User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 06/07/2002 Time: 09:14:08

Sample: AE12157
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 6/7/02 09:13 Ended: 6/7/02 09:13 Analyst: DLV
Page: 1

| | Component Name | Vial | Result | Qualifier | MDL |
|---|---|---|---|---|---|
| 1 | Other unknown compounds | | . | | |
| 2 | Surr_2,4-DDD | | 83 | | 10.0 |

**Comments for Sample AE12157 - Analysis $GCMS**

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 06-07-2002 Time: 09:14:55

The GCMS scan, from 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.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAY2402\12157.D Vial: 11
Acq On : 25 May 2002 1:24 am Operator: Morgan
Sample : gc/ms scan 5/22 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 28 11:59 2002 Quant Results File: GCMS0520.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Tue May 28 11:39:13 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0520

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 12.14 | 152 | 545217 | 40.00 | ug/l | 0.00 |
| 10) Naphthalene-d8 | 15.77 | 136 | 2169899 | 40.00 | ug/l | -0.02 |
| 17) Acenaphthene-d10 | 21.08 | 164 | 1026024 | 40.00 | ug/l | 0.00 |
| 30) Phenanthrene-d10 | 25.52 | 188 | 1455816 | 40.00 | ug/l | 0.00 |
| 38) Chrysene-d12 | 33.58 | 240 | 723124 | 40.00 | ug/l | -0.03 |
| 44) Perylene-d12 | 37.78 | 264 | 474678 | 40.00 | ug/l | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 28) TCMX | 23.23 | 209 | 171002 | 33.16 | ug/L | 0.00 |
| Spiked Amount 40.000 | | | Recovery = 82.90% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) N-nitrosodimethylamine | 0.00 | 74 | 0 | N.D. | | |
| 3) bis(2-Chloroethyl)ether | 0.00 | 93 | 0 | N.D. | | |
| 4) 1,3-Dichlorobenzene | 12.13 | 146 | 228 | N.D. | | |
| 5) 1,4-Dichlorobenzene | 12.13 | 146 | 228 | N.D. | | |
| 6) 1,2-Dichlorobenzene | 0.00 | 146 | 0 | N.D. | | |
| 7) 2,2'-oxybis(1-Chloropropan | 0.00 | 45 | 0 | N.D. | | |
| 8) N-Nitrosodi-n-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)methane | 0.00 | 93 | 0 | N.D. | | |
| 14) 1,2,4-Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 15) Naphthalene | 15.84 | 128 | 210 | N.D. | | |
| 16) Hexachlorobutadiene | 0.00 | 225 | 0 | N.D. | | |
| 18) Hexachlorocyclopentadiene | 0.00 | 237 | 0 | N.D. | | |
| 19) 2-Chloronaphthalene | 0.00 | 162 | 0 | N.D. | | |
| 20) Dimethylphthalate | 20.45 | 163 | 192 | N.D. | | |
| 21) 2,6-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | | |
| 22) Acenaphthylene | 0.00 | 152 | 0 | N.D. | | |
| 23) Acenaphthene | 0.00 | 153 | 0 | N.D. | | |
| 24) 2,4-Dinitrotoluene | 0.00 | 165 | 0 | N.D. | | |
| 25) Diethylphthalate | 22.57 | 149 | 733 | N.D. | | |
| 26) 4-Chlorophenylphenylether | 23.23 | 204 | 1199 | N.D. | | |
| 27) Fluorene | 0.00 | 166 | 0 | N.D. | | |
| 29) Azobenzene | 0.00 | 77 | 0 | N.D. | | |
| 31) N-Nitrosodiphenylamine | 23.22 | 168 | 854 | N.D. | | |
| 32) 4-Bromophenylphenylether | 0.00 | 248 | 0 | N.D. | | |
| 33) Hexachlorobenzene | 0.00 | 284 | 0 | N.D. | | |
| 34) Phenanthrene | 25.59 | 178 | 659 | N.D. | | |

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\MAY2402\12157.D Vial: 11
Acq On : 25 May 2002 1:24 am Operator: Morgan
Sample : gc/ms scan 5/22 Inst : 209
Misc : Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 28 11:59 2002 Quant Results File: GCMS0520.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Tue May 28 11:39:13 2002
Response via : Initial Calibration
DataAcq Meth : GCMS0520

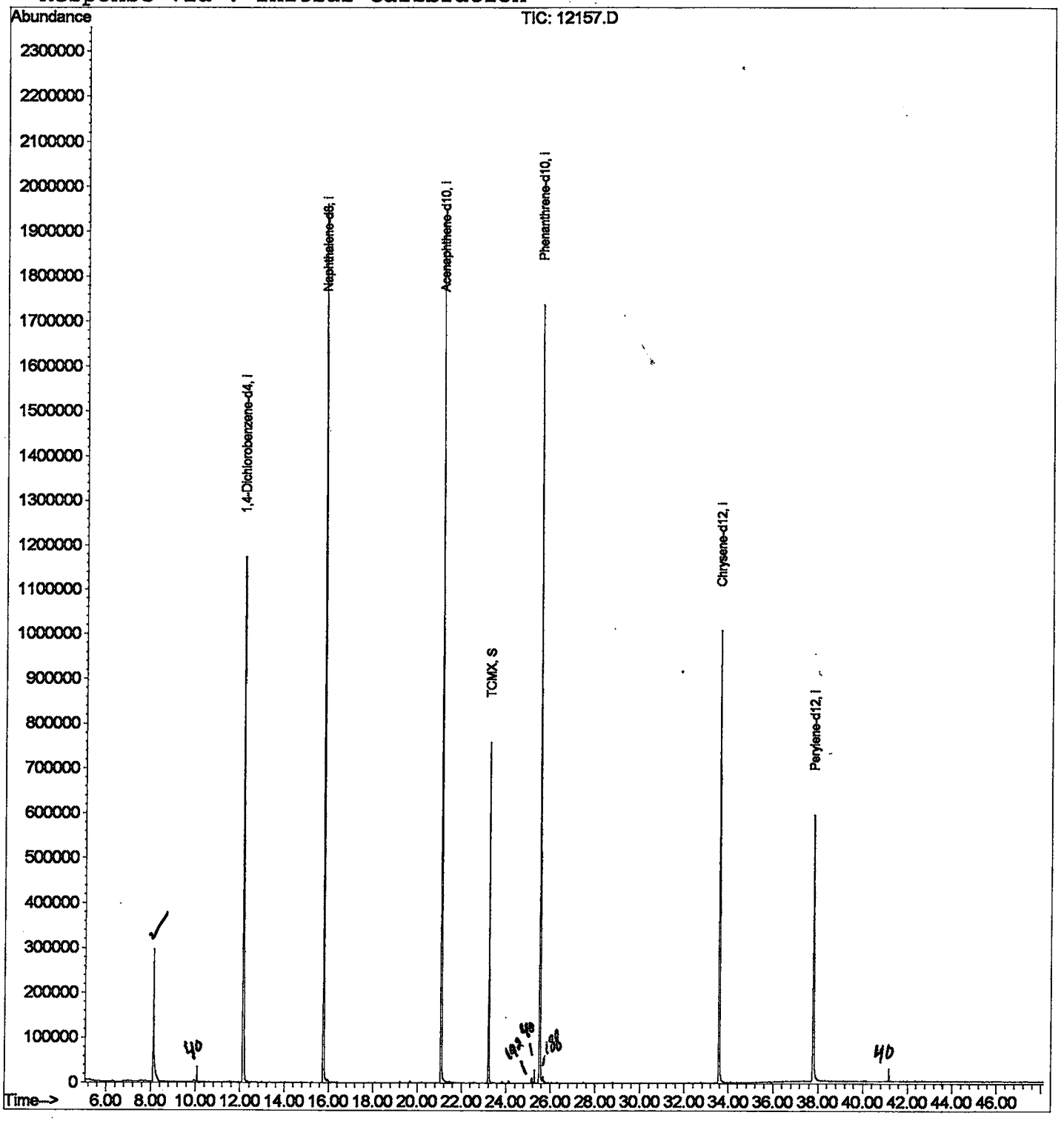
| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 35) Anthracene | 25.72 | 178 | 318 | N.D. | |
| 36) Di-n-butylphthalate | 27.50 | 149 | 1673 | N.D. | |
| 37) Fluoranthene | 29.22 | 202 | 439 | N.D. | |
| 39) Pyrene | 29.89 | 202 | 552 | N.D. | |
| 40) Butylbenzylphthalate | 0.00 | 149 | 0 | N.D. | |
| 41) Benzo(a)anthracene | 33.58 | 228 | 1552 | N.D. | |
| 42) Bis(2-ethylhexyl)phthalate | 33.80 | 149 | 658 | N.D. | |
| 43) Chrysene | 33.58 | 228 | 1552 | N.D. | |
| 45) Di-n-Octylphthalate | 0.00 | 149 | 0 | N.D. | |
| 46) Benzo(b)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 47) Benzo(k)fluoranthene | 0.00 | 252 | 0 | N.D. | |
| 48) Benzo(a)pyrene | 37.77 | 252 | 1876 | N.D. | |
| 49) Indeno(1,2,3-cd)pyrene | 0.00 | 276 | 0 | N.D. | |
| 50) Dibenz(a,h)anthracene | 0.00 | 278 | 0 | N.D. | |
| 51) Benzo(g,h,i)perylene | 0.00 | 276 | 0 | N.D. | |

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

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAY2402\12157.D  Vial: 11
Acq On : 25 May 2002 1:24 am  Operator: Morgan
Sample : gc/ms scan 5/22  Inst : 209
Misc :  Multiplr: 1.00
MS Integration Params: GOOFY.P
Quant Time: May 28 11:59 2002  Quant Results File: GCMS0520.RES

Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Tue May 28 11:39:13 2002
Response via : Initial Calibration



# LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\MAY2402\12157.D  Vial: 11
Acq On : 25 May 2002 1:24 am  Operator: Morgan
Sample : gc/ms scan 5/22  Inst : 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Smoothing : OFF  Filtering: 5
Sampling : 1  Min Area: 1 % of largest Peak
Start Thrs: 0.2  Max Peaks: 100
Stop Thrs : 0  Peak Location: TOP

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

Signal : TIC

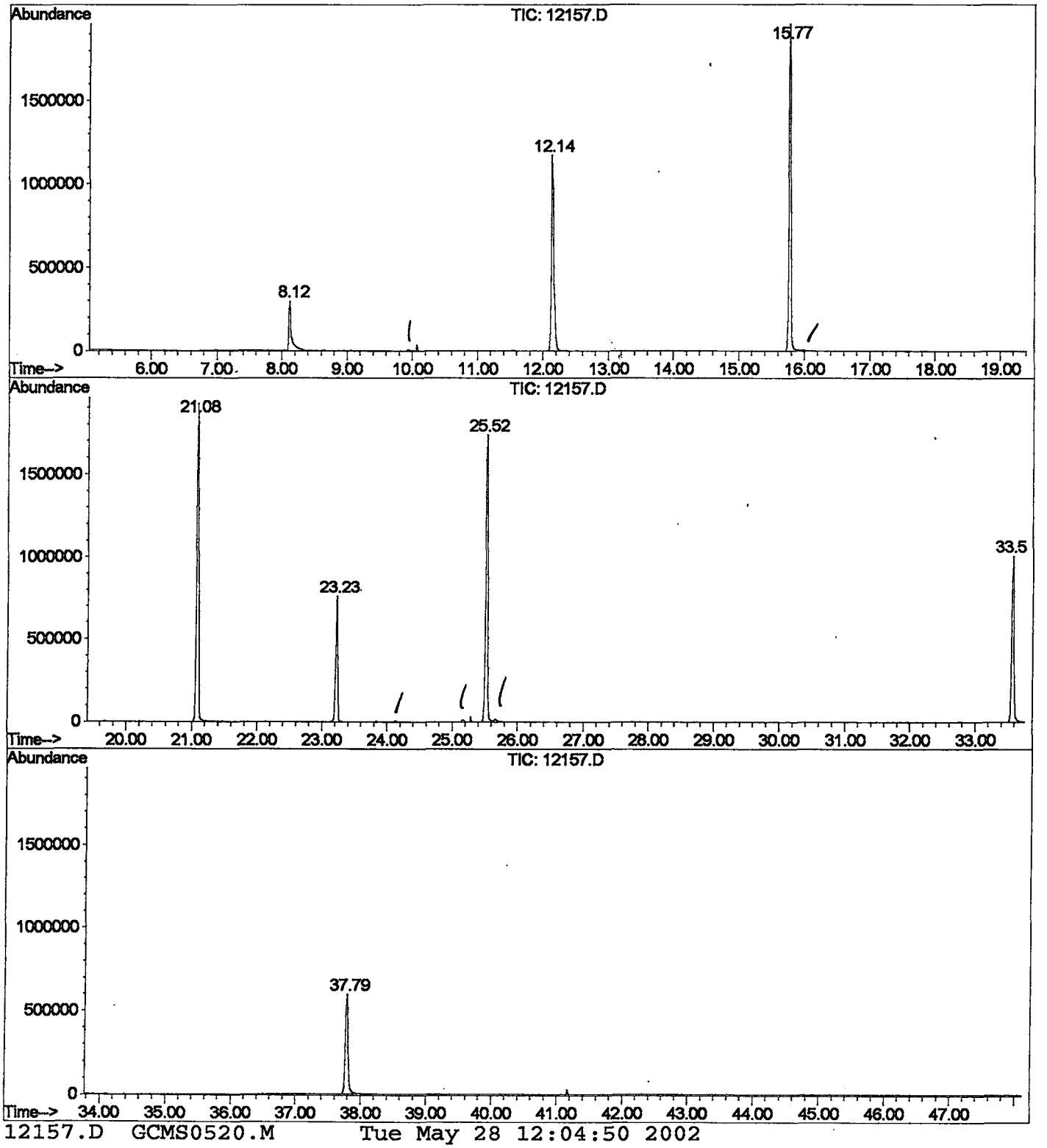
| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8.118 | 331 | 335 | 369 | rBV | 294944 | 791352 | 19.47% | 3.724% |
| 2 | 12.139 | 768 | 773 | 791 | rBV | 1171508 | 2951520 | 72.63% | 13.890% |
| 3 | 15.775 | 1163 | 1169 | 1185 | rBV | 1960121 | 4000581 | 98.44% | 18.827% |
| 4 | 21.081 | 1741 | 1747 | 1763 | rBV | 1925725 | 4064016 | 100.00% | 19.125% |
| 5 | 23.229 | 1973 | 1981 | 1994 | rVB | 758749 | 1619232 | 39.84% | 7.620% |
| 6 | 25.524 | 2224 | 2231 | 2243 | rBV2 | 1735676 | 3751379 | 92.31% | 17.654% |
| 7 | 33.575 | 3101 | 3108 | 3125 | rBV2 | 1007572 | 2305090 | 56.72% | 10.848% |
| 8 | 37.789 | 3559 | 3567 | 3579 | rBV2 | 591515 | 1766401 | 43.46% | 8.313% |

Sum of corrected areas: 21249571

12157.D GCMS0520.M Tue May 28 12:04:50 2002

# LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\MAY2402\12157.D
Operator : Morgan
Acquired : 25 May 2002 1:24 am using AcqMethod GCMS0520
Instrument : 209
Sample Name: gc/ms scan 5/22
Misc Info :
Vial Number: 11
Quant File :GCMS0520.RES (RTE Integrator)




12157.D GCMS0520.M Tue May 28 12:04:50 2002

# Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\MAY2402\12157.D  Vial: 11
Acq On : 25 May 2002 1:24 am  Operator: Morgan
Sample : gc/ms scan 5/22  Inst : 209
Misc :  Multiplr: 1.00
MS Integration Params: LSCINT.P

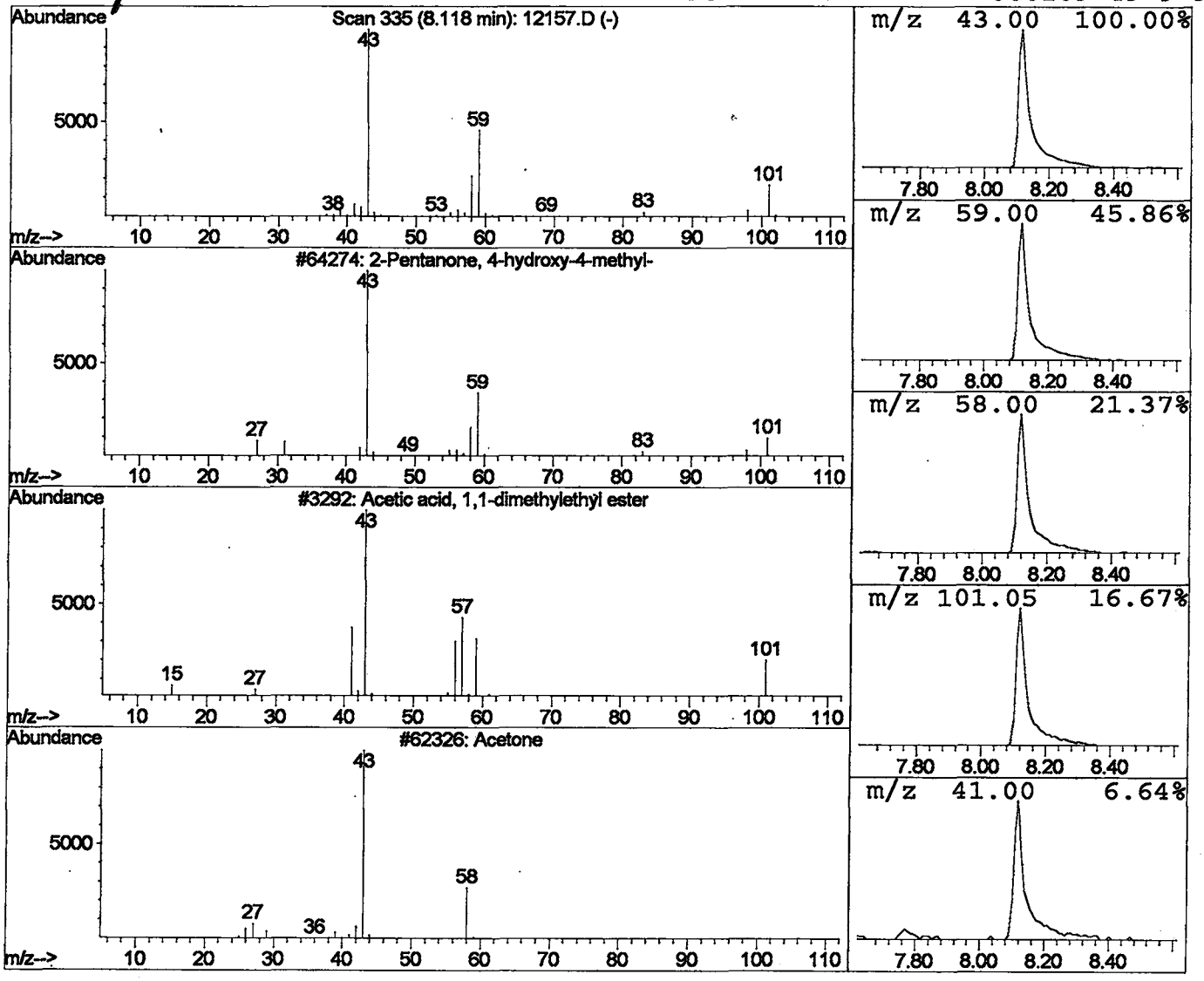
Quant Method : C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-methy Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.12 | 10.72 ug/l | 791352 | 1,4-Dichlorobenzene-d4 | 12.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 74 |
| 2 | Acetic acid, 1,1-dimethylethyl este | 116 | C6H12O2 | 000540-88-5 | 25 |
| 3 | Acetone | 58 | C3H6O | 000067-64-1 | 16 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



# Tentatively Identified Compound (LSC) summary

Operator ID: Morgan  Date Acquired: 25 May 2002  1:24 am
Data File: C:\HPCHEM\1\DATA\MAY2402\12157.D
Name: gc/ms scan 5/22
Misc:
Method: C:\HPCHEM\1\METHODS\GCMS0520.M (RTE Integrator)
Title: 209 625/TCLP calibration table
Library Searched: C:\DATABASE\NBS75K.L

| TIC Top Hit name | RT | EstConc | Units | Area | IntStd | ISRT | ISArea | ISConc |
|---|---|---|---|---|---|---|---|---|
| ~~2-Pentanone, 4-hydro~~ | 8.12 | 10.7 | ug/l | 791352 | ISTD01 | 12.14 | 2951520 | 40.0 |

12157.D  GCMS0520.M  Tue May 28 12:04:52 2002