

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\  
 Data File : VW013744.D  
 Acq On : 25 Oct 2019 13:29  
 Operator : SY/VA  
 Sample : K5535-11  
 Misc : 6.46G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BEK33

## 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\SOM2WLM101819S.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         | 2.166       | 37            | 43          | 47           | rBV4     | 2849           | 5427          | 0.41%           | 0.061%        |
| 2         | 2.355       | 68            | 74          | 83           | rVB      | 107877         | 191147        | 14.27%          | 2.139%        |
| 3         | 2.617       | 114           | 117         | 121          | rBV3     | 850            | 1521          | 0.11%           | 0.017%        |
| 4         | 2.891       | 154           | 162         | 175          | rBV      | 75026          | 172283        | 12.86%          | 1.928%        |
| 5         | 3.019       | 179           | 183         | 186          | rBV4     | 1730           | 3302          | 0.25%           | 0.037%        |
| 6         | 3.391       | 236           | 244         | 247          | rBV4     | 3444           | 7270          | 0.54%           | 0.081%        |
| 7         | 3.666       | 287           | 289         | 290          | rBV      | 664            | 562           | 0.04%           | 0.006%        |
| 8         | 4.019       | 335           | 347         | 360          | rBV      | 159587         | 480126        | 35.85%          | 5.374%        |
| 9         | 4.129       | 360           | 365         | 374          | rVB      | 8193           | 20592         | 1.54%           | 0.230%        |
| 10        | 4.397       | 407           | 409         | 412          | rVV2     | 671            | 989           | 0.07%           | 0.011%        |
| 11        | 4.714       | 458           | 461         | 465          | rBV3     | 378            | 563           | 0.04%           | 0.006%        |
| 12        | 4.915       | 484           | 494         | 508          | rBV6     | 10495          | 41220         | 3.08%           | 0.461%        |
| 13        | 5.171       | 534           | 536         | 539          | rVV2     | 459            | 571           | 0.04%           | 0.006%        |
| 14        | 5.421       | 575           | 577         | 578          | rVV      | 683            | 640           | 0.05%           | 0.007%        |
| 15        | 5.757       | 629           | 632         | 635          | rVB3     | 429            | 597           | 0.04%           | 0.007%        |
| 16        | 5.933       | 651           | 661         | 662          | rBV3     | 4368           | 6854          | 0.51%           | 0.077%        |
| 17        | 6.982       | 831           | 833         | 834          | rBV2     | 725            | 572           | 0.04%           | 0.006%        |
| 18        | 7.000       | 834           | 836         | 840          | rVB3     | 878            | 974           | 0.07%           | 0.011%        |
| 19        | 7.080       | 840           | 849         | 853          | rBV      | 23538          | 61302         | 4.58%           | 0.686%        |
| 20        | 7.647       | 931           | 942         | 954          | rVB      | 207352         | 515180        | 38.47%          | 5.766%        |
| 21        | 7.951       | 984           | 992         | 998          | rVB7     | 1563           | 4660          | 0.35%           | 0.052%        |
| 22        | 8.159       | 1020          | 1026        | 1031         | rBV4     | 1242           | 2281          | 0.17%           | 0.026%        |
| 23        | 8.275       | 1031          | 1045        | 1065         | rBV2     | 458264         | 1339226       | 100.00%         | 14.989%       |
| 24        | 8.701       | 1108          | 1115        | 1120         | rBV7     | 2730           | 5679          | 0.42%           | 0.064%        |
| 25        | 8.841       | 1128          | 1138        | 1151         | rBV      | 383547         | 746752        | 55.76%          | 8.358%        |
| 26        | 9.073       | 1170          | 1176        | 1181         | rBV4     | 1448           | 3518          | 0.26%           | 0.039%        |
| 27        | 9.274       | 1200          | 1209        | 1216         | rBV      | 275968         | 559320        | 41.76%          | 6.260%        |
| 28        | 9.756       | 1281          | 1288        | 1294         | rBV4     | 1526           | 3443          | 0.26%           | 0.039%        |
| 29        | 9.890       | 1304          | 1310        | 1316         | rBV5     | 3799           | 7909          | 0.59%           | 0.089%        |
| 30        | 9.951       | 1316          | 1320        | 1321         | rBV      | 1750           | 1509          | 0.11%           | 0.017%        |
| 31        | 10.036      | 1326          | 1334        | 1341         | rBV      | 132315         | 244603        | 18.26%          | 2.738%        |
| 32        | 10.201      | 1359          | 1361        | 1363         | rBV2     | 738            | 851           | 0.06%           | 0.010%        |
| 33        | 10.244      | 1365          | 1368        | 1374         | rVV5     | 1688           | 2385          | 0.18%           | 0.027%        |
| 34        | 10.323      | 1374          | 1381        | 1388         | rVV      | 606085         | 1054485       | 78.74%          | 11.802%       |

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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\SOM2WLM101819S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 10.390 | 1388 | 1392 | 1398 | rVB  | 26496  | 45693  | 3.41%  | 0.511% |
| 36 | 10.506 | 1404 | 1411 | 1416 | rBV3 | 9114   | 15814  | 1.18%  | 0.177% |
| 37 | 10.579 | 1416 | 1423 | 1433 | rVV  | 79578  | 141315 | 10.55% | 1.582% |
| 38 | 10.664 | 1433 | 1437 | 1438 | rBV2 | 3186   | 4030   | 0.30%  | 0.045% |
| 39 | 10.707 | 1440 | 1444 | 1448 | rVB  | 11491  | 17311  | 1.29%  | 0.194% |
| 40 | 10.762 | 1449 | 1453 | 1458 | rBV6 | 3480   | 5512   | 0.41%  | 0.062% |
| 41 | 10.847 | 1464 | 1467 | 1473 | rVB7 | 2818   | 5044   | 0.38%  | 0.056% |
| 42 | 10.927 | 1473 | 1480 | 1490 | rBV  | 91047  | 163309 | 12.19% | 1.828% |
| 43 | 11.061 | 1494 | 1502 | 1506 | rVV4 | 10100  | 19031  | 1.42%  | 0.213% |
| 44 | 11.109 | 1506 | 1510 | 1514 | rVV3 | 6061   | 11000  | 0.82%  | 0.123% |
| 45 | 11.176 | 1517 | 1521 | 1525 | rVV3 | 11334  | 18180  | 1.36%  | 0.203% |
| 46 | 11.225 | 1525 | 1529 | 1535 | rVV3 | 13020  | 22967  | 1.71%  | 0.257% |
| 47 | 11.286 | 1535 | 1539 | 1542 | rVV4 | 2853   | 4274   | 0.32%  | 0.048% |
| 48 | 11.335 | 1542 | 1547 | 1551 | rVV7 | 6346   | 11939  | 0.89%  | 0.134% |
| 49 | 11.432 | 1552 | 1563 | 1571 | rVB6 | 19172  | 58889  | 4.40%  | 0.659% |
| 50 | 11.512 | 1571 | 1576 | 1581 | rBV  | 13113  | 20667  | 1.54%  | 0.231% |
| 51 | 11.634 | 1588 | 1596 | 1606 | rBV  | 431054 | 746513 | 55.74% | 8.355% |
| 52 | 11.731 | 1606 | 1612 | 1621 | rBV  | 64594  | 119584 | 8.93%  | 1.338% |
| 53 | 11.835 | 1621 | 1629 | 1639 | rVV  | 302145 | 564889 | 42.18% | 6.322% |
| 54 | 11.975 | 1649 | 1652 | 1655 | rBV5 | 813    | 953    | 0.07%  | 0.011% |
| 55 | 12.042 | 1659 | 1663 | 1670 | rVB8 | 1914   | 4247   | 0.32%  | 0.048% |
| 56 | 12.164 | 1670 | 1683 | 1692 | rBV  | 119239 | 213804 | 15.96% | 2.393% |
| 57 | 12.304 | 1702 | 1706 | 1708 | rBV4 | 1407   | 2204   | 0.16%  | 0.025% |
| 58 | 12.341 | 1708 | 1712 | 1716 | rBV5 | 3690   | 5796   | 0.43%  | 0.065% |
| 59 | 12.469 | 1728 | 1733 | 1738 | rBV6 | 4451   | 8589   | 0.64%  | 0.096% |
| 60 | 12.566 | 1747 | 1749 | 1750 | rBV2 | 798    | 795    | 0.06%  | 0.009% |
| 61 | 12.609 | 1751 | 1756 | 1761 | rVB2 | 11834  | 17991  | 1.34%  | 0.201% |
| 62 | 12.694 | 1761 | 1770 | 1778 | rVB  | 145019 | 243129 | 18.15% | 2.721% |
| 63 | 12.804 | 1785 | 1788 | 1790 | rVB3 | 1083   | 1107   | 0.08%  | 0.012% |
| 64 | 12.865 | 1794 | 1798 | 1801 | rBV3 | 2873   | 4353   | 0.33%  | 0.049% |
| 65 | 12.932 | 1805 | 1809 | 1816 | rVB7 | 7936   | 14756  | 1.10%  | 0.165% |
| 66 | 12.999 | 1816 | 1820 | 1822 | rVB4 | 514    | 721    | 0.05%  | 0.008% |
| 67 | 13.024 | 1822 | 1824 | 1827 | rBV4 | 990    | 997    | 0.07%  | 0.011% |
| 68 | 13.115 | 1832 | 1839 | 1843 | rVB8 | 2023   | 4192   | 0.31%  | 0.047% |
| 69 | 13.249 | 1856 | 1861 | 1865 | rBV2 | 6696   | 9853   | 0.74%  | 0.110% |
| 70 | 13.304 | 1867 | 1870 | 1878 | rVB4 | 2529   | 4230   | 0.32%  | 0.047% |
| 71 | 13.408 | 1882 | 1887 | 1890 | rBV6 | 1061   | 1879   | 0.14%  | 0.021% |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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## Integration Parameters: LSCINT.P

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 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
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Filtering: 5  
 Min Area: 0 % of largest Peak  
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.469 | 1890 | 1897 | 1903 | rBV2 | 24095  | 38893  | 2.90%  | 0.435% |
| 73  | 13.560 | 1905 | 1912 | 1925 | rVB  | 274937 | 448464 | 33.49% | 5.019% |
| 74  | 13.652 | 1925 | 1927 | 1930 | rVB3 | 1169   | 1143   | 0.09%  | 0.013% |
| 75  | 13.713 | 1934 | 1937 | 1941 | rBV5 | 843    | 1014   | 0.08%  | 0.011% |
| 76  | 13.792 | 1948 | 1950 | 1953 | rVB2 | 1570   | 1567   | 0.12%  | 0.018% |
| 77  | 13.853 | 1953 | 1960 | 1969 | rBV  | 223928 | 377455 | 28.18% | 4.225% |
| 78  | 13.987 | 1980 | 1982 | 1984 | rBV2 | 844    | 825    | 0.06%  | 0.009% |
| 79  | 14.072 | 1991 | 1996 | 2002 | rVB  | 4443   | 7542   | 0.56%  | 0.084% |
| 80  | 14.200 | 2013 | 2017 | 2021 | rVB4 | 1063   | 1375   | 0.10%  | 0.015% |
| 81  | 14.249 | 2022 | 2025 | 2029 | rVB3 | 638    | 927    | 0.07%  | 0.010% |
| 82  | 14.310 | 2032 | 2035 | 2036 | rBV2 | 746    | 813    | 0.06%  | 0.009% |
| 83  | 14.334 | 2036 | 2039 | 2041 | rVV4 | 1695   | 2214   | 0.17%  | 0.025% |
| 84  | 14.377 | 2045 | 2046 | 2053 | rVV5 | 1653   | 2575   | 0.19%  | 0.029% |
| 85  | 14.456 | 2055 | 2059 | 2062 | rVV4 | 622    | 916    | 0.07%  | 0.010% |
| 86  | 14.725 | 2100 | 2103 | 2106 | rVV2 | 2287   | 2654   | 0.20%  | 0.030% |
| 87  | 14.804 | 2109 | 2116 | 2120 | rBV7 | 1210   | 2165   | 0.16%  | 0.024% |
| 88  | 15.078 | 2159 | 2161 | 2164 | rVB3 | 672    | 628    | 0.05%  | 0.007% |
| 89  | 15.109 | 2164 | 2166 | 2168 | rBV3 | 567    | 639    | 0.05%  | 0.007% |
| 90  | 15.225 | 2183 | 2185 | 2187 | rBV3 | 941    | 879    | 0.07%  | 0.010% |
| 91  | 15.328 | 2200 | 2202 | 2206 | rVB2 | 561    | 624    | 0.05%  | 0.007% |
| 92  | 15.377 | 2208 | 2210 | 2212 | rVB3 | 778    | 588    | 0.04%  | 0.007% |
| 93  | 15.438 | 2212 | 2220 | 2225 | rBV3 | 5983   | 10917  | 0.82%  | 0.122% |
| 94  | 15.560 | 2235 | 2240 | 2244 | rBV4 | 692    | 992    | 0.07%  | 0.011% |
| 95  | 15.663 | 2254 | 2257 | 2260 | rBV4 | 615    | 913    | 0.07%  | 0.010% |
| 96  | 15.694 | 2260 | 2262 | 2267 | rVB5 | 830    | 1043   | 0.08%  | 0.012% |
| 97  | 15.840 | 2283 | 2286 | 2288 | rBV3 | 702    | 723    | 0.05%  | 0.008% |
| 98  | 16.224 | 2348 | 2349 | 2353 | rVB4 | 785    | 874    | 0.07%  | 0.010% |
| 99  | 16.358 | 2369 | 2371 | 2375 | rVB4 | 842    | 815    | 0.06%  | 0.009% |
| 100 | 16.401 | 2375 | 2378 | 2380 | rVB2 | 788    | 716    | 0.05%  | 0.008% |

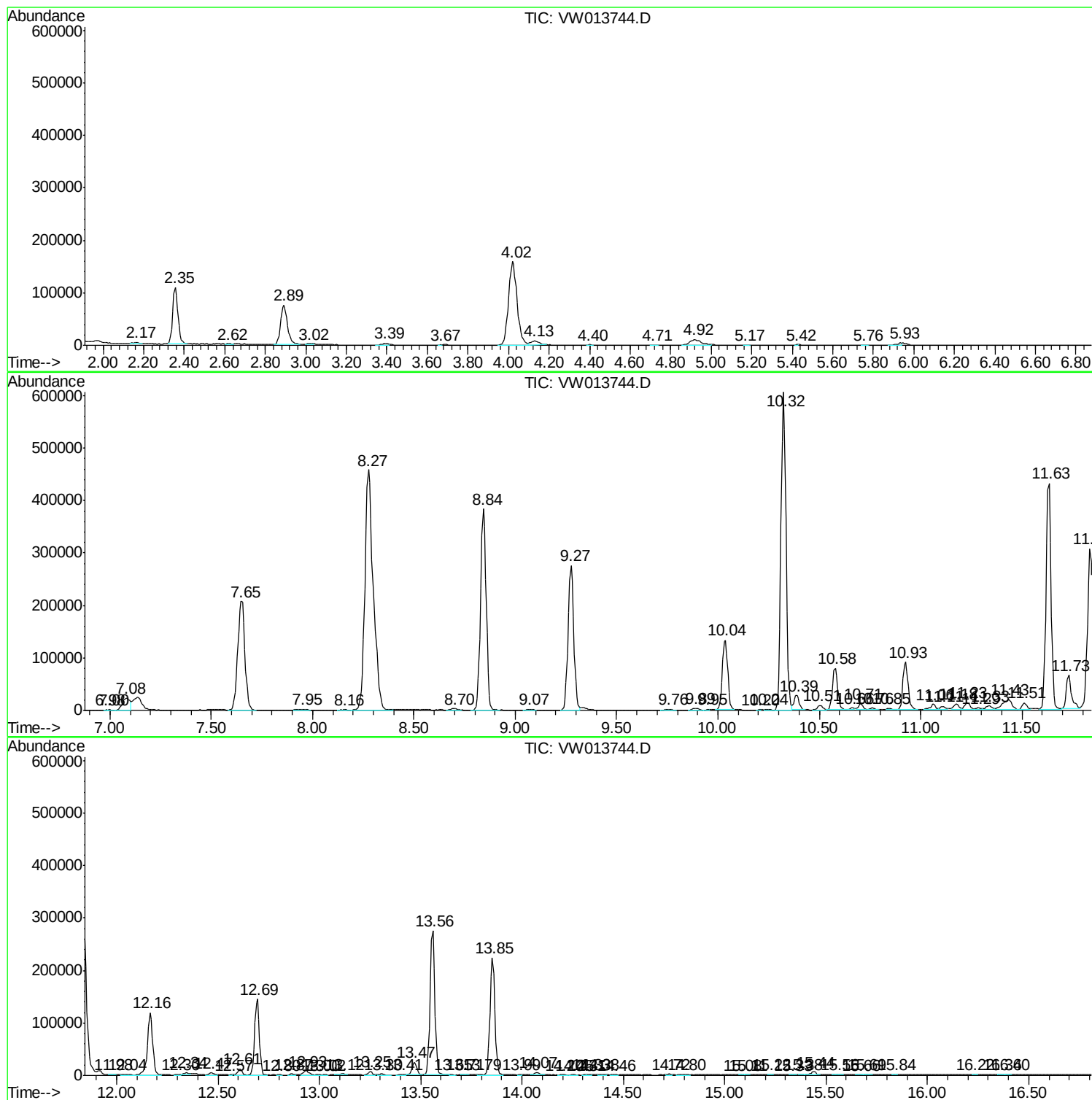
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102519\  
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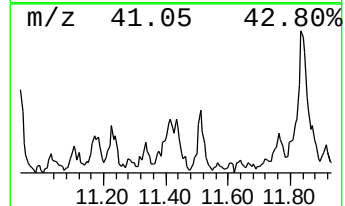
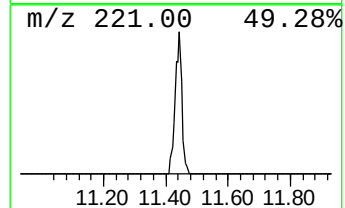
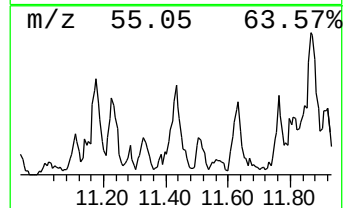
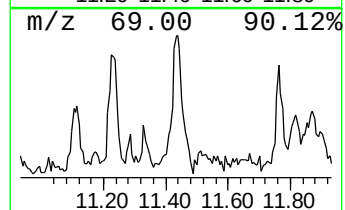
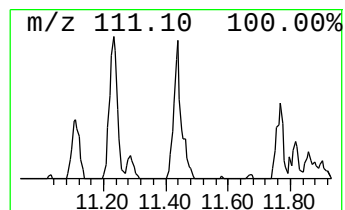
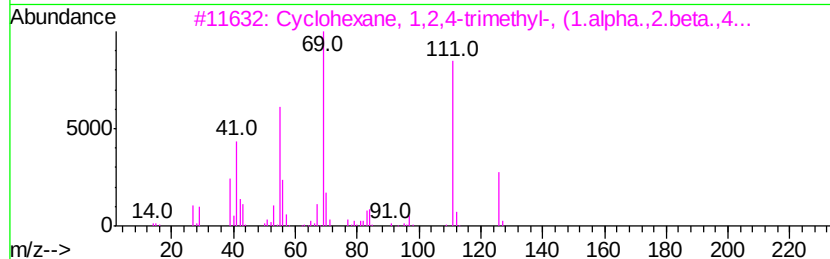
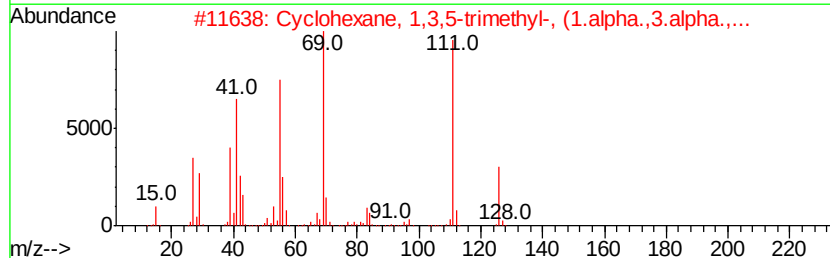
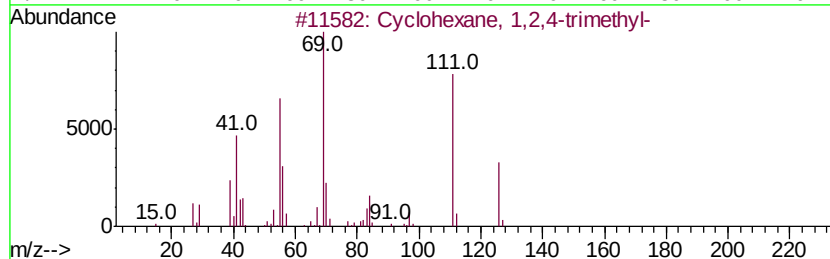
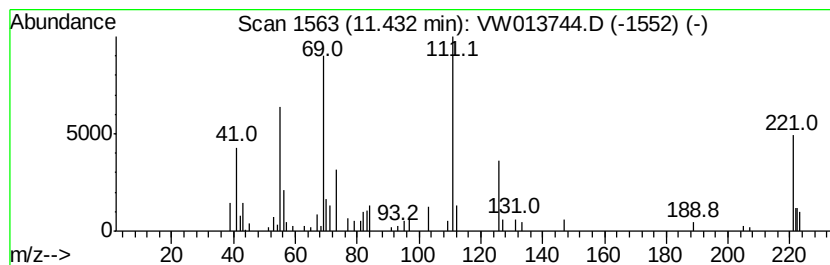
Instrument :  
MSVOA\_W  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis

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

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Peak Number 3 (DEL) Alkane: Cyclic11.43 Concentration Rank 3

| R.T.    | EstConc   | Area                                 | Relative to ISTD | R.T.    |             |      |
|---------|-----------|--------------------------------------|------------------|---------|-------------|------|
| 11.43   | 1.97 ug/L | 58889                                | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5         | Tentative ID                         | MW               | MolForm | CAS#        | Qual |
| 1       |           | Cyclohexane, 1,2,4-trimethyl-        | 126              | C9H18   | 002234-75-5 | 64   |
| 2       |           | Cyclohexane, 1,3,5-trimethyl-, (...) | 126              | C9H18   | 001795-26-2 | 58   |
| 3       |           | Cyclohexane, 1,2,4-trimethyl-, (...) | 126              | C9H18   | 007667-60-9 | 53   |
| 4       |           | Cyclohexane, 1,3,5-trimethyl-, (...) | 126              | C9H18   | 001795-27-3 | 52   |
| 5       |           | Cyclohexane, 1,3,5-trimethyl-        | 126              | C9H18   | 001839-63-0 | 50   |



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Quant Title : VOC Analysis

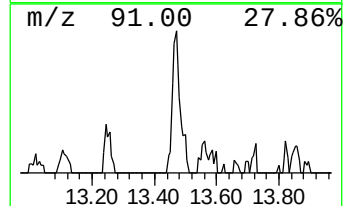
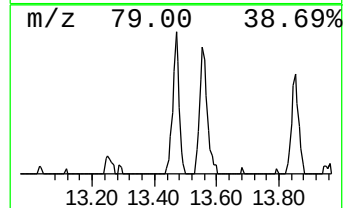
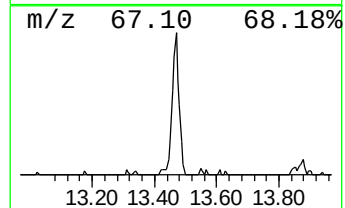
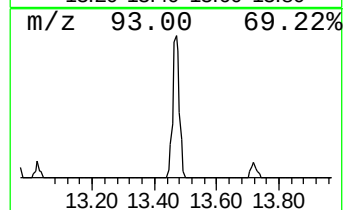
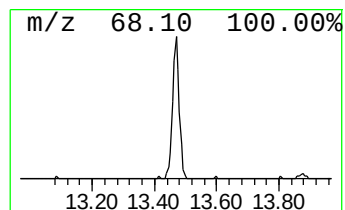
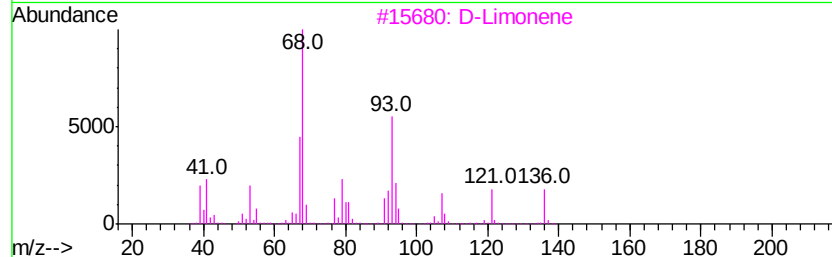
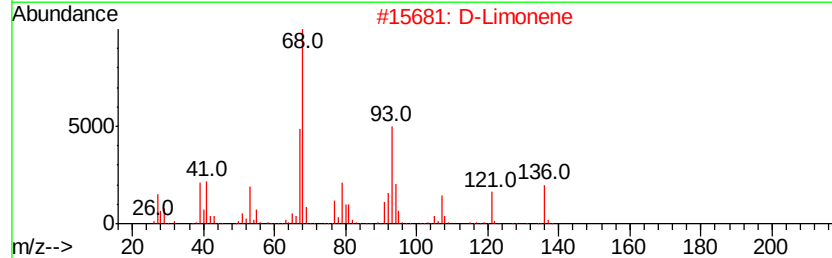
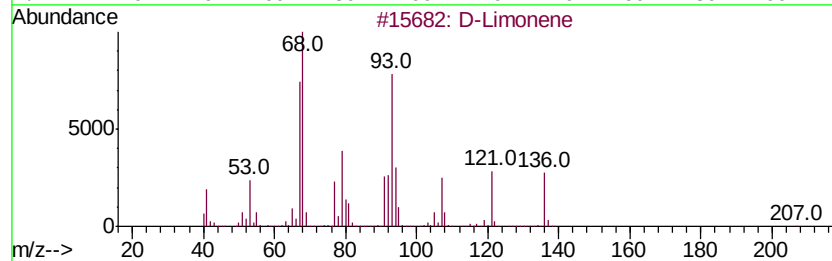
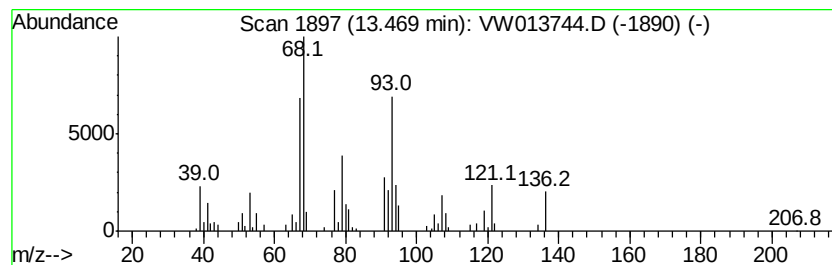
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 D-Limonene Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.47 | 2.17 ug/L | 38893 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------|--------------|-----|---------|-------------|------|
| 1       | D-Limonene |              | 136 | C10H16  | 005989-27-5 | 98   |
| 2       | D-Limonene |              | 136 | C10H16  | 005989-27-5 | 96   |
| 3       | D-Limonene |              | 136 | C10H16  | 005989-27-5 | 95   |
| 4       | D-Limonene |              | 136 | C10H16  | 005989-27-5 | 94   |
| 5       | Limonene   |              | 136 | C10H16  | 000138-86-3 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW102519\  
Data File : VW013744.D  
Acq On : 25 Oct 2019 13:29  
Operator : SY/VA  
Sample : K5535-11  
Misc : 6.46G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BEK33

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.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: Cyc... | 11.43 | 2.0     | ug/L  | 58889    | 2                     | 11.63 | 746513 | 25.0 |
| D-Limonene           | 13.47 | 2.2     | ug/L  | 38893    | 3                     | 13.56 | 448464 | 25.0 |