Peak Number 7 1-Buten-3-yne, 2-chloro- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.05 | 0.51 ug/L | 355089 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Buten-3-yne, 2-chloro- | 86 | C4H3Cl | 017712-36-6 | 7 |
| 2 | 2-Imidazolidinone | 86 | C3H6N2O | 000120-93-4 | 5 |
| 3 | 2-Butenoic acid, (E)- | 86 | C4H6O2 | 000107-93-7 | 4 |
| 4 | 2-Propanone, methylhydrazone | 86 | C4H10N2 | 005771-02-8 | 4 |



# Library Search Compound Report

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Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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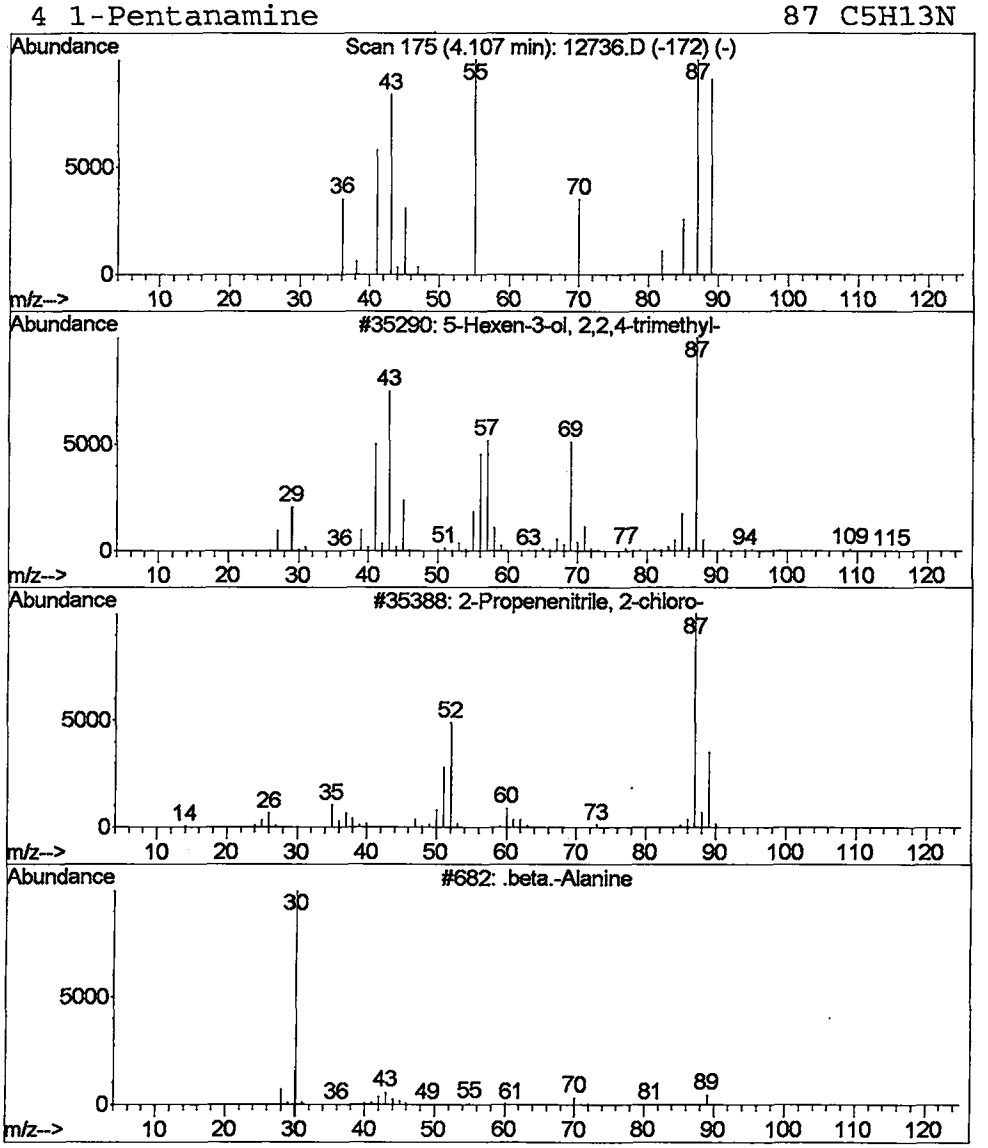
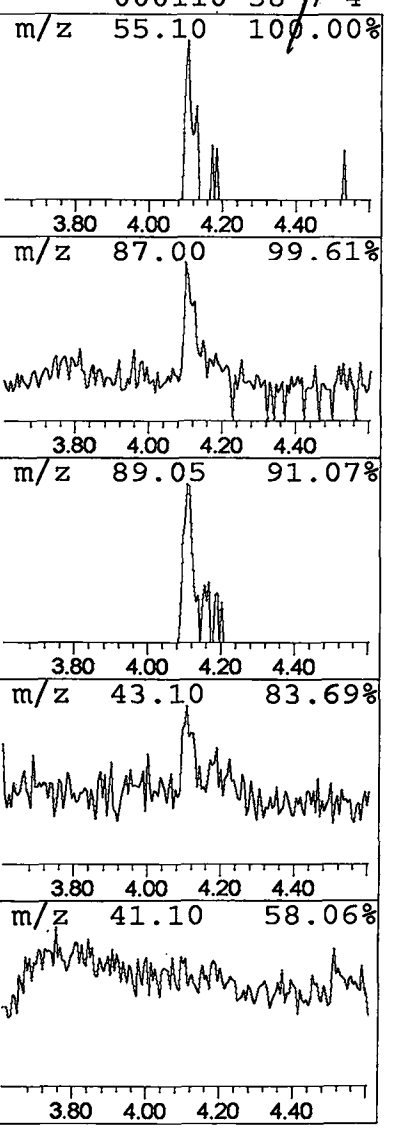
Peak Number 8 5-Hexen-3-ol, 2,2,4-trimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.11 | 0.21 ug/L | 150407 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Hexen-3-ol, 2,2,4-trimethyl- | 142 | C9H18O | 090676-50-9 | 9 |
| 2 | 2-Propenenitrile, 2-chloro- | 87 | C3H2ClN | 000920-37-6 | 4 |
| 3 | .beta.-Alanine | 89 | C3H7NO2 | 000107-95-9 | 4 |
| 4 | 1-Pentanamine | 87 | C5H13N | 000110-58-7 | 4 |



# Library Search Compound Report

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Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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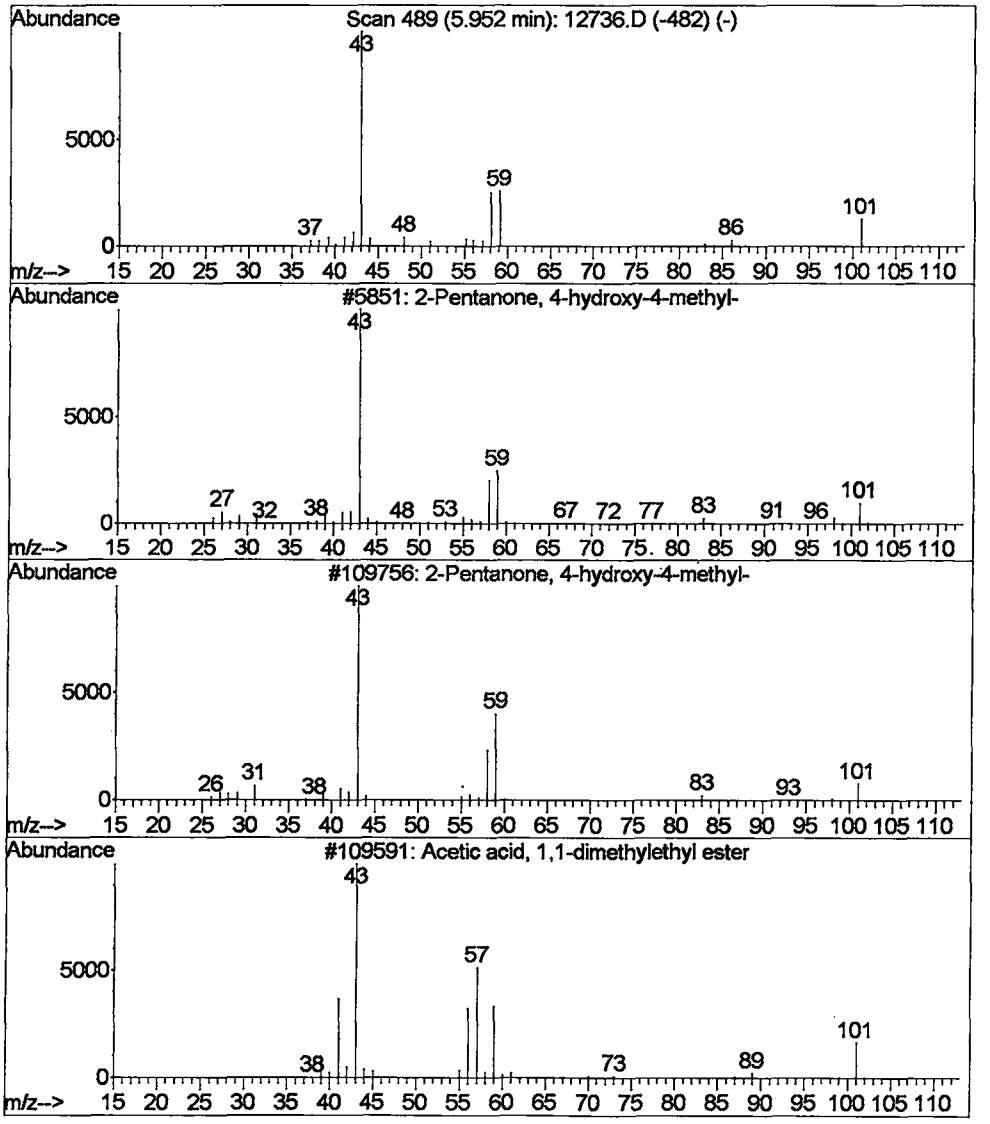
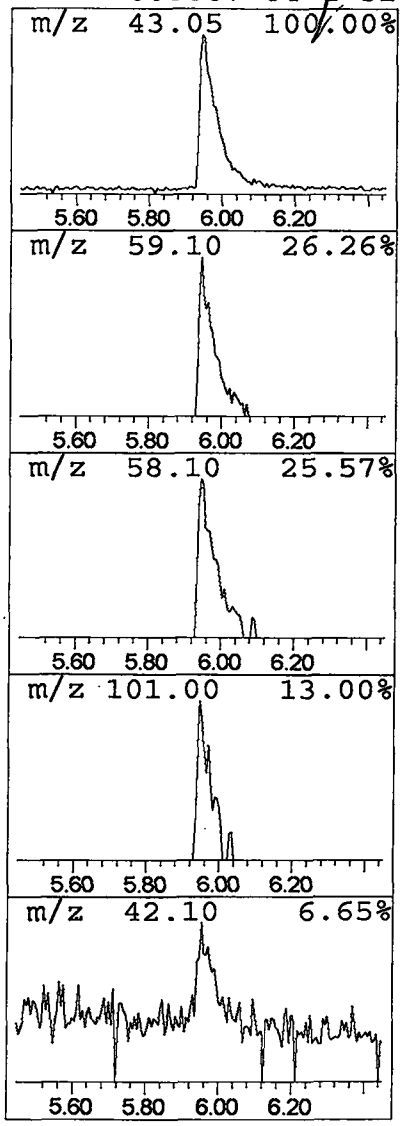
Peak Number 9 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.95 | 0.59 ug/L | 410470 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 40 |
| 3 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 36 |
| 4 | Acetone | 58 | C3H6O | 000067-64-1 | 32 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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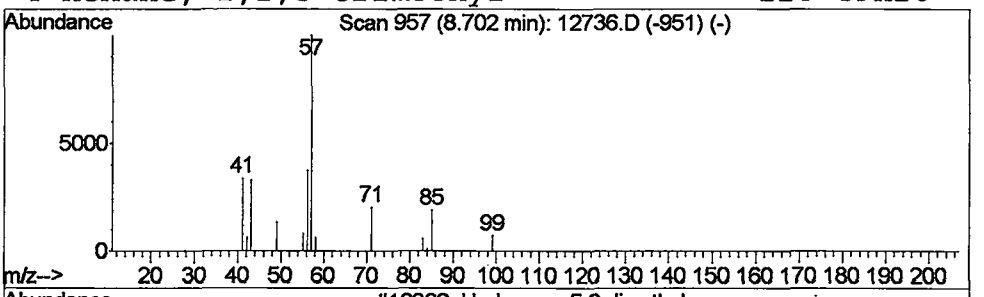
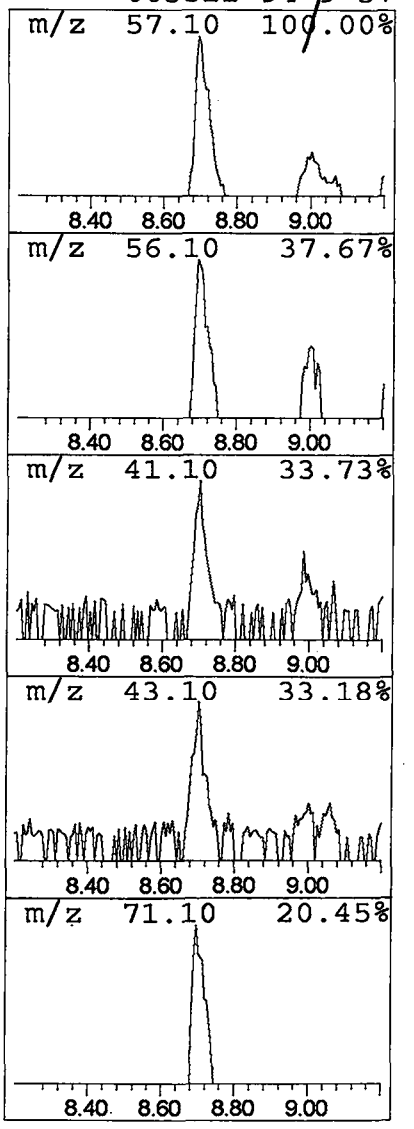
Peak Number 10 Undecane, 5,6-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.70 | 0.29 ug/L | 201477 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 5,6-dimethyl- | 184 | C13H28 | 017615-91-7 | 56 |
| 2 | Heptane, 2,2,3,4,6,6-hexamethyl- | 184 | C13H28 | 062108-32-1 | 45 |
| 3 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 38 |
| 4 | Hexane, 2,2,5-trimethyl- | 128 | C9H20 | 003522-94-9 | 37 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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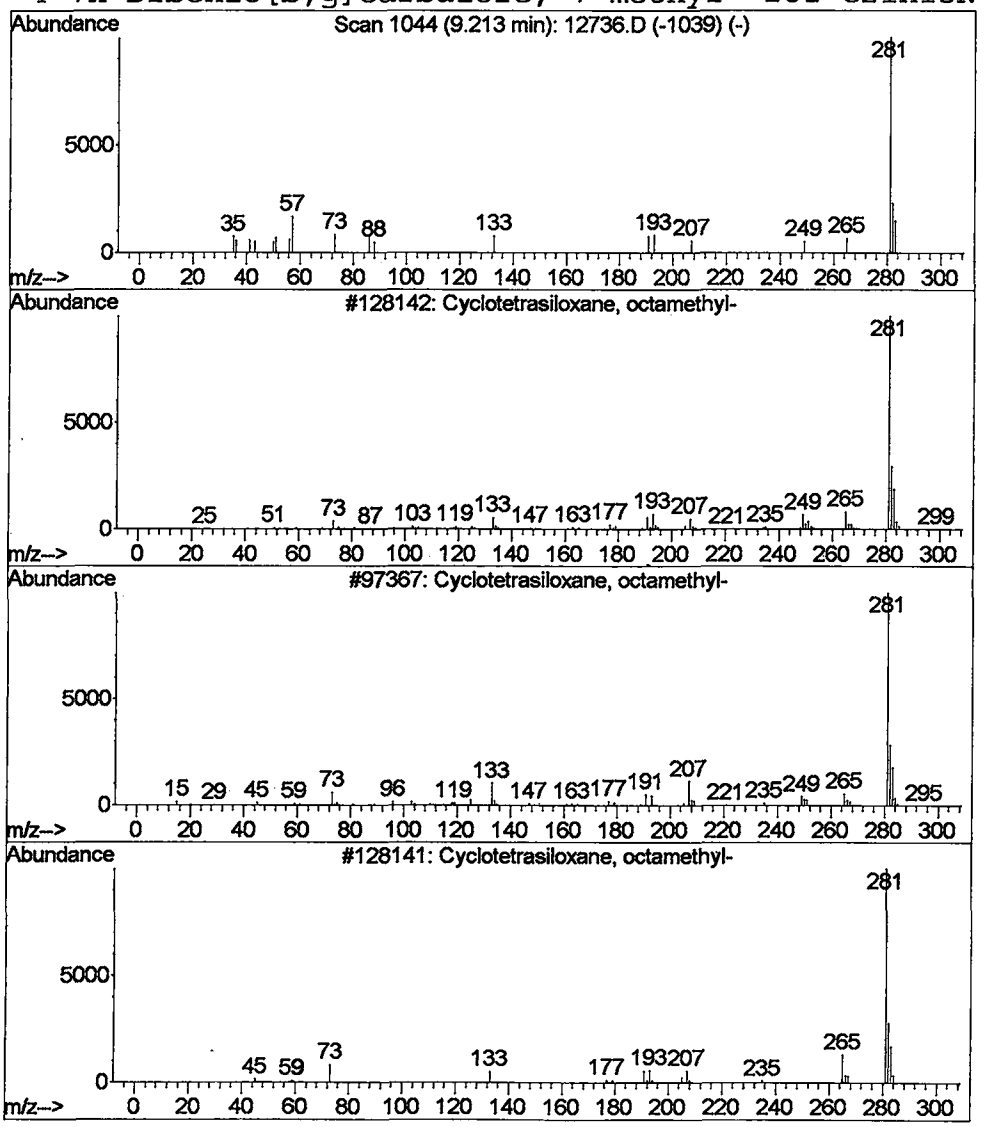
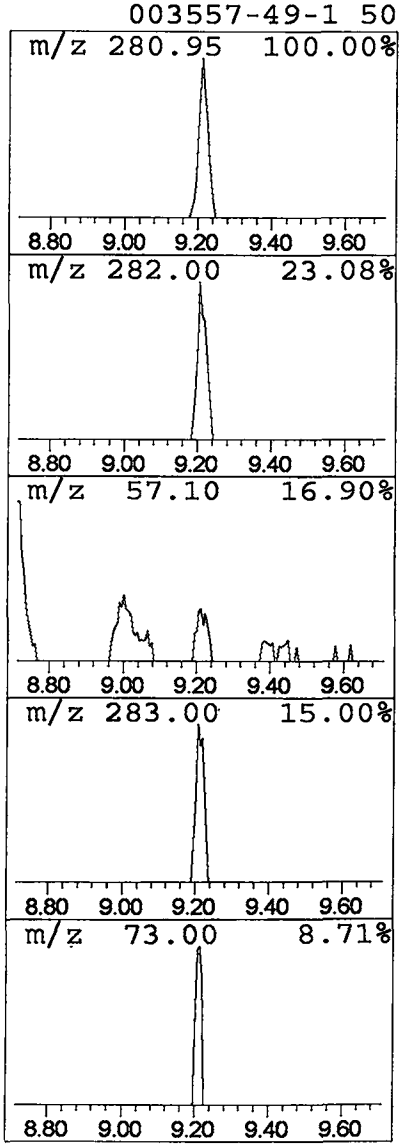
Peak Number 11 Cyclotetrasiloxane, octamet... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.21 | 0.25 ug/L | 173761 | 1,4-dichlorobenzene-d4 | 9.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 83 |
| 2 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 78 |
| 3 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 64 |
| 4 | 7H-Dibenzo[b,g]carbazole, 7-methyl- | 281 | C21H15N | 003557-49-1 | 50 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D  Vial: 12
Acq On : 7 Jun 2002 5:32 pm  Operator:
Sample :  Inst : Instrumen
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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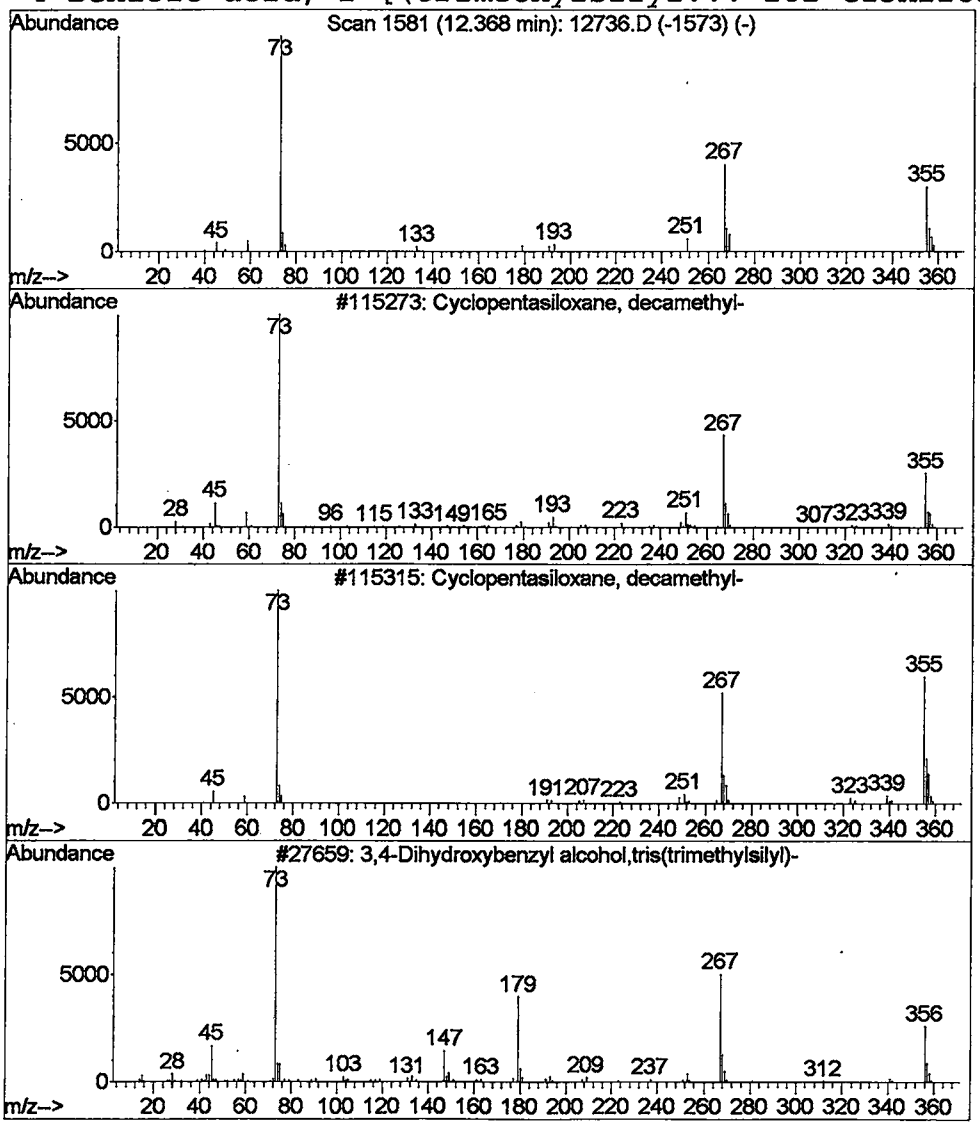
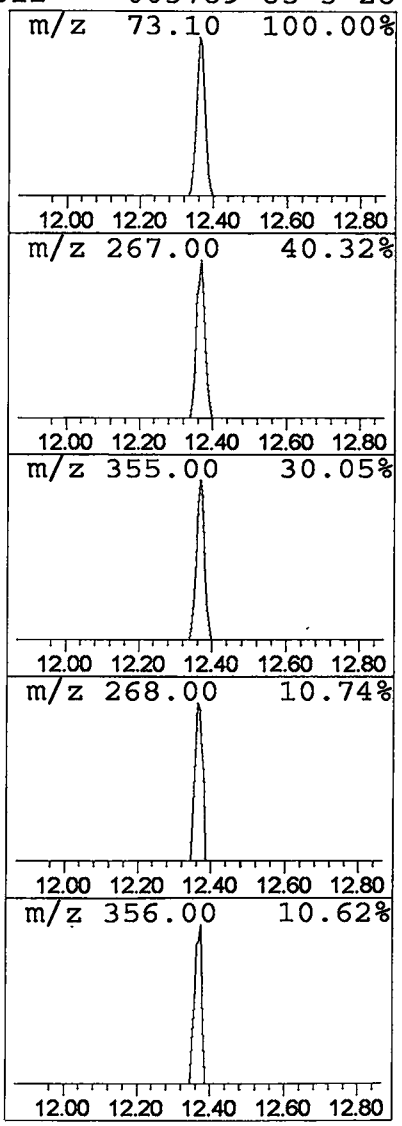
Peak Number 12 Cyclopentasiloxane, decamet... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.37 | 0.27 ug/L | 254563 | Napthalene-d8 | 13.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentasiloxane, decamethyl- | 370 | C10H30O5Si5 | 000541-02-6 | 83 |
| 2 | Cyclopentasiloxane, decamethyl- | 370 | C10H30O5Si5 | 000541-02-6 | 83 |
| 3 | 3,4-Dihydroxybenzyl alcohol,tris... | 356 | C16H32O3Si3 | 068595-79-9 | 40 |
| 4 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 28 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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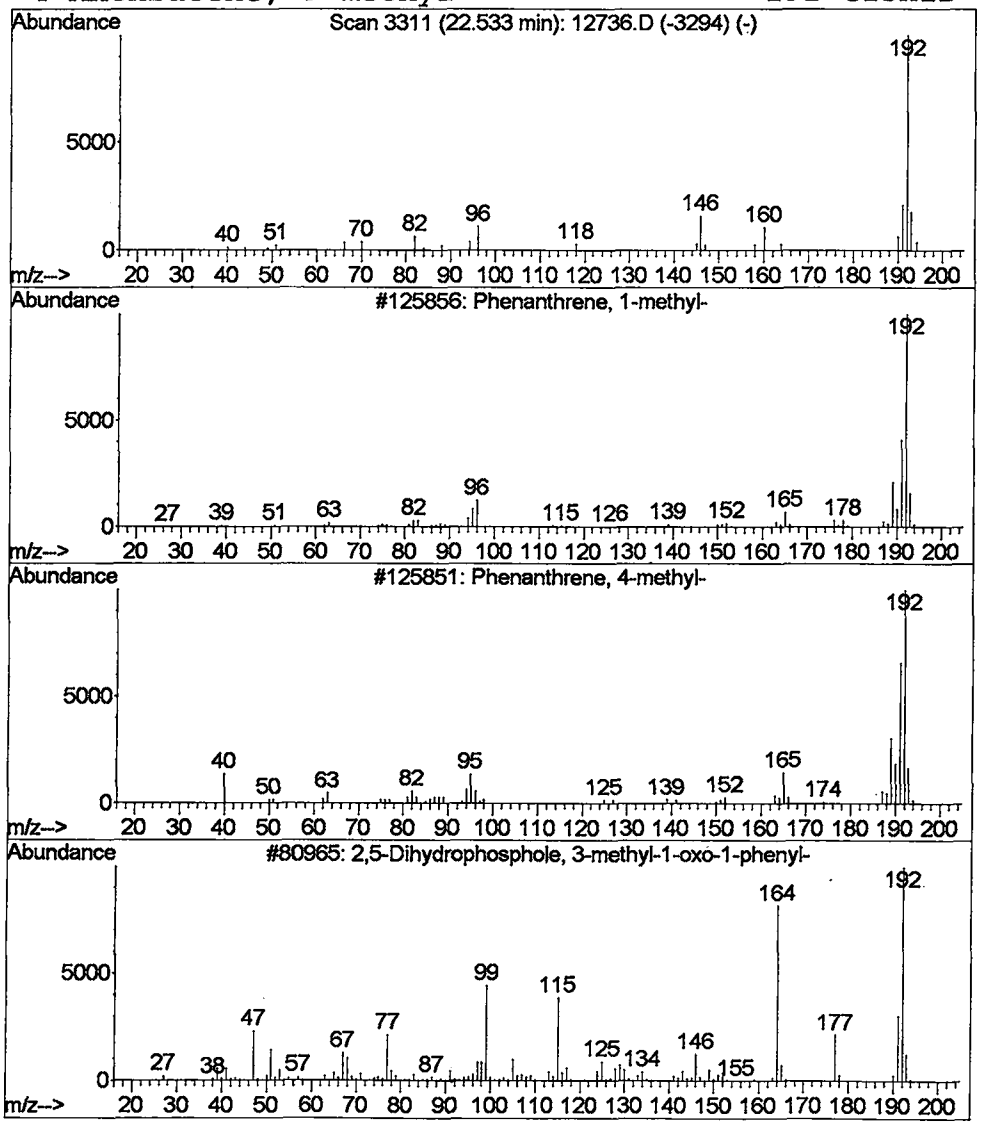
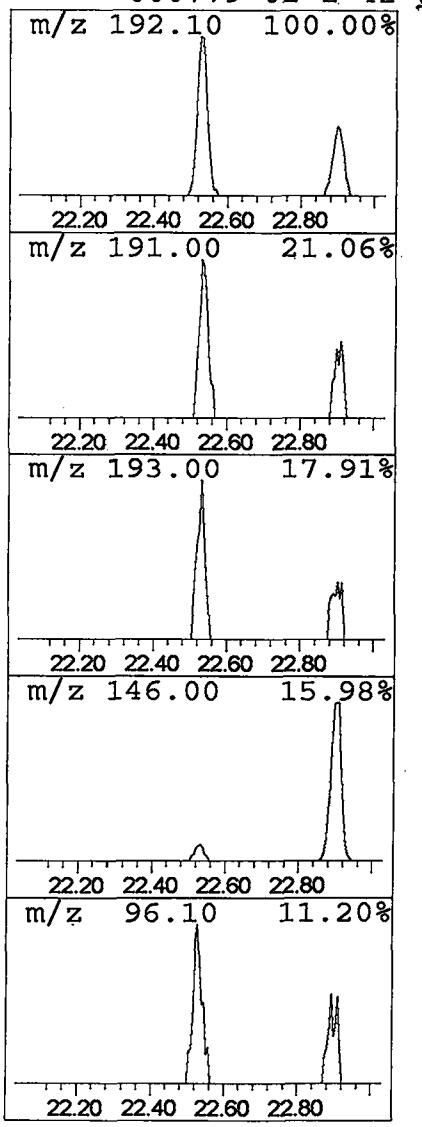
Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.53 | 0.27 ug/L | 288475 | Phenanthranene-d10 | 22.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 53 |
| 2 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 50 |
| 3 | 2,5-Dihydrophosphole, 3-methyl-1... | 192 | C11H13OP | 1000196-97-5 | 45 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 42 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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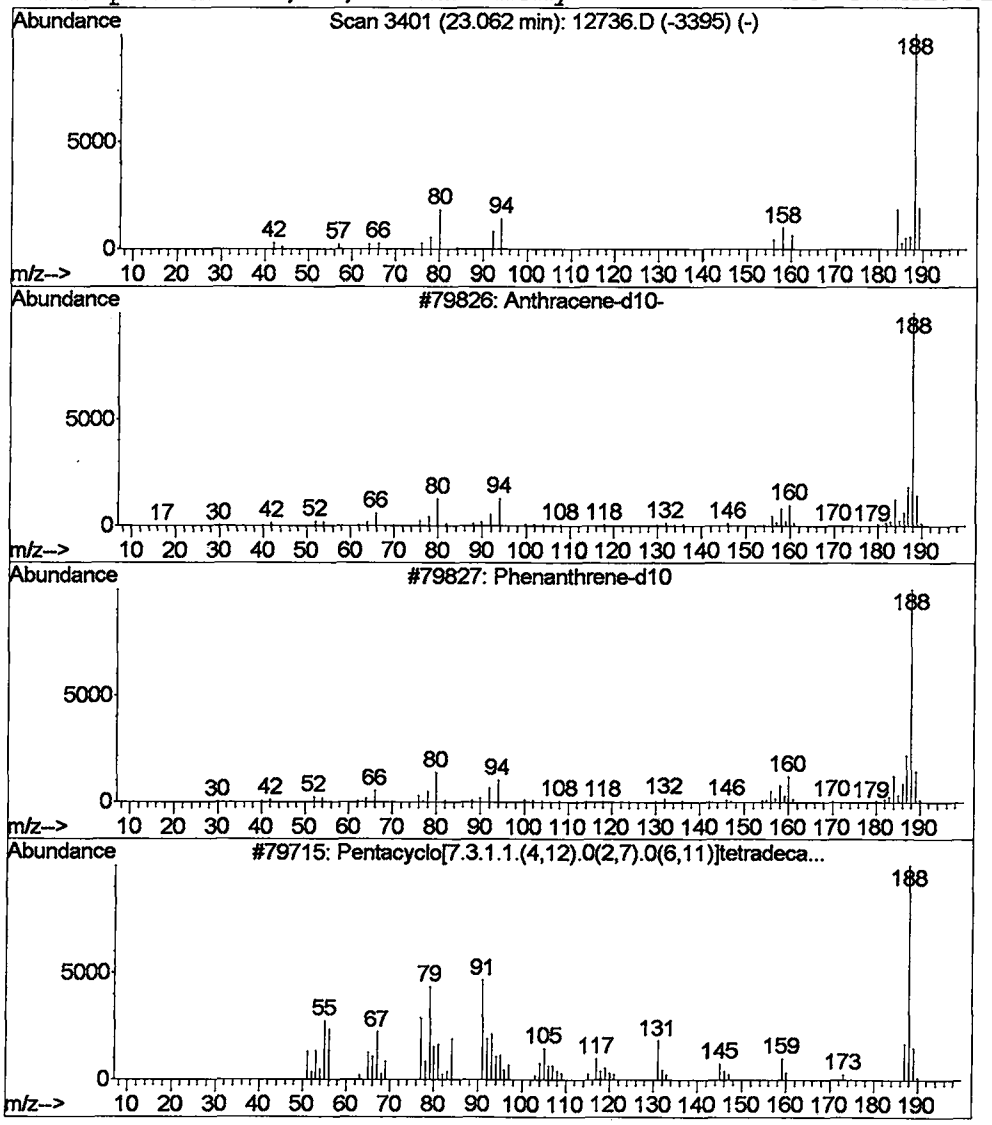
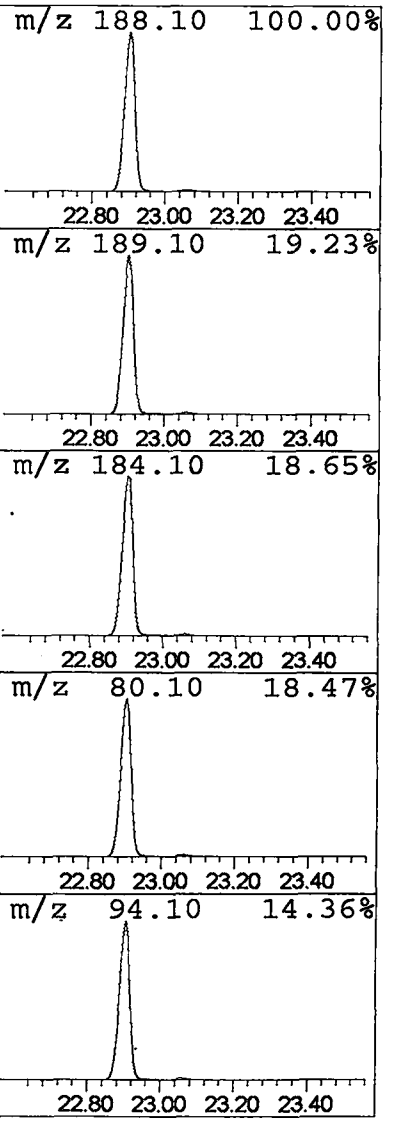
Peak Number 14 Anthracene-d10- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.06 | 0.31 ug/L | 331690 | Phenanthranene-d10 | 22.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene-d10- | 188 | C14D10 | 001719-06-8 | 83 |
| 2 | Phenanthrene-d10 | 188 | C14D10 | 001517-22-2 | 80 |
| 3 | Pentacyclo[7.3.1.1.(4,12).0(2,7)... | 188 | C14H20 | 1000215-61-8 | 45 |
| 4 | Naphthalene, 1,7-dimethoxy- | 188 | C12H12O2 | 005309-18-2 | 38 |



Data File : C:\MSDCHEM\1\DATA\060702\12736.D Vial: 12
Acq On : 7 Jun 2002 5:32 pm Operator:
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\060302.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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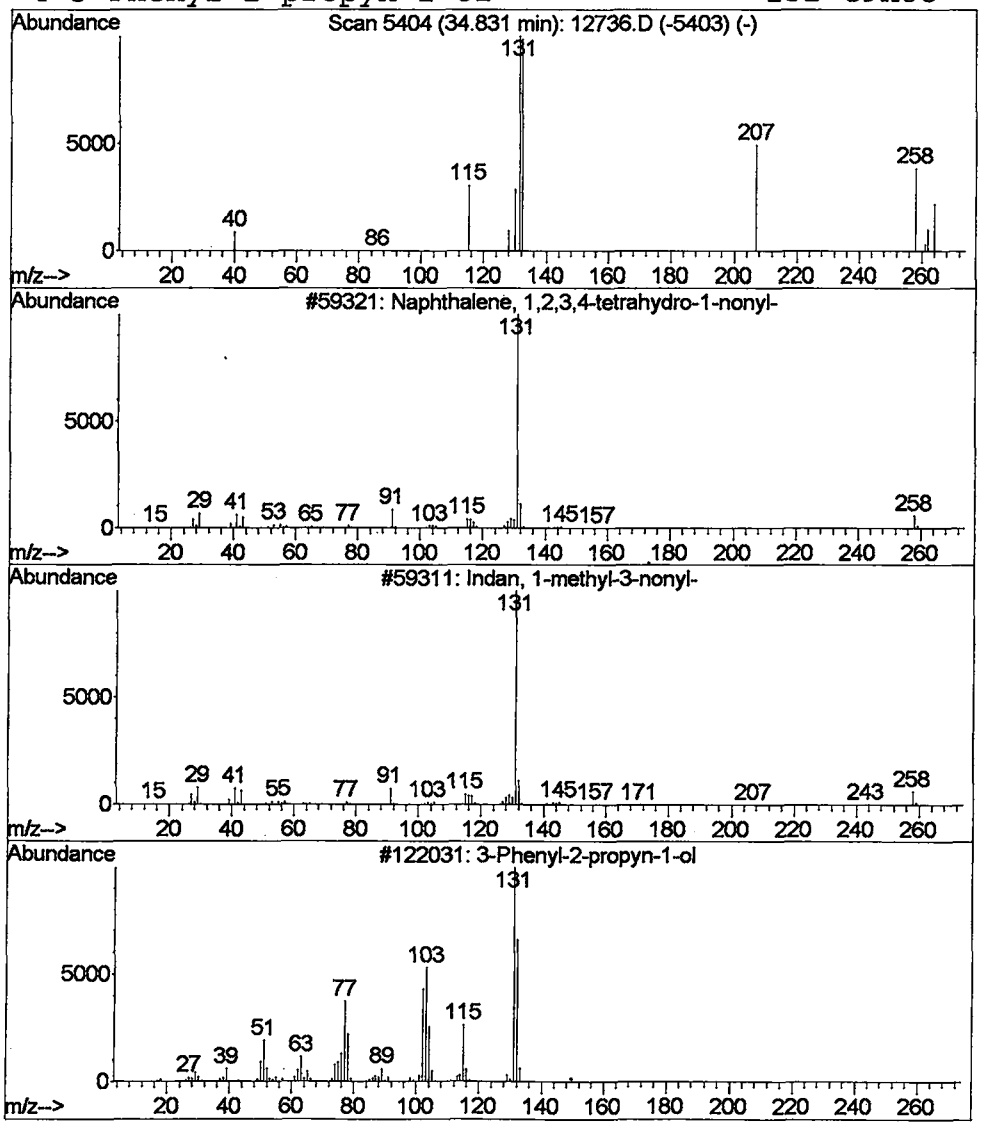
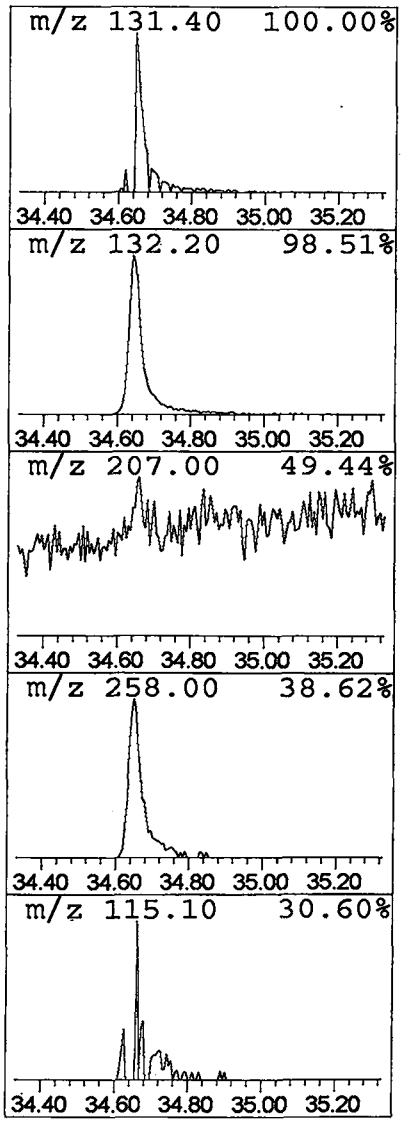
Peak Number 15 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 34.83 | 0.41 ug/L | 148015 | Perylene-d12 | 34.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 258 | C19H30 | 033425-49-9 | 9 |
| 2 | Indan, 1-methyl-3-nonyl- | 258 | C19H30 | 029138-85-0 | 9 |
| 3 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 9 |
| 4 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 9 |



Tentatively Identified Compound (TIC) Summary

Operator ID: Date Acquired: 7 Jun 2002 5:32 pm
Data File: C:\MSDCHEM\1\DATA\060702\12736.D
Name:
Misc:
Method: C:\MSDCHEM\1\METHODS\060302.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--- # | RT | Resp | Conc |
|---|---|---|---|---|---|---|---|---|
| Butanoic acid, me... | 3.47 | 0.2 | ug/L | 167110 | 1 | 9.89 | 27985700 | 40.0 |
| Methylene Chloride | 3.72 | 2.4 | ug/L | 1711580 | 1 | 9.89 | 27985700 | 40.0 |
| 4-Chlorobuten-3-yne | 3.73 | 4.6 | ug/L | 3252160 | 1 | 9.89 | 27985700 | 40.0 |
| Azetidine, 1-nitr... | 3.87 | 0.9 | ug/L | 660198 | 1 | 9.89 | 27985700 | 40.0 |
| Methylene Chloride | 3.90 | 0.8 | ug/L | 525955 | 1 | 9.89 | 27985700 | 40.0 |
| 2-Butyne-1,4-diol... | 3.94 | 1.6 | ug/L | 1085600 | 1 | 9.89 | 27985700 | 40.0 |
| 1-Buten-3-yne, 2-... | 4.05 | 0.5 | ug/L | 355089 | 1 | 9.89 | 27985700 | 40.0 |
| 5-Hexen-3-ol, 2,2... | 4.11 | 0.2 | ug/L | 150407 | 1 | 9.89 | 27985700 | 40.0 |
| 2-Pentanone, 4-hy... | 5.95 | 0.6 | ug/L | 410470 | 1 | 9.89 | 27985700 | 40.0 |
| Undecane, 5,6-dim... | 8.70 | 0.3 | ug/L | 201477 | 1 | 9.89 | 27985700 | 40.0 |
| Cyclotetrasiloxan... | 9.21 | 0.2 | ug/L | 173761 | 1 | 9.89 | 27985700 | 40.0 |
| Cyclopentasiloxan... | 12.37 | 0.3 | ug/L | 254563 | 2 | 13.39 | 37927500 | 40.0 |
| Phenanthrene, 1-m... | 22.53 | 0.3 | ug/L | 288475 | 4 | 22.91 | 43108400 | 40.0 |
| Anthracene-d10- | 23.06 | 0.3 | ug/L | 331690 | 4 | 22.91 | 43108400 | 40.0 |
| Naphthalene, 1,2,... | 34.83 | 0.4 | ug/L | 148015 | 6 | 34.65 | 14307600 | 40.0 |