User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 01/17/2002 Time: 15:39:39

Sample: AE00559
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 1/17/02 15:24 Ended: 1/17/02 15:24 Analyst: DLV
Page: 1

| | Component Name | Viol | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | Other unknown compounds | | . | | |
| 2 | Surr_2,4-DDD | | 100 | | 5.0 |

**Comments for Sample AE00559 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 01-17-2002 Time: 15:39:44

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for 8 of the 43 compounds in the LCS Standard were above their acceptance ranges.

Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D Vial: 3
Acq On : 15 Jan 2002 3:10 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 15 15:51:54 2002 Quant Results File: SCAN508.RES

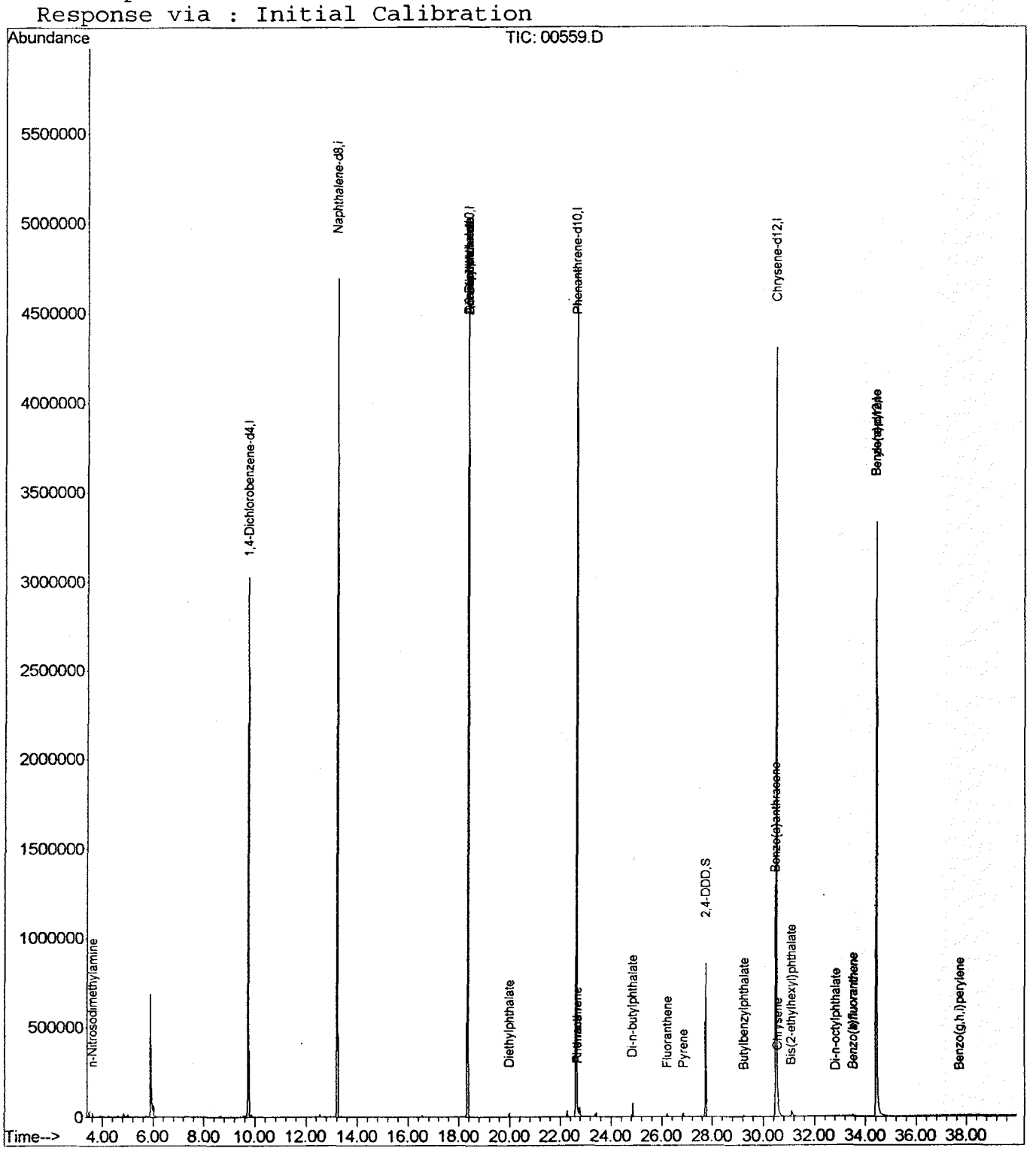
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration
DataAcq Meth : SCAN508

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 9.72 | 152 | 1086407 | 20.00 | ug/L | | 0.00 |
| 10) Naphthalene-d8 | 13.19 | 136 | 4633011 | 20.00 | ug/L | | -0.02 |
| 17) Acenaphthene-d10 | 18.34 | 164 | 2379772 | 20.00 | ug/L | | -0.01 |
| 29) Phenanthrene-d10 | 22.63 | 188 | 3995310 | 20.00 | ug/L | | -0.03 |
| 38) Chrysene-d12 | 30.49 | 240 | 3551639 | 20.00 | ug/L | | -0.02 |
| 44) Perylene-d12 | 34.42 | 264 | 2531129 | 20.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 37) 2,4-DDD | 27.73 | 235 | 314277 | 4.98 | ug/L | | 0.00 |
| Spiked Amount 5.000 | | | Recovery = 99.60% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) n-Nitrosodimethylamine | 3.60 | 74 | 9510 | 0.21 | ug/L | # | 12 |
| 20) Dimethylphthalate | 18.34 | 163 | 381806 | 2.43 | ug/L | # | 56 |
| 21) 2,6-Dinitrotoluene | 18.34 | 165 | 299891 | 9.78 | ug/L | # | 17 |
| 25) Diethylphthalate | 20.00 | 149 | 19563 | 0.13 | ug/L | | 98 |
| 33) Phenanthrene | 22.69 | 178 | 10495 | 0.05 | ug/L | | 97 |
| 34) Anthracene | 22.69 | 178 | 10495 | 0.05 | ug/L | | 97 |
| 35) Di-n-butylphthalate | 24.85 | 149 | 93209 | 0.36 | ug/L | | 95 |
| 36) Fluoranthene | 26.22 | 202 | 21050 | 0.10 | ug/L | | 91 |
| 39) Pyrene | 26.85 | 202 | 22490 | 0.08 | ug/L | | 94 |
| 40) Butylbenzylphthalate | 29.24 | 149 | 7958 | 0.06 | ug/L | | 97 |
| 41) Benzo(a)anthracene | 30.47 | 228 | 33533 | 0.16 | ug/L | | 97 |
| 42) Bis(2-ethylhexyl)phthalate | 31.11 | 149 | 42323 | 0.79 | ug/L | | 94 |
| 43) Chrysene | 30.56 | 228 | 38785 | 0.19 | ug/L | | 94 |
| 45) Di-n-octylphthalate | 32.82 | 149 | 5494 | 0.02 | ug/L | # | 74 |
| 46) Benzo(b)fluoranthene | 33.50 | 252 | 9127 | 0.05 | ug/L | | 93 |
| 47) Benzo(k)fluoranthene | 33.50 | 252 | 9127 | 0.05 | ug/L | | 92 |
| 48) Benzo(a)pyrene | 34.42 | 252 | 18019 | 0.11 | ug/L | # | 1 |
| 51) Benzo(g,h,i)perylene | 37.70 | 276 | 5194 | 0.04 | ug/L | # | 49 |

(#) = qualifier out of range (m) = manual integration
00559.D SCAN508.M Tue Jan 15 15:51:55 2002 Page 1

Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D Vial: 3
Acq On : 15 Jan 2002 3:10 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 15 15:51 2002 Quant Results File: SCAN508.RE

Method : C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D Vial: 3
Acq On : 15 Jan 2002 3:10 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title : 508 scan method
Smoothing : OFF Filtering: 5
Sampling : 2 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 20
Stop Thrs : 0 Peak Location: TOP

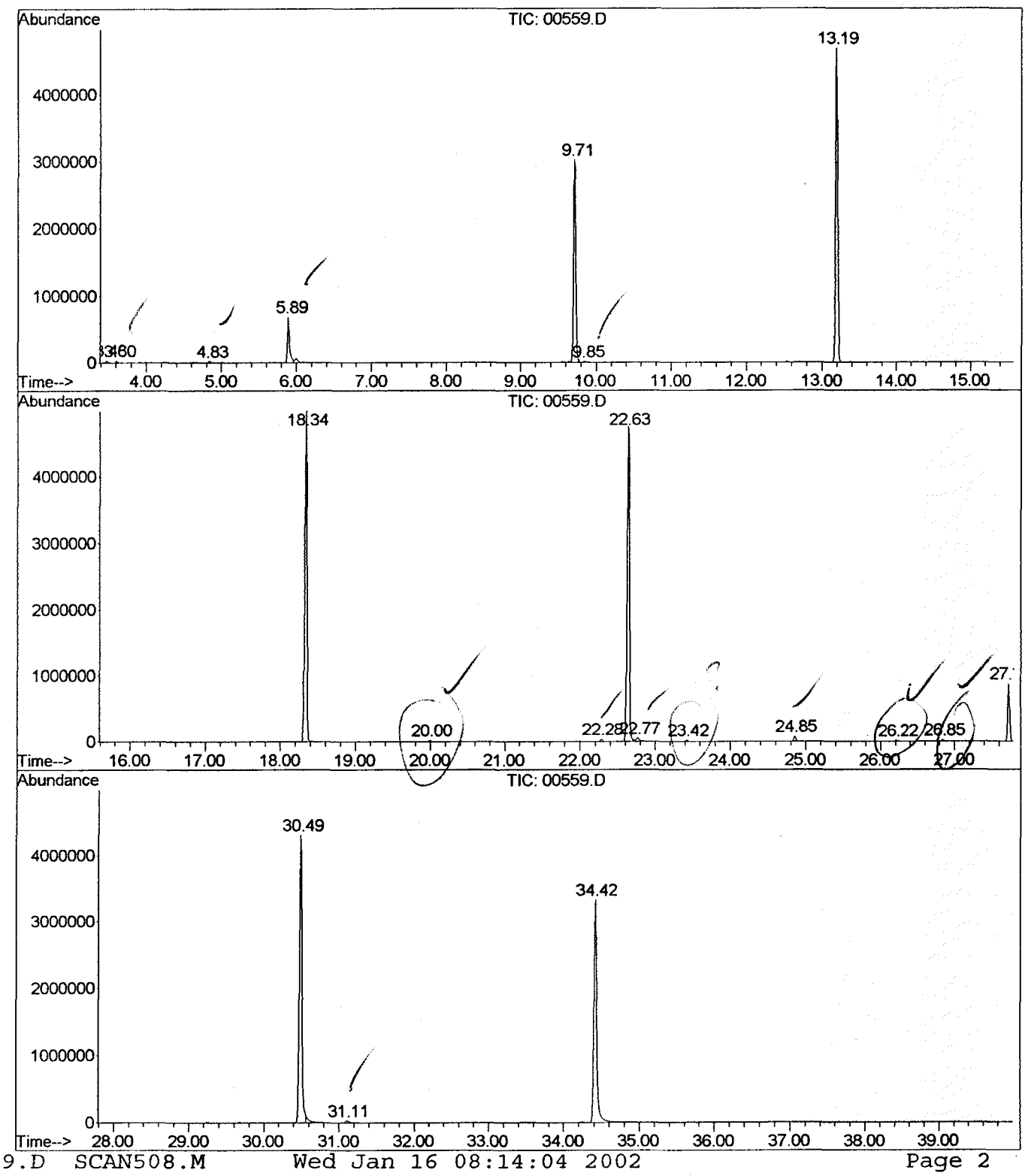
If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.476 | 7 | 9 | 17 | rVB | 34934 | 54450 | 0.52% | 0.094% |
| 2 | 3.602 | 17 | 20 | 25 | rBV | 26635 | 40511 | 0.38% | 0.070% |
| 3 | 4.835 | 125 | 128 | 135 | rBV2 | 23304 | 60803 | 0.58% | 0.105% |
| 4 | 5.885 | 217 | 220 | 227 | rBV | 685925 | 1315738 | 12.45% | 2.267% |
| 5 | 9.710 | 551 | 555 | 561 | rVV | 3026749 | 6172834 | 58.42% | 10.634% |
| 6 | 9.847 | 561 | 567 | 577 | rVB2 | 18500 | 55695 | 0.53% | 0.096% |
| 7 | 13.192 | 855 | 860 | 865 | rBV | 4690513 | 8878084 | 84.02% | 15.294% |
| 8 | 18.341 | 1305 | 1311 | 1315 | rBV | 4987877 | 9700869 | 91.81% | 16.712% |
| 9 | 19.997 | 1451 | 1456 | 1459 | rBV2 | 25580 | 46044 | 0.44% | 0.079% |
| 10 | 22.280 | 1651 | 1656 | 1661 | rVB | 36729 | 69917 | 0.66% | 0.120% |
| 11 | 22.634 | 1681 | 1687 | 1693 | rBV2 | 4744687 | 10566354 | 100.00% | 18.203% |
| 12 | 22.771 | 1695 | 1699 | 1711 | rVB2 | 53567 | 159219 | 1.51% | 0.274% |
| 13 | 23.422 | 1751 | 1756 | 1763 | rVB | 22957 | 51056 | 0.48% | 0.088% |
| 14 | 24.849 | 1877 | 1881 | 1887 | rBV | 79209 | 138619 | 1.31% | 0.239% |
| 15 | 26.219 | 1995 | 2001 | 2007 | rVB | 18990 | 40038 | 0.38% | 0.069% |
| 16 | 26.847 | 2051 | 2056 | 2061 | rVB | 21088 | 45404 | 0.43% | 0.078% |
| 17 | 27.726 | 2127 | 2133 | 2139 | rBV | 857174 | 1527773 | 14.46% | 2.632% |
| 18 | 30.489 | 2369 | 2375 | 2381 | rBV2 | 4304838 | 10387375 | 98.31% | 17.895% |
| 19 | 31.105 | 2425 | 2429 | 2447 | rVB | 34752 | 137465 | 1.30% | 0.237% |
| 20 | 34.416 | 2713 | 2719 | 2759 | rBV | 3331328 | 8599576 | 81.39% | 14.815% |

Sum of corrected areas: 58047824

File : C:\MSDCHEM\1\5973N\02JAN15\00559.D
Operator :
Acquired : 15 Jan 2002 3:10 pm using AcqMethod SCAN508
Instrument : Instrumen
Sample Name: 508 scan
Misc Info : January 15, 2002
Vial Number: 3
Quant File :SCAN508.RES (RTE Integrator)



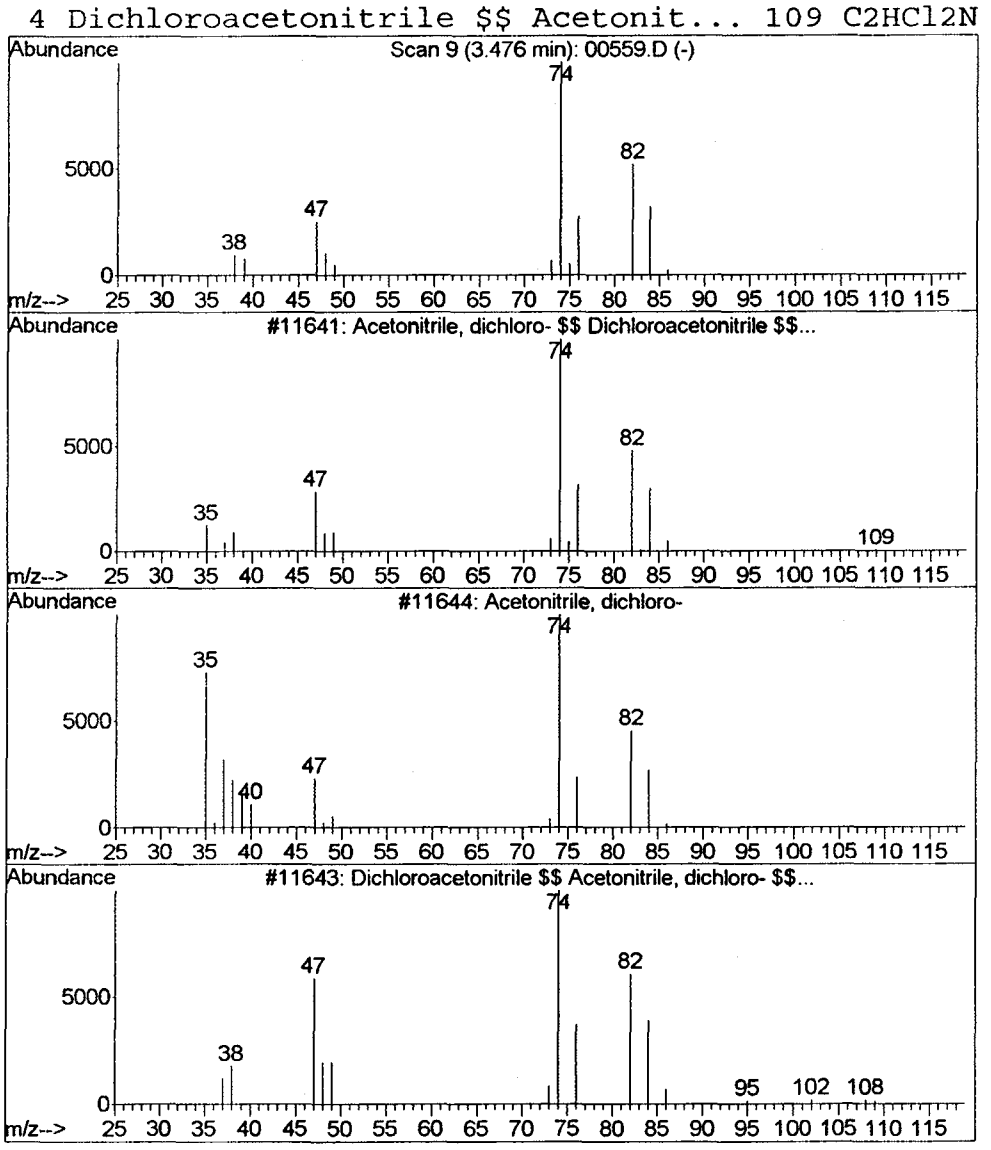
```
Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D          Vial: 3
Acq On    : 15 Jan 2002    3:10 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 2002                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title        : 508 scan method
Library      : C:\DATABASE\WILEY7N.L
```

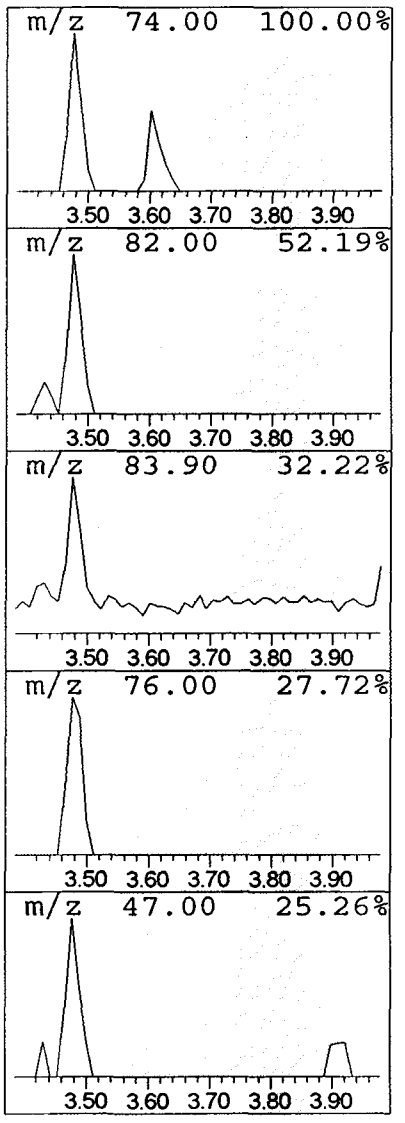
**********

Peak Number 1 Acetonitrile, dichloro- $$ ... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.48 | 0.18 ug/L | 54450 | 1,4-Dichlorobenzene-d4 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetonitrile, dichloro- $$ Dichl... | 109 | C2HCl2N | 003018-12-0 | 74 |
| 2 | Acetonitrile, dichloro- | 109 | C2HCl2N | 003018-12-0 | 74 |
| 3 | Dichloroacetonitrile $$ Acetonit... | 109 | C2HCl2N | 003018-12-0 | 74 |
| 4 | Dichloroacetonitrile $$ Acetonit... | 109 | C2HCl2N | 003018-12-0 | 64 |



Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D Vial: 3
Acq On : 15 Jan 2002 3:10 pm Operator:
Sample : 508 scan Inst : Instrumen
Misc : January 15, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

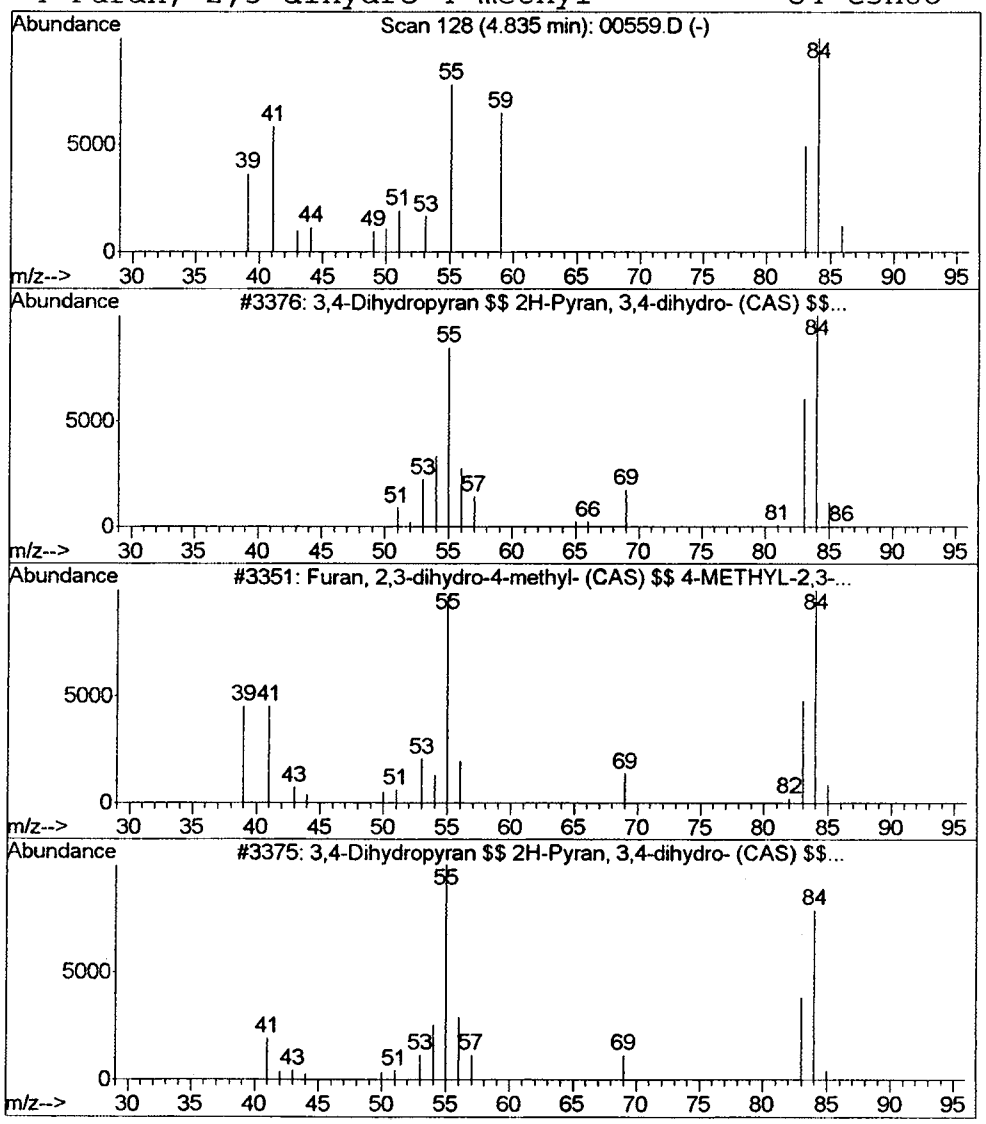
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

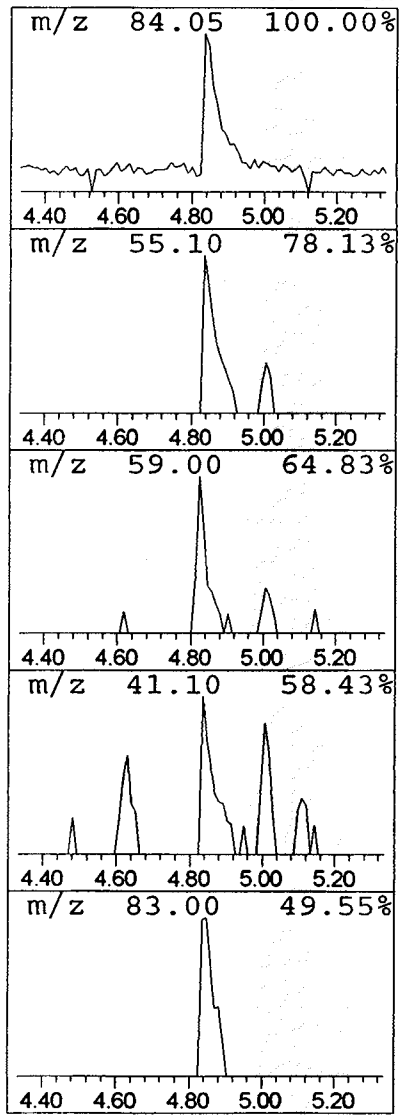
**********

Peak Number 2 3,4-Dihydropyran $$ 2H-Pyra... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.83 | 0.20 ug/L | 60803 | 1,4-Dichlorobenzene-d4 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,4-Dihydropyran $$ 2H-Pyran, 3,... | 84 | C5H8O | 000110-87-2 | 53 |
| 2 | Furan, 2,3-dihydro-4-methyl- (CA... | 84 | C5H8O | 034314-83-5 | 52 |
| 3 | 3,4-Dihydropyran $$ 2H-Pyran, 3,... | 84 | C5H8O | 000110-87-2 | 52 |
| 4 | Furan, 2,3-dihydro-4-methyl- | 84 | C5H8O | 034314-83-5 | 52 |



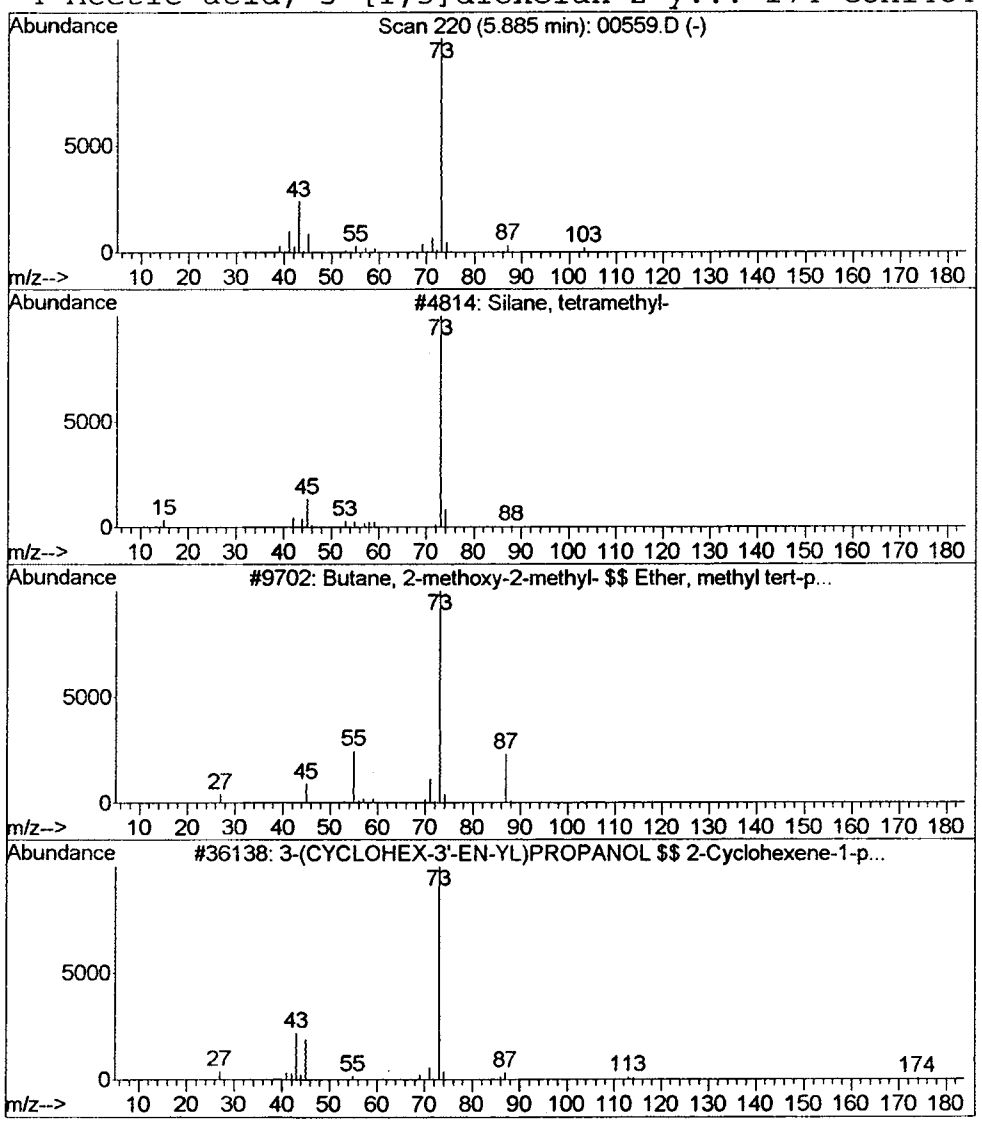
```
Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D          Vial: 3
Acq On    : 15 Jan 2002    3:10 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 2002                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title        : 508 scan method
Library      : C:\DATABASE\WILEY7N.L
```

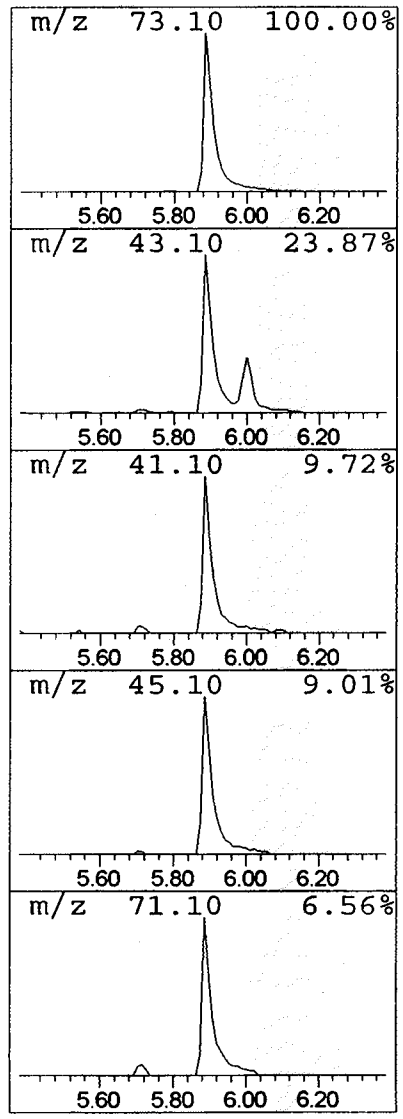
**********

Peak Number 3 Silane, tetramethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.89 | 4.26 ug/L | 1315740 | 1,4-Dichlorobenzene-d4 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 43 |
| 2 | Butane, 2-methoxy-2-methyl- $$ E... | 102 | C6H14O | 000994-05-8 | 36 |
| 3 | 3-(CYCLOHEX-3'-EN-YL)PROPANOL $$... | 174 | C8H14O4 | 015745-87-6 | 33 |
| 4 | Acetic acid, 3-[1,3]dioxolan-2-y... | 174 | C8H14O4 | 000000-00-0 | 33 |



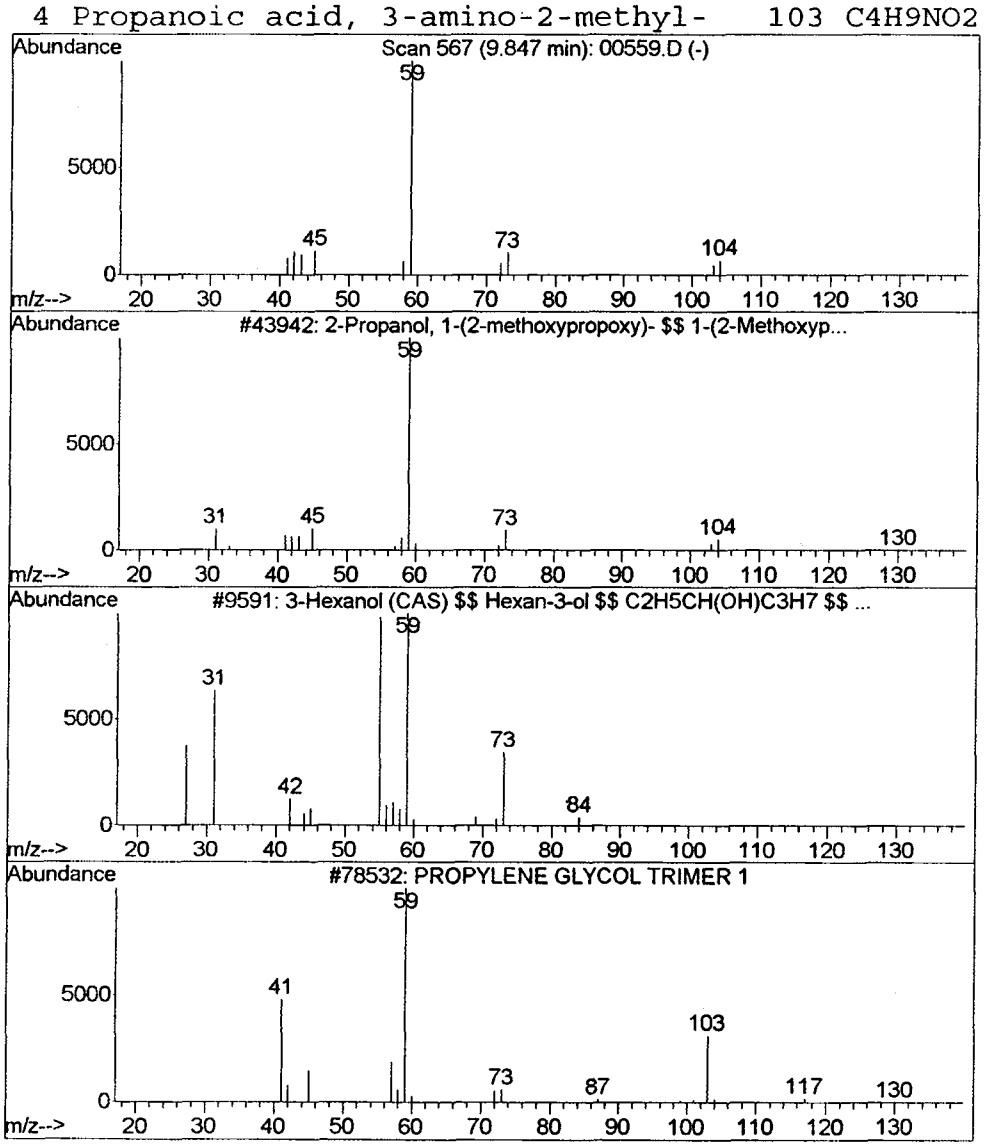
```
Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D          Vial: 3
Acq On    : 15 Jan 2002    3:10 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 2002                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title        : 508 scan method
Library      : C:\DATABASE\WILEY7N.L
```

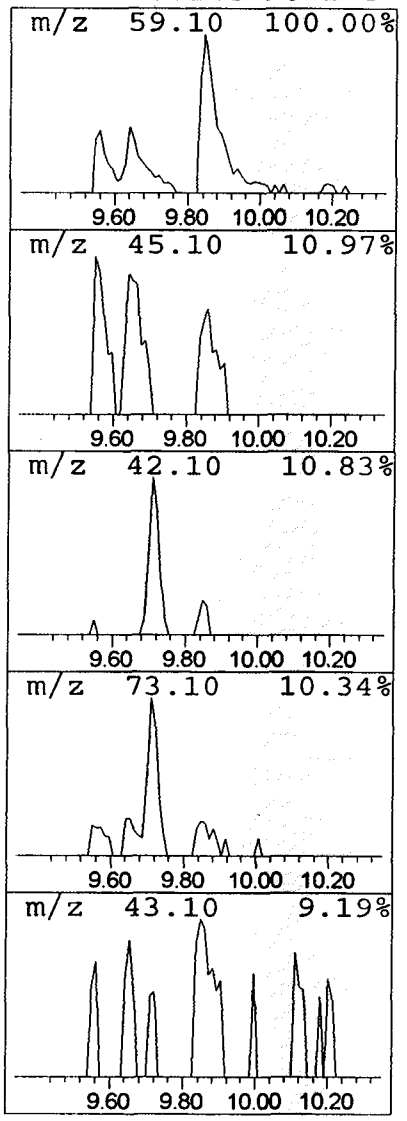
**********

Peak Number 4 2-Propanol, 1-(2-methoxypro... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.85 | 0.18 ug/L | 55695 | 1,4-Dichlorobenzene-d4 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-(2-methoxypropoxy)... | 148 | C7H16O3 | 013429-07-7 | 74 |
| 2 | 3-Hexanol (CAS) $$ Hexan-3-ol $$... | 102 | C6H14O | 000623-37-0 | 9 |
| 3 | PROPYLENE GLYCOL TRIMER 1 | 174 | C9H18O3 | 000000-00-0 | 9 |
| 4 | Propanoic acid, 3-amino-2-methyl- | 103 | C4H9NO2 | 000144-90-1 | 4 |



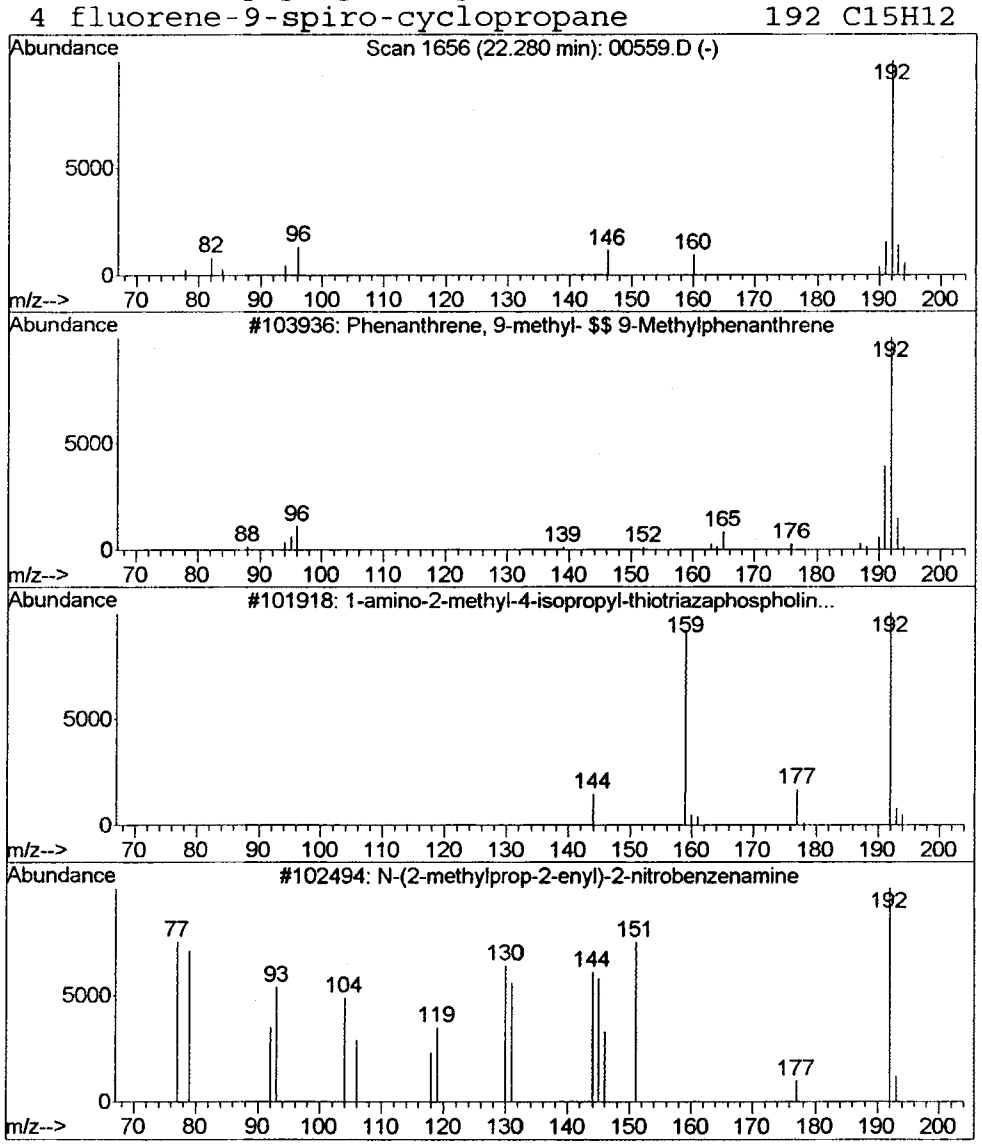
```
Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D          Vial: 3
Acq On    : 15 Jan 2002    3:10 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 2002                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title        : 508 scan method
Library      : C:\DATABASE\WILEY7N.L
```

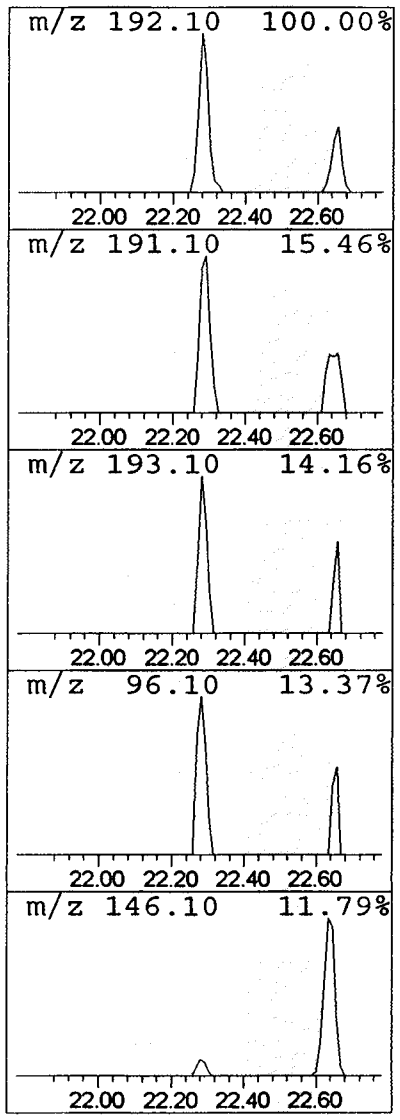
**********

Peak Number 5 Phenanthrene, 9-methyl- $$ ... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.28 | 0.13 ug/L | 69917 | Phenanthrene-d10 | 22.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 9-methyl- $$ 9-Met... | 192 | C15H12 | 000883-20-5 | 59 |
| 2 | 1-amino-2-methyl-4-isopropyl-thi... | 192 | C5H13N4PS | 107264-54-0 | 50 |
| 3 | N-(2-methylprop-2-enyl)-2-nitrob... | 192 | C10H12N2O2 | 000000-00-0 | 50 |
| 4 | fluorene-9-spiro-cyclopropane | 192 | C15H12 | 000000-00-0 | 45 |



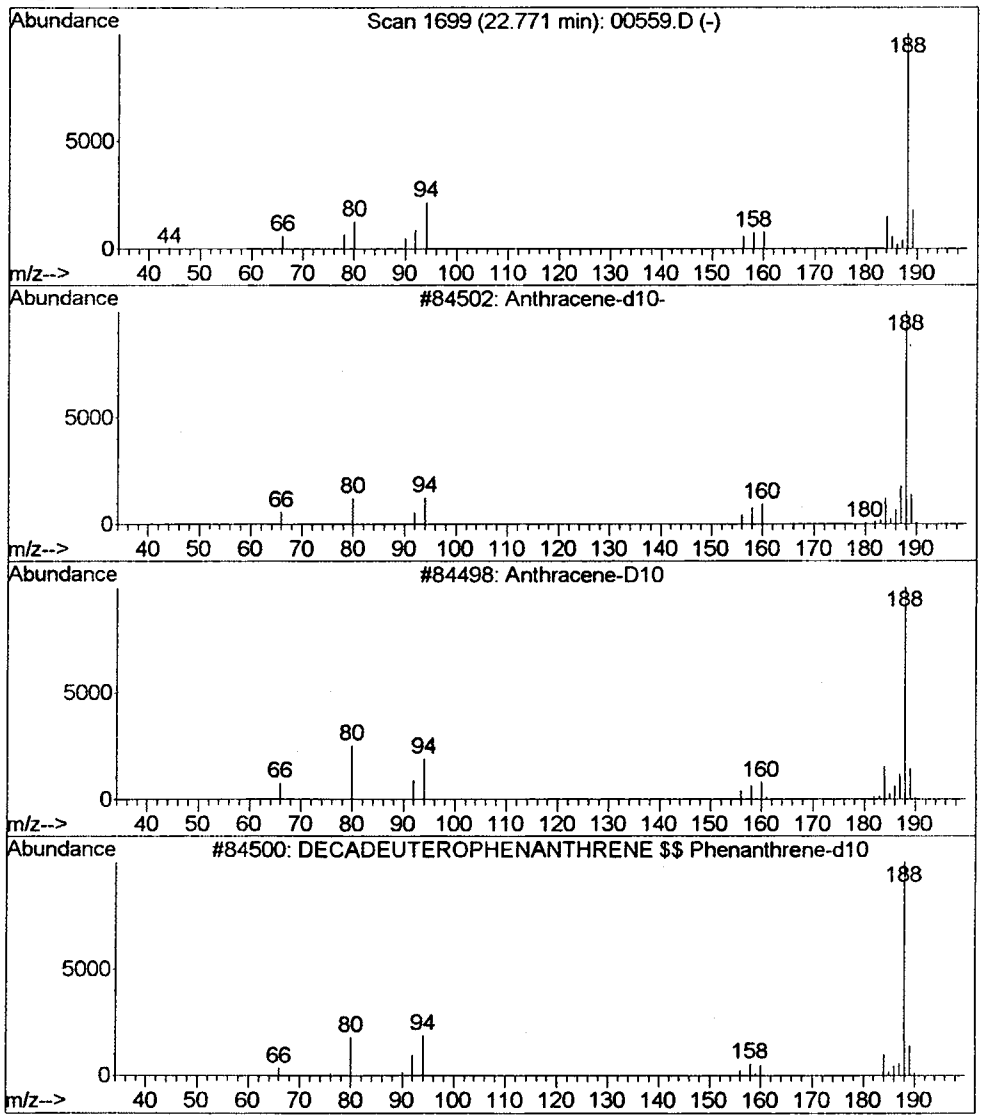
```
Data File : C:\MSDCHEM\1\5973N\02JAN15\00559.D          Vial: 3
Acq On    : 15 Jan 2002    3:10 pm                    Operator:
Sample    : 508 scan                                  Inst    : Instrumen
Misc      : January 15, 2002                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title        : 508 scan method
Library      : C:\DATABASE\WILEY7N.L
```

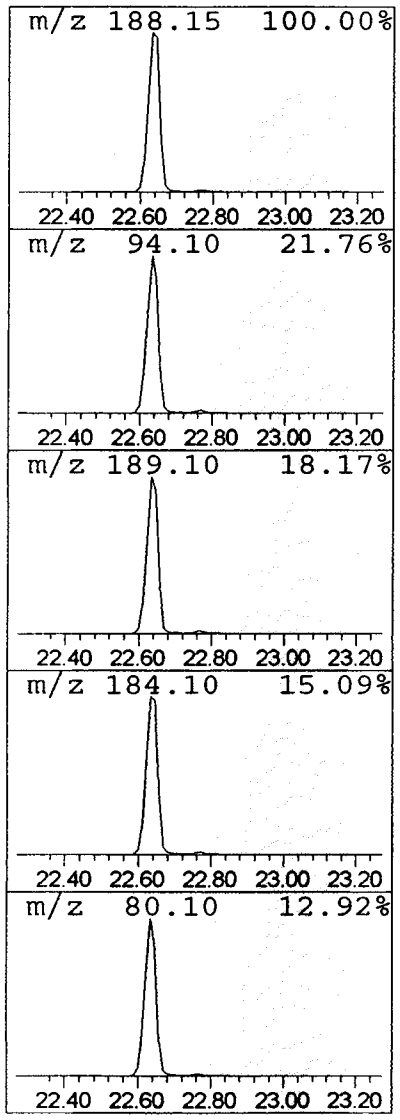
**********

Peak Number 6 Anthracene-d10- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.77 | 0.30 ug/L | 159219 | Phenanthrene-d10 | 22.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene-d10- | 188 | C14D10 | 001719-06-8 | 87 |
| 2 | Anthracene-D10 | 188 | C14D10 | 000000-00-0 | 87 |
| 3 | DECADEUTEROPHENANTHRENE $$ Phena... | 188 | C14D10 | 001517-22-2 | 72 |
| 4 | Phenanthrene-d10 | 188 | C14D10 | 001517-22-2 | 72 |



Operator ID: Date Acquired: 15 Jan 2002 3:10 pm
Data File: C:\MSDCHEM\1\5973N\02JAN15\00559.D
Name: 508 scan
Misc: January 15, 2002
Method: C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title: 508 scan method
Library Searched: C:\DATABASE\WILEY7N.L

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--- # | RT | Resp | Conc |
|---|---|---|---|---|---|---|---|---|
| Acetonitrile, dic... | 3.48 | 0.2 | ug/L | 54450 | 1 | 9.72 | 6172830 | 20.0 |
| 3,4-Dihydropyran ... | 4.83 | 0.2 | ug/L | 60803 | 1 | 9.72 | 6172830 | 20.0 |
| Silane, tetramethyl- | 5.89 | 4.3 | ug/L | 1315740 | 1 | 9.72 | 6172830 | 20.0 |
| 2-Propanol, 1-(2-... | 9.85 | 0.2 | ug/L | 55695 | 1 | 9.72 | 6172830 | 20.0 |
| Phenanthrene, 9-m... | 22.28 | 0.1 | ug/L | 69917 | 4 | 22.63 | 10566400 | 20.0 |
| Anthracene-d10- | 22.77 | 0.3 | ug/L | 159219 | 4 | 22.63 | 10566400 | 20.0 |