

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW100318\  
 Data File : VW005808.D  
 Acq On : 03 Oct 2018 12:28  
 Operator : SY/AP  
 Sample : J5182-17  
 Misc : 5.37G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JLC66

## 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\SOM2WLM092818S.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.355    | 68         | 74       | 84        | rVB   | 36492       | 69098      | 9.95%        | 1.235%     |
| 2      | 2.898    | 157        | 163      | 174       | rVB   | 25086       | 62735      | 9.03%        | 1.122%     |
| 3      | 3.916    | 328        | 330      | 332       | rVB2  | 403         | 217        | 0.03%        | 0.004%     |
| 4      | 4.007    | 335        | 345      | 360       | rBV   | 66143       | 204202     | 29.40%       | 3.651%     |
| 5      | 4.342    | 398        | 400      | 403       | rVB3  | 310         | 227        | 0.03%        | 0.004%     |
| 6      | 4.598    | 440        | 442      | 443       | rBV2  | 243         | 208        | 0.03%        | 0.004%     |
| 7      | 4.781    | 468        | 472      | 473       | rBV3  | 211         | 239        | 0.03%        | 0.004%     |
| 8      | 4.909    | 480        | 493      | 509       | rBV2  | 37751       | 136771     | 19.69%       | 2.445%     |
| 9      | 5.062    | 516        | 518      | 519       | rBV   | 710         | 491        | 0.07%        | 0.009%     |
| 10     | 5.104    | 522        | 525      | 526       | rVB   | 317         | 297        | 0.04%        | 0.005%     |
| 11     | 5.129    | 526        | 529      | 530       | rBV   | 446         | 354        | 0.05%        | 0.006%     |
| 12     | 5.385    | 568        | 571      | 573       | rBV2  | 216         | 246        | 0.04%        | 0.004%     |
| 13     | 5.403    | 573        | 574      | 577       | rBV2  | 246         | 213        | 0.03%        | 0.004%     |
| 14     | 5.745    | 628        | 630      | 631       | rBV   | 285         | 239        | 0.03%        | 0.004%     |
| 15     | 5.836    | 642        | 645      | 646       | rBV   | 340         | 364        | 0.05%        | 0.007%     |
| 16     | 5.940    | 651        | 662      | 673       | rVB4  | 15451       | 46293      | 6.67%        | 0.828%     |
| 17     | 6.202    | 701        | 705      | 706       | rBV2  | 273         | 281        | 0.04%        | 0.005%     |
| 18     | 6.220    | 706        | 708      | 709       | rVV2  | 269         | 215        | 0.03%        | 0.004%     |
| 19     | 6.616    | 769        | 773      | 775       | rBV2  | 210         | 273        | 0.04%        | 0.005%     |
| 20     | 6.842    | 807        | 810      | 811       | rVB2  | 266         | 233        | 0.03%        | 0.004%     |
| 21     | 6.866    | 811        | 814      | 816       | rBV2  | 198         | 207        | 0.03%        | 0.004%     |
| 22     | 6.915    | 818        | 822      | 824       | rBV   | 199         | 217        | 0.03%        | 0.004%     |
| 23     | 6.988    | 831        | 834      | 836       | rBV2  | 374         | 380        | 0.05%        | 0.007%     |
| 24     | 7.092    | 841        | 851      | 856       | rBV   | 20742       | 57134      | 8.23%        | 1.022%     |
| 25     | 7.415    | 899        | 904      | 906       | rBV   | 208         | 320        | 0.05%        | 0.006%     |
| 26     | 7.531    | 920        | 923      | 924       | rBV   | 278         | 310        | 0.04%        | 0.006%     |
| 27     | 7.653    | 932        | 943      | 954       | rVB   | 126382      | 311605     | 44.86%       | 5.571%     |
| 28     | 7.763    | 960        | 961      | 966       | rVB2  | 205         | 254        | 0.04%        | 0.005%     |
| 29     | 8.055    | 1007       | 1009     | 1010      | rBV   | 251         | 231        | 0.03%        | 0.004%     |
| 30     | 8.281    | 1030       | 1046     | 1060      | rBV2  | 220587      | 694549     | 100.00%      | 12.418%    |
| 31     | 8.634    | 1102       | 1104     | 1106      | rVV2  | 347         | 344        | 0.05%        | 0.006%     |
| 32     | 8.659    | 1106       | 1108     | 1111      | rVV2  | 255         | 305        | 0.04%        | 0.005%     |
| 33     | 8.689    | 1111       | 1113     | 1116      | rVB2  | 449         | 492        | 0.07%        | 0.009%     |
| 34     | 8.762    | 1122       | 1125     | 1127      | rVB2  | 220         | 208        | 0.03%        | 0.004%     |

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Filtering: 5  
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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\SOM2WLM092818S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 8.848  | 1129 | 1139 | 1150 | rVV  | 293664 | 574344 | 82.69% | 10.269% |
| 36 | 9.079  | 1170 | 1177 | 1185 | rBV8 | 2159   | 5246   | 0.76%  | 0.094%  |
| 37 | 9.274  | 1201 | 1209 | 1220 | rBV  | 150036 | 308319 | 44.39% | 5.513%  |
| 38 | 9.451  | 1237 | 1238 | 1240 | rBV2 | 273    | 244    | 0.04%  | 0.004%  |
| 39 | 9.665  | 1268 | 1273 | 1277 | rVV3 | 596    | 1113   | 0.16%  | 0.020%  |
| 40 | 9.811  | 1294 | 1297 | 1299 | rBV2 | 225    | 234    | 0.03%  | 0.004%  |
| 41 | 9.890  | 1305 | 1310 | 1317 | rVB3 | 1532   | 3015   | 0.43%  | 0.054%  |
| 42 | 9.945  | 1317 | 1319 | 1322 | rBV2 | 201    | 219    | 0.03%  | 0.004%  |
| 43 | 9.976  | 1322 | 1324 | 1326 | rBV2 | 238    | 293    | 0.04%  | 0.005%  |
| 44 | 10.037 | 1326 | 1334 | 1343 | rVV  | 80252  | 145091 | 20.89% | 2.594%  |
| 45 | 10.177 | 1355 | 1357 | 1359 | rBV  | 287    | 253    | 0.04%  | 0.005%  |
| 46 | 10.213 | 1359 | 1363 | 1365 | rBV2 | 864    | 1082   | 0.16%  | 0.019%  |
| 47 | 10.329 | 1374 | 1382 | 1390 | rBV  | 290246 | 506282 | 72.89% | 9.052%  |
| 48 | 10.506 | 1408 | 1411 | 1413 | rBV2 | 585    | 628    | 0.09%  | 0.011%  |
| 49 | 10.579 | 1416 | 1423 | 1430 | rBV  | 56414  | 98072  | 14.12% | 1.753%  |
| 50 | 10.707 | 1438 | 1444 | 1451 | rBV2 | 13278  | 23804  | 3.43%  | 0.426%  |
| 51 | 10.847 | 1465 | 1467 | 1468 | rBV  | 512    | 311    | 0.04%  | 0.006%  |
| 52 | 10.933 | 1474 | 1481 | 1492 | rBV  | 83708  | 144404 | 20.79% | 2.582%  |
| 53 | 11.067 | 1498 | 1503 | 1510 | rBV  | 16911  | 26866  | 3.87%  | 0.480%  |
| 54 | 11.183 | 1516 | 1522 | 1528 | rBV5 | 1175   | 2119   | 0.31%  | 0.038%  |
| 55 | 11.238 | 1528 | 1531 | 1533 | rVV3 | 337    | 406    | 0.06%  | 0.007%  |
| 56 | 11.390 | 1554 | 1556 | 1558 | rBV2 | 298    | 351    | 0.05%  | 0.006%  |
| 57 | 11.445 | 1560 | 1565 | 1572 | rVB2 | 9946   | 15303  | 2.20%  | 0.274%  |
| 58 | 11.634 | 1588 | 1596 | 1607 | rVV  | 415362 | 692853 | 99.76% | 12.388% |
| 59 | 11.737 | 1607 | 1613 | 1618 | rVV  | 3997   | 6647   | 0.96%  | 0.119%  |
| 60 | 11.841 | 1622 | 1630 | 1639 | rBV  | 14958  | 27870  | 4.01%  | 0.498%  |
| 61 | 12.115 | 1673 | 1675 | 1678 | rVB  | 311    | 286    | 0.04%  | 0.005%  |
| 62 | 12.170 | 1678 | 1684 | 1691 | rVB3 | 8557   | 14799  | 2.13%  | 0.265%  |
| 63 | 12.341 | 1708 | 1712 | 1714 | rBV2 | 309    | 449    | 0.06%  | 0.008%  |
| 64 | 12.390 | 1717 | 1720 | 1721 | rVB3 | 300    | 268    | 0.04%  | 0.005%  |
| 65 | 12.408 | 1721 | 1723 | 1727 | rVB2 | 162    | 236    | 0.03%  | 0.004%  |
| 66 | 12.475 | 1729 | 1734 | 1739 | rBV3 | 2067   | 3238   | 0.47%  | 0.058%  |
| 67 | 12.615 | 1751 | 1757 | 1764 | rVB  | 24599  | 40465  | 5.83%  | 0.723%  |
| 68 | 12.701 | 1764 | 1771 | 1778 | rBV  | 133064 | 226725 | 32.64% | 4.054%  |
| 69 | 12.768 | 1778 | 1782 | 1787 | rBV4 | 939    | 1521   | 0.22%  | 0.027%  |
| 70 | 12.878 | 1798 | 1800 | 1804 | rVV  | 372    | 450    | 0.06%  | 0.008%  |
| 71 | 12.945 | 1804 | 1811 | 1818 | rVV  | 23777  | 38071  | 5.48%  | 0.681%  |

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 Smoothing : OFF  
 Sampling : 1  
 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\SOM2WLM092818S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 72  | 13.085 | 1831 | 1834 | 1836 | rVB3 | 553    | 567    | 0.08%  | 0.010%  |
| 73  | 13.109 | 1836 | 1838 | 1842 | rBV2 | 303    | 489    | 0.07%  | 0.009%  |
| 74  | 13.158 | 1842 | 1846 | 1849 | rVV5 | 1106   | 1619   | 0.23%  | 0.029%  |
| 75  | 13.219 | 1852 | 1856 | 1861 | rVV2 | 3741   | 6309   | 0.91%  | 0.113%  |
| 76  | 13.262 | 1861 | 1863 | 1865 | rVV2 | 446    | 542    | 0.08%  | 0.010%  |
| 77  | 13.304 | 1866 | 1870 | 1876 | rVB3 | 4848   | 8357   | 1.20%  | 0.149%  |
| 78  | 13.371 | 1877 | 1881 | 1882 | rBV2 | 437    | 503    | 0.07%  | 0.009%  |
| 79  | 13.487 | 1896 | 1900 | 1901 | rBV3 | 1231   | 1826   | 0.26%  | 0.033%  |
| 80  | 13.512 | 1901 | 1904 | 1906 | rVV4 | 1714   | 2192   | 0.32%  | 0.039%  |
| 81  | 13.566 | 1906 | 1913 | 1920 | rVV  | 372582 | 590484 | 85.02% | 10.558% |
| 82  | 13.719 | 1933 | 1938 | 1942 | rBV5 | 2154   | 3081   | 0.44%  | 0.055%  |
| 83  | 13.774 | 1942 | 1947 | 1949 | rBV4 | 1252   | 1872   | 0.27%  | 0.033%  |
| 84  | 13.798 | 1949 | 1951 | 1955 | rBV4 | 736    | 1096   | 0.16%  | 0.020%  |
| 85  | 13.859 | 1955 | 1961 | 1968 | rBV  | 264400 | 440148 | 63.37% | 7.870%  |
| 86  | 14.085 | 1992 | 1998 | 2006 | rVB2 | 8154   | 14331  | 2.06%  | 0.256%  |
| 87  | 14.194 | 2013 | 2016 | 2017 | rBV2 | 330    | 290    | 0.04%  | 0.005%  |
| 88  | 14.213 | 2017 | 2019 | 2023 | rVB4 | 712    | 799    | 0.12%  | 0.014%  |
| 89  | 14.316 | 2033 | 2036 | 2037 | rBV3 | 1416   | 1361   | 0.20%  | 0.024%  |
| 90  | 14.335 | 2037 | 2039 | 2043 | rVB4 | 1394   | 1679   | 0.24%  | 0.030%  |
| 91  | 14.633 | 2086 | 2088 | 2091 | rVB2 | 624    | 642    | 0.09%  | 0.011%  |
| 92  | 14.737 | 2102 | 2105 | 2110 | rVB5 | 1350   | 2158   | 0.31%  | 0.039%  |
| 93  | 14.981 | 2143 | 2145 | 2146 | rVB  | 541    | 257    | 0.04%  | 0.005%  |
| 94  | 15.005 | 2147 | 2149 | 2151 | rBV2 | 323    | 271    | 0.04%  | 0.005%  |
| 95  | 15.365 | 2206 | 2208 | 2209 | rBV2 | 575    | 390    | 0.06%  | 0.007%  |
| 96  | 15.456 | 2219 | 2223 | 2227 | rVB2 | 3295   | 5006   | 0.72%  | 0.090%  |
| 97  | 15.517 | 2227 | 2233 | 2237 | rBV3 | 1752   | 3188   | 0.46%  | 0.057%  |
| 98  | 15.651 | 2252 | 2255 | 2257 | rBV3 | 696    | 863    | 0.12%  | 0.015%  |
| 99  | 15.968 | 2306 | 2307 | 2308 | rBV  | 582    | 328    | 0.05%  | 0.006%  |
| 100 | 16.188 | 2341 | 2343 | 2346 | rBV3 | 542    | 692    | 0.10%  | 0.012%  |

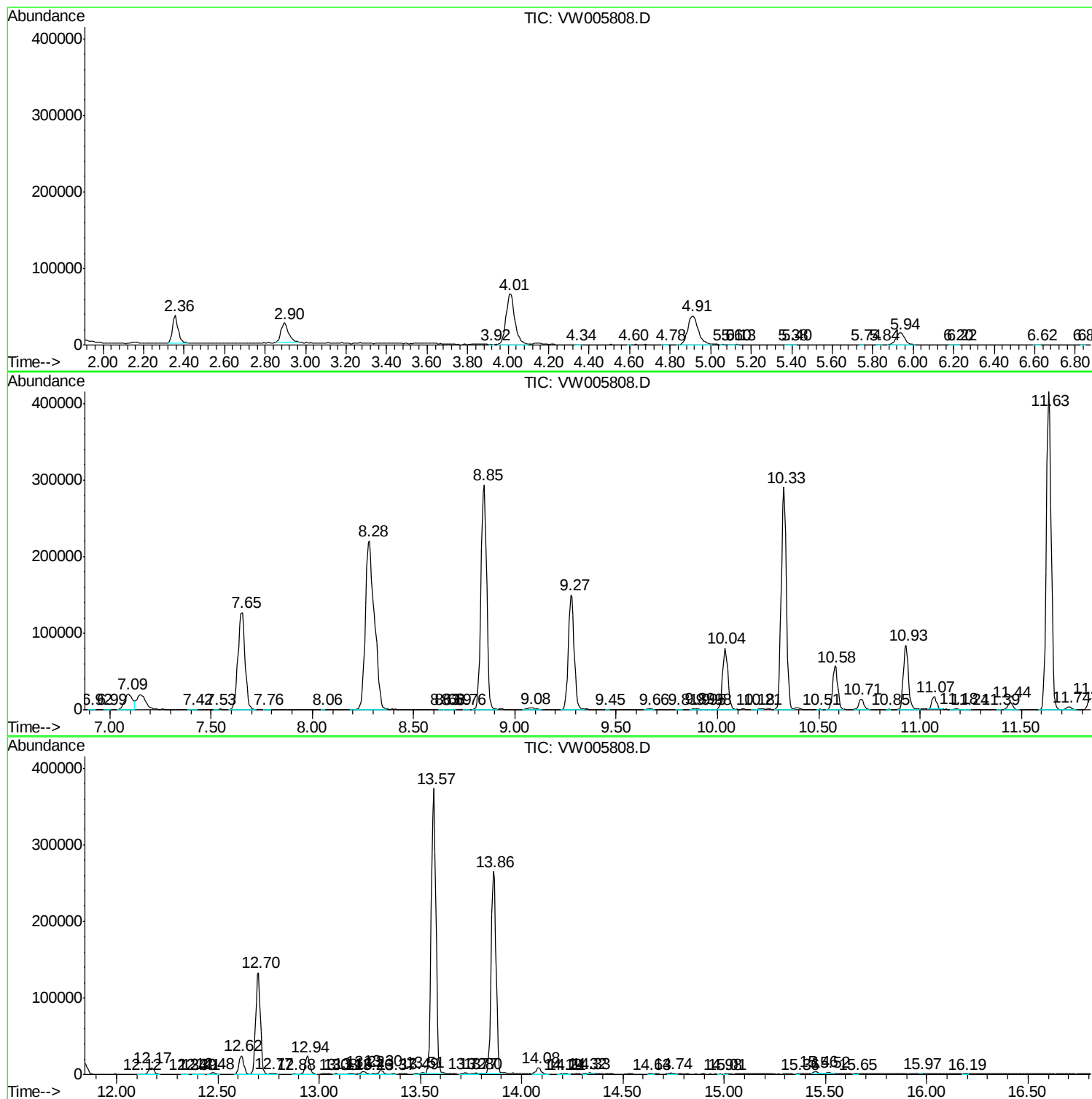
Sum of corrected areas: 5592969

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100318\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

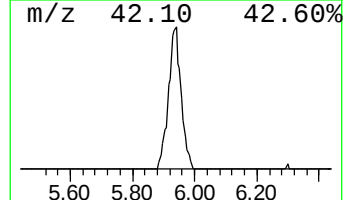
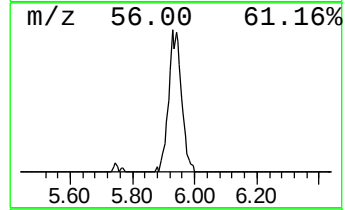
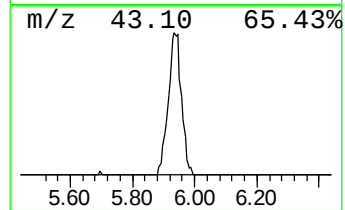
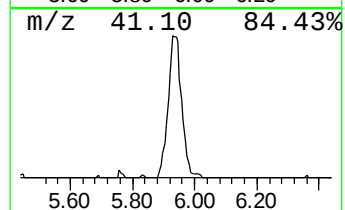
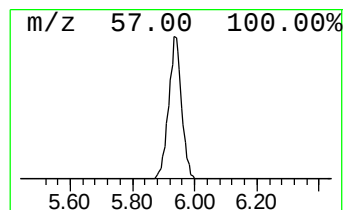
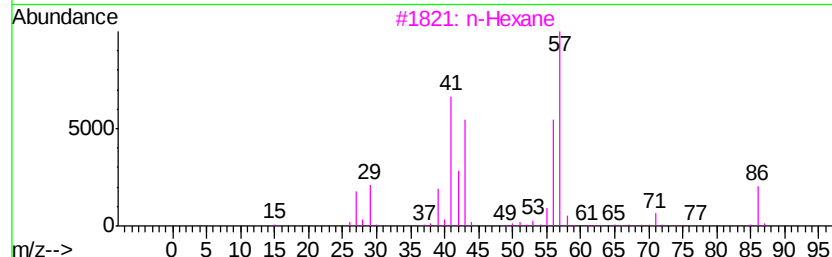
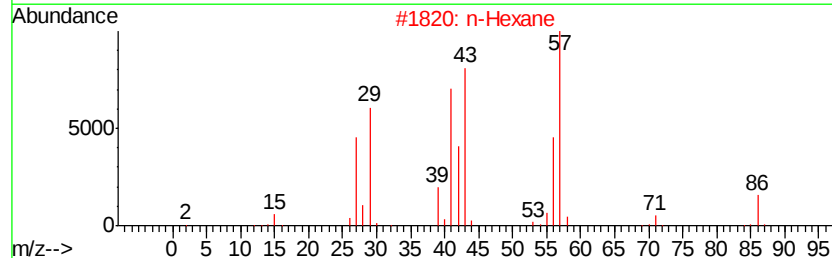
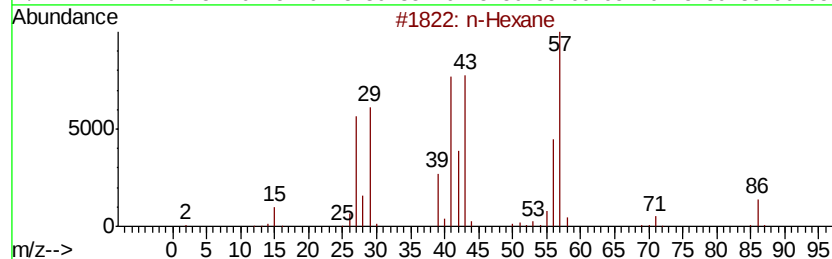
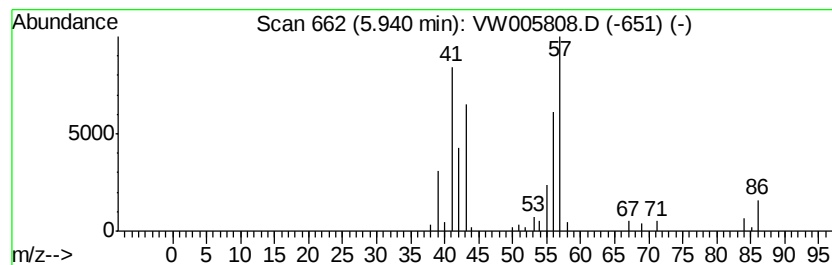
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.94 | 2.02 ug/L | 46293 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | n-Hexane             | 86  | C6H14   | 000110-54-3 | 80   |
| 2    |    | n-Hexane             | 86  | C6H14   | 000110-54-3 | 64   |
| 3    |    | n-Hexane             | 86  | C6H14   | 000110-54-3 | 50   |
| 4    |    | Hydroperoxide, hexyl | 118 | C6H14O2 | 004312-76-9 | 45   |
| 5    |    | 1-Pentene, 4-methyl- | 84  | C6H12   | 000691-37-2 | 42   |



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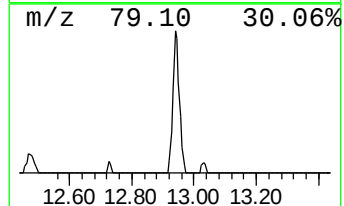
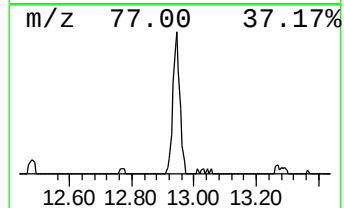
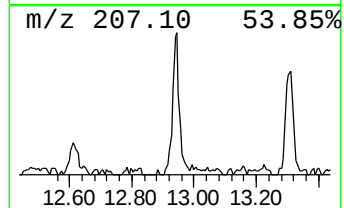
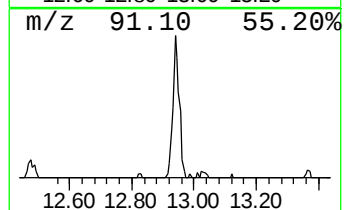
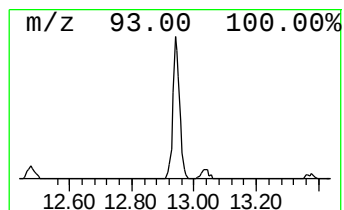
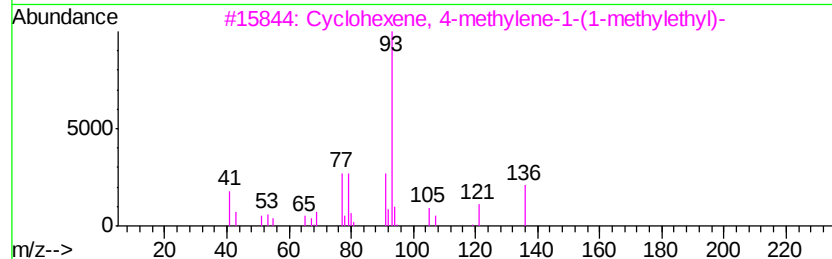
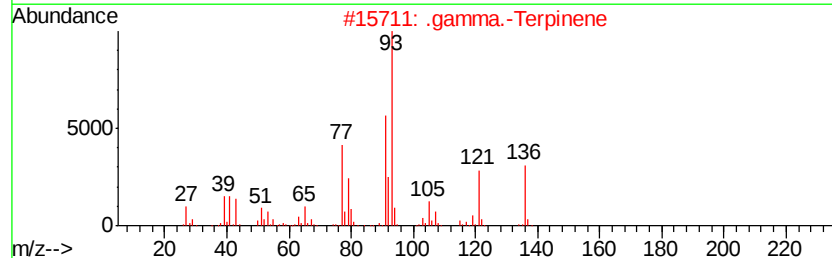
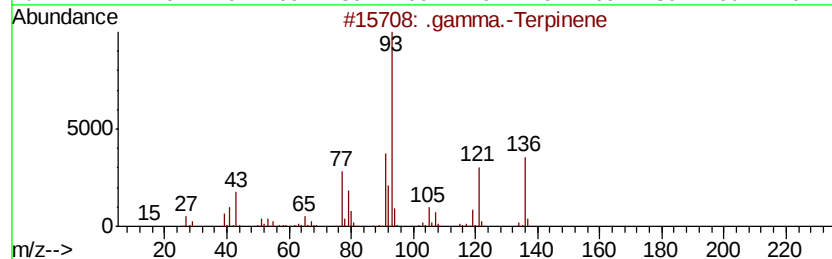
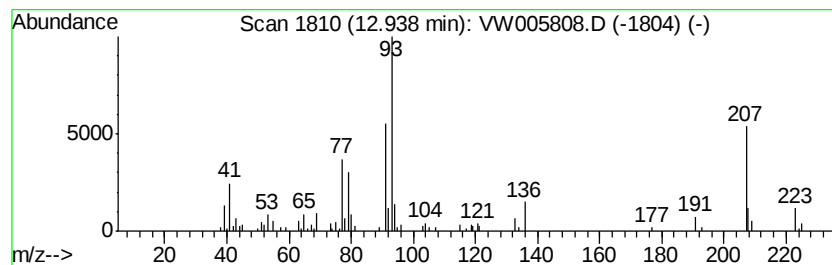
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 .gamma.-Terpinene Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.94 | 1.61 ug/L | 38071 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | .gamma.-Terpinene                   | 136 | C10H16  | 000099-85-4 | 70   |
| 2    |    |   | .gamma.-Terpinene                   | 136 | C10H16  | 000099-85-4 | 70   |
| 3    |    |   | Cyclohexene, 4-methylene-1-(1-me... | 136 | C10H16  | 000099-84-3 | 64   |
| 4    |    |   | Bicyclo[3.1.0]hex-2-ene, 4-methy... | 136 | C10H16  | 028634-89-1 | 58   |
| 5    |    |   | .alpha.-Phellandrene                | 136 | C10H16  | 000099-83-2 | 52   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100318\  
Data File : VW005808.D  
Acq On : 03 Oct 2018 12:28  
Operator : SY/AP  
Sample : J5182-17  
Misc : 5.37G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC66

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| (DEL) Alkane: Str... | 5.94  | 2.0     | ug/L  | 46293    | 1                     | 8.85  | 574344 | 25.0 |
| .gamma.-Terpinene    | 12.94 | 1.6     | ug/L  | 38071    | 3                     | 13.57 | 590484 | 25.0 |