

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
 Data File : VW010239.D  
 Acq On : 01 May 2019 06:09  
 Operator : SY/VA  
 Sample : K2604-10  
 Misc : 5.09G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAJ84

## 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         | 2.056       | 20            | 25          | 26           | rBV2     | 2841           | 4668          | 0.02%           | 0.005%        |
| 2         | 2.154       | 37            | 41          | 49           | rBV      | 8924           | 19666         | 0.09%           | 0.022%        |
| 3         | 2.355       | 68            | 74          | 89           | rVB      | 72996          | 163309        | 0.74%           | 0.183%        |
| 4         | 2.581       | 109           | 111         | 112          | rBV2     | 2531           | 1467          | 0.01%           | 0.002%        |
| 5         | 2.892       | 155           | 162         | 177          | rVB      | 56310          | 158244        | 0.71%           | 0.178%        |
| 6         | 4.013       | 335           | 346         | 360          | rBV      | 140706         | 487050        | 2.20%           | 0.547%        |
| 7         | 4.227       | 380           | 381         | 386          | rVB2     | 1782           | 1073          | 0.00%           | 0.001%        |
| 8         | 4.294       | 390           | 392         | 393          | rBV      | 1248           | 817           | 0.00%           | 0.001%        |
| 9         | 4.391       | 399           | 408         | 409          | rBV3     | 4957           | 9654          | 0.04%           | 0.011%        |
| 10        | 4.489       | 421           | 424         | 425          | rBV2     | 1029           | 719           | 0.00%           | 0.001%        |
| 11        | 4.672       | 452           | 454         | 457          | rBV2     | 922            | 947           | 0.00%           | 0.001%        |
| 12        | 4.903       | 482           | 492         | 494          | rBV      | 18308          | 40763         | 0.18%           | 0.046%        |
| 13        | 5.165       | 531           | 535         | 536          | rBV      | 489            | 762           | 0.00%           | 0.001%        |
| 14        | 5.269       | 550           | 552         | 555          | rVB2     | 590            | 604           | 0.00%           | 0.001%        |
| 15        | 5.403       | 572           | 574         | 578          | rVB3     | 579            | 681           | 0.00%           | 0.001%        |
| 16        | 5.763       | 630           | 633         | 636          | rBV2     | 846            | 1335          | 0.01%           | 0.001%        |
| 17        | 5.854       | 647           | 648         | 650          | rVV2     | 767            | 648           | 0.00%           | 0.001%        |
| 18        | 5.928       | 654           | 660         | 663          | rVV6     | 1642           | 3623          | 0.02%           | 0.004%        |
| 19        | 6.025       | 672           | 676         | 677          | rVB2     | 583            | 656           | 0.00%           | 0.001%        |
| 20        | 6.049       | 677           | 680         | 685          | rVB2     | 619            | 833           | 0.00%           | 0.001%        |
| 21        | 6.117       | 688           | 691         | 695          | rVB2     | 688            | 961           | 0.00%           | 0.001%        |
| 22        | 6.178       | 699           | 701         | 703          | rBV2     | 854            | 675           | 0.00%           | 0.001%        |
| 23        | 6.598       | 769           | 770         | 773          | rVB      | 733            | 683           | 0.00%           | 0.001%        |
| 24        | 7.007       | 833           | 837         | 839          | rBV3     | 613            | 770           | 0.00%           | 0.001%        |
| 25        | 7.074       | 839           | 848         | 865          | rBV      | 53836          | 171690        | 0.78%           | 0.193%        |
| 26        | 7.208       | 868           | 870         | 872          | rVB2     | 1092           | 758           | 0.00%           | 0.001%        |
| 27        | 7.464       | 910           | 912         | 913          | rBV2     | 1323           | 934           | 0.00%           | 0.001%        |
| 28        | 7.519       | 919           | 921         | 922          | rBV2     | 1347           | 1082          | 0.00%           | 0.001%        |
| 29        | 7.647       | 931           | 942         | 956          | rVB      | 345360         | 837734        | 3.78%           | 0.941%        |
| 30        | 7.756       | 959           | 960         | 962          | rVB      | 1589           | 711           | 0.00%           | 0.001%        |
| 31        | 8.043       | 1004          | 1007        | 1009         | rBV      | 731            | 742           | 0.00%           | 0.001%        |
| 32        | 8.128       | 1019          | 1021        | 1024         | rVB2     | 728            | 716           | 0.00%           | 0.001%        |
| 33        | 8.275       | 1035          | 1045        | 1060         | rBV2     | 573580         | 1792210       | 8.09%           | 2.014%        |
| 34        | 8.427       | 1069          | 1070        | 1074         | rVB3     | 1291           | 1028          | 0.00%           | 0.001%        |

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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 | 8.610  | 1098 | 1100 | 1101 | rBV2 | 779     | 651     | 0.00%  | 0.001% |
| 36 | 8.628  | 1101 | 1103 | 1105 | rVB3 | 963     | 702     | 0.00%  | 0.001% |
| 37 | 8.842  | 1129 | 1138 | 1148 | rBV  | 706986  | 1364073 | 6.16%  | 1.533% |
| 38 | 9.086  | 1172 | 1178 | 1187 | rVB5 | 12961   | 32095   | 0.14%  | 0.036% |
| 39 | 9.201  | 1195 | 1197 | 1200 | rVB2 | 696     | 708     | 0.00%  | 0.001% |
| 40 | 9.275  | 1200 | 1209 | 1219 | rBV  | 450486  | 914011  | 4.13%  | 1.027% |
| 41 | 9.659  | 1266 | 1272 | 1278 | rBV5 | 2601    | 5387    | 0.02%  | 0.006% |
| 42 | 9.738  | 1282 | 1285 | 1286 | rBV2 | 997     | 1287    | 0.01%  | 0.001% |
| 43 | 9.811  | 1295 | 1297 | 1300 | rVB2 | 662     | 628     | 0.00%  | 0.001% |
| 44 | 9.896  | 1303 | 1311 | 1317 | rBV4 | 5764    | 11913   | 0.05%  | 0.013% |
| 45 | 10.030 | 1326 | 1333 | 1345 | rBV  | 193884  | 357096  | 1.61%  | 0.401% |
| 46 | 10.244 | 1365 | 1368 | 1373 | rVB4 | 2815    | 4568    | 0.02%  | 0.005% |
| 47 | 10.323 | 1373 | 1381 | 1387 | rBV  | 650522  | 1135604 | 5.13%  | 1.276% |
| 48 | 10.384 | 1387 | 1391 | 1403 | rVB  | 224638  | 402419  | 1.82%  | 0.452% |
| 49 | 10.579 | 1413 | 1423 | 1431 | rBV  | 131397  | 230077  | 1.04%  | 0.259% |
| 50 | 10.707 | 1439 | 1444 | 1450 | rVB2 | 9025    | 13942   | 0.06%  | 0.016% |
| 51 | 10.860 | 1462 | 1469 | 1474 | rBV2 | 45597   | 80948   | 0.37%  | 0.091% |
| 52 | 10.927 | 1474 | 1480 | 1491 | rVV  | 257790  | 441182  | 1.99%  | 0.496% |
| 53 | 11.067 | 1499 | 1503 | 1511 | rVB8 | 4255    | 8893    | 0.04%  | 0.010% |
| 54 | 11.274 | 1535 | 1537 | 1539 | rBV2 | 857     | 647     | 0.00%  | 0.001% |
| 55 | 11.347 | 1542 | 1549 | 1550 | rVB4 | 1516    | 2660    | 0.01%  | 0.003% |
| 56 | 11.402 | 1555 | 1558 | 1562 | rBV4 | 2488    | 3161    | 0.01%  | 0.004% |
| 57 | 11.506 | 1571 | 1575 | 1576 | rBV3 | 893     | 1110    | 0.01%  | 0.001% |
| 58 | 11.634 | 1586 | 1596 | 1605 | rBV  | 826074  | 1393138 | 6.29%  | 1.565% |
| 59 | 11.731 | 1608 | 1612 | 1617 | rVV  | 10709   | 17575   | 0.08%  | 0.020% |
| 60 | 11.841 | 1621 | 1630 | 1643 | rVV  | 54213   | 114146  | 0.52%  | 0.128% |
| 61 | 12.115 | 1672 | 1675 | 1676 | rVV3 | 2593    | 2396    | 0.01%  | 0.003% |
| 62 | 12.170 | 1676 | 1684 | 1694 | rVV2 | 2110259 | 3665149 | 16.55% | 4.118% |
| 63 | 12.347 | 1707 | 1713 | 1718 | rBV6 | 8550    | 18075   | 0.08%  | 0.020% |
| 64 | 12.609 | 1750 | 1756 | 1762 | rBV  | 29039   | 50764   | 0.23%  | 0.057% |
| 65 | 12.695 | 1762 | 1770 | 1777 | rVV  | 333172  | 548946  | 2.48%  | 0.617% |
| 66 | 12.871 | 1793 | 1799 | 1800 | rBV  | 84497   | 121376  | 0.55%  | 0.136% |
| 67 | 12.902 | 1800 | 1804 | 1807 | rVV  | 364956  | 572748  | 2.59%  | 0.644% |
| 68 | 12.945 | 1807 | 1811 | 1818 | rVB  | 1900462 | 2788362 | 12.59% | 3.133% |
| 69 | 13.103 | 1831 | 1837 | 1845 | rBV  | 1072627 | 1749898 | 7.90%  | 1.966% |
| 70 | 13.256 | 1857 | 1862 | 1864 | rBV  | 102042  | 154024  | 0.70%  | 0.173% |
| 71 | 13.304 | 1864 | 1870 | 1875 | rVV  | 3451211 | 5290801 | 23.89% | 5.945% |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAJ84

## 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  | 13.353 | 1875 | 1878 | 1886 | rVB  | 657398   | 1052067  | 4.75%   | 1.182%  |
| 73  | 13.445 | 1889 | 1893 | 1897 | rVB  | 73488    | 104271   | 0.47%   | 0.117%  |
| 74  | 13.499 | 1900 | 1902 | 1906 | rVB  | 62111    | 76090    | 0.34%   | 0.085%  |
| 75  | 13.591 | 1906 | 1917 | 1931 | rVB3 | 3280851  | 6116286  | 27.61%  | 6.872%  |
| 76  | 13.719 | 1933 | 1938 | 1940 | rBV2 | 122719   | 188218   | 0.85%   | 0.211%  |
| 77  | 13.762 | 1940 | 1945 | 1949 | rBV  | 1277394  | 2187851  | 9.88%   | 2.458%  |
| 78  | 13.853 | 1955 | 1960 | 1968 | rBV  | 473932   | 919824   | 4.15%   | 1.034%  |
| 79  | 13.938 | 1968 | 1974 | 1984 | rVB  | 4040156  | 6577981  | 29.70%  | 7.391%  |
| 80  | 14.042 | 1985 | 1991 | 1994 | rBV2 | 238559   | 442488   | 2.00%   | 0.497%  |
| 81  | 14.103 | 1997 | 2001 | 2004 | rVB  | 182477   | 250737   | 1.13%   | 0.282%  |
| 82  | 14.158 | 2004 | 2010 | 2014 | rBV  | 203053   | 390420   | 1.76%   | 0.439%  |
| 83  | 14.237 | 2014 | 2023 | 2028 | rVV2 | 786593   | 1492883  | 6.74%   | 1.677%  |
| 84  | 14.341 | 2035 | 2040 | 2044 | rVB  | 196127   | 307580   | 1.39%   | 0.346%  |
| 85  | 14.420 | 2044 | 2053 | 2056 | rBV  | 402271   | 718027   | 3.24%   | 0.807%  |
| 86  | 14.463 | 2056 | 2060 | 2064 | rVV3 | 659977   | 1116641  | 5.04%   | 1.255%  |
| 87  | 14.505 | 2064 | 2067 | 2071 | rVV  | 383350   | 551440   | 2.49%   | 0.620%  |
| 88  | 14.560 | 2071 | 2076 | 2080 | rVB3 | 332455   | 526898   | 2.38%   | 0.592%  |
| 89  | 14.694 | 2094 | 2098 | 2102 | rBV  | 108871   | 160694   | 0.73%   | 0.181%  |
| 90  | 14.798 | 2109 | 2115 | 2122 | rBV3 | 1071622  | 2176278  | 9.83%   | 2.445%  |
| 91  | 14.877 | 2122 | 2128 | 2135 | rVB2 | 937913   | 1565324  | 7.07%   | 1.759%  |
| 92  | 14.956 | 2135 | 2141 | 2151 | rBV  | 2910610  | 4714999  | 21.29%  | 5.298%  |
| 93  | 15.066 | 2154 | 2159 | 2163 | rBV2 | 176077   | 322412   | 1.46%   | 0.362%  |
| 94  | 15.182 | 2173 | 2178 | 2184 | rBV4 | 112879   | 247938   | 1.12%   | 0.279%  |
| 95  | 15.322 | 2196 | 2201 | 2203 | rBV3 | 239647   | 421911   | 1.90%   | 0.474%  |
| 96  | 15.371 | 2203 | 2209 | 2220 | rVB  | 12304552 | 22150155 | 100.00% | 24.888% |
| 97  | 15.475 | 2222 | 2226 | 2239 | rVB3 | 186349   | 474498   | 2.14%   | 0.533%  |
| 98  | 15.968 | 2301 | 2307 | 2314 | rBV3 | 235424   | 566927   | 2.56%   | 0.637%  |
| 99  | 16.450 | 2379 | 2386 | 2393 | rBV  | 1893868  | 3823524  | 17.26%  | 4.296%  |
| 100 | 16.651 | 2411 | 2419 | 2430 | rVB  | 1877026  | 4146694  | 18.72%  | 4.659%  |

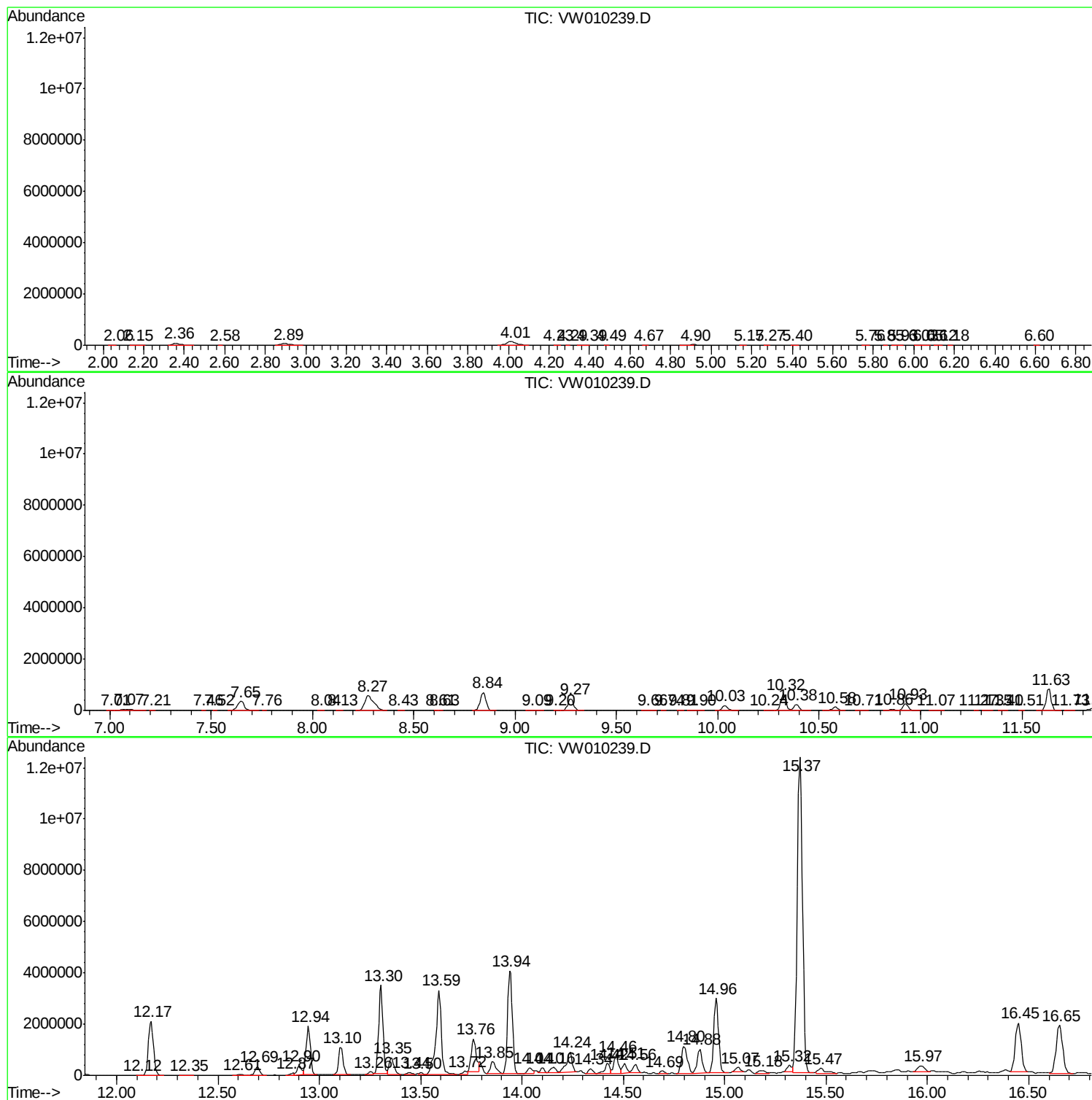
Sum of corrected areas: 89000429

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ClientSampleId :  
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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\  
Data File : VW010239.D  
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Instrument :  
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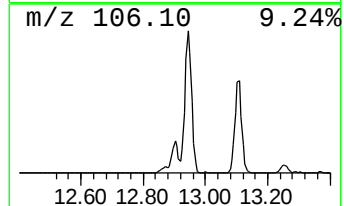
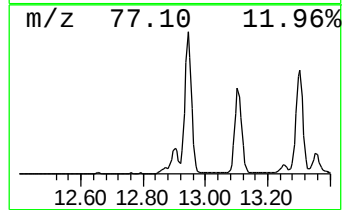
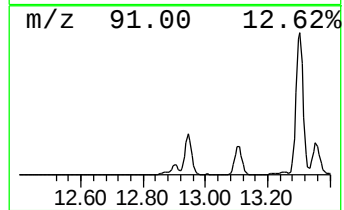
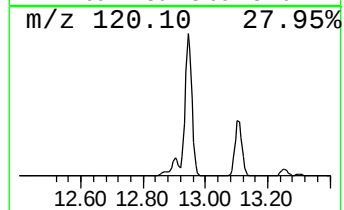
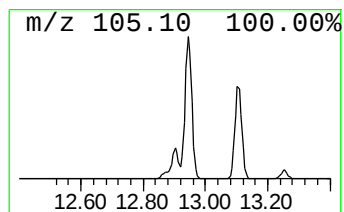
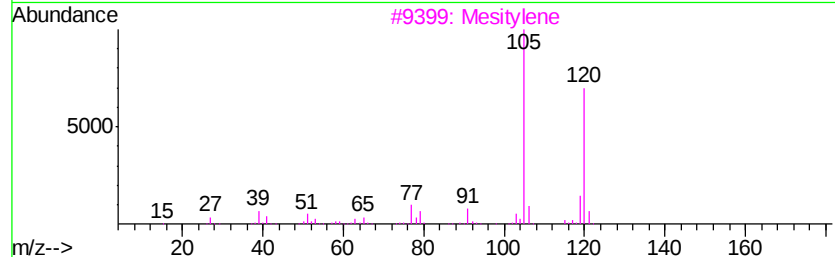
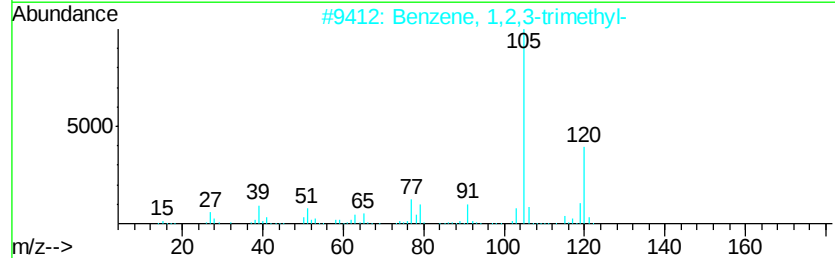
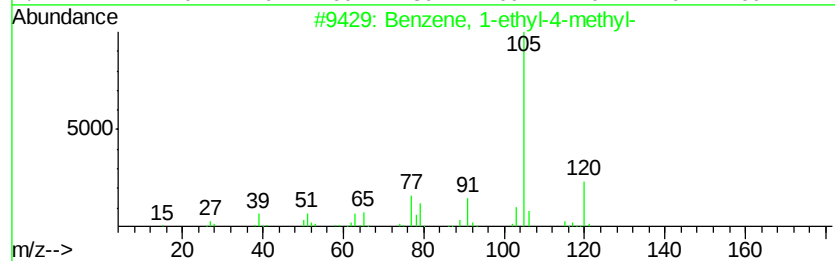
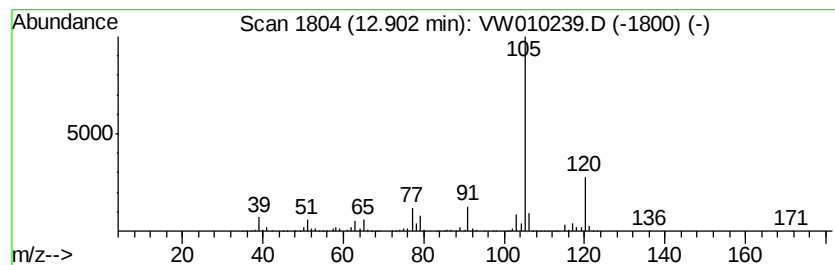
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Benzene, 1-ethyl-4-methyl- Concentration Rank 17

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.90 | 2.34 ug/L | 572748 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 93   |
| 2    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 93   |
| 3    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 91   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



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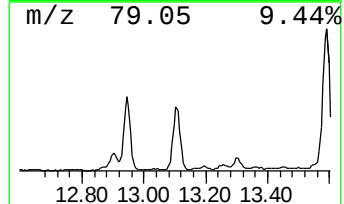
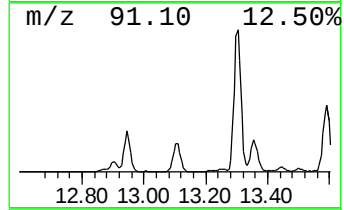
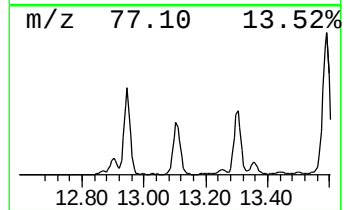
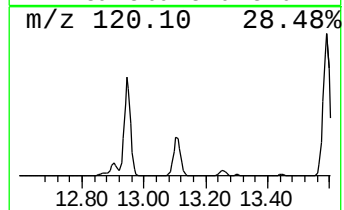
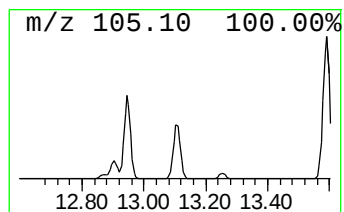
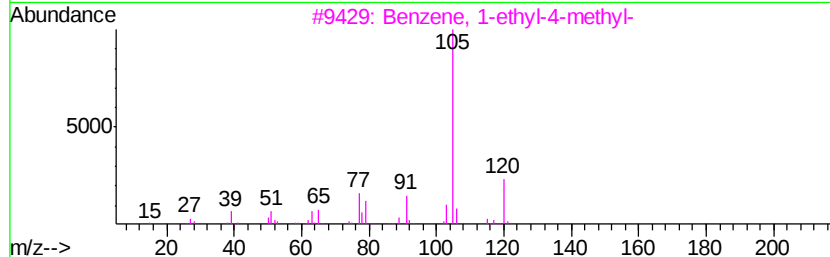
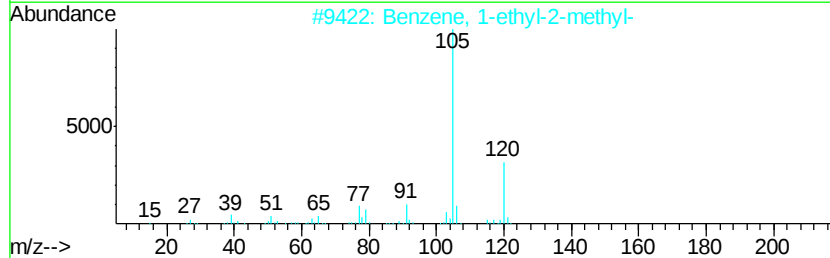
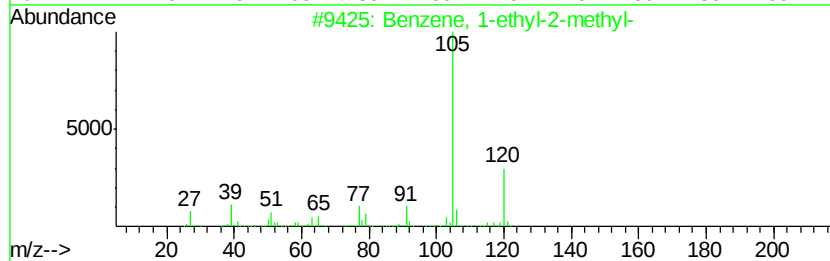
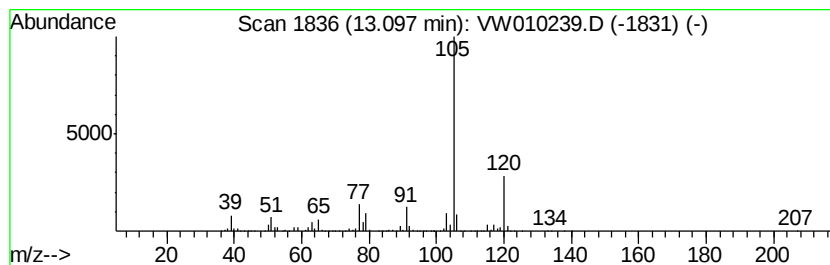
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 13.10 | 7.15 ug/L | 1749900 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 94   |
| 4    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

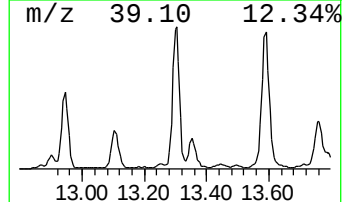
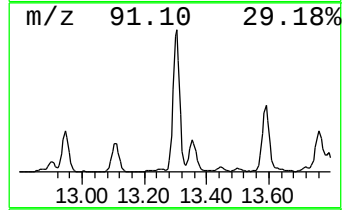
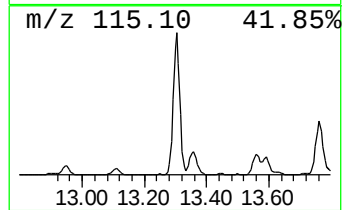
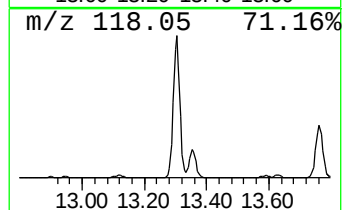
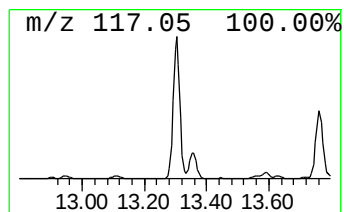
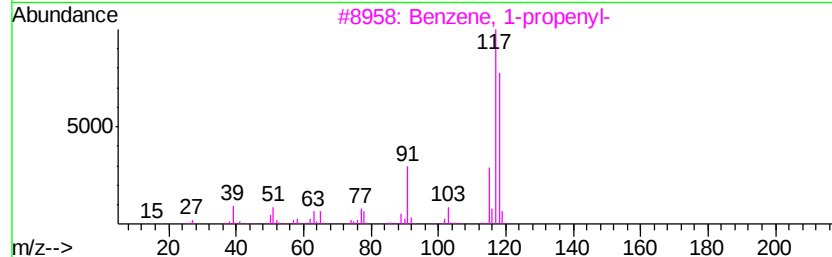
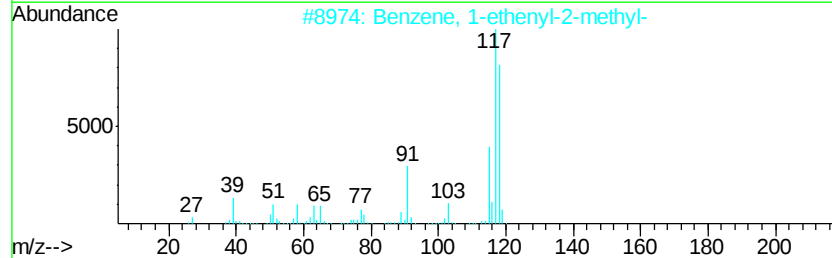
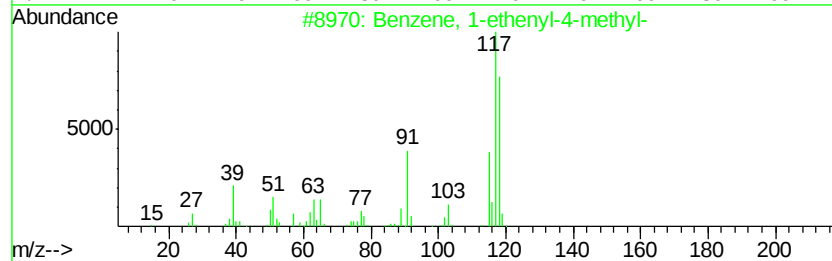
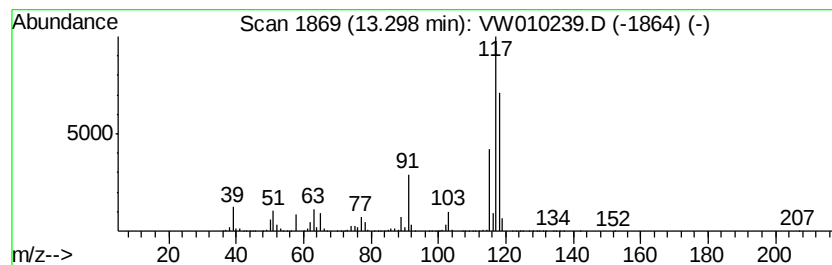
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 5 Benzene, 1-ethenyl-4-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.30 | 21.63 ug/L | 5290800 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10   | 000622-97-9 | 95   |
| 2    |    | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 95   |
| 3    |    | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 95   |
| 4    |    | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 94   |
| 5    |    | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

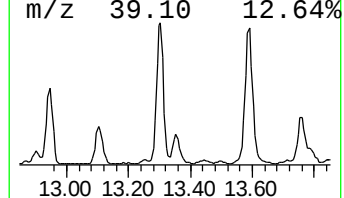
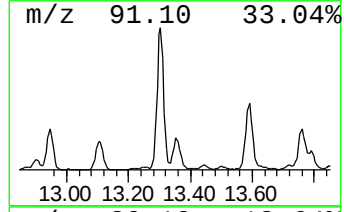
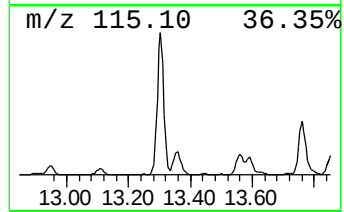
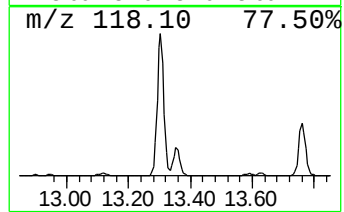
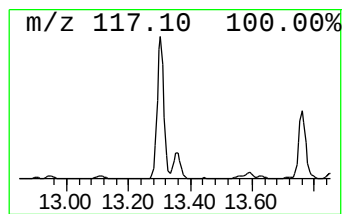
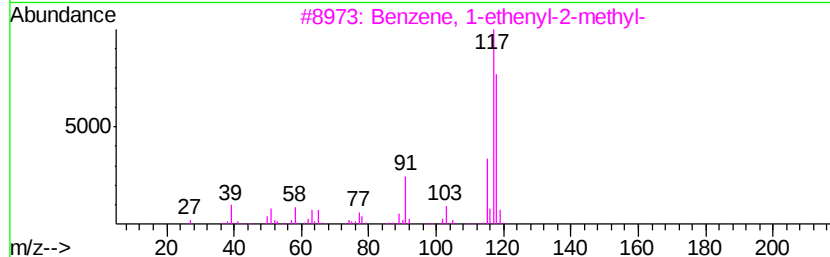
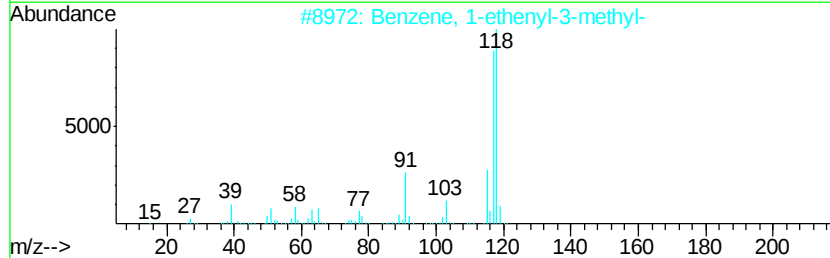
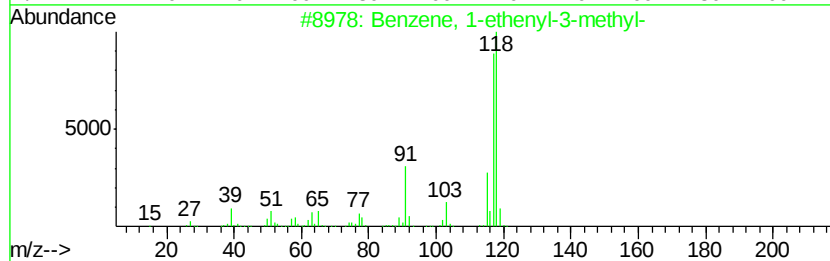
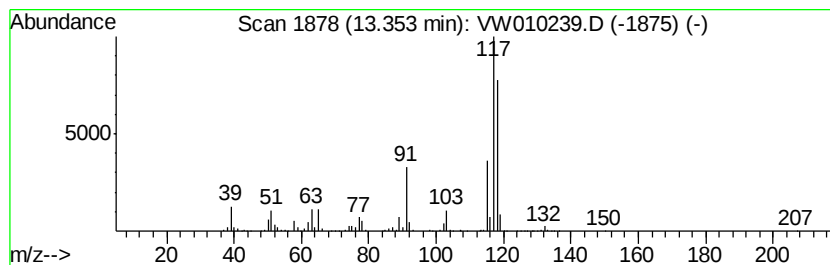
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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 Benzene, 1-ethenyl-3-methyl- Concentration Rank 15

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 13.35   | 4.30 ug/L | 1052070                             | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, 1-ethenyl-3-methyl-        | 118 C9H10              | 000100-80-1 96 |
| 2       |           | Benzene, 1-ethenyl-3-methyl-        | 118 C9H10              | 000100-80-1 94 |
| 3       |           | Benzene, 1-ethenyl-2-methyl-        | 118 C9H10              | 000611-15-4 94 |
| 4       |           | Benzene, 2-propenyl-                | 118 C9H10              | 000300-57-2 94 |
| 5       |           | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 C9H10              | 022250-74-4 93 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

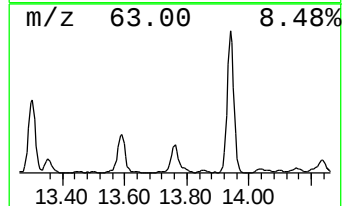
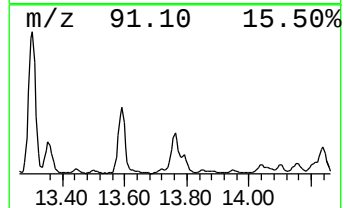
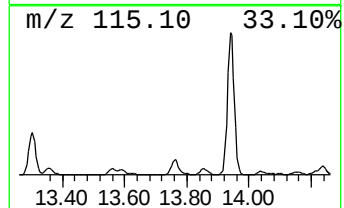
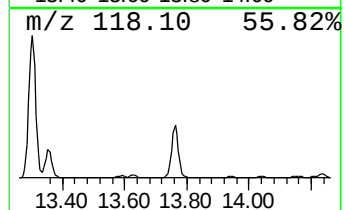
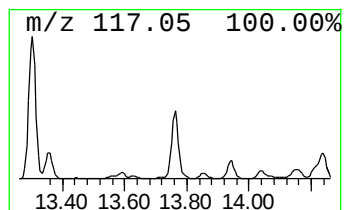
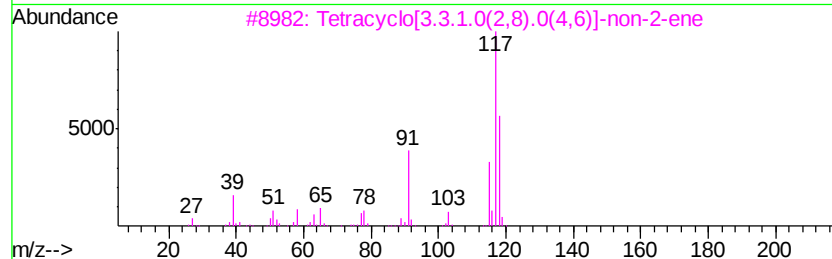
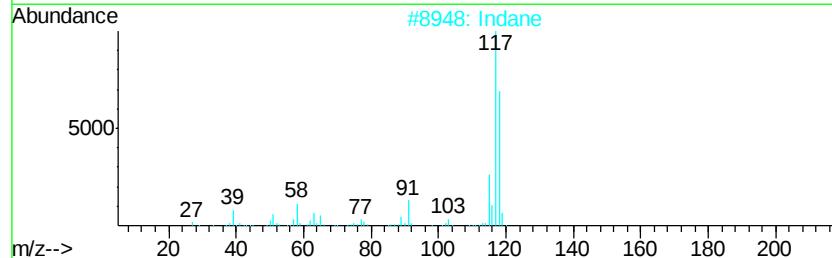
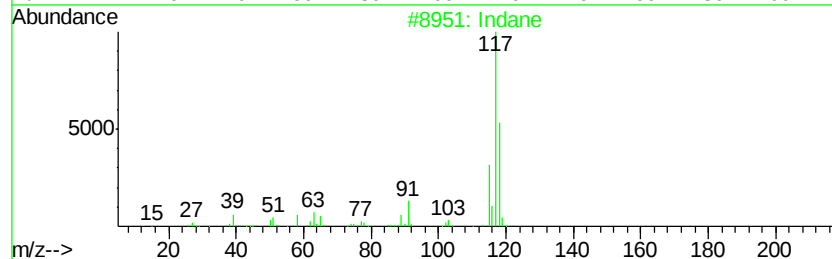
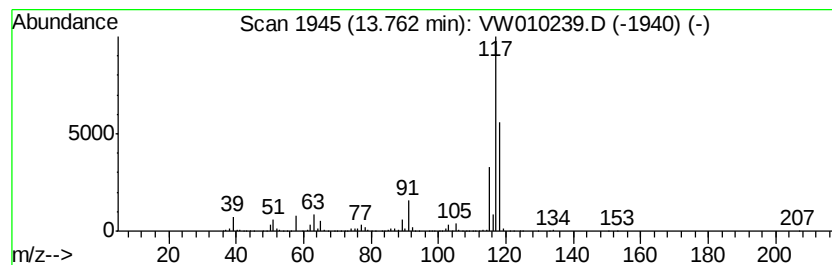
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Indane Concentration Rank 8

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 13.76 | 8.94 ug/L | 2187850 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                                | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|----------------------------------|--------------|-----|---------|--------------|------|
| 1       | Indane                           |              | 118 | C9H10   | 000496-11-7  | 90   |
| 2       | Indane                           |              | 118 | C9H10   | 000496-11-7  | 87   |
| 3       | Tetracyclo[3.3.1.0(2,8).0(4,6)]- | ...          | 118 | C9H10   | 1000191-13-7 | 64   |
| 4       | Benzene, cyclopropyl-            |              | 118 | C9H10   | 000873-49-4  | 64   |
| 5       | Indane                           |              | 118 | C9H10   | 000496-11-7  | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

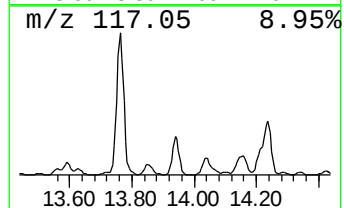
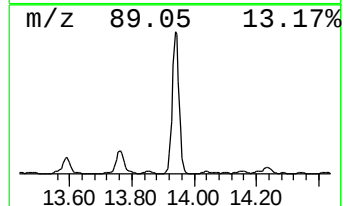
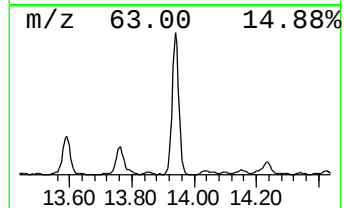
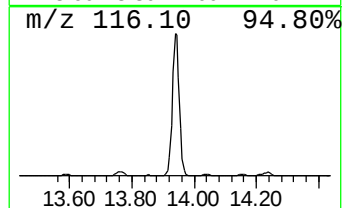
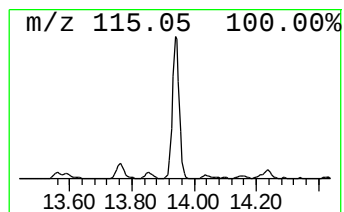
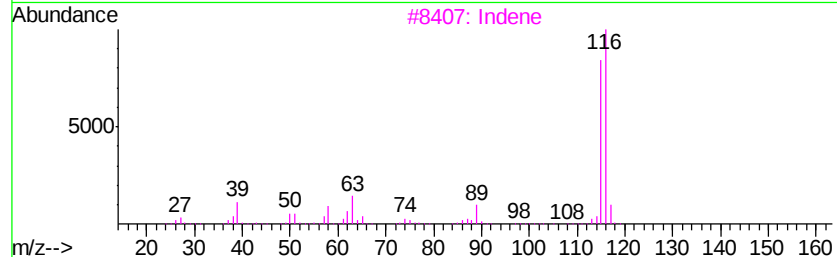
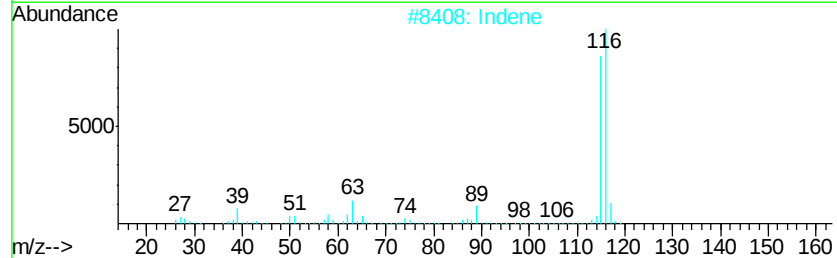
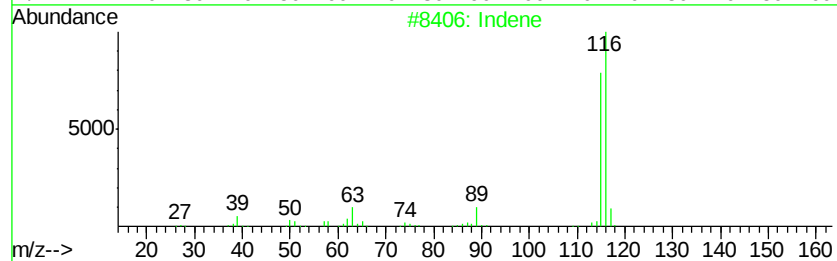
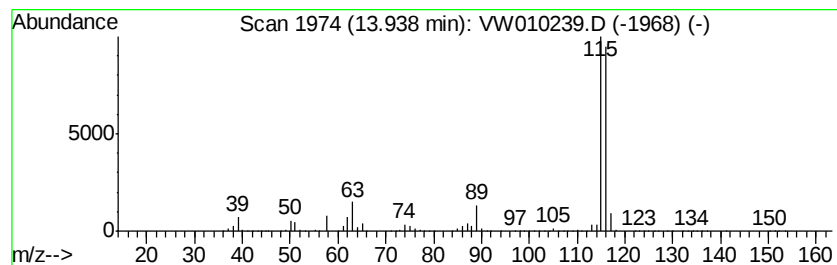
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Indene Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.94 | 26.89 ug/L | 6577980 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5                       | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------|--------------|-----|---------|-------------|------|
| 1       | Indene                  |              | 116 | C9H8    | 000095-13-6 | 95   |
| 2       | Indene                  |              | 116 | C9H8    | 000095-13-6 | 95   |
| 3       | Indene                  |              | 116 | C9H8    | 000095-13-6 | 95   |
| 4       | Benzene, 1-propynyl-    |              | 116 | C9H8    | 000673-32-5 | 91   |
| 5       | 3-Methylphenylacetylene |              | 116 | C9H8    | 000766-82-5 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GAJ84

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

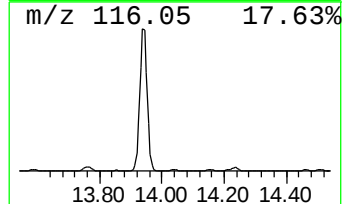
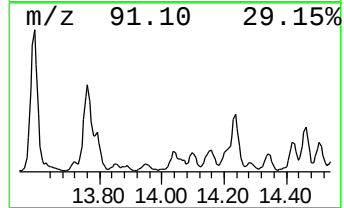
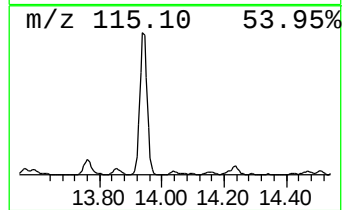
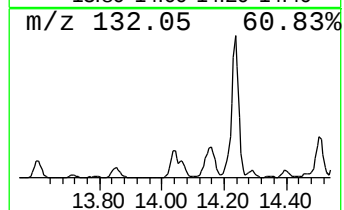
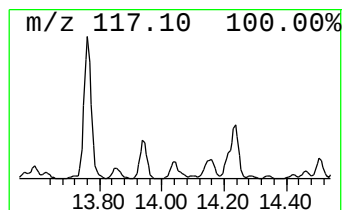
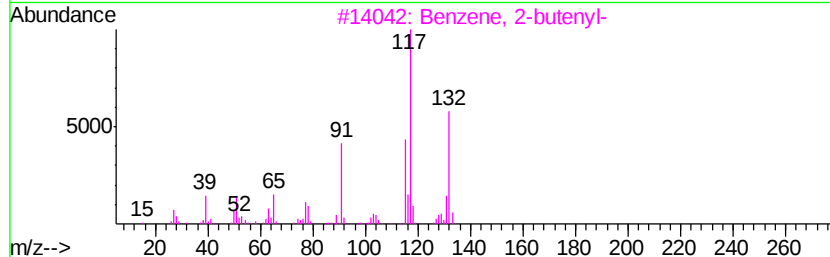
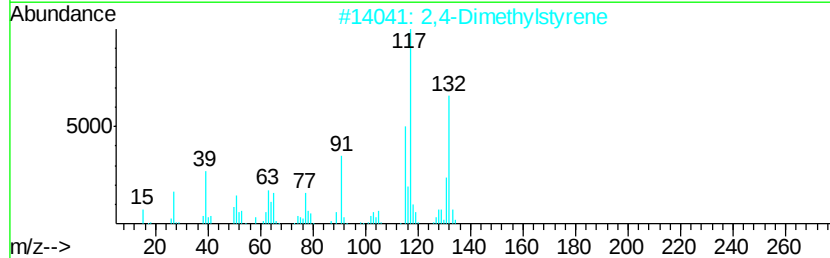
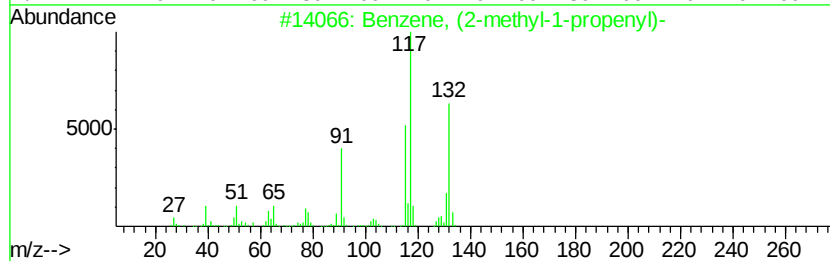
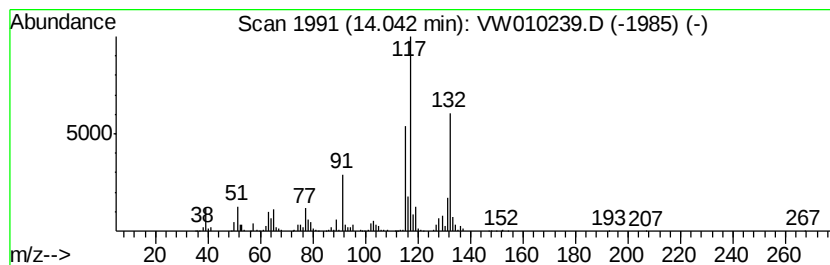
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzene, (2-methyl-1-propen... Concentration Rank 22

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.04 | 1.81 ug/L | 442488 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 97   |
| 2       |   | 2,4-Dimethylstyrene               | 132 | C10H12  | 002234-20-0 | 94   |
| 3       |   | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 93   |
| 4       |   | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 93   |
| 5       |   | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

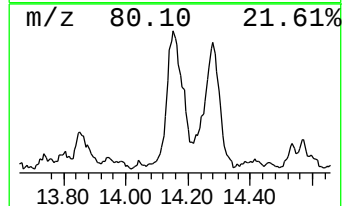
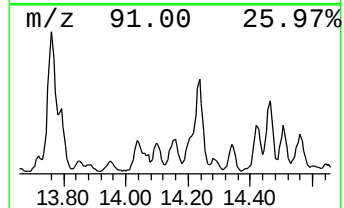
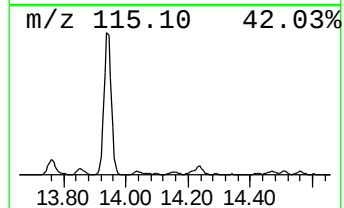
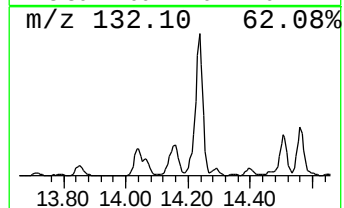
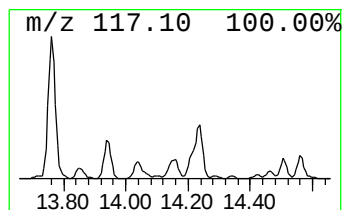
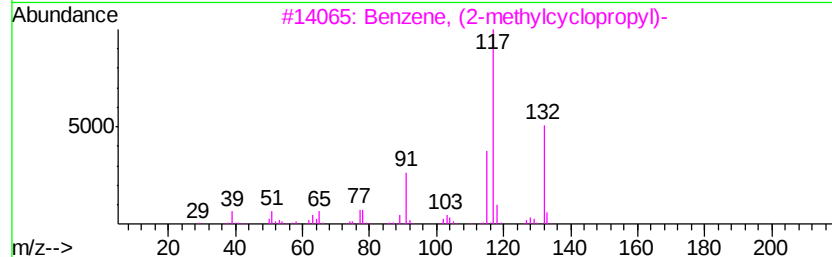
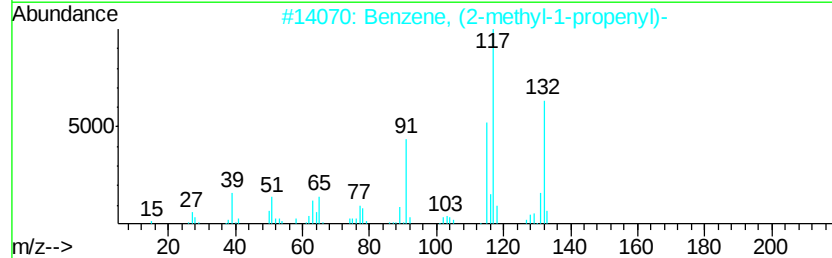
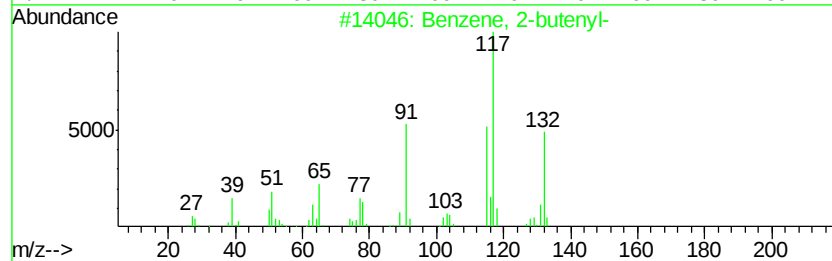
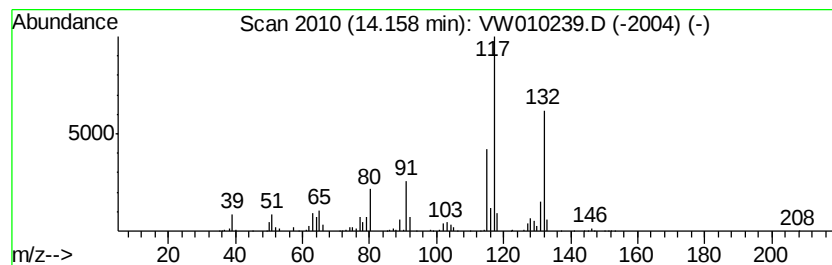
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 2-butenyl- Concentration Rank 24

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.16 | 1.60 ug/L | 390420 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---|---------------------------------|-----|---------|--------------|------|
| 1    |    |   | Benzene, 2-butenyl-             | 132 | C10H12  | 001560-06-1  | 94   |
| 2    |    |   | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12  | 000768-49-0  | 94   |
| 3    |    |   | Benzene, (2-methylcyclopropyl)- | 132 | C10H12  | 1000327-39-0 | 94   |
| 4    |    |   | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12  | 000768-49-0  | 94   |
| 5    |    |   | o-Isopropenyltoluene            | 132 | C10H12  | 007399-49-7  | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

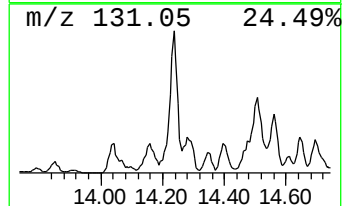
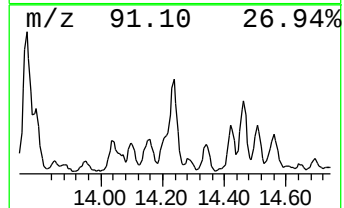
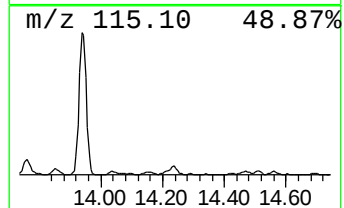
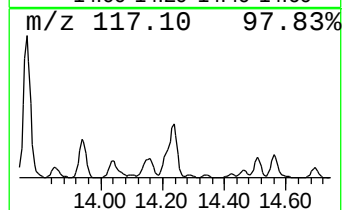
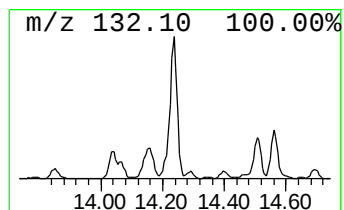
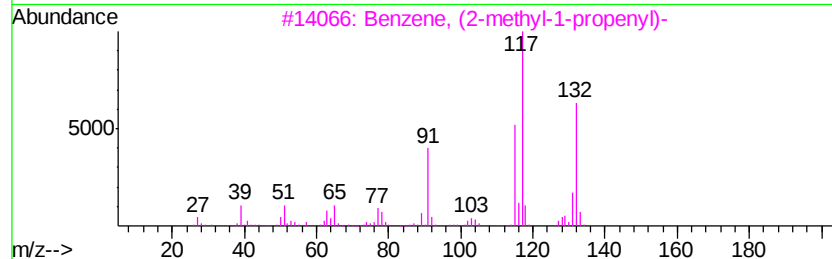
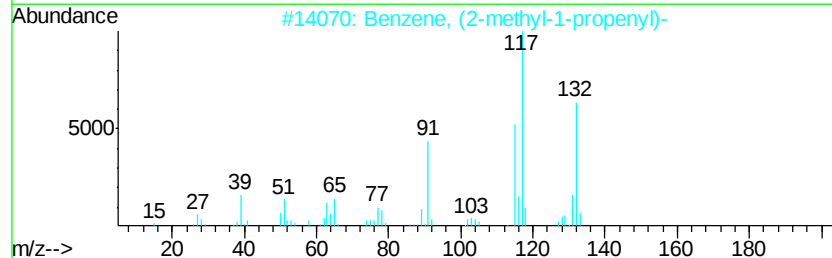
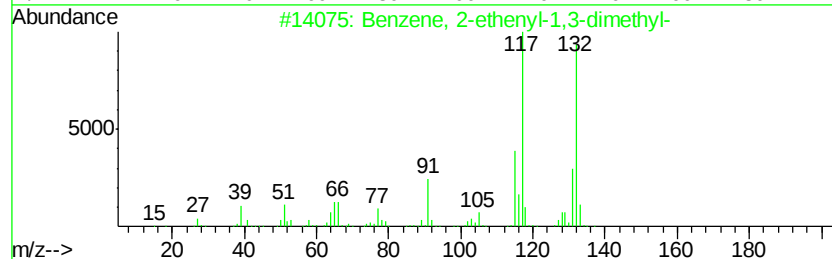
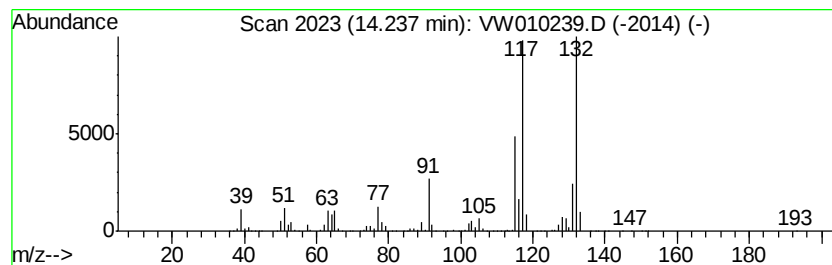
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 2-ethenyl-1,3-dime... Concentration Rank 13

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.24 | 6.10 ug/L | 1492880 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12  | 002039-90-9 | 96   |
| 2    |    | Benzene, (2-methyl-1-propenyl)-  | 132 | C10H12  | 000768-49-0 | 95   |
| 3    |    | Benzene, (2-methyl-1-propenyl)-  | 132 | C10H12  | 000768-49-0 | 95   |
| 4    |    | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12  | 002039-90-9 | 94   |
| 5    |    | Benzene, 2-butenyl-              | 132 | C10H12  | 001560-06-1 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

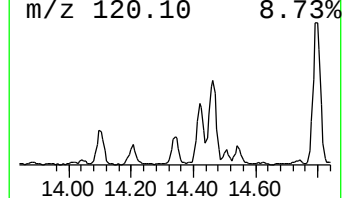
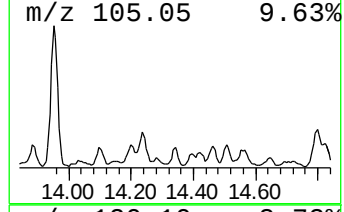
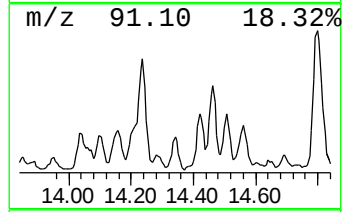
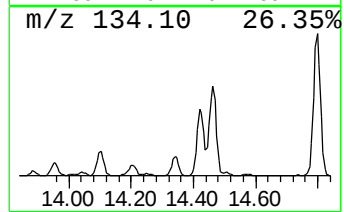
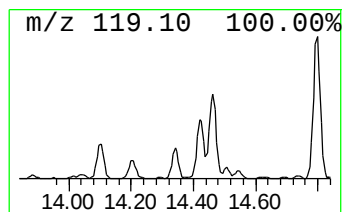
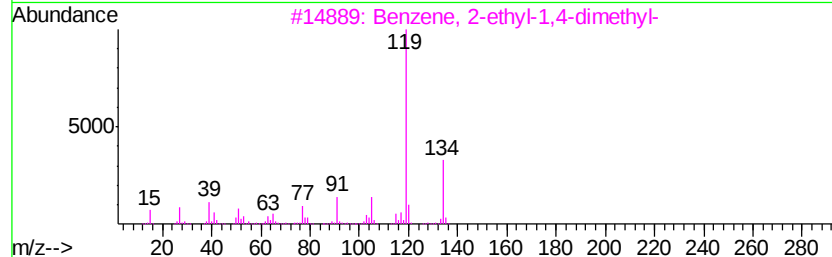
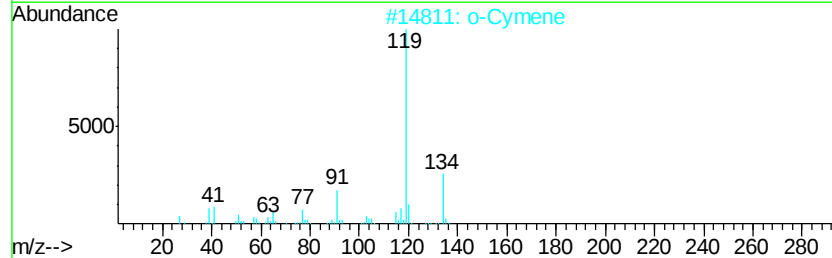
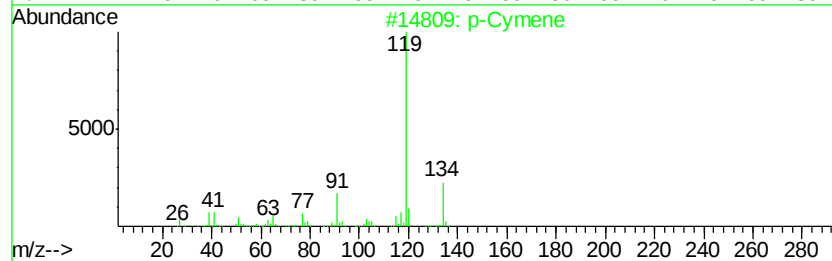
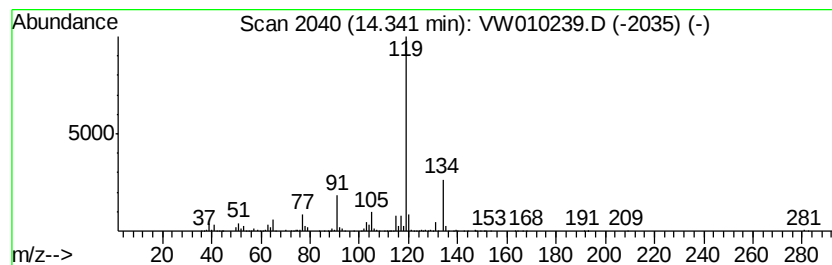
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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 12 p-Cymene Concentration Rank 26

| R.T.    | EstConc                        | Area         | Relative to ISTD       | R.T.      |
|---------|--------------------------------|--------------|------------------------|-----------|
| 14.34   | 1.26 ug/L                      | 307580       | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                              | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | p-Cymene                       | 134 C10H14   | 000099-87-6            | 95        |
| 2       | o-Cymene                       | 134 C10H14   | 000527-84-4            | 95        |
| 3       | Benzene, 2-ethyl-1,4-dimethyl- | 134 C10H14   | 001758-88-9            | 94        |
| 4       | Benzene, 2-ethyl-1,3-dimethyl- | 134 C10H14   | 002870-04-4            | 94        |
| 5       | o-Cymene                       | 134 C10H14   | 000527-84-4            | 94        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

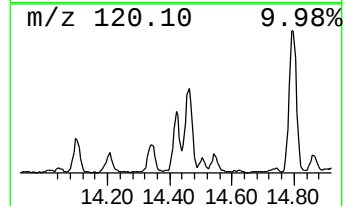
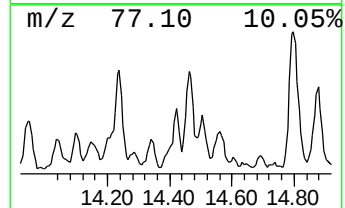
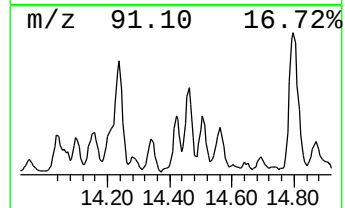
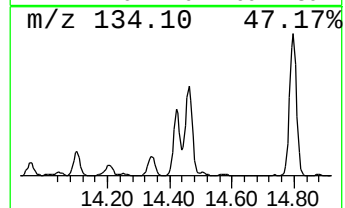
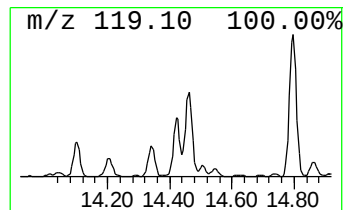
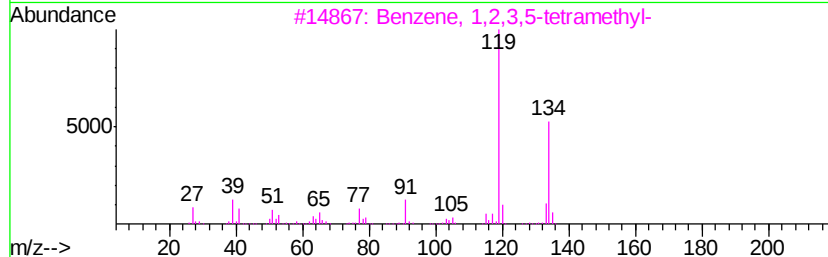
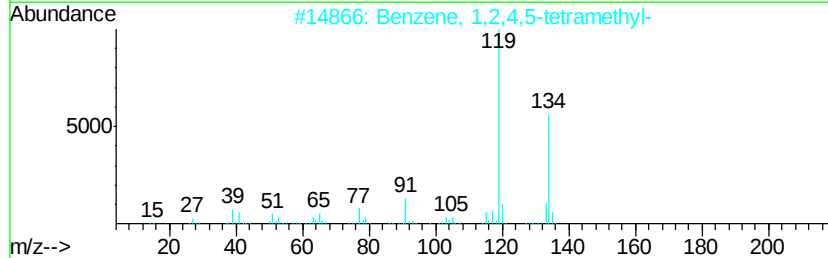
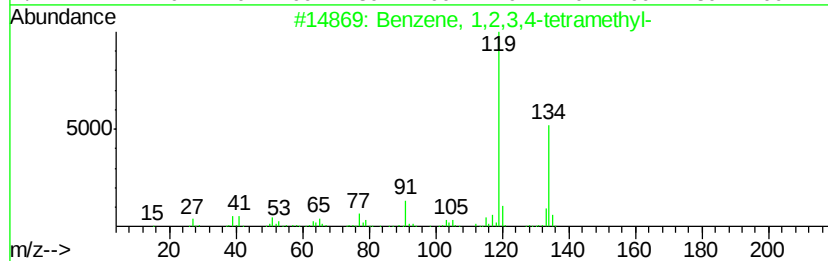
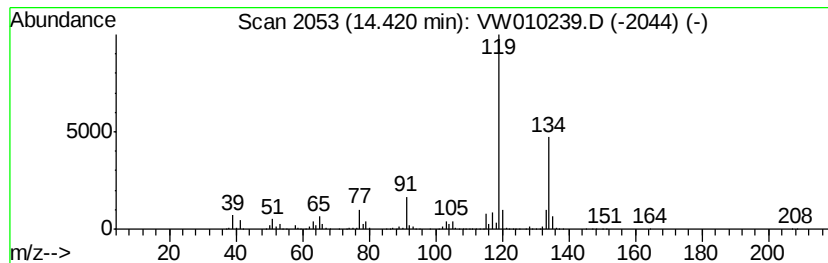
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 16

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.42 | 2.93 ug/L | 718027 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 97   |
| 2    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 97   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 95   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 95   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

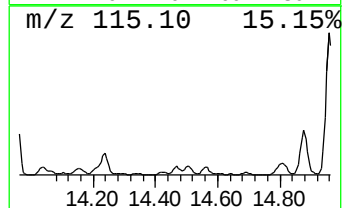
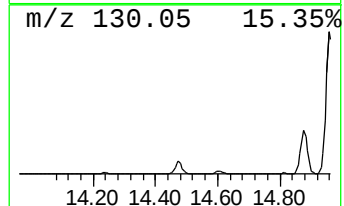
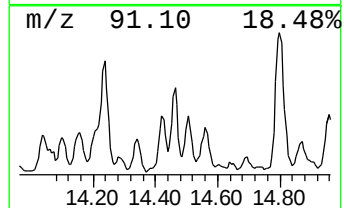
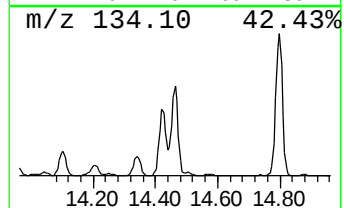
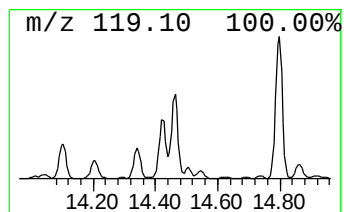
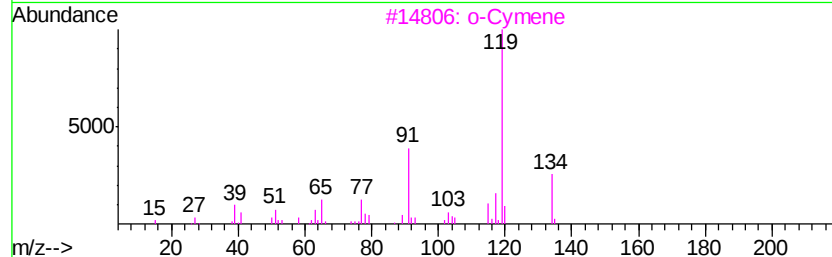
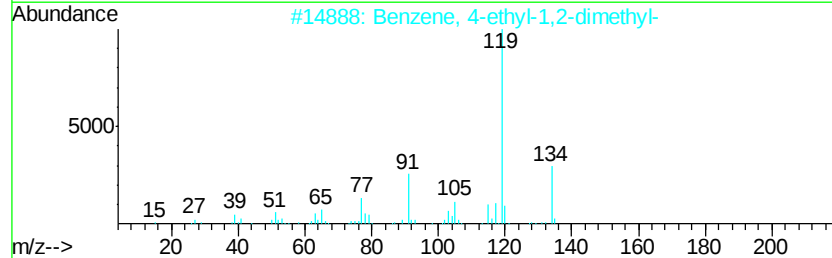
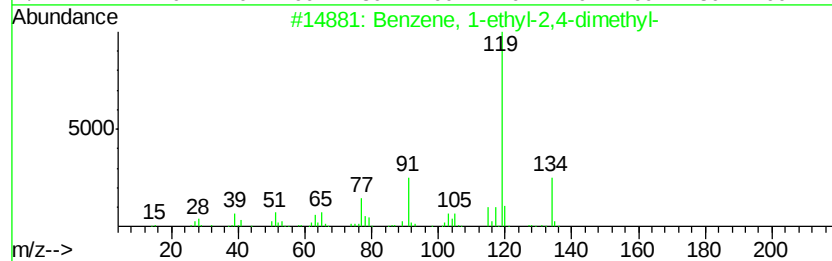
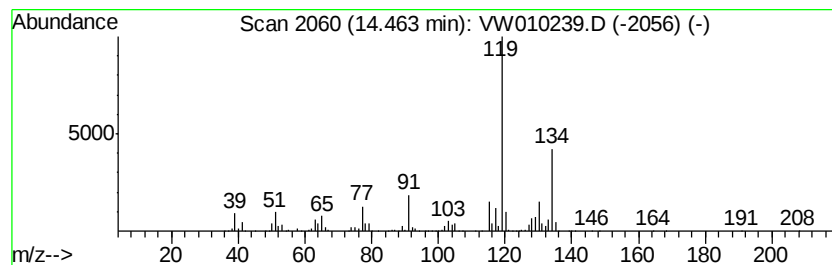
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 14

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.46 | 4.56 ug/L | 1116640 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 94   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 93   |
| 3    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 90   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 90   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

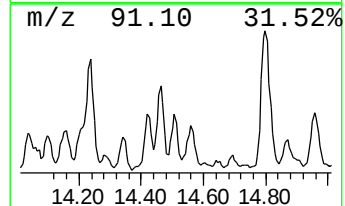
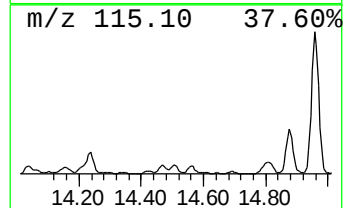
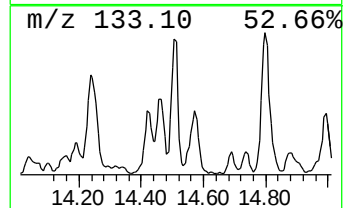
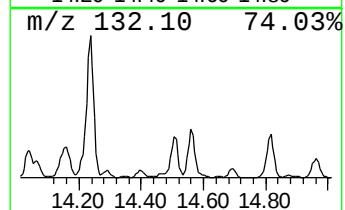
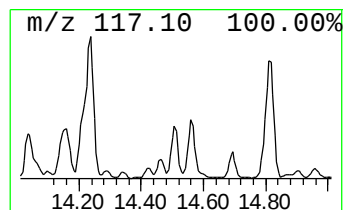
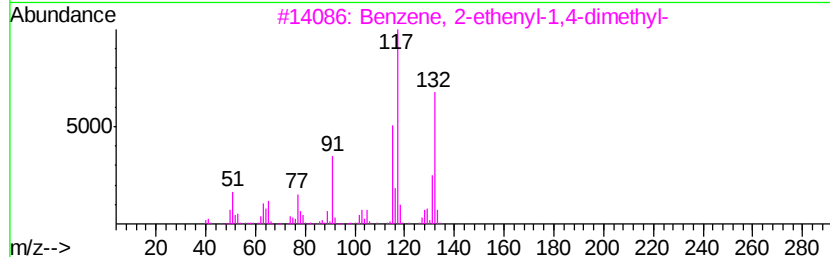
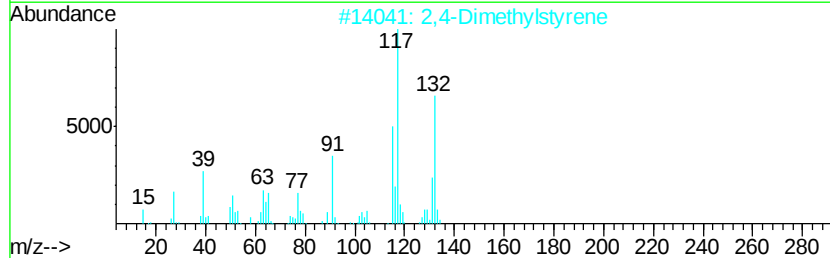
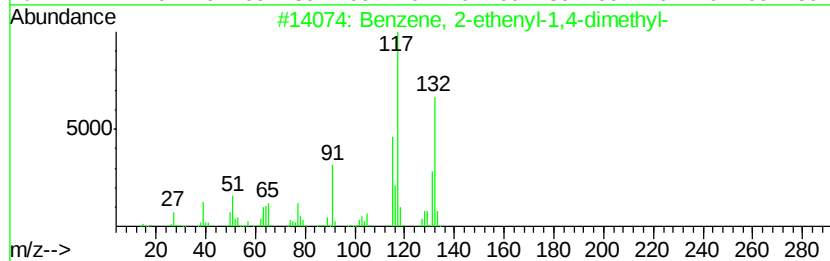
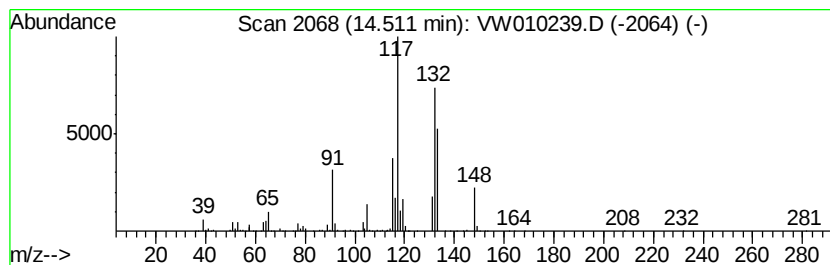
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 19

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.51 | 2.25 ug/L | 551440 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 93   |
| 2    |    | 2,4-Dimethylstyrene               | 132 | C10H12  | 002234-20-0 | 89   |
| 3    |    | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 89   |
| 4    |    | Benzene, 4-ethenyl-1,2-dimethyl-  | 132 | C10H12  | 027831-13-6 | 76   |
| 5    |    | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 76   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

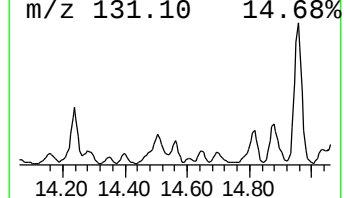
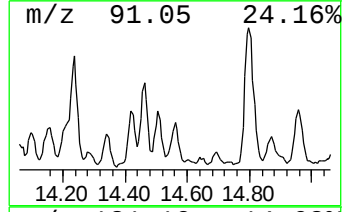
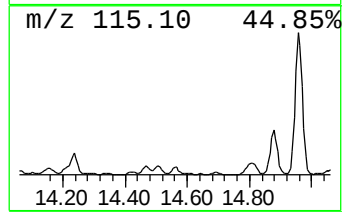
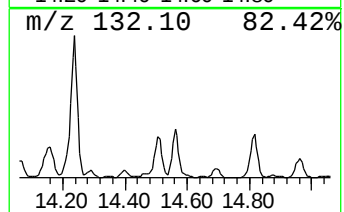
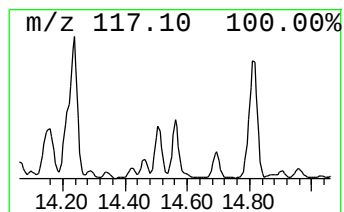
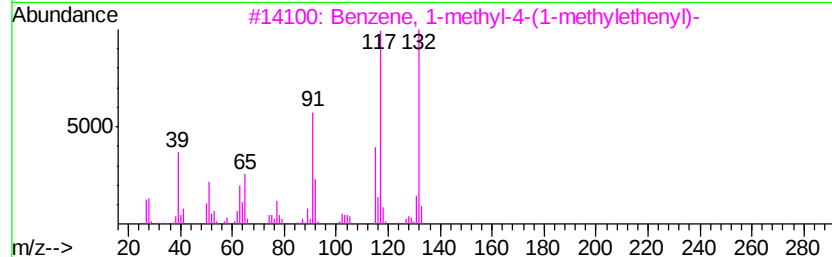
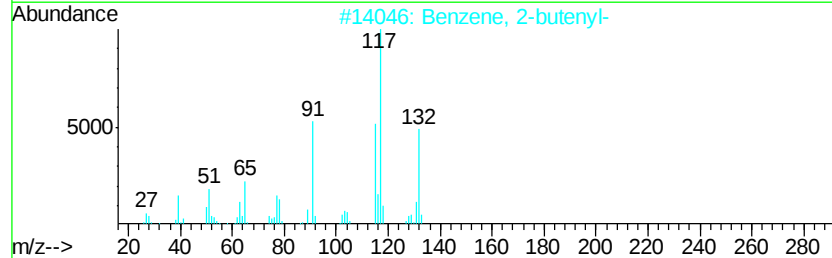
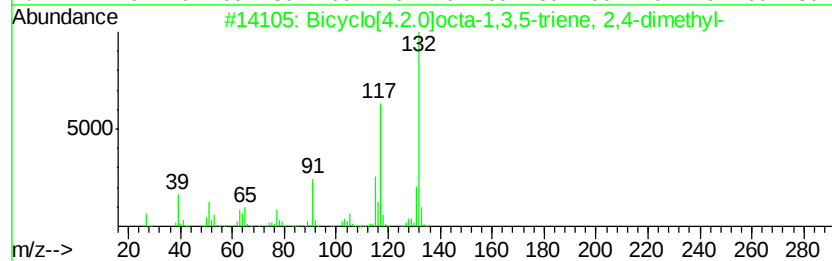
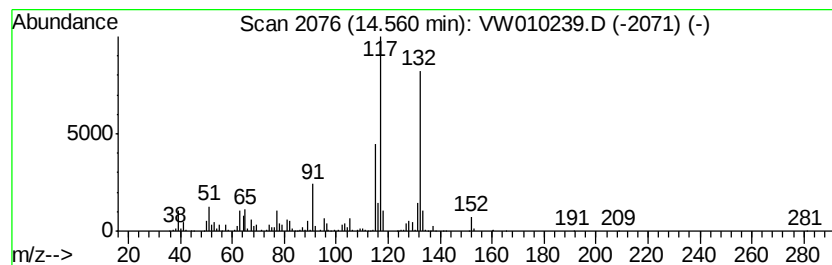
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 20

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.56 | 2.15 ug/L | 526898 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Bicyclo[4.2.0]octa-1,3,5-triene,...  | 132 | C10H12  | 028749-81-7  | 94   |
| 2    |    | Benzene, 2-butenyl-                  | 132 | C10H12  | 001560-06-1  | 94   |
| 3    |    | Benzene, 1-methyl-4-(1-methylethyl)- | 132 | C10H12  | 001195-32-0  | 91   |
| 4    |    | Benzene, (2-methylcyclopropyl)-      | 132 | C10H12  | 1000327-39-0 | 91   |
| 5    |    | Benzene, (1-methylenepropyl)-        | 132 | C10H12  | 002039-93-2  | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
GAJ84

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

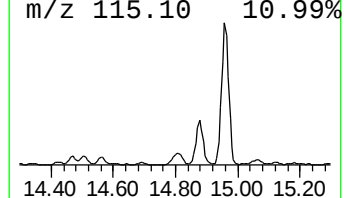
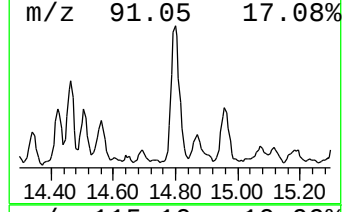
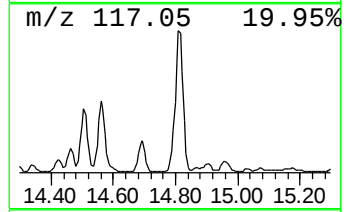
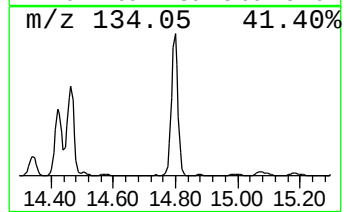
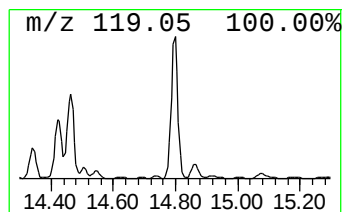
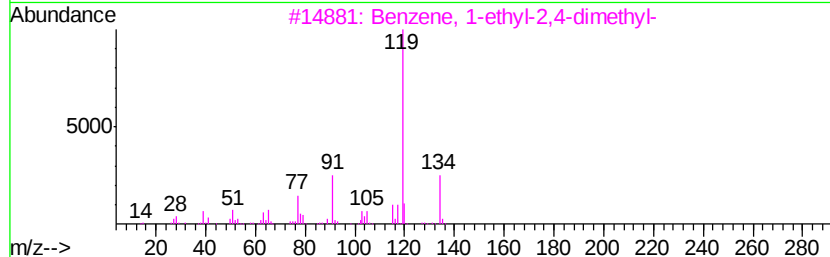
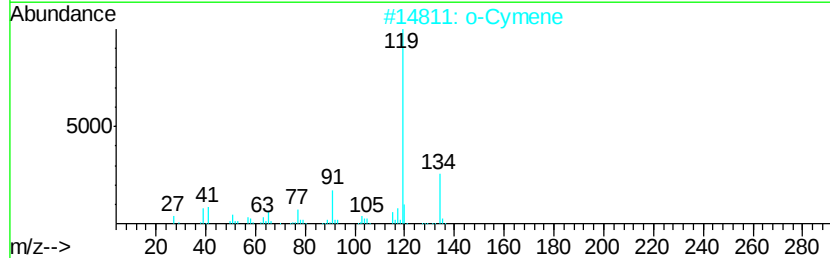
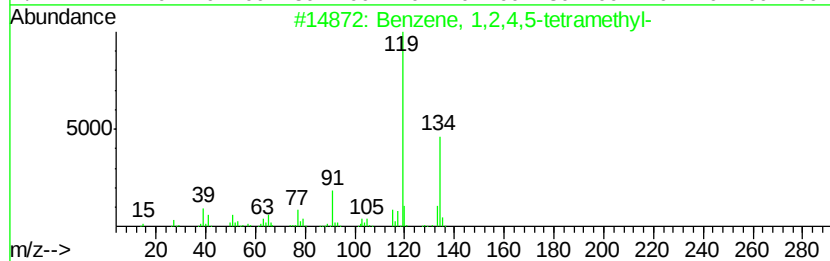
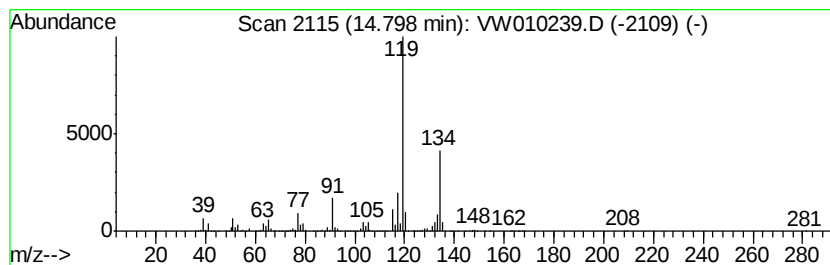
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 9

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.80 | 8.90 ug/L | 2176280 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 94   |
| 2    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 93   |
| 3    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 93   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 90   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
 Data File : VW010239.D  
 Acq On : 01 May 2019 06:09  
 Operator : SY/VA  
 Sample : K2604-10  
 Misc : 5.09G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAJ84

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

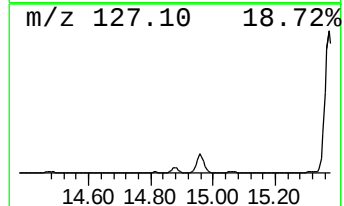
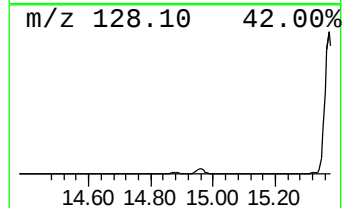
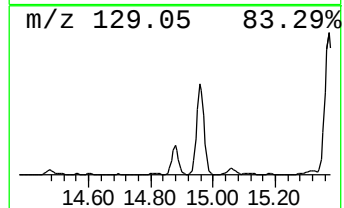
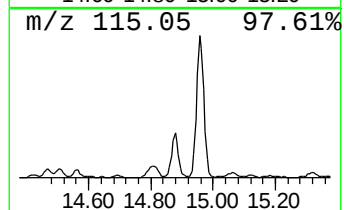
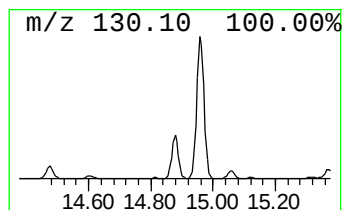
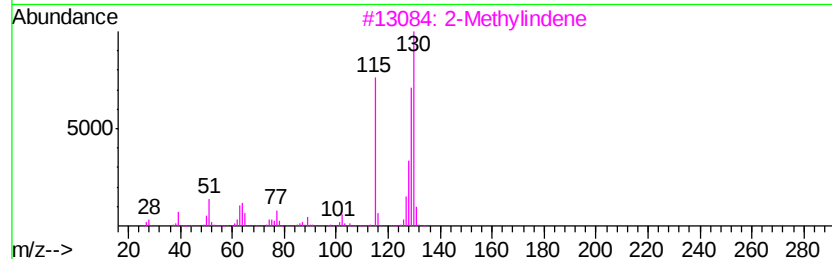
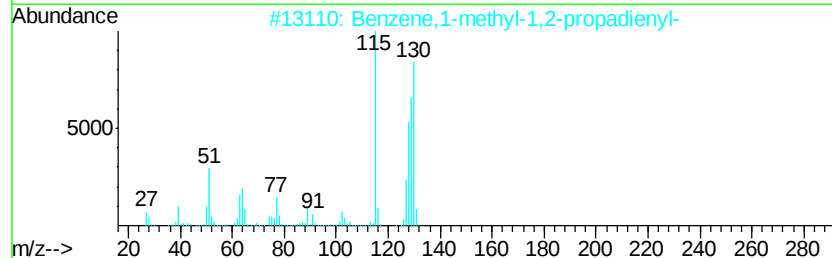
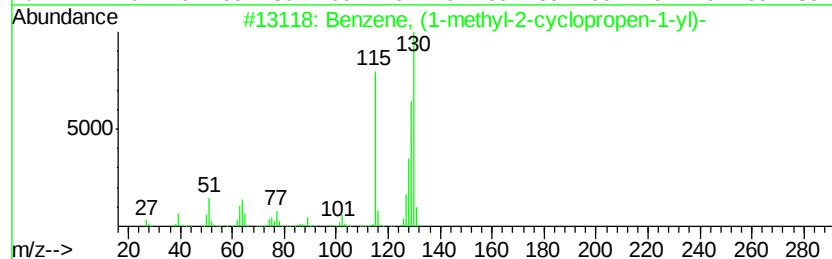
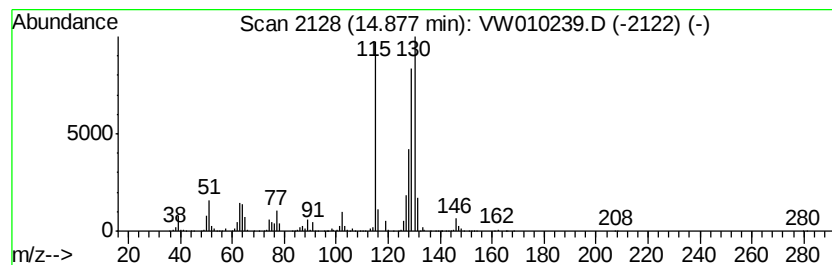
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 18 Benzene, (1-methyl-2-cyclop... Concentration Rank 12

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.88 | 6.40 ug/L | 1565320 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 96   |
| 2    |    | Benzene,1-methyl-1,2-propadienyl-   | 130 | C10H10  | 022433-39-2 | 96   |
| 3    |    | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 96   |
| 4    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 96   |
| 5    |    | 1,4-Dihydronaphthalene              | 130 | C10H10  | 000612-17-9 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

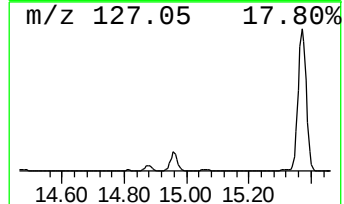
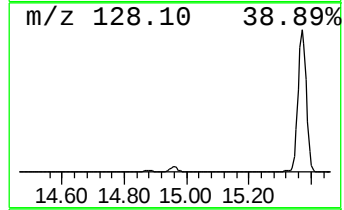
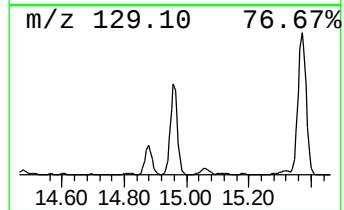
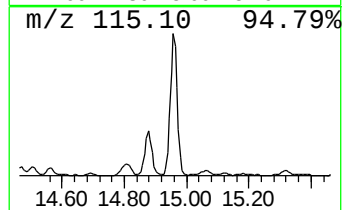
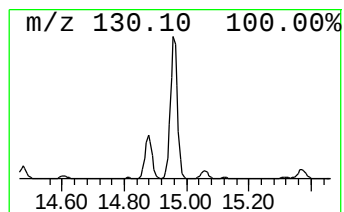
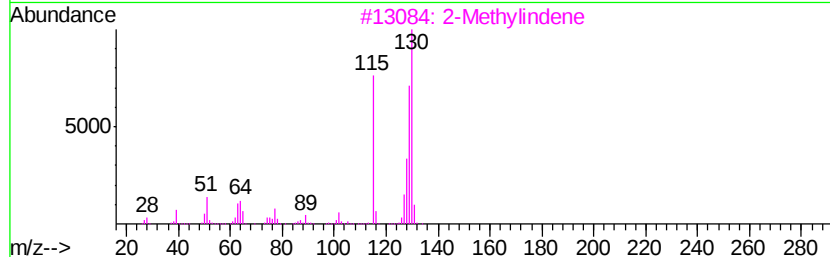
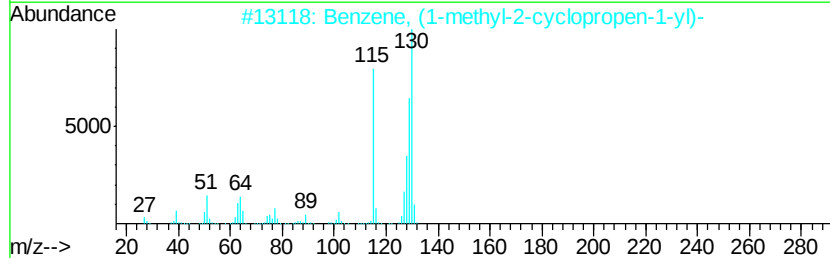
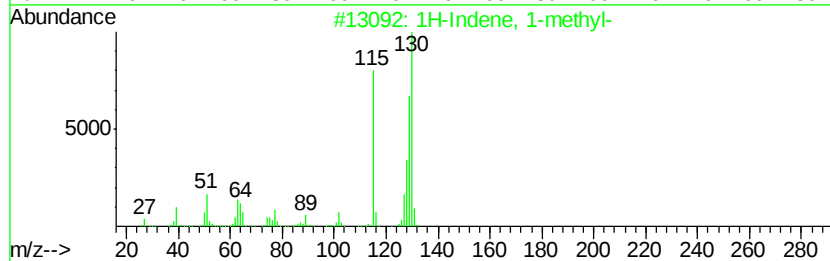
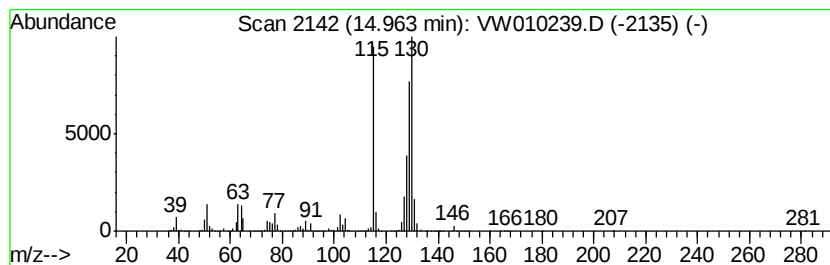
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 1H-Indene, 1-methyl- Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.96 | 19.27 ug/L | 4715000 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 96   |
| 2    |    | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 96   |
| 3    |    | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 96   |
| 4    |    | Benzene, 1-butynyl-                 | 130 | C10H10  | 000622-76-4 | 95   |
| 5    |    | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

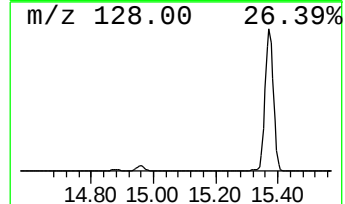
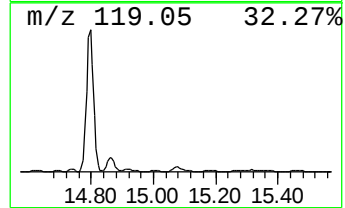
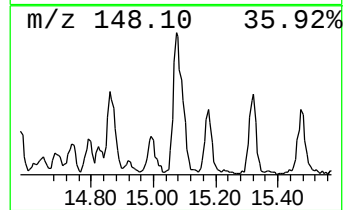
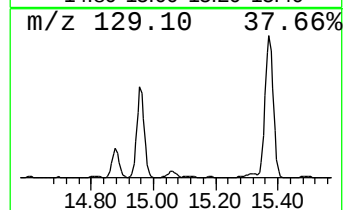
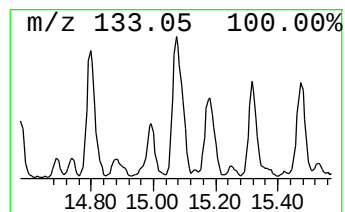
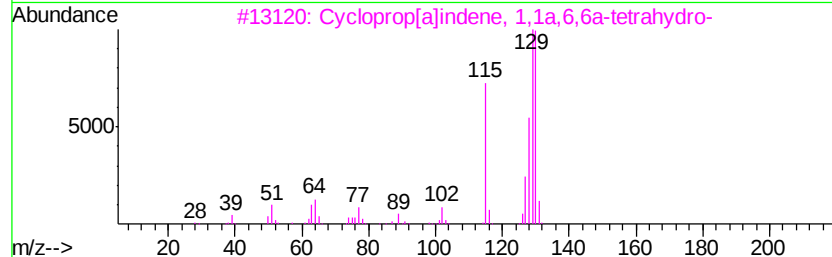
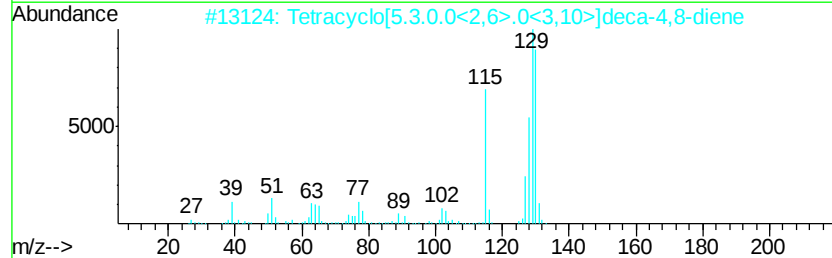
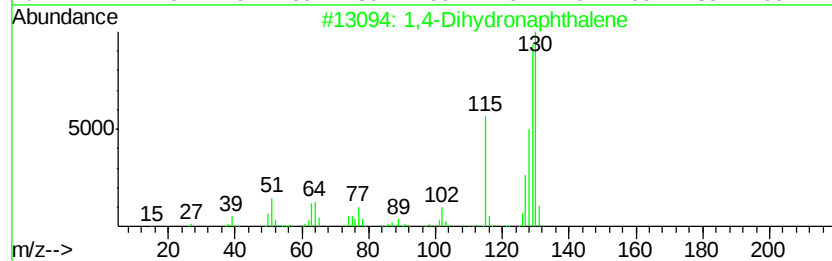
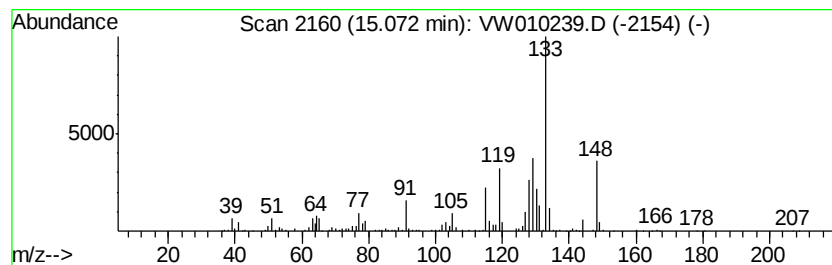
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 1,4-Dihydronaphthalene Concentration Rank 25

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.07 | 1.32 ug/L | 322412 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,4-Dihydronaphthalene              | 130 | C10H10  | 000612-17-9 | 93   |
| 2    |    | Tetracyclo[5.3.0.0<2,6>.0<3,10>]... | 130 | C10H10  | 034324-40-8 | 93   |
| 3    |    | Cycloprop[alindene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 83   |
| 4    |    | Benzene, 1-cyclobuten-1-yl-         | 130 | C10H10  | 003365-26-2 | 55   |
| 5    |    | 1,4-Dihydronaphthalene              | 130 | C10H10  | 000612-17-9 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

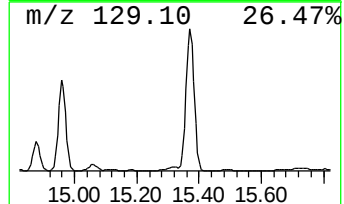
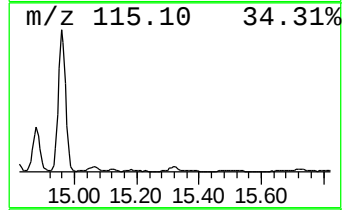
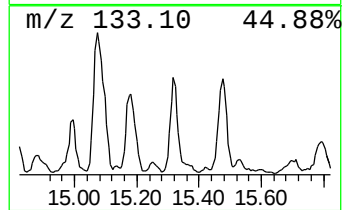
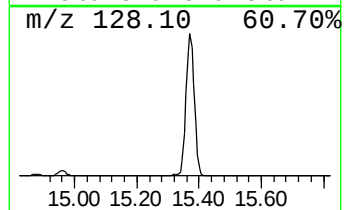
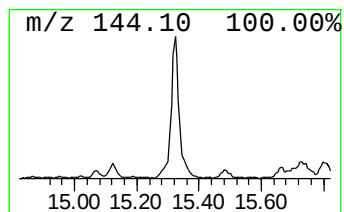
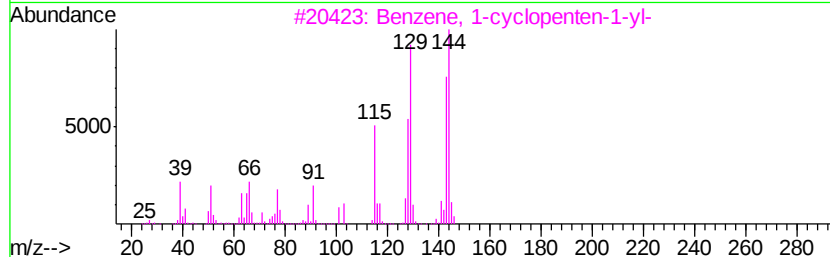
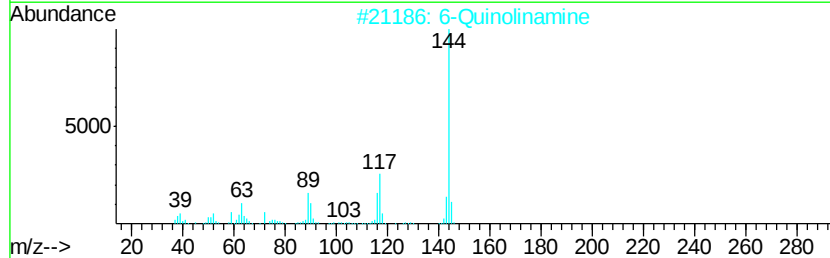
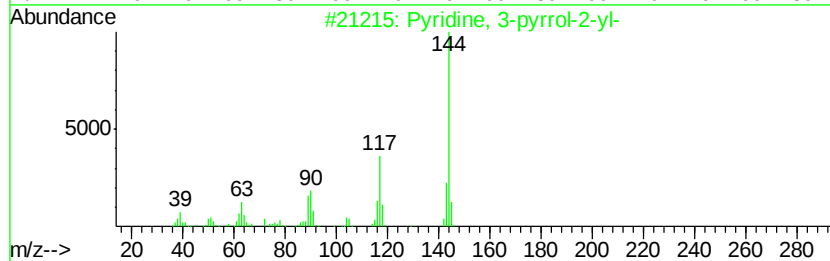
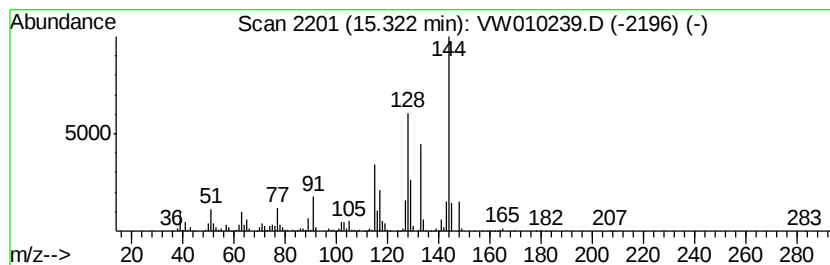
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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 21 Pyridine, 3-pyrrol-2-yl- Concentration Rank 23

| R.T.    | EstConc   | Area                         | Relative to ISTD       | R.T.           |
|---------|-----------|------------------------------|------------------------|----------------|
| 15.32   | 1.72 ug/L | 421911                       | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5         | Tentative ID                 | MW MolForm             | CAS# Qual      |
| 1       |           | Pyridine, 3-pyrrol-2-yl-     | 144 C9H8N2             | 000494-98-4 50 |
| 2       |           | 6-Quinolinamine              | 144 C9H8N2             | 000580-15-4 50 |
| 3       |           | Benzene, 1-cyclopenten-1-yl- | 144 C11H12             | 000825-54-7 47 |
| 4       |           | 8-Quinolinamine              | 144 C9H8N2             | 000578-66-5 46 |
| 5       |           | 7-Quinolinamine              | 144 C9H8N2             | 000580-19-8 45 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

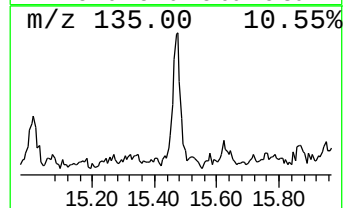
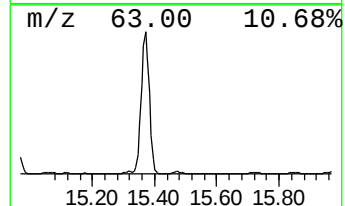
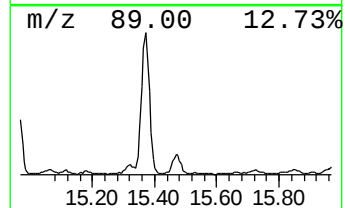
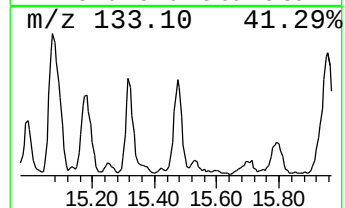
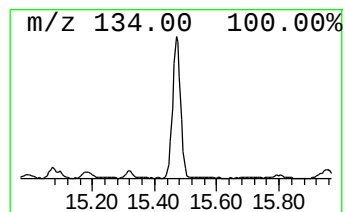
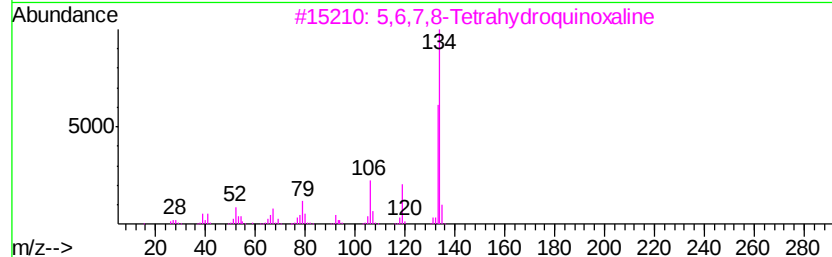
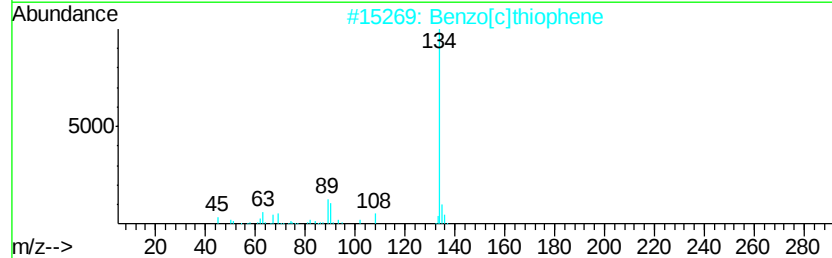
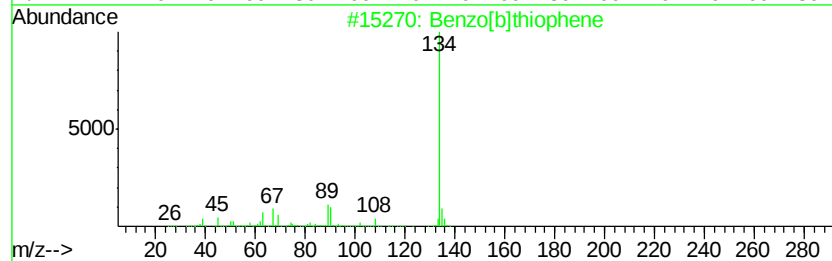
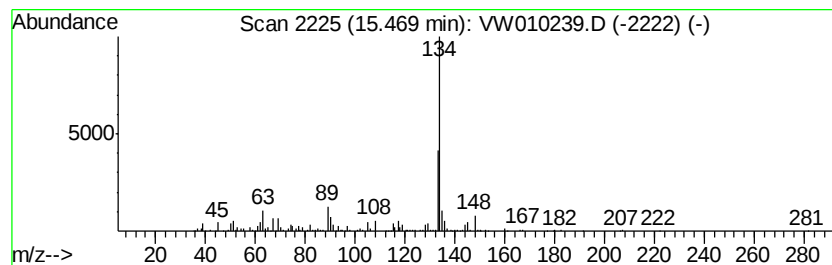
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 Benzo[b]thiophene Concentration Rank 21

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.47 | 1.94 ug/L | 474498 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[b]thiophene                   | 134 | C8H6S   | 000095-15-8 | 60   |
| 2    |    |   | Benzo[c]thiophene                   | 134 | C8H6S   | 000270-82-6 | 60   |
| 3    |    |   | 5,6,7,8-Tetrahydroquinoxaline       | 134 | C8H10N2 | 034413-35-9 | 59   |
| 4    |    |   | 5,6,7,8-Tetrahydroquinoxaline       | 134 | C8H10N2 | 034413-35-9 | 59   |
| 5    |    |   | 1-(3-Methyl-2-butenoxy)-4-(1-pro... | 202 | C14H18O | 078259-41-3 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW050119\  
Data File : VW010239.D  
Acq On : 01 May 2019 06:09  
Operator : SY/VA  
Sample : K2604-10  
Misc : 5.09G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAJ84

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

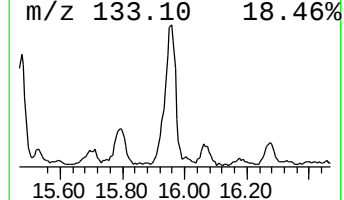
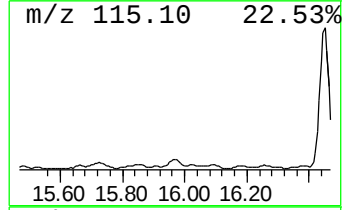
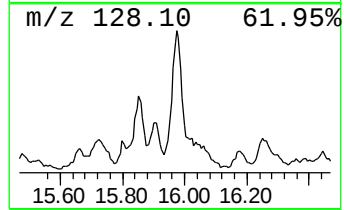
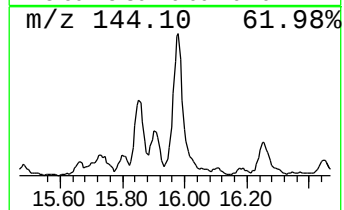
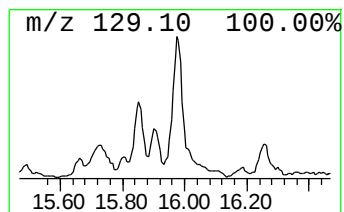
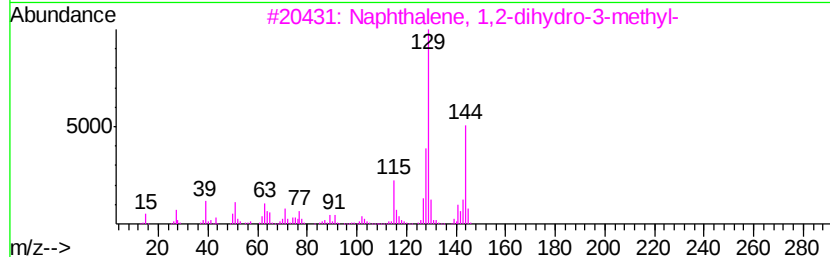
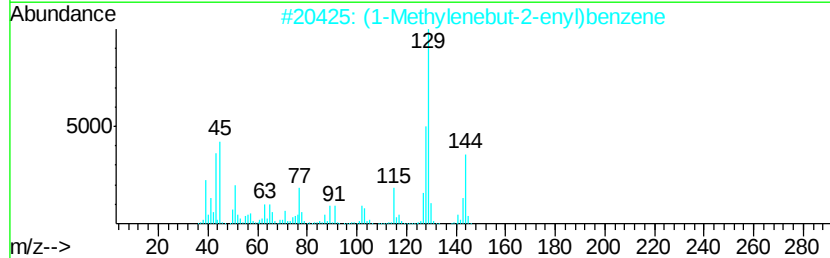
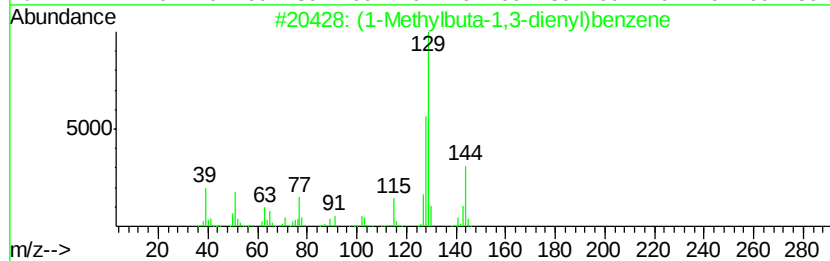
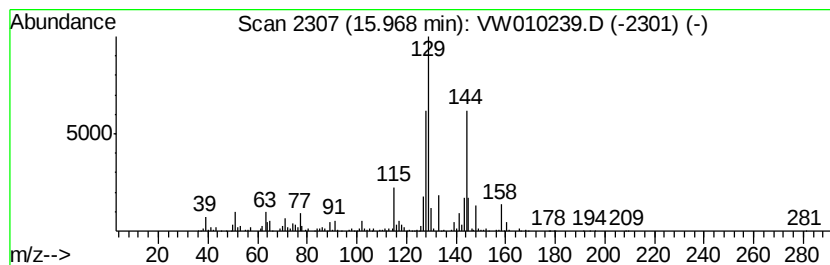
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 24 (1-Methylbuta-1,3-dienyl)be... Concentration Rank 18

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.97 | 2.32 ug/L | 566927 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | (1-Methylbuta-1,3-dienyl)benzene   | 144 | C11H12  | 054758-36-0 | 87   |
| 2    |    |   | (1-Methylenebut-2-enyl)benzene     | 144 | C11H12  | 070588-46-4 | 87   |
| 3    |    |   | Naphthalene, 1,2-dihydro-3-methyl- | 144 | C11H12  | 002717-44-4 | 86   |
| 4    |    |   | 1H-Indene, 2,3-dimethyl-           | 144 | C11H12  | 004773-82-4 | 83   |
| 5    |    |   | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 81   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW050119\  
 Data File : VW010239.D  
 Acq On : 01 May 2019 06:09  
 Operator : SY/VA  
 Sample : K2604-10  
 Misc : 5.09G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAJ84

Quant Method : Z:\VOASRV\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 |
| Benzene, 1-ethyl-... | 12.90 | 2.3     | ug/L  | 572748   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 1-ethyl-... | 13.10 | 7.2     | ug/L  | 1749900  | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 1-etheny... | 13.30 | 21.6    | ug/L  | 5290800  | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 1-etheny... | 13.35 | 4.3     | ug/L  | 1052070  | 3                     | 13.56 | 6116290 | 25.0 |
| Indane               | 13.76 | 8.9     | ug/L  | 2187850  | 3                     | 13.56 | 6116290 | 25.0 |
| Indene               | 13.94 | 26.9    | ug/L  | 6577980  | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, (2-methy... | 14.04 | 1.8     | ug/L  | 442488   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 2-butenyl-  | 14.16 | 1.6     | ug/L  | 390420   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 2-etheny... | 14.24 | 6.1     | ug/L  | 1492880  | 3                     | 13.56 | 6116290 | 25.0 |
| p-Cymene             | 14.34 | 1.3     | ug/L  | 307580   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 1,2,3,4-... | 14.42 | 2.9     | ug/L  | 718027   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 1-ethyl-... | 14.46 | 4.6     | ug/L  | 1116640  | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 2-etheny... | 14.51 | 2.3     | ug/L  | 551440   | 3                     | 13.56 | 6116290 | 25.0 |
| Bicyclo[4.2.0]oct... | 14.56 | 2.1     | ug/L  | 526898   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, 1,2,4,5-... | 14.80 | 8.9     | ug/L  | 2176280  | 3                     | 13.56 | 6116290 | 25.0 |
| Benzene, (1-methy... | 14.88 | 6.4     | ug/L  | 1565320  | 3                     | 13.56 | 6116290 | 25.0 |
| 1H-Indene, 1-methyl- | 14.96 | 19.3    | ug/L  | 4715000  | 3                     | 13.56 | 6116290 | 25.0 |
| 1,4-Dihydronaphth... | 15.07 | 1.3     | ug/L  | 322412   | 3                     | 13.56 | 6116290 | 25.0 |
| Pyridine, 3-pyrro... | 15.32 | 1.7     | ug/L  | 421911   | 3                     | 13.56 | 6116290 | 25.0 |
| Benzo[b]thiophene    | 15.47 | 1.9     | ug/L  | 474498   | 3                     | 13.56 | 6116290 | 25.0 |
| (1-Methylbuta-1,3... | 15.97 | 2.3     | ug/L  | 566927   | 3                     | 13.56 | 6116290 | 25.0 |