

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD032719\  
 Data File : VD061371.D  
 Acq On : 28 Mar 2019 1:47  
 Operator : VA/AP  
 Sample : K1693-13RE  
 Misc : 6.16g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-01-032519-ARE

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Title : SW846 8260

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.789       | 35            | 37          | 39           | rBV2     | 1545           | 1911          | 1.98%           | 0.221%        |
| 2         | 1.848       | 42            | 43          | 46           | rBV2     | 1355           | 2239          | 2.32%           | 0.259%        |
| 3         | 1.995       | 56            | 58          | 61           | rBV3     | 1579           | 2744          | 2.84%           | 0.318%        |
| 4         | 2.114       | 67            | 70          | 73           | rVB2     | 767            | 1751          | 1.81%           | 0.203%        |
| 5         | 2.192       | 73            | 78          | 81           | rBV3     | 3152           | 8750          | 9.07%           | 1.013%        |
| 6         | 2.232       | 81            | 82          | 90           | rVB2     | 2429           | 6435          | 6.67%           | 0.745%        |
| 7         | 2.340       | 90            | 93          | 94           | rBV      | 1236           | 1886          | 1.95%           | 0.218%        |
| 8         | 2.537       | 111           | 113         | 115          | rBV2     | 1416           | 2381          | 2.47%           | 0.276%        |
| 9         | 2.606       | 118           | 120         | 121          | rVV      | 2407           | 2980          | 3.09%           | 0.345%        |
| 10        | 2.665       | 124           | 126         | 129          | rVB2     | 1320           | 2884          | 2.99%           | 0.334%        |
| 11        | 2.813       | 138           | 141         | 143          | rBV2     | 1448           | 2891          | 3.00%           | 0.335%        |
| 12        | 3.196       | 176           | 180         | 186          | rBV2     | 6955           | 21598         | 22.38%          | 2.499%        |
| 13        | 3.344       | 188           | 195         | 197          | rVB3     | 1759           | 5324          | 5.52%           | 0.616%        |
| 14        | 3.443       | 203           | 205         | 208          | rBV      | 1480           | 2657          | 2.75%           | 0.307%        |
| 15        | 3.502       | 208           | 211         | 213          | rVB2     | 1253           | 1996          | 2.07%           | 0.231%        |
| 16        | 3.620       | 220           | 223         | 226          | rBV2     | 1468           | 2894          | 3.00%           | 0.335%        |
| 17        | 3.797       | 235           | 241         | 245          | rBV3     | 4228           | 9291          | 9.63%           | 1.075%        |
| 18        | 4.949       | 355           | 358         | 360          | rVB2     | 1019           | 1954          | 2.03%           | 0.226%        |
| 19        | 4.998       | 360           | 363         | 366          | rBV2     | 1524           | 4322          | 4.48%           | 0.500%        |
| 20        | 5.156       | 377           | 379         | 381          | rBV      | 1000           | 1747          | 1.81%           | 0.202%        |
| 21        | 5.490       | 410           | 413         | 416          | rVB2     | 1117           | 2582          | 2.68%           | 0.299%        |
| 22        | 5.530       | 416           | 417         | 420          | rBV      | 1267           | 2275          | 2.36%           | 0.263%        |
| 23        | 5.628       | 424           | 427         | 429          | rBV      | 1056           | 2203          | 2.28%           | 0.255%        |
| 24        | 5.697       | 432           | 434         | 438          | rBV      | 1095           | 2321          | 2.41%           | 0.269%        |
| 25        | 6.032       | 466           | 468         | 469          | rBV      | 1834           | 2005          | 2.08%           | 0.232%        |
| 26        | 6.130       | 474           | 478         | 479          | rVB2     | 1106           | 2165          | 2.24%           | 0.251%        |
| 27        | 6.169       | 479           | 482         | 484          | rBV2     | 1316           | 2213          | 2.29%           | 0.256%        |
| 28        | 6.219       | 484           | 487         | 488          | rBV      | 1677           | 1851          | 1.92%           | 0.214%        |
| 29        | 6.258       | 488           | 491         | 493          | rVB      | 1144           | 1786          | 1.85%           | 0.207%        |
| 30        | 6.307       | 493           | 496         | 499          | rBV2     | 1689           | 3707          | 3.84%           | 0.429%        |
| 31        | 6.603       | 524           | 526         | 528          | rBV      | 1426           | 2351          | 2.44%           | 0.272%        |
| 32        | 6.701       | 533           | 536         | 538          | rBV      | 1258           | 2451          | 2.54%           | 0.284%        |
| 33        | 6.888       | 549           | 555         | 563          | rBV2     | 23061          | 64991         | 67.36%          | 7.521%        |
| 34        | 7.016       | 563           | 568         | 576          | rVV3     | 17176          | 46267         | 47.95%          | 5.354%        |

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 Max Peaks: 100  
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Title : SW846 8260

|    |        |      |      |           |       |       |         |         |
|----|--------|------|------|-----------|-------|-------|---------|---------|
| 35 | 7.154  | 580  | 582  | 585 rVB   | 1172  | 1940  | 2.01%   | 0.224%  |
| 36 | 7.203  | 585  | 587  | 588 rBV   | 1510  | 1738  | 1.80%   | 0.201%  |
| 37 | 7.361  | 601  | 603  | 605 rVB   | 1300  | 1835  | 1.90%   | 0.212%  |
| 38 | 7.420  | 605  | 609  | 616 rBV   | 18722 | 47868 | 49.61%  | 5.539%  |
| 39 | 7.656  | 629  | 633  | 635 rVV   | 1525  | 3175  | 3.29%   | 0.367%  |
| 40 | 7.686  | 635  | 636  | 640 rVB   | 1050  | 2287  | 2.37%   | 0.265%  |
| 41 | 7.941  | 660  | 662  | 665 rBV2  | 1081  | 1857  | 1.92%   | 0.215%  |
| 42 | 8.119  | 677  | 680  | 681 rVB   | 1337  | 2196  | 2.28%   | 0.254%  |
| 43 | 8.188  | 681  | 687  | 696 rBV   | 37064 | 87455 | 90.64%  | 10.120% |
| 44 | 8.719  | 738  | 741  | 743 rBV2  | 1204  | 1987  | 2.06%   | 0.230%  |
| 45 | 8.946  | 763  | 764  | 767 rVV   | 1606  | 2269  | 2.35%   | 0.263%  |
| 46 | 9.231  | 789  | 793  | 794 rBV   | 1016  | 2177  | 2.26%   | 0.252%  |
| 47 | 9.261  | 794  | 796  | 801 rVB2  | 1163  | 3392  | 3.52%   | 0.393%  |
| 48 | 9.920  | 861  | 863  | 866 rVB2  | 1273  | 2226  | 2.31%   | 0.258%  |
| 49 | 10.009 | 869  | 872  | 873 rVB2  | 1245  | 1771  | 1.84%   | 0.205%  |
| 50 | 10.088 | 878  | 880  | 881 rBV   | 1379  | 1939  | 2.01%   | 0.224%  |
| 51 | 10.383 | 905  | 910  | 916 rBV   | 34772 | 74358 | 77.07%  | 8.604%  |
| 52 | 10.481 | 916  | 920  | 922 rVB2  | 1985  | 3716  | 3.85%   | 0.430%  |
| 53 | 10.649 | 934  | 937  | 938 rVB   | 1760  | 2445  | 2.53%   | 0.283%  |
| 54 | 10.668 | 938  | 939  | 941 rBV   | 1739  | 1943  | 2.01%   | 0.225%  |
| 55 | 10.708 | 941  | 943  | 946 rBV   | 1232  | 2089  | 2.17%   | 0.242%  |
| 56 | 11.033 | 973  | 976  | 978 rBV   | 1273  | 2124  | 2.20%   | 0.246%  |
| 57 | 11.141 | 985  | 987  | 989 rBV   | 1554  | 2030  | 2.10%   | 0.235%  |
| 58 | 11.210 | 989  | 994  | 1000 rVV2 | 5531  | 16710 | 17.32%  | 1.934%  |
| 59 | 11.387 | 1009 | 1012 | 1015 rVB2 | 1548  | 3278  | 3.40%   | 0.379%  |
| 60 | 11.436 | 1015 | 1017 | 1020 rBV  | 1546  | 2412  | 2.50%   | 0.279%  |
| 61 | 11.722 | 1044 | 1046 | 1049 rVB  | 1436  | 1850  | 1.92%   | 0.214%  |
| 62 | 11.791 | 1049 | 1053 | 1054 rBV  | 1291  | 2062  | 2.14%   | 0.239%  |
| 63 | 12.027 | 1074 | 1077 | 1078 rBV2 | 1188  | 2234  | 2.32%   | 0.259%  |
| 64 | 12.056 | 1078 | 1080 | 1086 rVB2 | 988   | 2168  | 2.25%   | 0.251%  |
| 65 | 12.224 | 1095 | 1097 | 1100 rVB2 | 1421  | 2418  | 2.51%   | 0.280%  |
| 66 | 12.303 | 1100 | 1105 | 1106 rBV  | 1019  | 2543  | 2.64%   | 0.294%  |
| 67 | 12.342 | 1106 | 1109 | 1116 rBV  | 58095 | 96486 | 100.00% | 11.165% |
| 68 | 12.499 | 1124 | 1125 | 1127 rVB  | 1803  | 1831  | 1.90%   | 0.212%  |
| 69 | 12.549 | 1127 | 1130 | 1131 rBV  | 1318  | 2677  | 2.77%   | 0.310%  |
| 70 | 12.647 | 1136 | 1140 | 1142 rVV2 | 1492  | 3484  | 3.61%   | 0.403%  |
| 71 | 12.814 | 1156 | 1157 | 1160 rBV  | 1266  | 1779  | 1.84%   | 0.206%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Title : SW846 8260

|     |        |      |      |      |      |       |       |        |         |
|-----|--------|------|------|------|------|-------|-------|--------|---------|
| 72  | 12.962 | 1168 | 1172 | 1174 | rVB2 | 1280  | 2706  | 2.80%  | 0.313%  |
| 73  | 13.218 | 1197 | 1198 | 1200 | rBV  | 1335  | 1894  | 1.96%  | 0.219%  |
| 74  | 13.385 | 1211 | 1215 | 1216 | rBV2 | 1495  | 2607  | 2.70%  | 0.302%  |
| 75  | 13.474 | 1219 | 1224 | 1226 | rBV2 | 1300  | 2899  | 3.00%  | 0.335%  |
| 76  | 13.533 | 1228 | 1230 | 1235 | rBV  | 45789 | 68410 | 70.90% | 7.916%  |
| 77  | 13.700 | 1246 | 1247 | 1249 | rVB  | 2075  | 1854  | 1.92%  | 0.215%  |
| 78  | 13.759 | 1249 | 1253 | 1255 | rBV2 | 1652  | 3414  | 3.54%  | 0.395%  |
| 79  | 14.350 | 1311 | 1313 | 1315 | rVB2 | 2054  | 2519  | 2.61%  | 0.291%  |
| 80  | 14.390 | 1315 | 1317 | 1319 | rBV2 | 1140  | 2515  | 2.61%  | 0.291%  |
| 81  | 14.439 | 1319 | 1322 | 1323 | rVV2 | 3418  | 4504  | 4.67%  | 0.521%  |
| 82  | 14.498 | 1326 | 1328 | 1333 | rVV  | 67686 | 92463 | 95.83% | 10.699% |
| 83  | 14.616 | 1337 | 1340 | 1341 | rBV  | 2677  | 2207  | 2.29%  | 0.255%  |
| 84  | 14.695 | 1347 | 1348 | 1350 | rBV2 | 1517  | 1758  | 1.82%  | 0.203%  |
| 85  | 14.783 | 1355 | 1357 | 1362 | rVB3 | 4097  | 7034  | 7.29%  | 0.814%  |
| 86  | 14.852 | 1362 | 1364 | 1366 | rBV2 | 1029  | 1843  | 1.91%  | 0.213%  |
| 87  | 15.236 | 1402 | 1403 | 1406 | rVB  | 1101  | 1786  | 1.85%  | 0.207%  |
| 88  | 15.384 | 1415 | 1418 | 1422 | rBV2 | 871   | 2612  | 2.71%  | 0.302%  |
| 89  | 15.650 | 1444 | 1445 | 1448 | rVB2 | 3658  | 4710  | 4.88%  | 0.545%  |
| 90  | 15.807 | 1457 | 1461 | 1464 | rBV2 | 1310  | 3424  | 3.55%  | 0.396%  |
| 91  | 15.925 | 1472 | 1473 | 1476 | rVB  | 3432  | 3547  | 3.68%  | 0.410%  |
| 92  | 16.112 | 1489 | 1492 | 1495 | rVB2 | 3771  | 5531  | 5.73%  | 0.640%  |
| 93  | 16.181 | 1495 | 1499 | 1500 | rVB  | 1450  | 2155  | 2.23%  | 0.249%  |
| 94  | 16.201 | 1500 | 1501 | 1505 | rBV2 | 1191  | 2310  | 2.39%  | 0.267%  |
| 95  | 16.368 | 1511 | 1518 | 1519 | rBV2 | 1453  | 4127  | 4.28%  | 0.478%  |
| 96  | 16.477 | 1526 | 1529 | 1530 | rVB2 | 1839  | 2381  | 2.47%  | 0.276%  |
| 97  | 17.225 | 1600 | 1605 | 1607 | rBV2 | 877   | 2556  | 2.65%  | 0.296%  |
| 98  | 17.363 | 1618 | 1619 | 1623 | rVB  | 1104  | 1971  | 2.04%  | 0.228%  |
| 99  | 17.530 | 1632 | 1636 | 1638 | rBV  | 802   | 1855  | 1.92%  | 0.215%  |
| 100 | 17.865 | 1668 | 1670 | 1674 | rVB  | 1253  | 2040  | 2.11%  | 0.236%  |

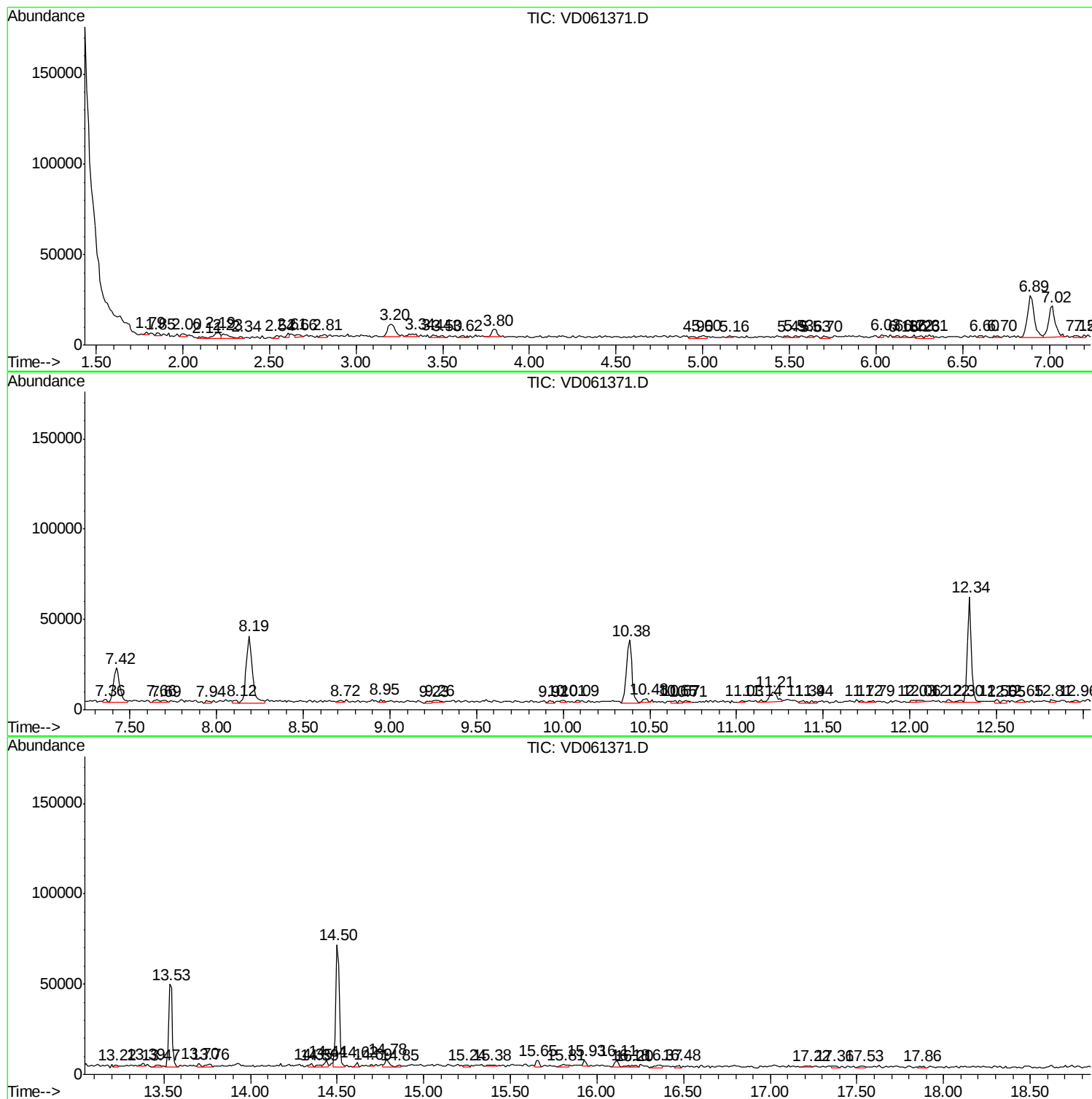
Sum of corrected areas: 864184

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD032719\  
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\*\*\*\*\*  
Peak Number 1 unknown2.19 Concentration Rank 1

| R.T.    | EstConc   | Area                     | Relative to ISTD   | R.T.          |
|---------|-----------|--------------------------|--------------------|---------------|
| 2.19    | 9.46 ug/l | 8750                     | Pentafluorobenzene | 7.01          |
| Hit# of | 5         | Tentative ID             | MW MolForm         | CAS# Qual     |
| 1       |           | Formic acid hydrazide    | 60 CH4N2O          | 000624-84-0 4 |
| 2       |           | Urea                     | 60 CH4N2O          | 000057-13-6 2 |
| 3       |           | Hydrazine, 1,1-dimethyl- | 60 C2H8N2          | 000057-14-7 2 |
| 4       |           | Carbonyl sulfide         | 60 COS             | 000463-58-1 2 |
| 5       |           | Ethylenediamine          | 60 C2H8N2          | 000107-15-3 2 |

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Peak Number 2 Carbon dioxide Concentration Rank 3

| R.T.    | EstConc   | Area            | Relative to ISTD   | R.T.          |
|---------|-----------|-----------------|--------------------|---------------|
| 2.23    | 6.95 ug/l | 6435            | Pentafluorobenzene | 7.01          |
| Hit# of | 5         | Tentative ID    | MW MolForm         | CAS# Qual     |
| 1       |           | Carbon dioxide  | 44 CO2             | 000124-38-9 2 |
| 2       |           | Acetaldehyde    | 44 C2H4O           | 000075-07-0 2 |
| 3       |           | Nitrous oxide   | 44 N2O             | 010024-97-2 2 |
| 4       |           | Ethyne, fluoro- | 44 C2HF            | 002713-09-9 2 |
| 5       |           | Ethylene oxide  | 44 C2H4O           | 000075-21-8 2 |

\*\*\*\*\*  
Peak Number 3 unknown3.34 Concentration Rank 4

| R.T.    | EstConc   | Area                                | Relative to ISTD   | R.T.           |
|---------|-----------|-------------------------------------|--------------------|----------------|
| 3.34    | 5.75 ug/l | 5324                                | Pentafluorobenzene | 7.01           |
| Hit# of | 5         | Tentative ID                        | MW MolForm         | CAS# Qual      |
| 1       |           | 1H-Pyrazole-3-acetic acid, 2,5-d... | 142 C5H6N2O3       | 1000362-41-0 2 |
| 2       |           | 3-Hexenoic acid, ethyl ester        | 142 C8H14O2        | 002396-83-0 2  |
| 3       |           | Sydnone, 3-(1,1-dimethylethyl)-     | 142 C6H10N2O2      | 006939-25-9 1  |
| 4       |           | Ethylene oxide                      | 44 C2H4O           | 000075-21-8 1  |
| 5       |           | Acetaldehyde                        | 44 C2H4O           | 000075-07-0 1  |

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Peak Number 4 Cyclotrisiloxane, hexamethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|---------|------|------------------|------|
|------|---------|------|------------------|------|

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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

|       |           |       |                                     |       |              |                |
|-------|-----------|-------|-------------------------------------|-------|--------------|----------------|
| ----- |           |       |                                     |       |              |                |
| 11.21 | 8.66 ug/l | 16710 | Chlorobenzene-d5                    | 12.34 |              |                |
| Hit#  | of        | 5     | Tentative ID                        | MW    | MolForm      | CAS# Qual      |
| ----- |           |       |                                     |       |              |                |
| 1     |           |       | Cyclotrisiloxane, hexamethyl-       | 222   | C6H18O3Si3   | 000541-05-9 64 |
| 2     |           |       | Arsenous acid, tris(trimethylsil... | 342   | C9H27AsO3Si3 | 055429-29-3 50 |
| 3     |           |       | 1,2-Benzisothiazole-3-acetic aci... | 207   | C10H9NO2S    | 029876-70-8 9  |
| 4     |           |       | o-(p-Tolyl) 1-azetidinecarbothioate | 207   | C11H13NOS    | 010560-24-4 9  |
| 5     |           |       | Benzo[h]quinoline, 2,4-dimethyl-    | 207   | C15H13N      | 000605-67-4 9  |

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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |       |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|-------|------|
|                      |       |         |       |          | #                       | RT    | Resp  | Conc |
| unknown2.19          | 2.19  | 9.5     | ug/l  | 8750     | 1                       | 7.01  | 46267 | 50.0 |
| Carbon dioxide       | 2.23  | 7.0     | ug/l  | 6435     | 1                       | 7.01  | 46267 | 50.0 |
| unknown3.34          | 3.34  | 5.8     | ug/l  | 5324     | 1                       | 7.01  | 46267 | 50.0 |
| Cyclotrisiloxane,... | 11.21 | 8.7     | ug/l  | 16710    | 3                       | 12.34 | 96486 | 50.0 |