

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032519\  
 Data File : VW009425.D  
 Acq On : 25 Mar 2019 13:52  
 Operator : SY/VA  
 Sample : K2031-17  
 Misc : 5.92G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5S7

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0 % 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\_W\METHOD\SOM2WLM031419S.M  
 Title : VOC Analysis

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         | 1.965       | 6             | 10          | 11           | rBV3     | 3032           | 3870          | 0.26%           | 0.033%        |
| 2         | 1.995       | 11            | 15          | 22           | rVB2     | 7259           | 18460         | 1.22%           | 0.159%        |
| 3         | 2.154       | 39            | 41          | 47           | rVB4     | 4399           | 6055          | 0.40%           | 0.052%        |
| 4         | 2.355       | 68            | 74          | 85           | rBV      | 82452          | 190435        | 12.59%          | 1.645%        |
| 5         | 2.891       | 156           | 162         | 174          | rVB      | 78668          | 212227        | 14.04%          | 1.834%        |
| 6         | 3.769       | 305           | 306         | 308          | rBV2     | 2824           | 2469          | 0.16%           | 0.021%        |
| 7         | 4.007       | 336           | 345         | 358          | rVV2     | 148376         | 496545        | 32.84%          | 4.290%        |
| 8         | 4.379       | 397           | 406         | 414          | rVV3     | 11008          | 38241         | 2.53%           | 0.330%        |
| 9         | 4.586       | 438           | 440         | 442          | rVV      | 1962           | 2051          | 0.14%           | 0.018%        |
| 10        | 4.641       | 446           | 449         | 453          | rVV4     | 1441           | 2383          | 0.16%           | 0.021%        |
| 11        | 4.794       | 470           | 474         | 476          | rBV      | 1706           | 2260          | 0.15%           | 0.020%        |
| 12        | 4.842       | 478           | 482         | 483          | rBV2     | 1985           | 2837          | 0.19%           | 0.025%        |
| 13        | 4.909       | 483           | 493         | 511          | rVV2     | 33960          | 126897        | 8.39%           | 1.096%        |
| 14        | 5.129       | 526           | 529         | 530          | rBV      | 2308           | 1977          | 0.13%           | 0.017%        |
| 15        | 5.172       | 532           | 536         | 539          | rBV3     | 1282           | 1992          | 0.13%           | 0.017%        |
| 16        | 5.245       | 546           | 548         | 552          | rBV2     | 1575           | 2557          | 0.17%           | 0.022%        |
| 17        | 5.379       | 566           | 570         | 572          | rVB      | 1759           | 2322          | 0.15%           | 0.020%        |
| 18        | 5.422       | 572           | 577         | 578          | rBV      | 2180           | 2893          | 0.19%           | 0.025%        |
| 19        | 5.440       | 578           | 580         | 584          | rVV      | 2044           | 2161          | 0.14%           | 0.019%        |
| 20        | 5.482       | 584           | 587         | 590          | rVB      | 2167           | 2308          | 0.15%           | 0.020%        |
| 21        | 5.739       | 627           | 629         | 631          | rBV      | 1906           | 2174          | 0.14%           | 0.019%        |
| 22        | 5.775       | 631           | 635         | 636          | rBV      | 4909           | 5135          | 0.34%           | 0.044%        |
| 23        | 5.934       | 653           | 661         | 672          | rVB6     | 9361           | 30773         | 2.04%           | 0.266%        |
| 24        | 6.025       | 672           | 676         | 678          | rBV      | 2286           | 3186          | 0.21%           | 0.028%        |
| 25        | 6.117       | 689           | 691         | 694          | rVV2     | 1916           | 2132          | 0.14%           | 0.018%        |
| 26        | 6.586       | 765           | 768         | 770          | rVB      | 2365           | 2772          | 0.18%           | 0.024%        |
| 27        | 6.610       | 770           | 772         | 773          | rBV      | 1963           | 1912          | 0.13%           | 0.017%        |
| 28        | 6.732       | 790           | 792         | 795          | rVB      | 2716           | 2344          | 0.16%           | 0.020%        |
| 29        | 6.757       | 795           | 796         | 798          | rBV      | 2642           | 2105          | 0.14%           | 0.018%        |
| 30        | 6.879       | 815           | 816         | 819          | rBV3     | 2355           | 3011          | 0.20%           | 0.026%        |
| 31        | 7.080       | 841           | 849         | 858          | rVV      | 44020          | 126746        | 8.38%           | 1.095%        |
| 32        | 7.147       | 858           | 860         | 861          | rVV2     | 4290           | 3832          | 0.25%           | 0.033%        |
| 33        | 7.171       | 861           | 864         | 870          | rVB4     | 5152           | 11570         | 0.77%           | 0.100%        |
| 34        | 7.513       | 917           | 920         | 922          | rBV      | 2224           | 2587          | 0.17%           | 0.022%        |

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 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\_W\METHOD\SOM2WLM031419S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 7.647  | 931  | 942  | 953  | rBV  | 296204 | 722301  | 47.77%  | 6.241%  |
| 36 | 7.958  | 992  | 993  | 996  | rBV  | 2810   | 2321    | 0.15%   | 0.020%  |
| 37 | 8.031  | 1003 | 1005 | 1007 | rBV  | 2840   | 2418    | 0.16%   | 0.021%  |
| 38 | 8.134  | 1020 | 1022 | 1026 | rBV2 | 2534   | 3663    | 0.24%   | 0.032%  |
| 39 | 8.275  | 1033 | 1045 | 1061 | rBV2 | 504114 | 1512115 | 100.00% | 13.065% |
| 40 | 8.458  | 1071 | 1075 | 1077 | rVB  | 2723   | 2964    | 0.20%   | 0.026%  |
| 41 | 8.506  | 1077 | 1083 | 1084 | rBV2 | 2136   | 3699    | 0.24%   | 0.032%  |
| 42 | 8.567  | 1084 | 1093 | 1096 | rBV3 | 2252   | 6239    | 0.41%   | 0.054%  |
| 43 | 8.842  | 1129 | 1138 | 1147 | rBV  | 564294 | 1105992 | 73.14%  | 9.556%  |
| 44 | 8.903  | 1147 | 1148 | 1153 | rVB  | 3060   | 3404    | 0.23%   | 0.029%  |
| 45 | 9.031  | 1165 | 1169 | 1170 | rBV2 | 3609   | 5069    | 0.34%   | 0.044%  |
| 46 | 9.073  | 1174 | 1176 | 1178 | rVV3 | 3323   | 3147    | 0.21%   | 0.027%  |
| 47 | 9.122  | 1181 | 1184 | 1187 | rVB2 | 2123   | 2818    | 0.19%   | 0.024%  |
| 48 | 9.274  | 1201 | 1209 | 1218 | rBV  | 370955 | 745084  | 49.27%  | 6.438%  |
| 49 | 9.415  | 1226 | 1232 | 1234 | rBV3 | 2379   | 4320    | 0.29%   | 0.037%  |
| 50 | 9.543  | 1250 | 1253 | 1256 | rBV2 | 1699   | 2395    | 0.16%   | 0.021%  |
| 51 | 9.591  | 1259 | 1261 | 1266 | rVB2 | 1808   | 2867    | 0.19%   | 0.025%  |
| 52 | 9.780  | 1291 | 1292 | 1296 | rBV  | 2069   | 2516    | 0.17%   | 0.022%  |
| 53 | 9.884  | 1305 | 1309 | 1313 | rBV5 | 4259   | 6349    | 0.42%   | 0.055%  |
| 54 | 9.963  | 1320 | 1322 | 1325 | rVB  | 2419   | 2755    | 0.18%   | 0.024%  |
| 55 | 10.037 | 1325 | 1334 | 1344 | rBV  | 181871 | 345385  | 22.84%  | 2.984%  |
| 56 | 10.250 | 1365 | 1369 | 1371 | rVB2 | 1846   | 2292    | 0.15%   | 0.020%  |
| 57 | 10.323 | 1374 | 1381 | 1390 | rBV  | 688281 | 1184293 | 78.32%  | 10.233% |
| 58 | 10.384 | 1390 | 1391 | 1395 | rVB2 | 3208   | 2296    | 0.15%   | 0.020%  |
| 59 | 10.506 | 1407 | 1411 | 1413 | rVV  | 2164   | 2650    | 0.18%   | 0.023%  |
| 60 | 10.579 | 1416 | 1423 | 1430 | rBV  | 123689 | 216687  | 14.33%  | 1.872%  |
| 61 | 10.689 | 1440 | 1441 | 1444 | rVV2 | 1817   | 1952    | 0.13%   | 0.017%  |
| 62 | 10.756 | 1449 | 1452 | 1454 | rBV2 | 1925   | 2549    | 0.17%   | 0.022%  |
| 63 | 10.853 | 1462 | 1468 | 1474 | rBV9 | 6377   | 17252   | 1.14%   | 0.149%  |
| 64 | 10.927 | 1474 | 1480 | 1489 | rBV  | 182329 | 305256  | 20.19%  | 2.638%  |
| 65 | 11.073 | 1501 | 1504 | 1508 | rVB5 | 6392   | 8892    | 0.59%   | 0.077%  |
| 66 | 11.274 | 1533 | 1537 | 1540 | rBV3 | 1688   | 2727    | 0.18%   | 0.024%  |
| 67 | 11.518 | 1575 | 1577 | 1579 | rBV3 | 2243   | 1980    | 0.13%   | 0.017%  |
| 68 | 11.634 | 1589 | 1596 | 1605 | rVB  | 773272 | 1302929 | 86.17%  | 11.258% |
| 69 | 12.189 | 1685 | 1687 | 1690 | rVB  | 2119   | 2096    | 0.14%   | 0.018%  |
| 70 | 12.256 | 1697 | 1698 | 1702 | rVB  | 3711   | 3054    | 0.20%   | 0.026%  |
| 71 | 12.298 | 1702 | 1705 | 1707 | rBV2 | 2810   | 3590    | 0.24%   | 0.031%  |

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## Integration Parameters: LSCINT.P

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 Smoothing : OFF  
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 Start Thrs: 0.2  
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Filtering: 5  
 Min Area: 0 % 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\_W\METHOD\SOM2WLM031419S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 12.335 | 1710 | 1711 | 1717 | rVB2 | 3158   | 3891    | 0.26%  | 0.034% |
| 73  | 12.445 | 1725 | 1729 | 1730 | rBV  | 2159   | 2719    | 0.18%  | 0.023% |
| 74  | 12.475 | 1732 | 1734 | 1736 | rVV  | 3405   | 2534    | 0.17%  | 0.022% |
| 75  | 12.615 | 1752 | 1757 | 1760 | rVV3 | 8476   | 11510   | 0.76%  | 0.099% |
| 76  | 12.695 | 1763 | 1770 | 1778 | rVB  | 284251 | 456558  | 30.19% | 3.945% |
| 77  | 12.902 | 1801 | 1804 | 1806 | rBV2 | 1838   | 2121    | 0.14%  | 0.018% |
| 78  | 12.932 | 1808 | 1809 | 1812 | rBV3 | 2498   | 2623    | 0.17%  | 0.023% |
| 79  | 13.134 | 1837 | 1842 | 1845 | rBV  | 2173   | 3094    | 0.20%  | 0.027% |
| 80  | 13.292 | 1864 | 1868 | 1872 | rVV6 | 2303   | 3009    | 0.20%  | 0.026% |
| 81  | 13.402 | 1882 | 1886 | 1892 | rBV6 | 6729   | 12547   | 0.83%  | 0.108% |
| 82  | 13.469 | 1892 | 1897 | 1903 | rBV2 | 42416  | 70739   | 4.68%  | 0.611% |
| 83  | 13.560 | 1905 | 1912 | 1919 | rVV  | 724504 | 1120518 | 74.10% | 9.682% |
| 84  | 13.701 | 1932 | 1935 | 1936 | rBV2 | 2043   | 1861    | 0.12%  | 0.016% |
| 85  | 13.853 | 1953 | 1960 | 1967 | rBV  | 560451 | 939807  | 62.15% | 8.120% |
| 86  | 13.950 | 1974 | 1976 | 1979 | rVB4 | 2696   | 2788    | 0.18%  | 0.024% |
| 87  | 14.072 | 1994 | 1996 | 2000 | rVV4 | 3793   | 5213    | 0.34%  | 0.045% |
| 88  | 14.261 | 2025 | 2027 | 2033 | rVB3 | 2535   | 4178    | 0.28%  | 0.036% |
| 89  | 14.335 | 2034 | 2039 | 2046 | rVB5 | 8994   | 16590   | 1.10%  | 0.143% |
| 90  | 14.536 | 2070 | 2072 | 2076 | rVB  | 2958   | 2020    | 0.13%  | 0.017% |
| 91  | 14.621 | 2083 | 2086 | 2087 | rBV  | 3472   | 3128    | 0.21%  | 0.027% |
| 92  | 15.127 | 2167 | 2169 | 2172 | rVV3 | 2975   | 3847    | 0.25%  | 0.033% |
| 93  | 15.182 | 2175 | 2178 | 2185 | rVB7 | 6856   | 12215   | 0.81%  | 0.106% |
| 94  | 15.401 | 2211 | 2214 | 2215 | rBV2 | 3343   | 3260    | 0.22%  | 0.028% |
| 95  | 15.804 | 2278 | 2280 | 2285 | rVB5 | 4254   | 5124    | 0.34%  | 0.044% |
| 96  | 15.846 | 2285 | 2287 | 2291 | rBV2 | 2352   | 2819    | 0.19%  | 0.024% |
| 97  | 15.950 | 2302 | 2304 | 2307 | rBV  | 1879   | 1981    | 0.13%  | 0.017% |
| 98  | 16.145 | 2333 | 2336 | 2337 | rBV3 | 2268   | 2057    | 0.14%  | 0.018% |
| 99  | 16.359 | 2368 | 2371 | 2373 | rBV3 | 2282   | 3510    | 0.23%  | 0.030% |
| 100 | 16.432 | 2380 | 2383 | 2385 | rBV  | 2006   | 1875    | 0.12%  | 0.016% |

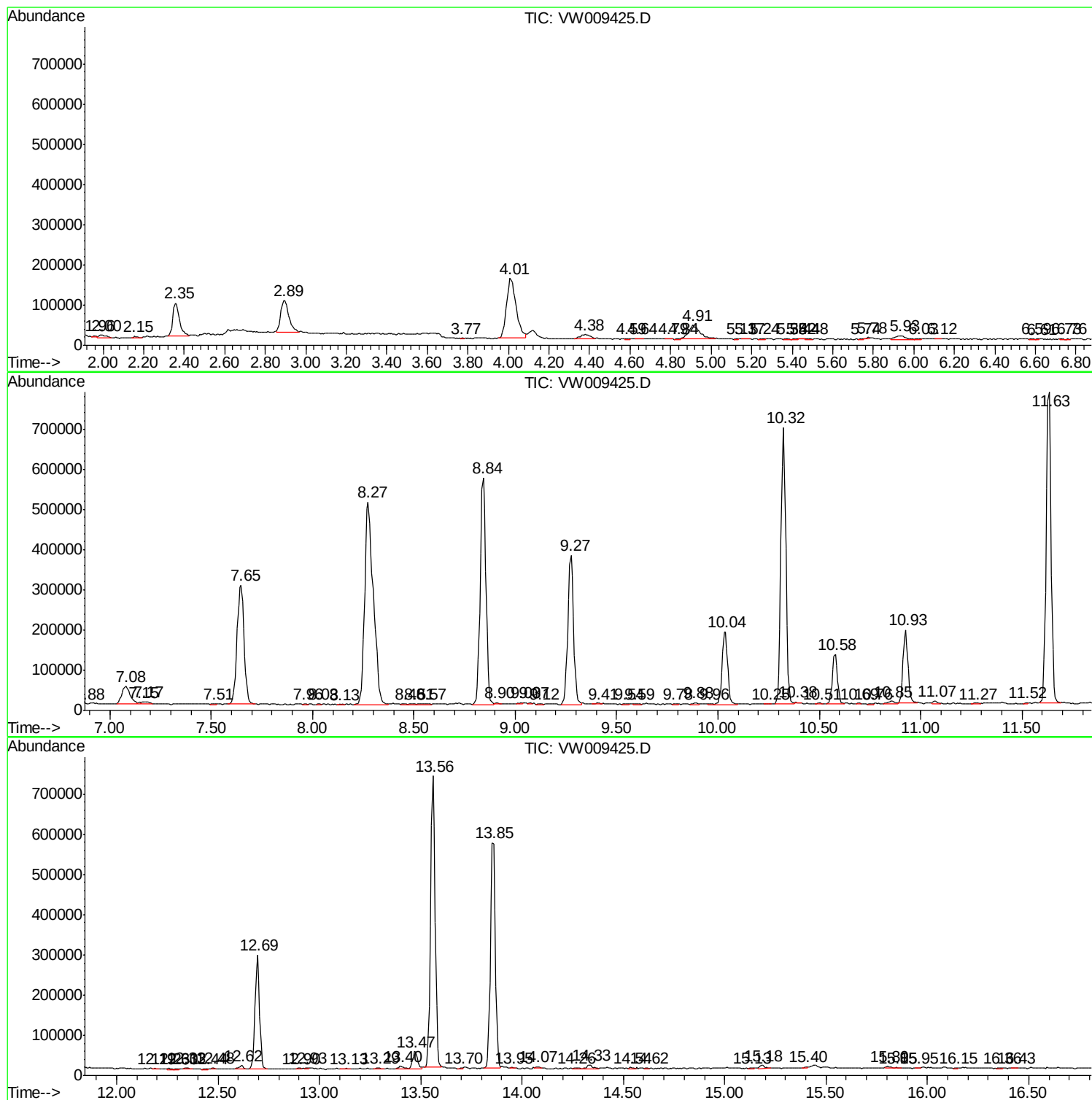
Sum of corrected areas: 11573671

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW032519\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 D-Limonene Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.47 | 1.58 ug/L | 70739 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | D-Limonene   | 136 | C10H16  | 005989-27-5 | 91   |
| 2    |    |   | Limonene     | 136 | C10H16  | 000138-86-3 | 81   |
| 3    |    |   | Limonene     | 136 | C10H16  | 000138-86-3 | 81   |
| 4    |    |   | Limonene     | 136 | C10H16  | 000138-86-3 | 74   |
| 5    |    |   | D-Limonene   | 136 | C10H16  | 005989-27-5 | 70   |

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| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                  |       |         |       |          | #                     | RT    | Resp    | Conc |
| D-Limonene       | 13.47 | 1.6     | ug/L  | 70739    | 3                     | 13.56 | 1120520 | 25.0 |