

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
 Data File : VW010249.D  
 Acq On : 01 May 2019 15:52  
 Operator : SY/VA  
 Sample : K2602-16RE  
 Misc : 2.81G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFHK9RE

## 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\SOM2WLM042919S.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         | 2.160       | 38            | 42          | 47           | rBV2     | 6947           | 12726         | 0.15%           | 0.069%        |
| 2         | 2.355       | 68            | 74          | 87           | rVB      | 71384          | 159563        | 1.87%           | 0.868%        |
| 3         | 2.898       | 155           | 163         | 178          | rBV      | 50621          | 145853        | 1.71%           | 0.793%        |
| 4         | 4.007       | 333           | 345         | 359          | rBV3     | 104232         | 341479        | 4.00%           | 1.857%        |
| 5         | 4.196       | 370           | 376         | 389          | rVB3     | 13210          | 37360         | 0.44%           | 0.203%        |
| 6         | 4.336       | 396           | 399         | 400          | rBV3     | 966            | 1005          | 0.01%           | 0.005%        |
| 7         | 4.391       | 400           | 408         | 420          | rVB4     | 11962          | 37321         | 0.44%           | 0.203%        |
| 8         | 4.605       | 441           | 443         | 446          | rVB2     | 752            | 860           | 0.01%           | 0.005%        |
| 9         | 4.666       | 450           | 453         | 454          | rBV2     | 723            | 747           | 0.01%           | 0.004%        |
| 10        | 4.915       | 480           | 494         | 504          | rBV5     | 8522           | 31719         | 0.37%           | 0.173%        |
| 11        | 5.190       | 536           | 539         | 542          | rBV3     | 996            | 875           | 0.01%           | 0.005%        |
| 12        | 5.604       | 606           | 607         | 612          | rVV2     | 496            | 679           | 0.01%           | 0.004%        |
| 13        | 5.940       | 653           | 662         | 667          | rBV4     | 2381           | 6356          | 0.07%           | 0.035%        |
| 14        | 6.001       | 670           | 672         | 674          | rBV2     | 715            | 741           | 0.01%           | 0.004%        |
| 15        | 6.177       | 699           | 701         | 703          | rVB2     | 924            | 738           | 0.01%           | 0.004%        |
| 16        | 6.208       | 703           | 706         | 707          | rBV      | 1052           | 969           | 0.01%           | 0.005%        |
| 17        | 6.915       | 820           | 822         | 826          | rBV2     | 688            | 926           | 0.01%           | 0.005%        |
| 18        | 7.080       | 840           | 849         | 867          | rVV3     | 37581          | 121794        | 1.43%           | 0.662%        |
| 19        | 7.232       | 872           | 874         | 878          | rVV3     | 792            | 909           | 0.01%           | 0.005%        |
| 20        | 7.275       | 879           | 881         | 884          | rVB3     | 867            | 920           | 0.01%           | 0.005%        |
| 21        | 7.446       | 902           | 909         | 915          | rBV7     | 3411           | 8688          | 0.10%           | 0.047%        |
| 22        | 7.525       | 918           | 922         | 924          | rBV4     | 1457           | 2056          | 0.02%           | 0.011%        |
| 23        | 7.647       | 932           | 942         | 953          | rVB      | 224790         | 543014        | 6.37%           | 2.954%        |
| 24        | 7.945       | 986           | 991         | 995          | rBV6     | 2185           | 4033          | 0.05%           | 0.022%        |
| 25        | 8.006       | 1000          | 1001        | 1003         | rBV      | 1096           | 1038          | 0.01%           | 0.006%        |
| 26        | 8.275       | 1035          | 1045        | 1060         | rVV2     | 470396         | 1431351       | 16.79%          | 7.786%        |
| 27        | 8.458       | 1073          | 1075        | 1077         | rVB3     | 1108           | 798           | 0.01%           | 0.004%        |
| 28        | 8.512       | 1082          | 1084        | 1088         | rVB4     | 1180           | 1181          | 0.01%           | 0.006%        |
| 29        | 8.683       | 1108          | 1112        | 1116         | rBV3     | 2204           | 3673          | 0.04%           | 0.020%        |
| 30        | 8.842       | 1129          | 1138        | 1147         | rBV      | 504038         | 987341        | 11.58%          | 5.370%        |
| 31        | 9.274       | 1201          | 1209        | 1222         | rBV      | 385166         | 763981        | 8.96%           | 4.156%        |
| 32        | 9.659       | 1266          | 1272        | 1277         | rBV6     | 2161           | 5545          | 0.07%           | 0.030%        |
| 33        | 9.762       | 1283          | 1289        | 1294         | rVB5     | 4388           | 8542          | 0.10%           | 0.046%        |
| 34        | 9.890       | 1303          | 1310        | 1316         | rVV4     | 11990          | 25643         | 0.30%           | 0.139%        |

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 Stop Thrs : 0

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\SOM2WLM042919S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 9.939  | 1316 | 1318 | 1324 | rVB4 | 3688   | 6100   | 0.07%  | 0.033% |
| 36 | 10.037 | 1324 | 1334 | 1343 | rBV  | 131590 | 246261 | 2.89%  | 1.339% |
| 37 | 10.134 | 1348 | 1350 | 1351 | rVV2 | 1512   | 719    | 0.01%  | 0.004% |
| 38 | 10.195 | 1358 | 1360 | 1363 | rBV3 | 1507   | 2148   | 0.03%  | 0.012% |
| 39 | 10.244 | 1365 | 1368 | 1374 | rVB3 | 4944   | 8889   | 0.10%  | 0.048% |
| 40 | 10.323 | 1374 | 1381 | 1389 | rBV  | 498355 | 861076 | 10.10% | 4.684% |
| 41 | 10.402 | 1389 | 1394 | 1395 | rBV3 | 16625  | 25905  | 0.30%  | 0.141% |
| 42 | 10.500 | 1408 | 1410 | 1416 | rVB6 | 5396   | 8127   | 0.10%  | 0.044% |
| 43 | 10.579 | 1416 | 1423 | 1429 | rBV  | 95761  | 168532 | 1.98%  | 0.917% |
| 44 | 10.701 | 1437 | 1443 | 1449 | rBV2 | 10983  | 23308  | 0.27%  | 0.127% |
| 45 | 10.774 | 1451 | 1455 | 1462 | rVB6 | 7125   | 12909  | 0.15%  | 0.070% |
| 46 | 10.835 | 1463 | 1465 | 1467 | rBV3 | 2871   | 3352   | 0.04%  | 0.018% |
| 47 | 10.927 | 1473 | 1480 | 1494 | rBV  | 194275 | 349564 | 4.10%  | 1.901% |
| 48 | 11.030 | 1495 | 1497 | 1500 | rVB4 | 1982   | 1226   | 0.01%  | 0.007% |
| 49 | 11.079 | 1501 | 1505 | 1506 | rBV4 | 2731   | 2783   | 0.03%  | 0.015% |
| 50 | 11.183 | 1520 | 1522 | 1525 | rVB3 | 1549   | 1283   | 0.02%  | 0.007% |
| 51 | 11.238 | 1528 | 1531 | 1532 | rBV3 | 865    | 776    | 0.01%  | 0.004% |
| 52 | 11.262 | 1532 | 1535 | 1536 | rBV2 | 1137   | 1021   | 0.01%  | 0.006% |
| 53 | 11.292 | 1536 | 1540 | 1543 | rVB5 | 1888   | 3166   | 0.04%  | 0.017% |
| 54 | 11.402 | 1556 | 1558 | 1564 | rVB5 | 1877   | 2666   | 0.03%  | 0.015% |
| 55 | 11.451 | 1564 | 1566 | 1572 | rVB4 | 2565   | 3435   | 0.04%  | 0.019% |
| 56 | 11.512 | 1572 | 1576 | 1578 | rBV3 | 2017   | 2738   | 0.03%  | 0.015% |
| 57 | 11.555 | 1581 | 1583 | 1584 | rVV2 | 915    | 830    | 0.01%  | 0.005% |
| 58 | 11.634 | 1588 | 1596 | 1603 | rVV  | 456644 | 784148 | 9.20%  | 4.265% |
| 59 | 11.713 | 1605 | 1609 | 1616 | rVB5 | 15222  | 31651  | 0.37%  | 0.172% |
| 60 | 11.835 | 1627 | 1629 | 1630 | rBV  | 1614   | 1616   | 0.02%  | 0.009% |
| 61 | 11.920 | 1640 | 1643 | 1644 | rBV3 | 1094   | 1133   | 0.01%  | 0.006% |
| 62 | 11.981 | 1648 | 1653 | 1662 | rVV2 | 28361  | 49479  | 0.58%  | 0.269% |
| 63 | 12.067 | 1666 | 1667 | 1671 | rVB4 | 999    | 1125   | 0.01%  | 0.006% |
| 64 | 12.176 | 1679 | 1685 | 1689 | rBV9 | 2366   | 4391   | 0.05%  | 0.024% |
| 65 | 12.237 | 1690 | 1695 | 1701 | rVV2 | 26066  | 45525  | 0.53%  | 0.248% |
| 66 | 12.341 | 1709 | 1712 | 1713 | rBV2 | 752    | 727    | 0.01%  | 0.004% |
| 67 | 12.365 | 1713 | 1716 | 1717 | rBV3 | 1188   | 1140   | 0.01%  | 0.006% |
| 68 | 12.396 | 1717 | 1721 | 1724 | rVB5 | 1360   | 1939   | 0.02%  | 0.011% |
| 69 | 12.432 | 1724 | 1727 | 1728 | rBV3 | 1257   | 1266   | 0.01%  | 0.007% |
| 70 | 12.597 | 1748 | 1754 | 1763 | rBV3 | 29970  | 69339  | 0.81%  | 0.377% |
| 71 | 12.695 | 1763 | 1770 | 1776 | rBV  | 202253 | 325530 | 3.82%  | 1.771% |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 BFHK9RE

## 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\SOM2WLM042919S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |         |         |
|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 12.756 | 1776 | 1780 | 1790 | rVB5 | 8058    | 19311   | 0.23%   | 0.105%  |
| 73  | 12.829 | 1790 | 1792 | 1794 | rBV2 | 869     | 1001    | 0.01%   | 0.005%  |
| 74  | 12.847 | 1794 | 1795 | 1797 | rVB2 | 1169    | 683     | 0.01%   | 0.004%  |
| 75  | 12.871 | 1797 | 1799 | 1801 | rBV3 | 1214    | 1048    | 0.01%   | 0.006%  |
| 76  | 12.963 | 1807 | 1814 | 1820 | rBV7 | 7365    | 14660   | 0.17%   | 0.080%  |
| 77  | 13.012 | 1820 | 1822 | 1824 | rBV3 | 1553    | 1861    | 0.02%   | 0.010%  |
| 78  | 13.115 | 1834 | 1839 | 1843 | rBV6 | 2615    | 4896    | 0.06%   | 0.027%  |
| 79  | 13.170 | 1843 | 1848 | 1849 | rVV2 | 6402    | 9651    | 0.11%   | 0.052%  |
| 80  | 13.201 | 1849 | 1853 | 1859 | rVB2 | 19589   | 33187   | 0.39%   | 0.181%  |
| 81  | 13.304 | 1864 | 1870 | 1879 | rVB  | 15445   | 23700   | 0.28%   | 0.129%  |
| 82  | 13.414 | 1879 | 1888 | 1893 | rBV2 | 45661   | 81886   | 0.96%   | 0.445%  |
| 83  | 13.512 | 1895 | 1904 | 1906 | rBV7 | 11126   | 24434   | 0.29%   | 0.133%  |
| 84  | 13.560 | 1906 | 1912 | 1917 | rBV  | 256835  | 394138  | 4.62%   | 2.144%  |
| 85  | 13.768 | 1940 | 1946 | 1952 | rBV5 | 12836   | 23599   | 0.28%   | 0.128%  |
| 86  | 13.853 | 1953 | 1960 | 1966 | rVV  | 197044  | 336149  | 3.94%   | 1.828%  |
| 87  | 13.908 | 1966 | 1969 | 1973 | rVV3 | 9591    | 16361   | 0.19%   | 0.089%  |
| 88  | 13.950 | 1974 | 1976 | 1982 | rVB4 | 5863    | 9149    | 0.11%   | 0.050%  |
| 89  | 14.103 | 1992 | 2001 | 2016 | rBV  | 610393  | 1005642 | 11.79%  | 5.470%  |
| 90  | 14.274 | 2021 | 2029 | 2055 | rVV  | 5589306 | 8527183 | 100.00% | 46.382% |
| 91  | 14.463 | 2056 | 2060 | 2065 | rVB3 | 17826   | 28587   | 0.34%   | 0.155%  |
| 92  | 15.371 | 2206 | 2209 | 2212 | rBV4 | 2545    | 3310    | 0.04%   | 0.018%  |
| 93  | 15.444 | 2212 | 2221 | 2226 | rVV4 | 23620   | 49615   | 0.58%   | 0.270%  |
| 94  | 15.499 | 2226 | 2230 | 2236 | rVB2 | 5982    | 10591   | 0.12%   | 0.058%  |
| 95  | 15.615 | 2245 | 2249 | 2252 | rVB6 | 2118    | 2827    | 0.03%   | 0.015%  |
| 96  | 15.816 | 2276 | 2282 | 2286 | rBV4 | 6005    | 10412   | 0.12%   | 0.057%  |
| 97  | 15.895 | 2293 | 2295 | 2299 | rBV4 | 2156    | 1772    | 0.02%   | 0.010%  |
| 98  | 16.176 | 2337 | 2341 | 2343 | rBV4 | 996     | 1004    | 0.01%   | 0.005%  |
| 99  | 16.200 | 2343 | 2345 | 2347 | rBV3 | 1079    | 964     | 0.01%   | 0.005%  |
| 100 | 16.566 | 2403 | 2405 | 2408 | rBV4 | 985     | 751     | 0.01%   | 0.004%  |

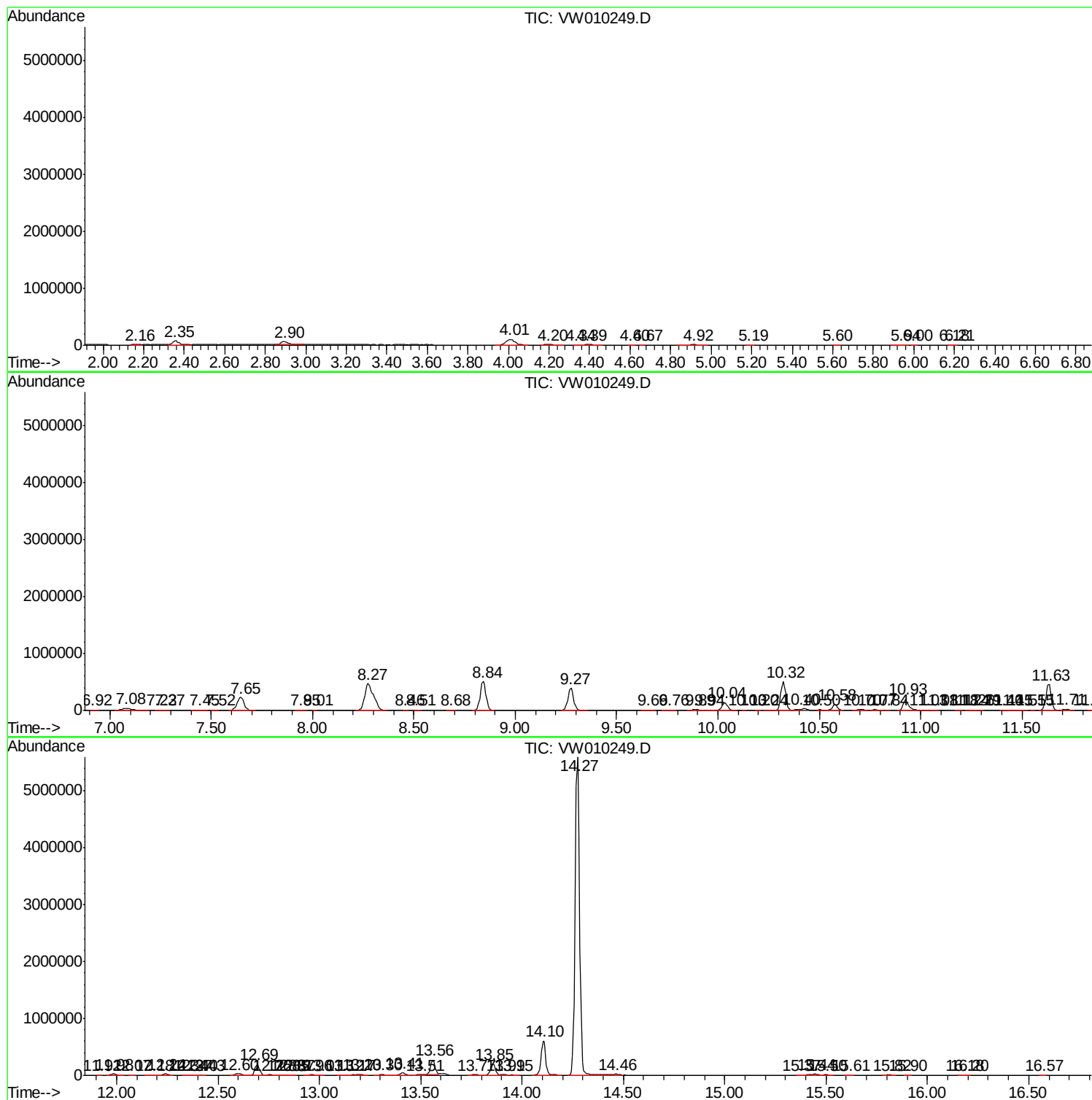
Sum of corrected areas: 18384619

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
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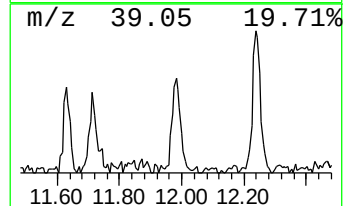
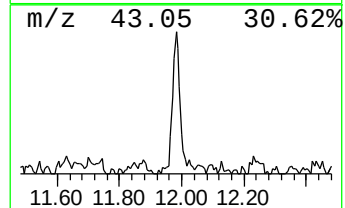
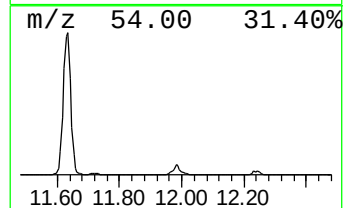
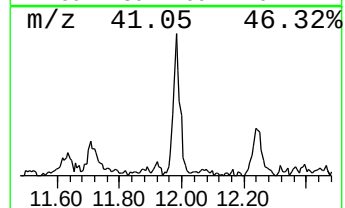
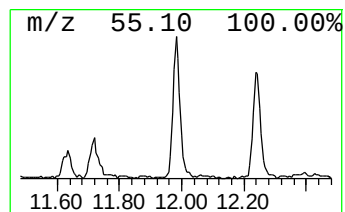
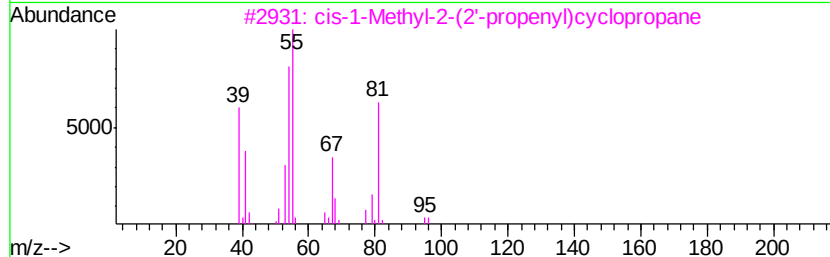
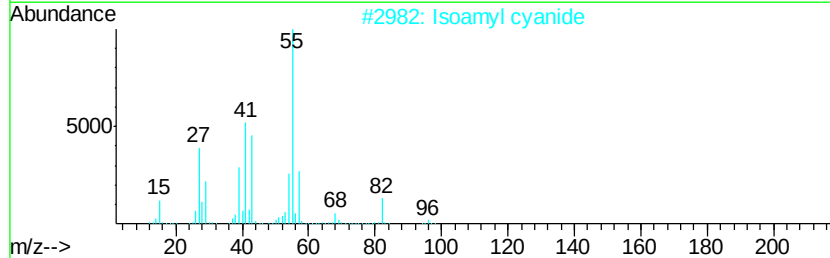
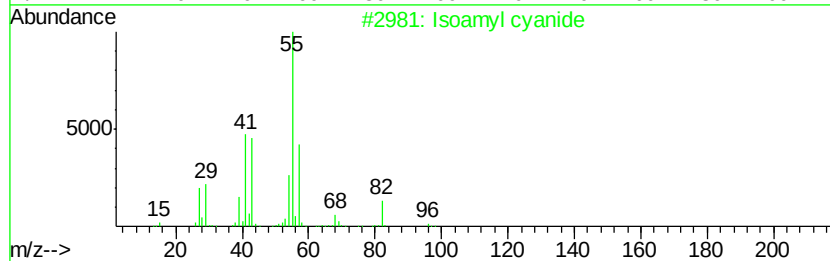
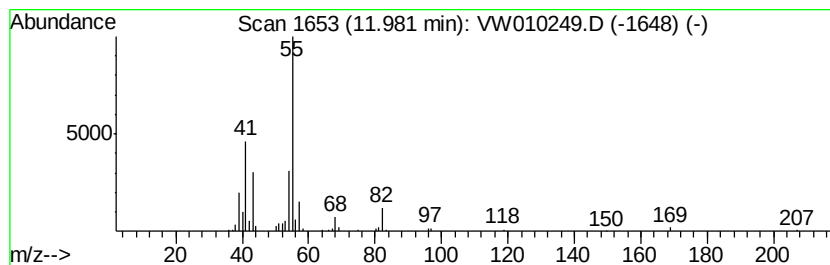
Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Isoamyl cyanide Concentration Rank 9

| R.T.    | EstConc   | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|-----------|-------------------------------------|------------------|---------|-------------|------|
| 11.98   | 1.58 ug/L | 49479                               | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5         | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |           | Isoamyl cyanide                     | 97               | C6H11N  | 000542-54-1 | 59   |
| 2       |           | Isoamyl cyanide                     | 97               | C6H11N  | 000542-54-1 | 43   |
| 3       |           | cis-1-Methyl-2-(2'-propenyl)cycl... | 96               | C7H12   | 076588-97-1 | 35   |
| 4       |           | Acetamide, N-2-propynyl-            | 97               | C5H7NO  | 065881-41-6 | 28   |
| 5       |           | Isoamyl cyanide                     | 97               | C6H11N  | 000542-54-1 | 17   |



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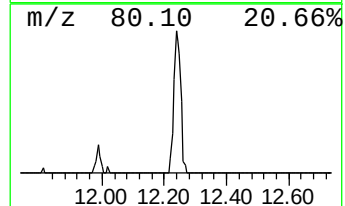
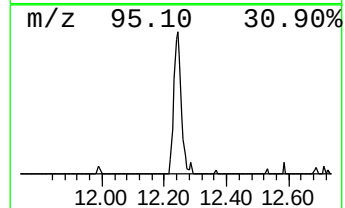
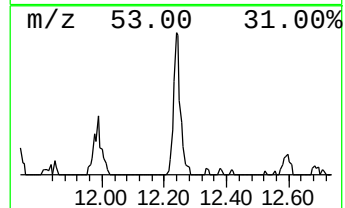
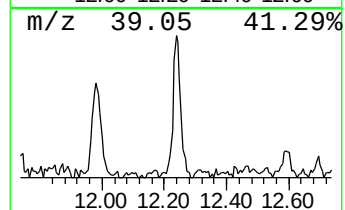
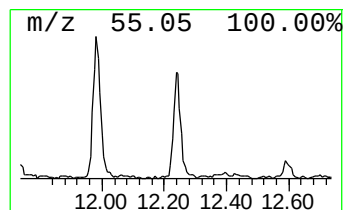
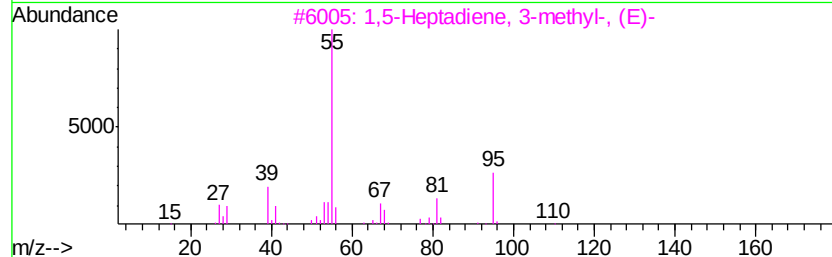
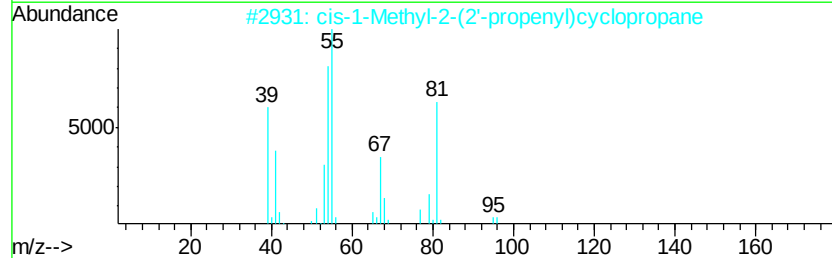
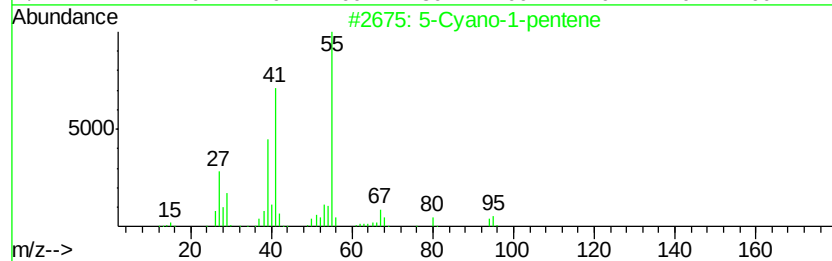
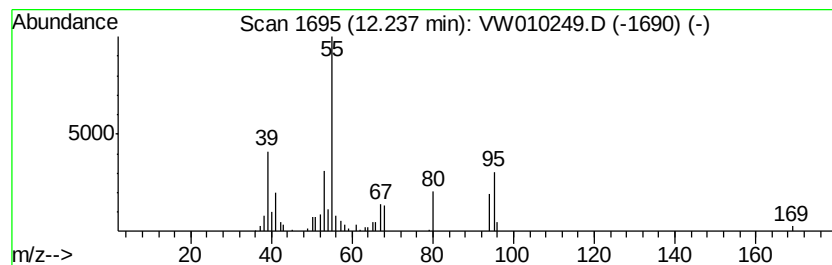
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 5-Cyano-1-pentene Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.24 | 1.45 ug/L | 45525 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 5-Cyano-1-pentene                   | 95  | C6H9N   | 005048-19-1 | 50   |
| 2    |    | cis-1-Methyl-2-(2'-propenyl)cycl... | 96  | C7H12   | 076588-97-1 | 47   |
| 3    |    | 1,5-Heptadiene, 3-methyl-, (E)-     | 110 | C8H14   | 050592-72-8 | 35   |
| 4    |    | 1,5-Heptadiene, 3-methyl-           | 110 | C8H14   | 004894-62-6 | 25   |
| 5    |    | 3,8-Dioxatricyclo[5.1.0.0(2,4)]o... | 138 | C8H10O2 | 053966-43-1 | 17   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

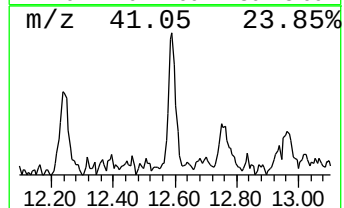
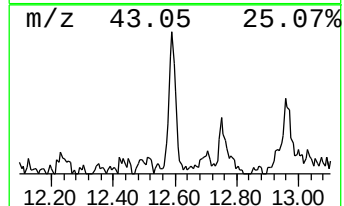
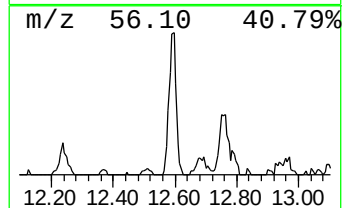
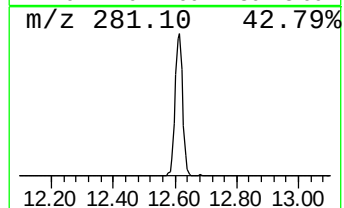
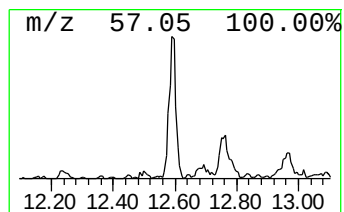
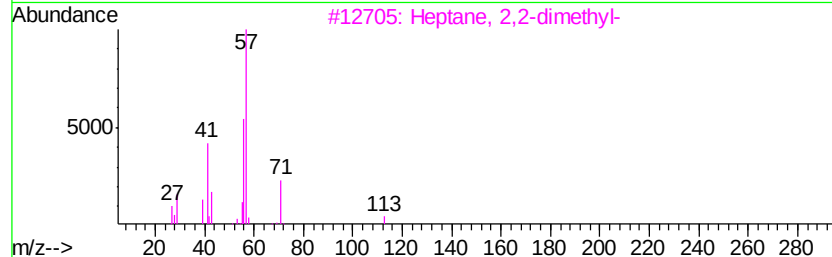
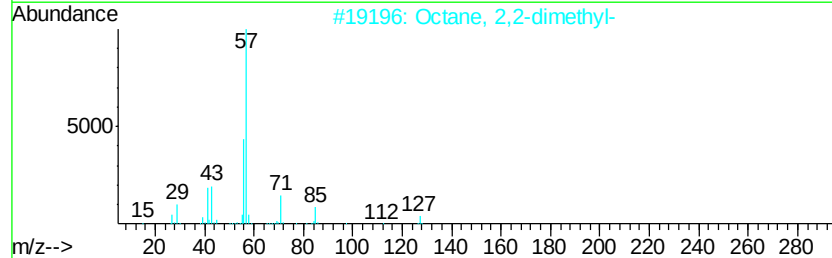
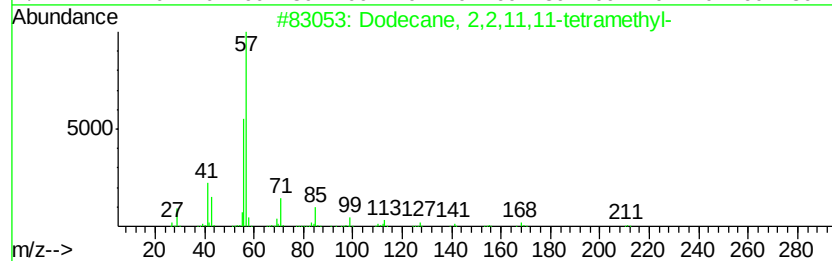
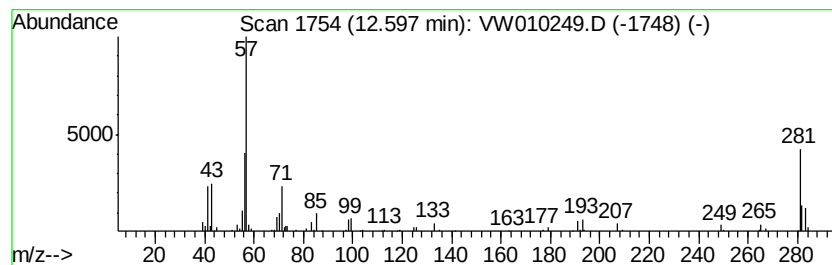
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.60 | 4.40 ug/L | 69339 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2,2,11,11-tetramethyl- | 226 | C16H34  | 127204-12-0 | 38   |
| 2    |    | Octane, 2,2-dimethyl-            | 142 | C10H22  | 015869-87-1 | 38   |
| 3    |    | Heptane, 2,2-dimethyl-           | 128 | C9H20   | 001071-26-7 | 38   |
| 4    |    | Decane, 2,2,6-trimethyl-         | 184 | C13H28  | 062237-97-2 | 38   |
| 5    |    | Pentane, 2,2,3,4-tetramethyl-    | 128 | C9H20   | 001186-53-4 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

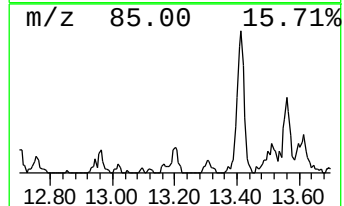
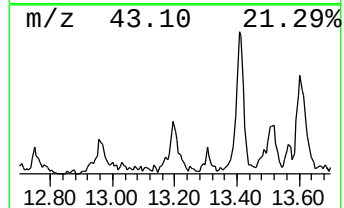
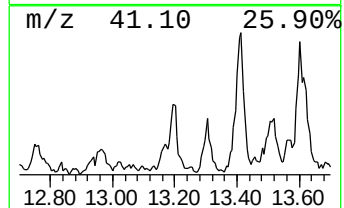
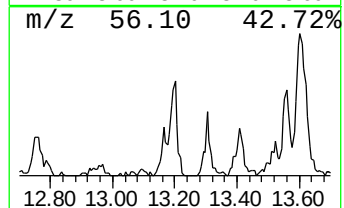
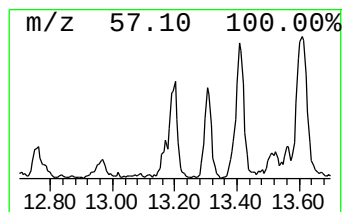
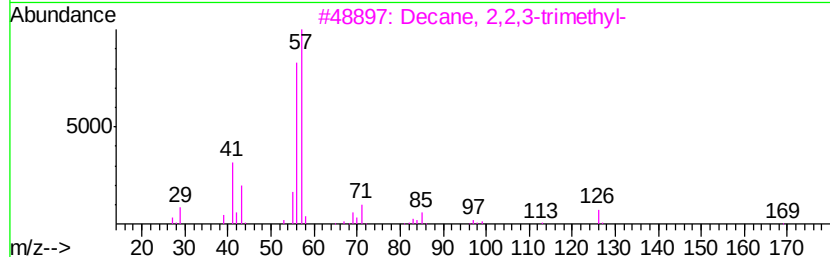
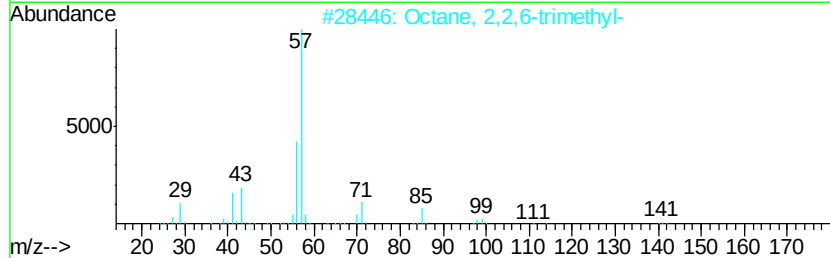
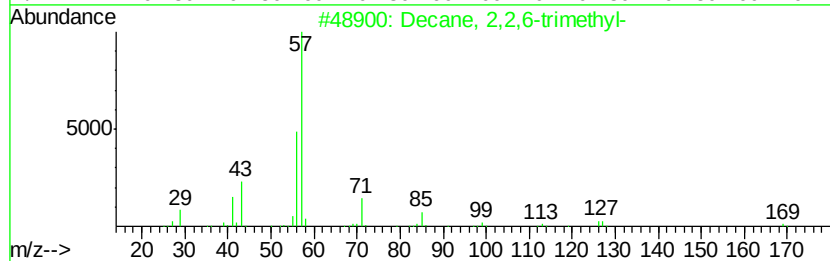
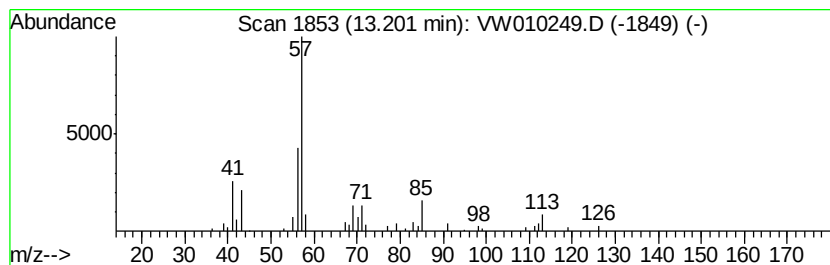
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.20 | 2.11 ug/L | 33187 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,2,6-trimethyl-       | 184 | C13H28  | 062237-97-2 | 53   |
| 2    |    | Octane, 2,2,6-trimethyl-       | 156 | C11H24  | 062016-28-8 | 53   |
| 3    |    | Decane, 2,2,3-trimethyl-       | 184 | C13H28  | 062338-09-4 | 50   |
| 4    |    | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20   | 016747-32-3 | 50   |
| 5    |    | Hexane, 2,2,4-trimethyl-       | 128 | C9H20   | 016747-26-5 | 47   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

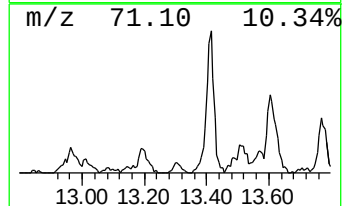
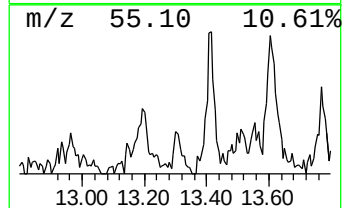
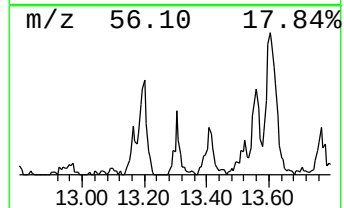
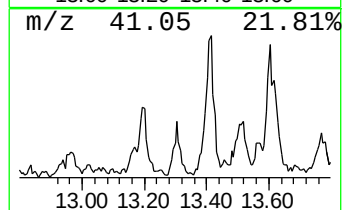
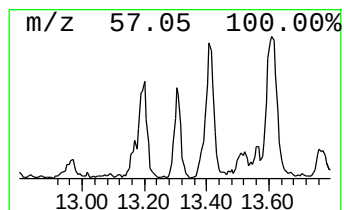
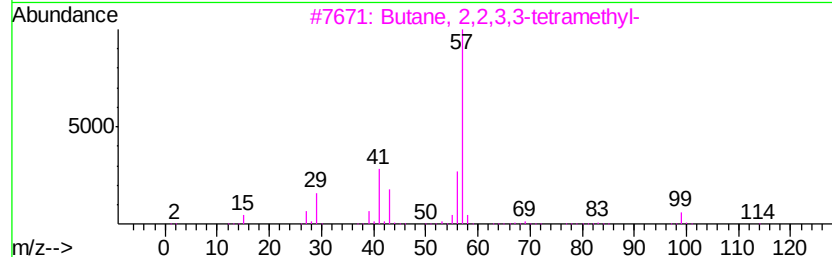
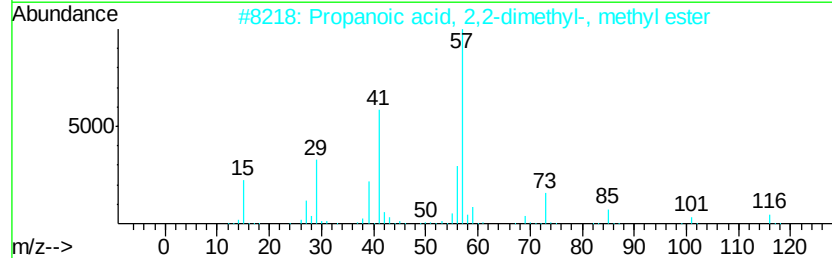
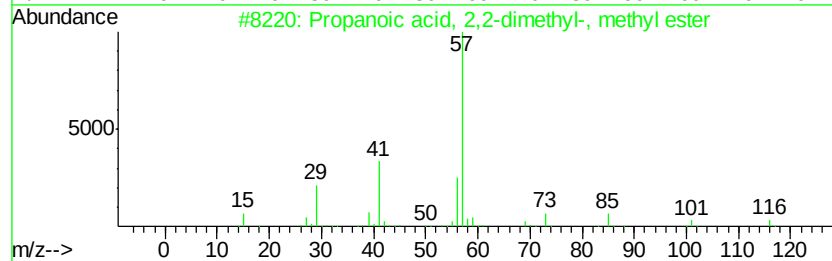
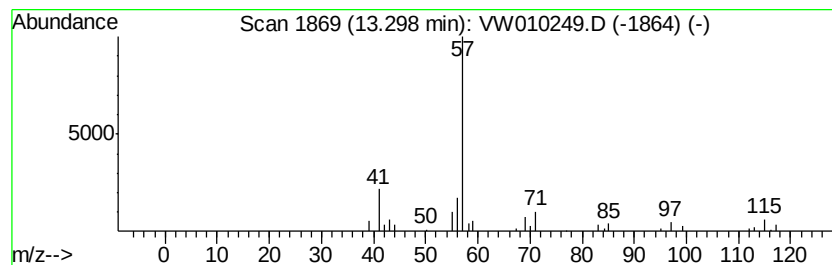
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 6 Propanoic acid, 2,2-dimethy... Concentration Rank 10

| R.T.      | EstConc                             | Area  | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|-------|------------------------|-------------|------|
| 13.30     | 1.50 ug/L                           | 23700 | 1,4-Dichlorobenzene-d4 | 13.56       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm                | CAS#        | Qual |
| 1         | Propanoic acid, 2,2-dimethyl-, m... | 116   | C6H12O2                | 000598-98-1 | 59   |
| 2         | Propanoic acid, 2,2-dimethyl-, m... | 116   | C6H12O2                | 000598-98-1 | 59   |
| 3         | Butane, 2,2,3,3-tetramethyl-        | 114   | C8H18                  | 000594-82-1 | 47   |
| 4         | Pentane, 2,2,4,4-tetramethyl-       | 128   | C9H20                  | 001070-87-7 | 47   |
| 5         | Tridecane, 2,2,4,10,12,12-hexame... | 394   | C28H58                 | 003035-75-4 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

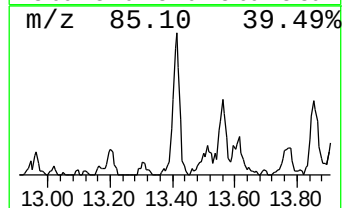
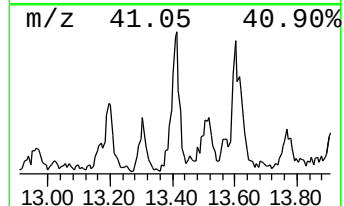
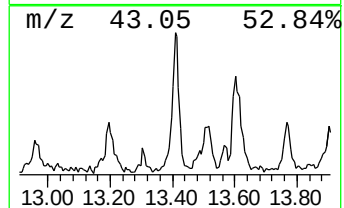
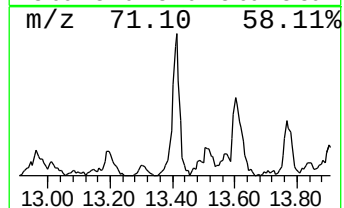
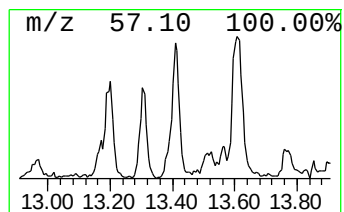
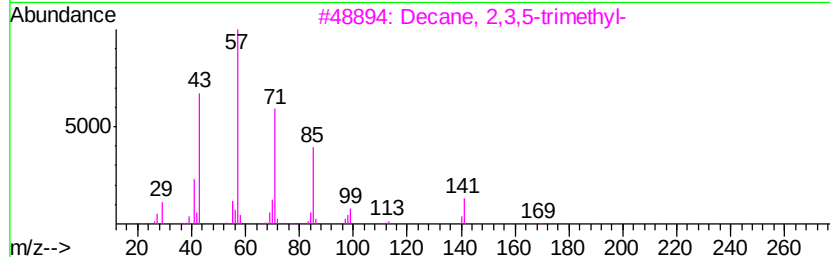
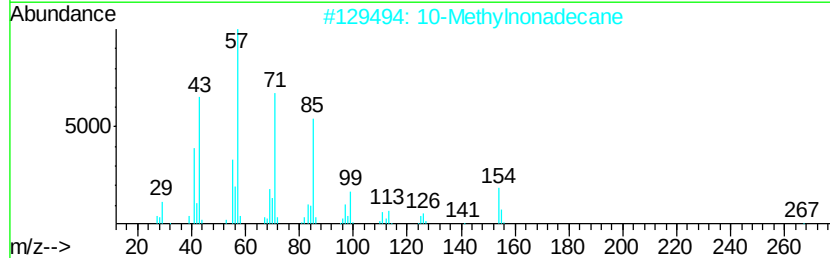
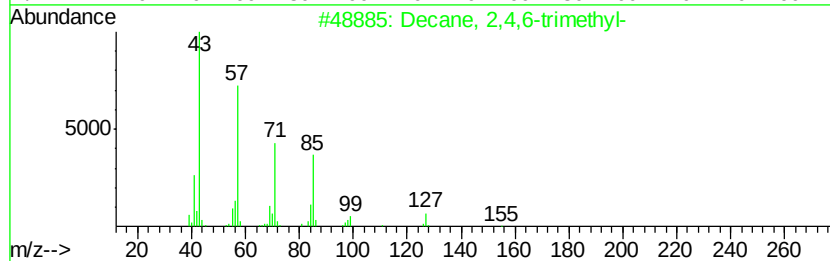
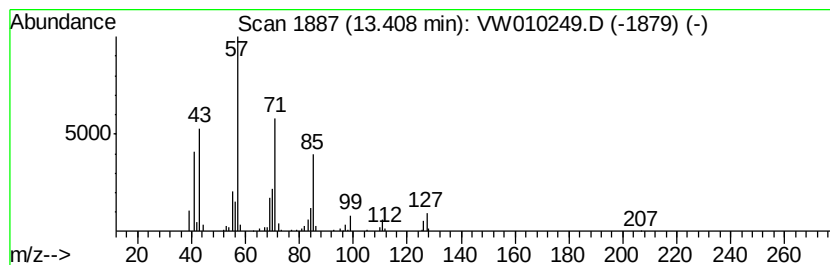
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.41 | 5.19 ug/L | 81886 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of 5 | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|------|-----------------------------------|-----|-----------|--------------|------|
| 1    |      | Decane, 2,4,6-trimethyl-          | 184 | C13H28    | 062108-27-4  | 72   |
| 2    |      | 10-Methylnonadecane               | 282 | C20H42    | 056862-62-5  | 64   |
| 3    |      | Decane, 2,3,5-trimethyl-          | 184 | C13H28    | 062238-11-3  | 64   |
| 4    |      | Sulfurous acid, butyl nonyl ester | 264 | C13H28O3S | 1000309-17-6 | 59   |
| 5    |      | Undecane, 3,7-dimethyl-           | 184 | C13H28    | 017301-29-0  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

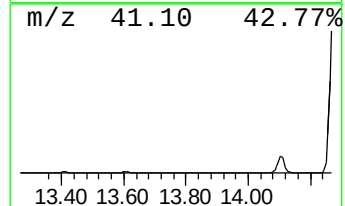
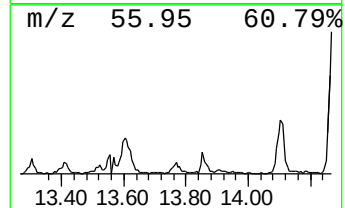
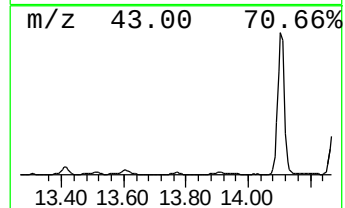
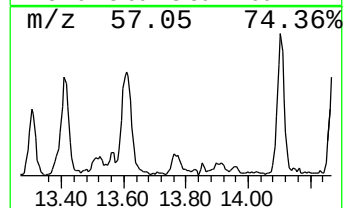
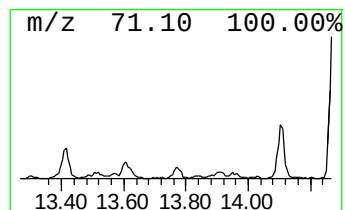
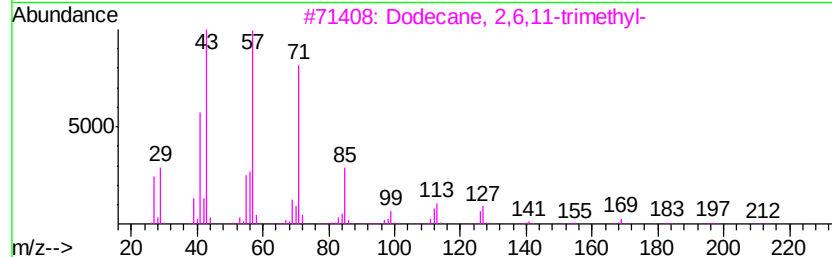
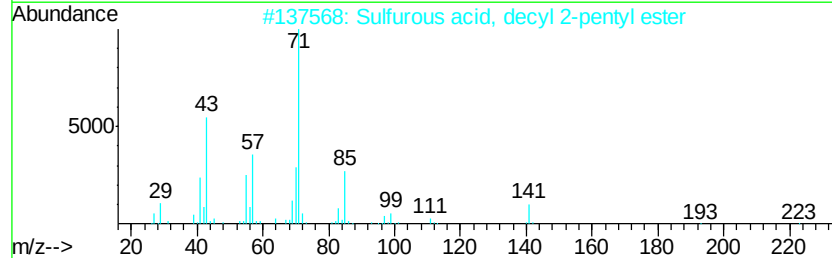
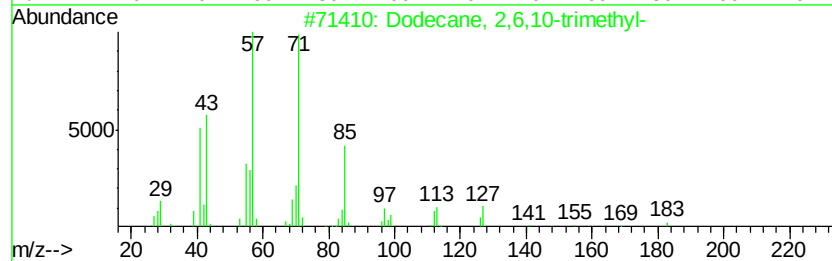
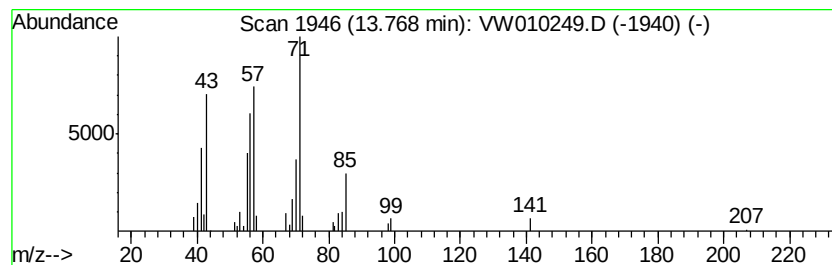
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.77 | 1.50 ug/L | 23599 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32    | 003891-98-3  | 64   |
| 2    |    |   | Sulfurous acid, decyl 2-pentyl e... | 292 | C15H32O3S | 1000309-15-9 | 59   |
| 3    |    |   | Dodecane, 2,6,11-trimethyl-         | 212 | C15H32    | 031295-56-4  | 53   |
| 4    |    |   | Decane, 2,3,4-trimethyl-            | 184 | C13H28    | 062238-15-7  | 53   |
| 5    |    |   | Sulfurous acid, isobutyl 2-penty... | 208 | C9H20O3S  | 1000309-15-2 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

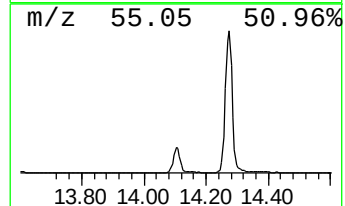
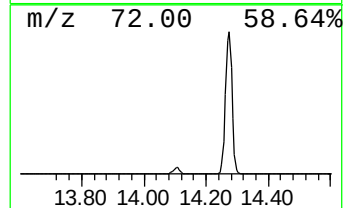
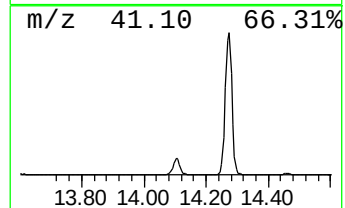
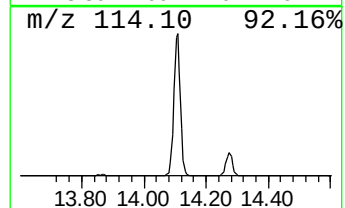
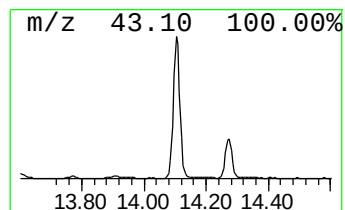
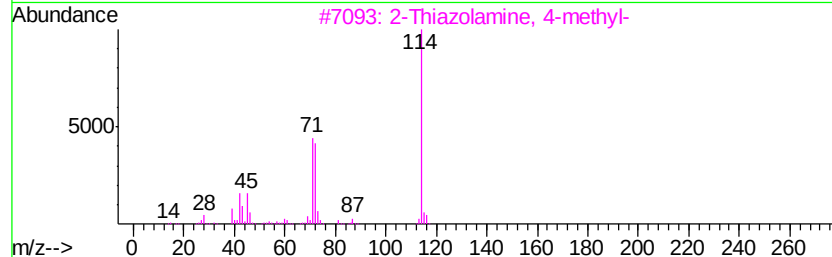
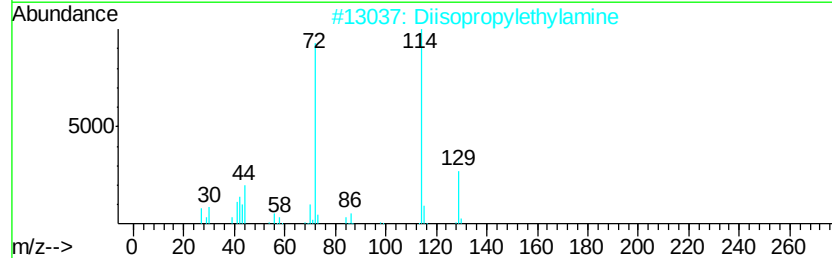
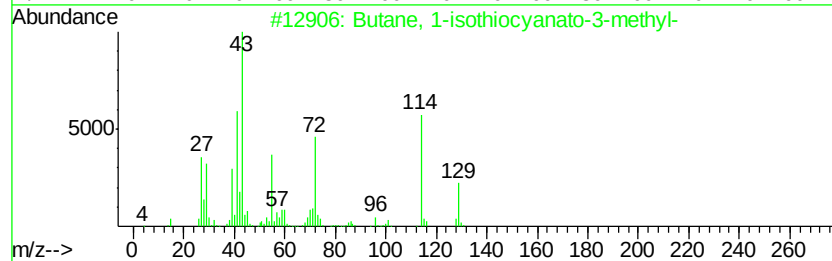
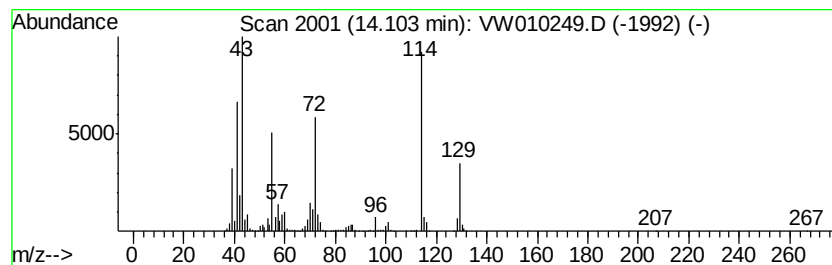
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 9 Butane, 1-isothiocyanato-3-... Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 14.10   | 63.79 ug/L | 1005640                             | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Butane, 1-isothiocyanato-3-methyl-  | 129 C6H11NS            | 000628-03-5 87 |
| 2       |            | Diisopropylethylamine               | 129 C8H19N             | 007087-68-5 72 |
| 3       |            | 2-Thiazolamine, 4-methyl-           | 114 C4H6N2S            | 001603-91-4 53 |
| 4       |            | 2H-Imidazole-2-thione, 1,3-dihyd... | 114 C4H6N2S            | 000060-56-0 47 |
| 5       |            | 2-Diisopropylaminoethyl ethyl su... | 189 C10H23NS           | 110501-54-7 42 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

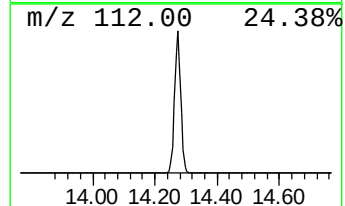
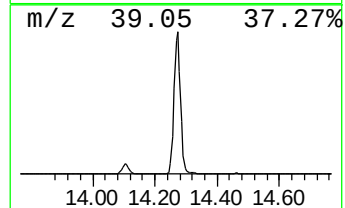
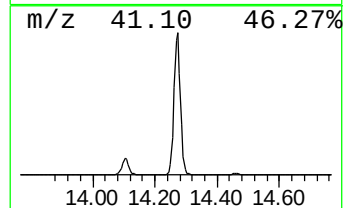
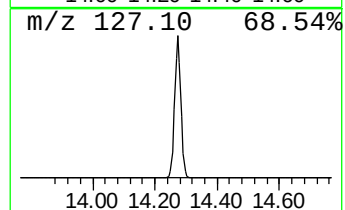
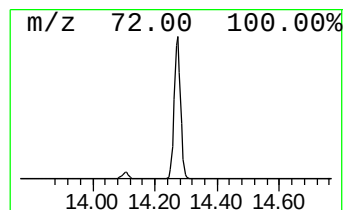
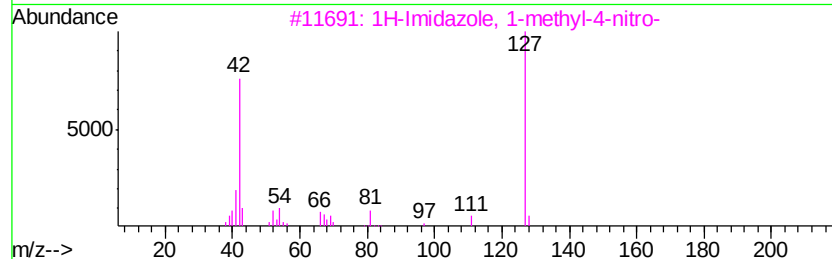
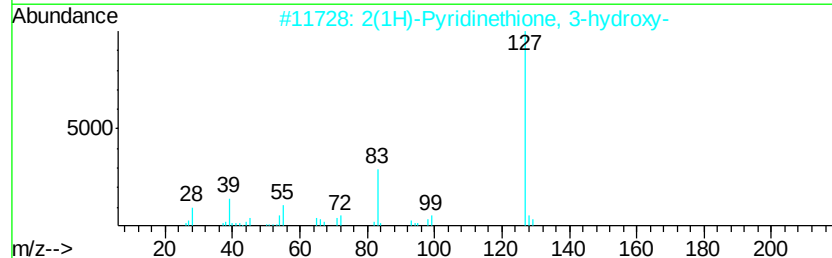
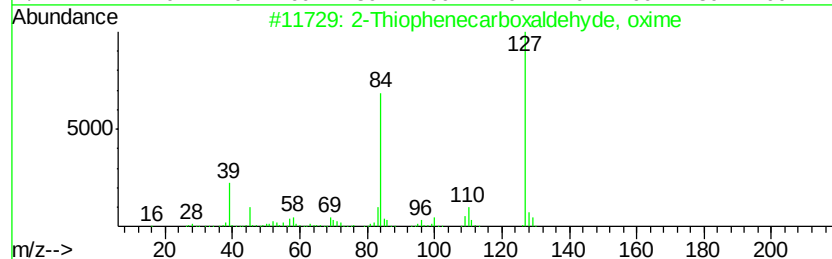
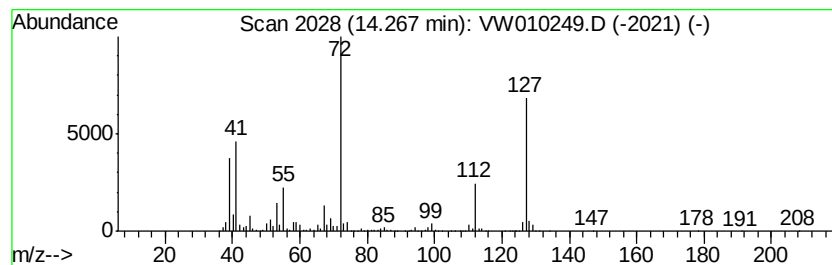
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown-01 Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.27 | 540.88 ug/L | 8527180 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Thiophenecarboxaldehyde, oxime | 127 | C5H5NOS  | 029683-84-9 | 38   |
| 2    |    | 2(1H)-Pyridinethione, 3-hydroxy- | 127 | C5H5NOS  | 023003-22-7 | 38   |
| 3    |    | 1H-Imidazole, 1-methyl-4-nitro-  | 127 | C4H5N3O2 | 003034-41-1 | 30   |
| 4    |    | o-Chloroaniline                  | 127 | C6H6ClN  | 000095-51-2 | 27   |
| 5    |    | 1-Butene, 4-isothiocyanato-      | 113 | C5H7NS   | 003386-97-8 | 27   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

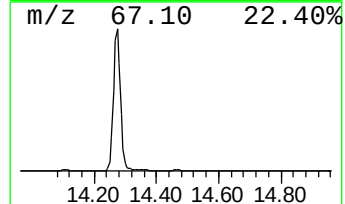
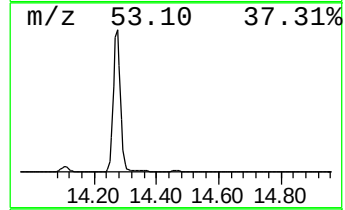
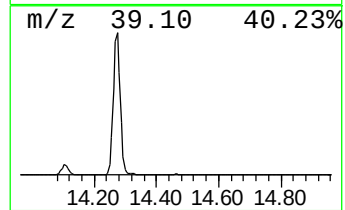
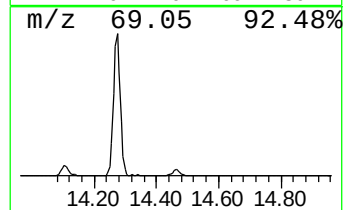
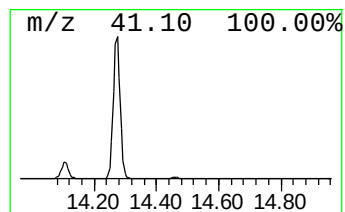
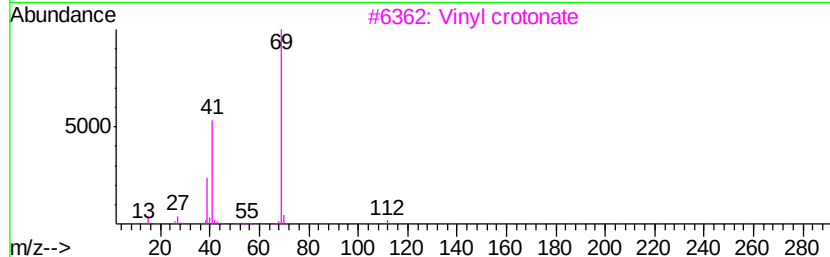
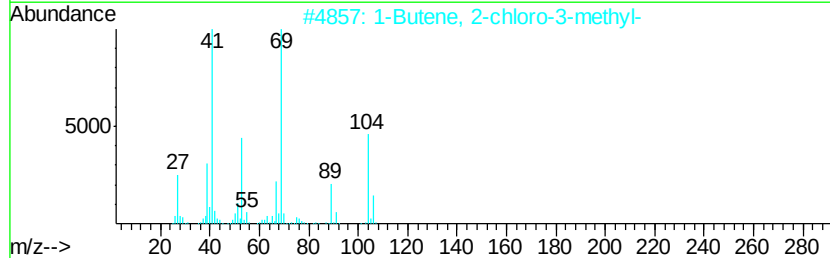
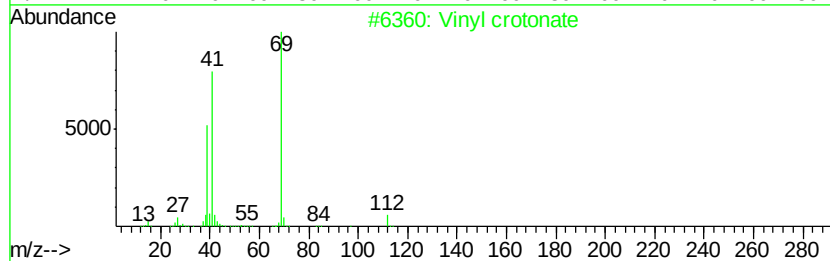
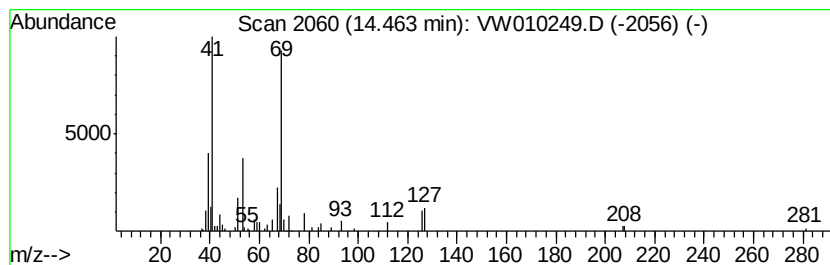
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Vinyl crotonate Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.46 | 1.81 ug/L | 28587 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------------------|-----|---------|-------------|------|
| 1       |   | Vinyl crotonate              | 112 | C6H8O2  | 014861-06-4 | 50   |
| 2       |   | 1-Butene, 2-chloro-3-methyl- | 104 | C5H9Cl  | 017773-64-7 | 47   |
| 3       |   | Vinyl crotonate              | 112 | C6H8O2  | 014861-06-4 | 47   |
| 4       |   | 2-Butyn-1-ol                 | 70  | C4H6O   | 000764-01-2 | 40   |
| 5       |   | 2-Butyn-1-ol                 | 70  | C4H6O   | 000764-01-2 | 40   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010249.D  
Acq On : 01 May 2019 15:52  
Operator : SY/VA  
Sample : K2602-16RE  
Misc : 2.81G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

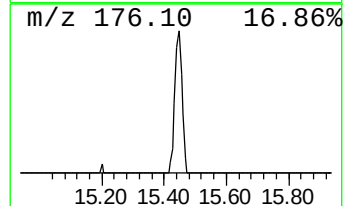
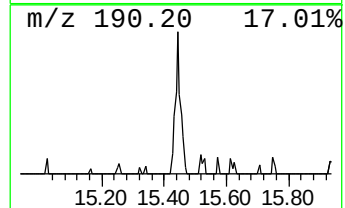
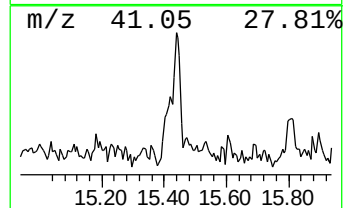
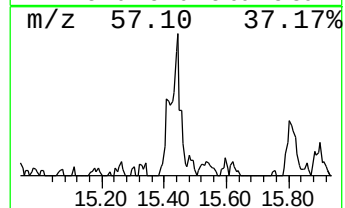
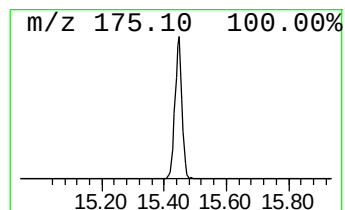
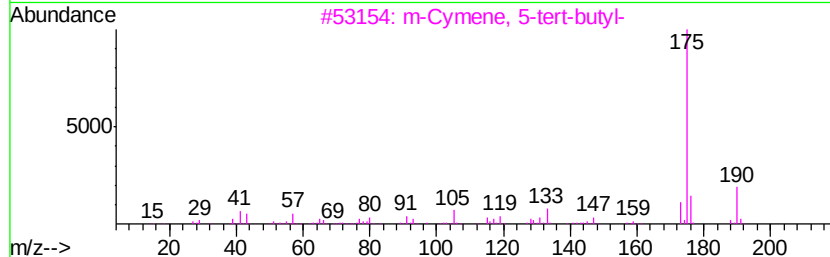
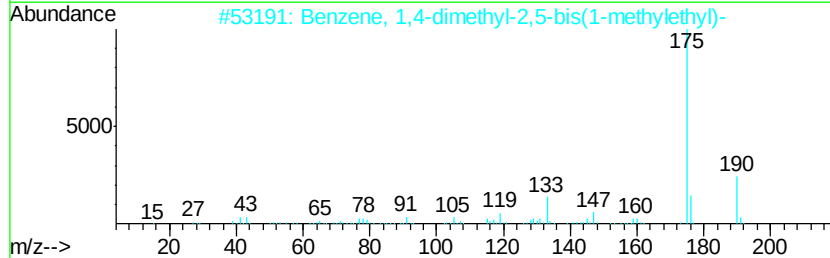
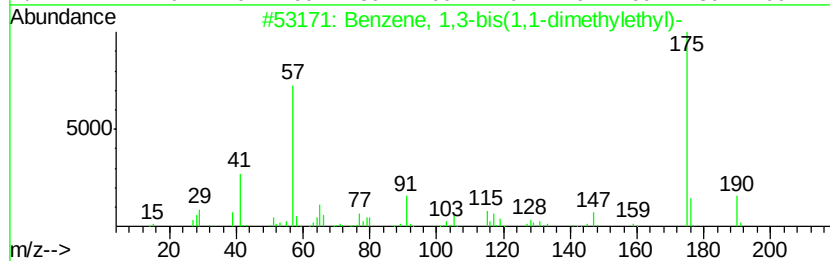
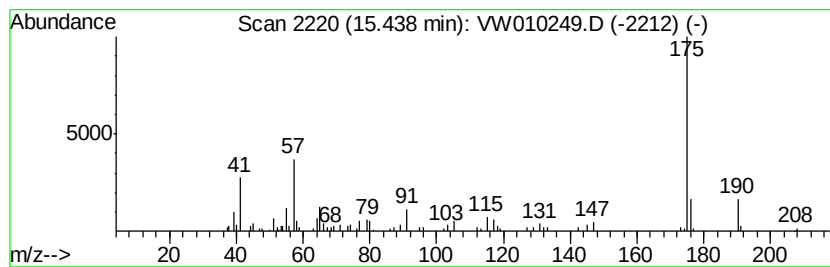
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.44 | 3.15 ug/L | 49615 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzene, 1,3-bis(1,1-dimethyleth... | 190 | C14H22   | 001014-60-4 | 90   |
| 2    |    | Benzene, 1,4-dimethyl-2,5-bis(1-... | 190 | C14H22   | 010375-96-9 | 86   |
| 3    |    | m-Cymene, 5-tert-butyl-             | 190 | C14H22   | 029577-19-3 | 86   |
| 4    |    | Precocene I                         | 190 | C12H14O2 | 017598-02-6 | 72   |
| 5    |    | 2,2'-Ethylidenebis(5-methylfuran)   | 190 | C12H14O2 | 003209-79-8 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW050119\  
 Data File : VW010249.D  
 Acq On : 01 May 2019 15:52  
 Operator : SY/VA  
 Sample : K2602-16RE  
 Misc : 2.81G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFHK9RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.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 |
| Isoamyl cyanide      | 11.98 | 1.6     | ug/L  | 49479    | 2                     | 11.63 | 784148 | 25.0 |
| 5-Cyano-1-pentene    | 12.24 | 1.5     | ug/L  | 45525    | 2                     | 11.63 | 784148 | 25.0 |
| (DEL) Alkane: Str... | 12.60 | 4.4     | ug/L  | 69339    | 3                     | 13.56 | 394138 | 25.0 |
| (DEL) Alkane: Str... | 13.20 | 2.1     | ug/L  | 33187    | 3                     | 13.56 | 394138 | 25.0 |
| Propanoic acid, 2... | 13.30 | 1.5     | ug/L  | 23700    | 3                     | 13.56 | 394138 | 25.0 |
| (DEL) Alkane: Str... | 13.41 | 5.2     | ug/L  | 81886    | 3                     | 13.56 | 394138 | 25.0 |
| (DEL) Alkane: Str... | 13.77 | 1.5     | ug/L  | 23599    | 3                     | 13.56 | 394138 | 25.0 |
| Butane, 1-isothio... | 14.10 | 63.8    | ug/L  | 1005640  | 3                     | 13.56 | 394138 | 25.0 |
| unknown-01           | 14.27 | 540.9   | ug/L  | 8527180  | 3                     | 13.56 | 394138 | 25.0 |
| Vinyl crotonate      | 14.46 | 1.8     | ug/L  | 28587    | 3                     | 13.56 | 394138 | 25.0 |
| Benzene, 1,3-bis(... | 15.44 | 3.1     | ug/L  | 49615    | 3                     | 13.56 | 394138 | 25.0 |