

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
 Data File : VY019547.D  
 Acq On : 13 Sep 2024 18:19  
 Operator : SY/MD  
 Sample : P3936-01  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-COMP

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
 Title : SW846 8260

Signal : TIC: VY019547.D\data.ms

| 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         | 2.098       | 53            | 62          | 63           | rBV4     | 5902           | 14665         | 1.64%           | 0.164%        |
| 2         | 6.860       | 836           | 843         | 844          | rBV5     | 6429           | 10344         | 1.16%           | 0.115%        |
| 3         | 7.622       | 962           | 968         | 974          | rBV6     | 5594           | 14059         | 1.57%           | 0.157%        |
| 4         | 7.701       | 974           | 981         | 990          | rVB4     | 11219          | 29644         | 3.32%           | 0.331%        |
| 5         | 8.055       | 1032          | 1039        | 1047         | rBV2     | 6909           | 16851         | 1.89%           | 0.188%        |
| 6         | 8.610       | 1124          | 1130        | 1139         | rVB      | 17854          | 37722         | 4.22%           | 0.421%        |
| 7         | 9.103       | 1201          | 1211        | 1217         | rBV4     | 12588          | 29068         | 3.25%           | 0.324%        |
| 8         | 9.750       | 1311          | 1317        | 1328         | rVB4     | 13617          | 32682         | 3.66%           | 0.364%        |
| 9         | 9.884       | 1330          | 1339        | 1350         | rVB7     | 9287           | 25951         | 2.91%           | 0.289%        |
| 10        | 10.103      | 1368          | 1375        | 1381         | rBV2     | 43882          | 87672         | 9.82%           | 0.977%        |
| 11        | 10.170      | 1383          | 1386        | 1391         | rVV      | 12836          | 20870         | 2.34%           | 0.233%        |
| 12        | 10.231      | 1391          | 1396        | 1399         | rVV6     | 6089           | 11808         | 1.32%           | 0.132%        |
| 13        | 10.298      | 1399          | 1407        | 1415         | rVB      | 43362          | 82007         | 9.18%           | 0.914%        |
| 14        | 10.445      | 1425          | 1431        | 1437         | rVB2     | 12789          | 23589         | 2.64%           | 0.263%        |
| 15        | 10.542      | 1440          | 1447        | 1453         | rBV4     | 16395          | 34271         | 3.84%           | 0.382%        |
| 16        | 10.640      | 1458          | 1463        | 1468         | rVB3     | 8115           | 13584         | 1.52%           | 0.151%        |
| 17        | 10.731      | 1470          | 1478        | 1483         | rBV2     | 18453          | 30692         | 3.44%           | 0.342%        |
| 18        | 10.829      | 1490          | 1494        | 1501         | rVV2     | 11748          | 23865         | 2.67%           | 0.266%        |
| 19        | 10.890      | 1501          | 1504        | 1508         | rVV3     | 13516          | 24823         | 2.78%           | 0.277%        |
| 20        | 10.963      | 1512          | 1516        | 1520         | rVV      | 32252          | 53932         | 6.04%           | 0.601%        |
| 21        | 11.018      | 1520          | 1525        | 1530         | rVV2     | 33019          | 63015         | 7.06%           | 0.703%        |
| 22        | 11.066      | 1530          | 1533        | 1538         | rVB7     | 7115           | 9947          | 1.11%           | 0.111%        |
| 23        | 11.127      | 1538          | 1543        | 1548         | rBV5     | 20977          | 40323         | 4.51%           | 0.450%        |
| 24        | 11.207      | 1548          | 1556        | 1567         | rVB4     | 78402          | 196567        | 22.01%          | 2.192%        |
| 25        | 11.310      | 1567          | 1573        | 1577         | rBV      | 67008          | 110202        | 12.34%          | 1.229%        |
| 26        | 11.414      | 1585          | 1590        | 1594         | rBV      | 17491          | 29040         | 3.25%           | 0.324%        |
| 27        | 11.518      | 1601          | 1607        | 1610         | rBV2     | 27423          | 48993         | 5.49%           | 0.546%        |
| 28        | 11.548      | 1610          | 1612        | 1616         | rVV2     | 23644          | 32629         | 3.65%           | 0.364%        |
| 29        | 11.639      | 1616          | 1627        | 1634         | rVV4     | 276248         | 647009        | 72.44%          | 7.214%        |
| 30        | 11.700      | 1634          | 1637        | 1643         | rVB3     | 41397          | 71361         | 7.99%           | 0.796%        |
| 31        | 11.767      | 1643          | 1648        | 1652         | rBV6     | 9677           | 20449         | 2.29%           | 0.228%        |
| 32        | 11.853      | 1658          | 1662        | 1667         | rVB3     | 19424          | 28687         | 3.21%           | 0.320%        |
| 33        | 11.950      | 1667          | 1678        | 1682         | rBV3     | 97680          | 306154        | 34.28%          | 3.413%        |
| 34        | 12.048      | 1690          | 1694        | 1698         | rVB      | 86168          | 111650        | 12.50%          | 1.245%        |
| 35        | 12.127      | 1702          | 1707        | 1709         | rBV2     | 51107          | 80558         | 9.02%           | 0.898%        |
| 36        | 12.164      | 1709          | 1713        | 1718         | rVB4     | 79769          | 148885        | 16.67%          | 1.660%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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\_Y\methods\82Y090924S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |         |        |
|----|--------|------|------|------|------|--------|--------|---------|--------|
| 37 | 12.249 | 1723 | 1727 | 1730 | rBV3 | 20898  | 32561  | 3.65%   | 0.363% |
| 38 | 12.304 | 1730 | 1736 | 1738 | rVV6 | 39716  | 82596  | 9.25%   | 0.921% |
| 39 | 12.341 | 1738 | 1742 | 1744 | rVV  | 93981  | 145136 | 16.25%  | 1.618% |
| 40 | 12.365 | 1744 | 1746 | 1750 | rVB  | 94042  | 107757 | 12.06%  | 1.201% |
| 41 | 12.414 | 1750 | 1754 | 1756 | rBV5 | 18224  | 27009  | 3.02%   | 0.301% |
| 42 | 12.450 | 1756 | 1760 | 1764 | rVB2 | 82918  | 104603 | 11.71%  | 1.166% |
| 43 | 12.499 | 1764 | 1768 | 1771 | rVB2 | 17111  | 24380  | 2.73%   | 0.272% |
| 44 | 12.566 | 1775 | 1779 | 1786 | rVB4 | 46440  | 107991 | 12.09%  | 1.204% |
| 45 | 12.658 | 1786 | 1794 | 1797 | rBV2 | 152826 | 274721 | 30.76%  | 3.063% |
| 46 | 12.731 | 1801 | 1806 | 1811 | rVB2 | 578299 | 893156 | 100.00% | 9.958% |
| 47 | 12.779 | 1811 | 1814 | 1819 | rVB2 | 71743  | 111330 | 12.46%  | 1.241% |
| 48 | 12.889 | 1819 | 1832 | 1836 | rBV4 | 83083  | 253558 | 28.39%  | 2.827% |
| 49 | 12.932 | 1836 | 1839 | 1840 | rVV2 | 25861  | 27853  | 3.12%   | 0.311% |
| 50 | 12.962 | 1840 | 1844 | 1850 | rVB  | 186363 | 289300 | 32.39%  | 3.226% |
| 51 | 13.042 | 1850 | 1857 | 1862 | rBV  | 197941 | 343405 | 38.45%  | 3.829% |
| 52 | 13.090 | 1862 | 1865 | 1870 | rVB3 | 35301  | 51845  | 5.80%   | 0.578% |
| 53 | 13.145 | 1870 | 1874 | 1876 | rBV2 | 33715  | 48719  | 5.45%   | 0.543% |
| 54 | 13.237 | 1882 | 1889 | 1893 | rBV4 | 137328 | 294006 | 32.92%  | 3.278% |
| 55 | 13.285 | 1893 | 1897 | 1900 | rBV3 | 82704  | 107947 | 12.09%  | 1.204% |
| 56 | 13.322 | 1900 | 1903 | 1905 | rBV  | 37020  | 40445  | 4.53%   | 0.451% |
| 57 | 13.353 | 1905 | 1908 | 1911 | rBV2 | 64378  | 89204  | 9.99%   | 0.995% |
| 58 | 13.426 | 1916 | 1920 | 1923 | rBV2 | 80841  | 106757 | 11.95%  | 1.190% |
| 59 | 13.474 | 1924 | 1928 | 1932 | rBV6 | 18496  | 32554  | 3.64%   | 0.363% |
| 60 | 13.542 | 1933 | 1939 | 1943 | rBV2 | 100319 | 160269 | 17.94%  | 1.787% |
| 61 | 13.584 | 1943 | 1946 | 1954 | rVB3 | 74113  | 153693 | 17.21%  | 1.714% |
| 62 | 13.670 | 1954 | 1960 | 1965 | rBV2 | 431599 | 685735 | 76.78%  | 7.646% |
| 63 | 13.712 | 1965 | 1967 | 1970 | rBV2 | 23466  | 24698  | 2.77%   | 0.275% |
| 64 | 13.834 | 1983 | 1987 | 1992 | rVB4 | 66811  | 97230  | 10.89%  | 1.084% |
| 65 | 13.889 | 1992 | 1996 | 2000 | rVB  | 78086  | 108273 | 12.12%  | 1.207% |
| 66 | 13.932 | 2000 | 2003 | 2008 | rVB5 | 51597  | 83807  | 9.38%   | 0.934% |
| 67 | 13.999 | 2008 | 2014 | 2019 | rBV2 | 101908 | 162438 | 18.19%  | 1.811% |
| 68 | 14.060 | 2019 | 2024 | 2029 | rBV9 | 37151  | 91338  | 10.23%  | 1.018% |
| 69 | 14.109 | 2029 | 2032 | 2036 | rBV4 | 19044  | 31408  | 3.52%   | 0.350% |
| 70 | 14.169 | 2037 | 2042 | 2049 | rVV8 | 121858 | 251593 | 28.17%  | 2.805% |
| 71 | 14.230 | 2050 | 2052 | 2059 | rVB4 | 38348  | 79772  | 8.93%   | 0.889% |
| 72 | 14.298 | 2059 | 2063 | 2066 | rBV3 | 50364  | 69344  | 7.76%   | 0.773% |
| 73 | 14.334 | 2066 | 2069 | 2074 | rVB3 | 63943  | 93731  | 10.49%  | 1.045% |
| 74 | 14.395 | 2074 | 2079 | 2083 | rBV5 | 34168  | 62115  | 6.95%   | 0.693% |
| 75 | 14.480 | 2089 | 2093 | 2097 | rBV3 | 22940  | 40397  | 4.52%   | 0.450% |
| 76 | 14.529 | 2097 | 2101 | 2106 | rVV2 | 93525  | 129072 | 14.45%  | 1.439% |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
Title : SW846 8260

|    |        |      |      |      |       |       |        |        |        |
|----|--------|------|------|------|-------|-------|--------|--------|--------|
| 77 | 14.596 | 2106 | 2112 | 2116 | rVV5  | 76841 | 144904 | 16.22% | 1.616% |
| 78 | 14.645 | 2116 | 2120 | 2127 | rVB5  | 56375 | 105956 | 11.86% | 1.181% |
| 79 | 14.749 | 2133 | 2137 | 2143 | rVB2  | 32361 | 55524  | 6.22%  | 0.619% |
| 80 | 14.852 | 2150 | 2154 | 2158 | rVB4  | 22570 | 36548  | 4.09%  | 0.407% |
| 81 | 14.889 | 2158 | 2160 | 2165 | rVB6  | 6971  | 8963   | 1.00%  | 0.100% |
| 82 | 14.956 | 2166 | 2171 | 2179 | rVB7  | 14181 | 38641  | 4.33%  | 0.431% |
| 83 | 15.121 | 2193 | 2198 | 2201 | rBV6  | 8846  | 15009  | 1.68%  | 0.167% |
| 84 | 15.200 | 2208 | 2211 | 2215 | rVB3  | 7464  | 9475   | 1.06%  | 0.106% |
| 85 | 15.255 | 2216 | 2220 | 2229 | rVB10 | 11400 | 36428  | 4.08%  | 0.406% |
| 86 | 15.340 | 2230 | 2234 | 2240 | rVB6  | 9708  | 16308  | 1.83%  | 0.182% |
| 87 | 15.627 | 2277 | 2281 | 2289 | rVB9  | 8957  | 15972  | 1.79%  | 0.178% |

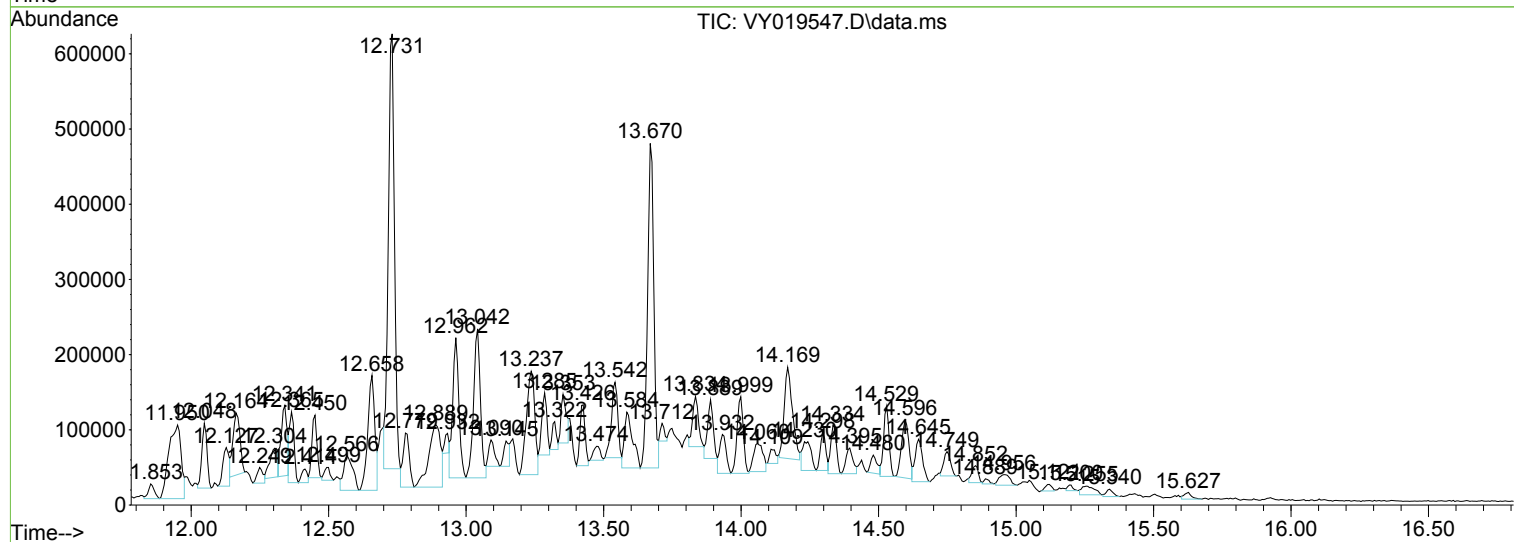
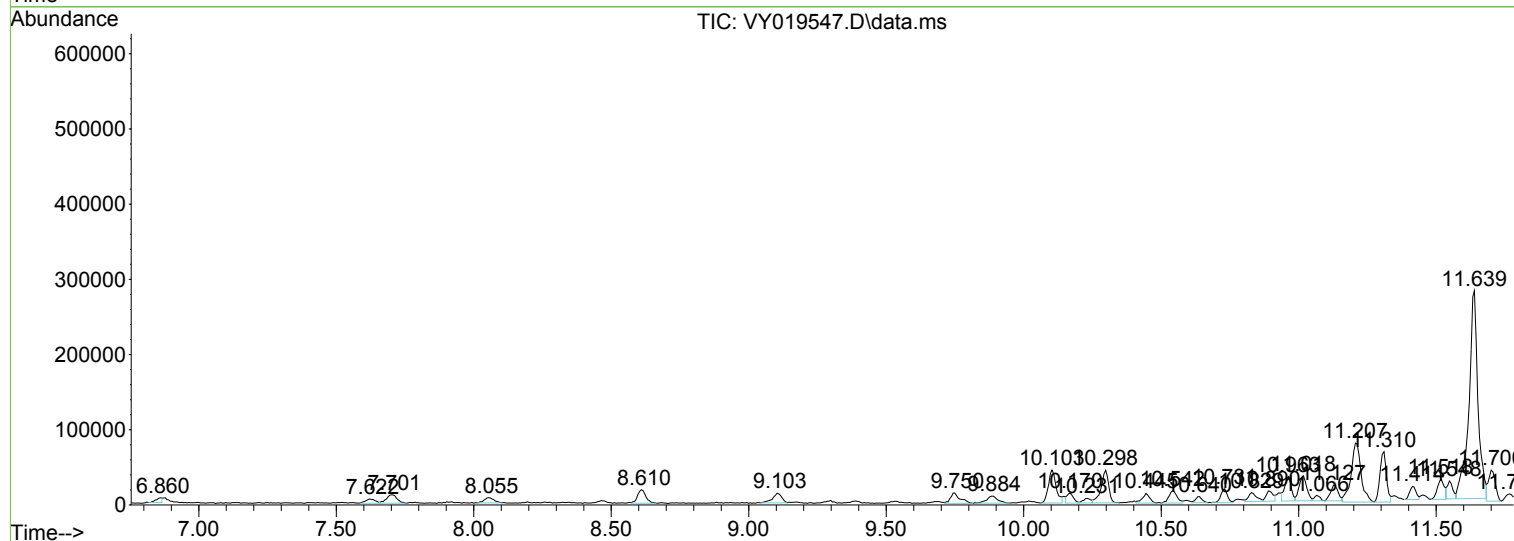
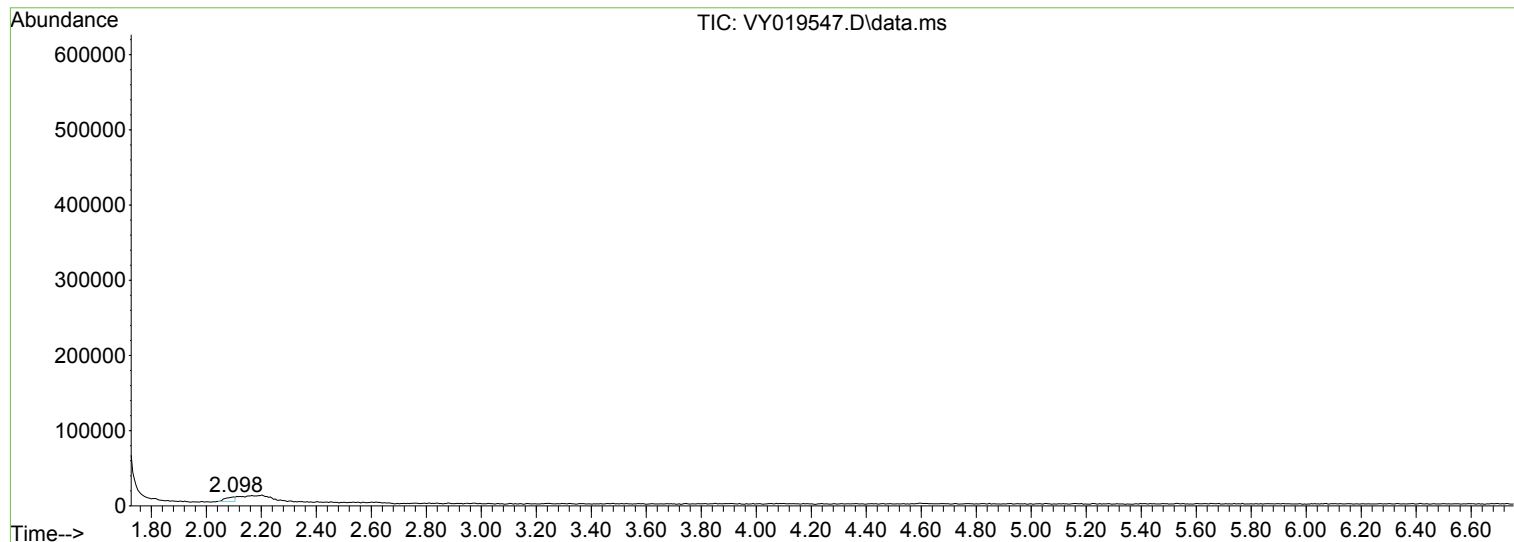
Sum of corrected areas: 8969042

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Title :

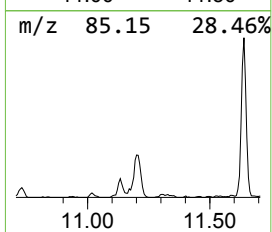
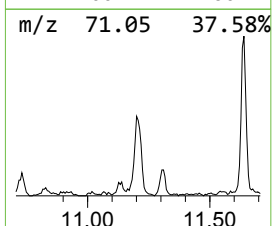
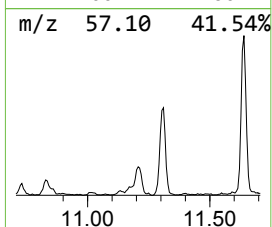
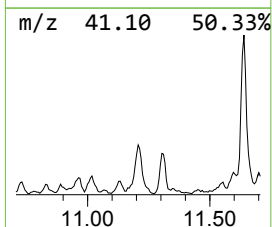
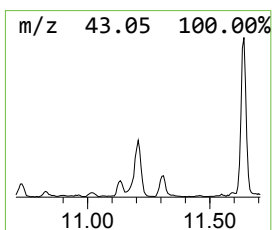
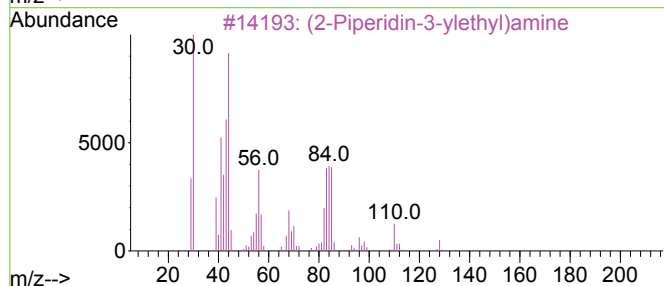
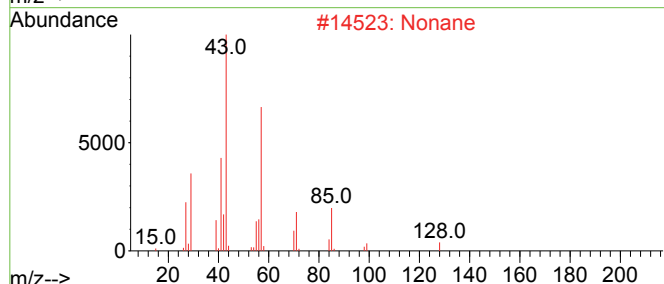
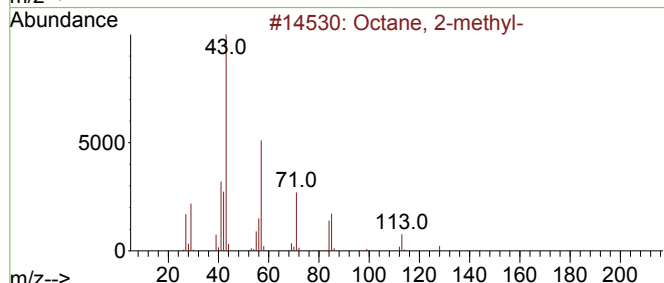
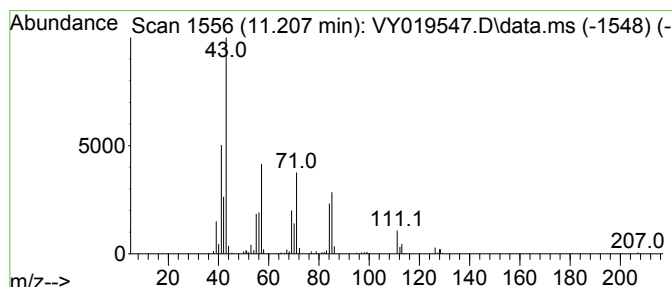
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 1 Octane, 2-methyl- Concentration Rank 2

| R.T.   | EstConc     | Area   | Relative to ISTD | R.T.   |
|--------|-------------|--------|------------------|--------|
| 11.207 | 338.44 ug/l | 196567 | Chlorobenzene-d5 | 11.414 |

| Hit# | of 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------|-----|---------|-------------|------|
| 1    |      | Octane, 2-methyl-            | 128 | C9H20   | 003221-61-2 | 72   |
| 2    |      | Nonane                       | 128 | C9H20   | 000111-84-2 | 59   |
| 3    |      | (2-Piperidin-3-ylethyl)amine | 128 | C7H16N2 | 089850-94-2 | 53   |
| 4    |      | Octane                       | 114 | C8H18   | 000111-65-9 | 50   |
| 5    |      | Octane, 4-methyl-            | 128 | C9H20   | 002216-34-4 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

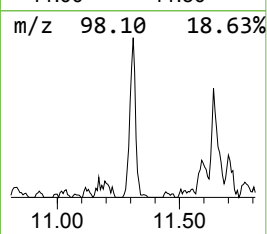
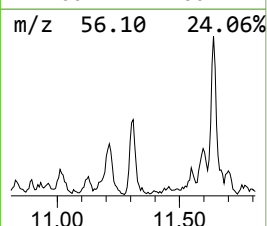
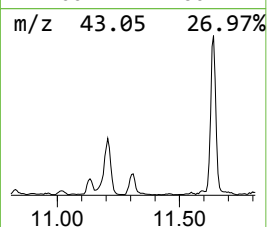
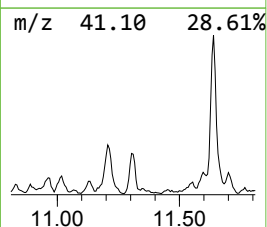
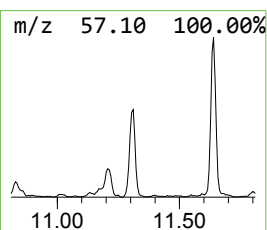
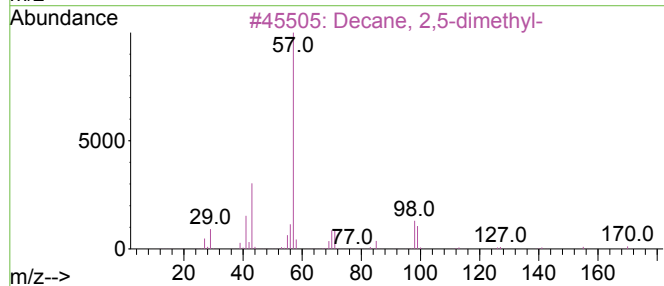
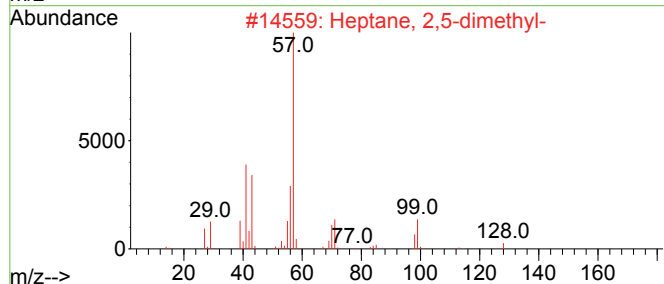
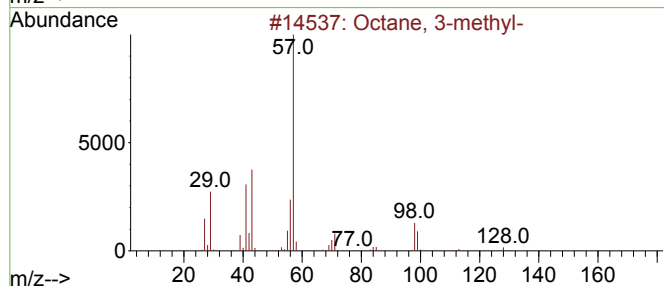
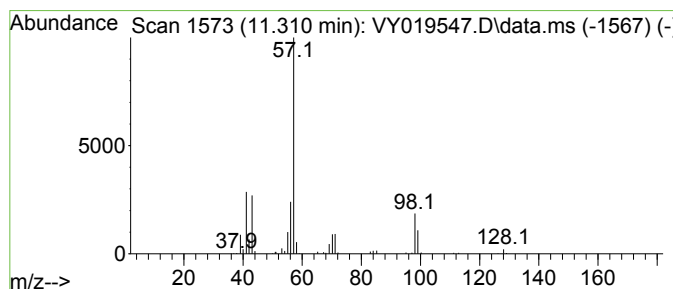
Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Octane, 3-methyl- Concentration Rank 6

| R.T.   | EstConc     | Area   | Relative to ISTD | R.T.   |
|--------|-------------|--------|------------------|--------|
| 11.310 | 189.74 ug/l | 110202 | Chlorobenzene-d5 | 11.414 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 3-methyl-      | 128 | C9H20   | 002216-33-3 | 91   |
| 2    |    |   | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 91   |
| 3    |    |   | Decane, 2,5-dimethyl-  | 170 | C12H26  | 017312-50-4 | 64   |
| 4    |    |   | Undecane, 6-methyl-    | 170 | C12H26  | 017302-33-9 | 59   |
| 5    |    |   | Heptane, 4-propyl-     | 142 | C10H22  | 003178-29-8 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Title :

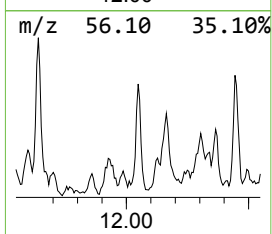
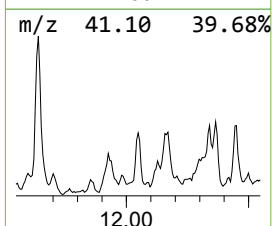
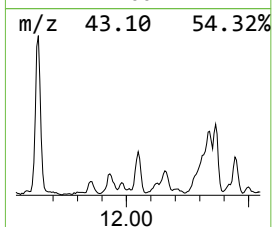
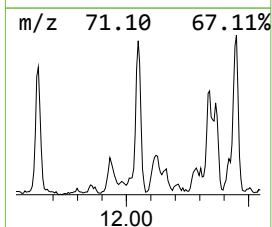
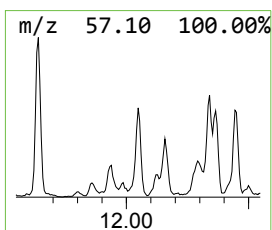
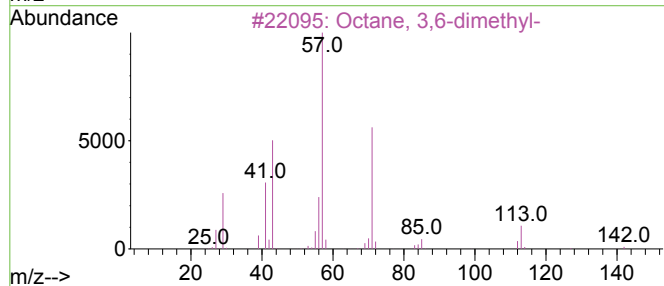
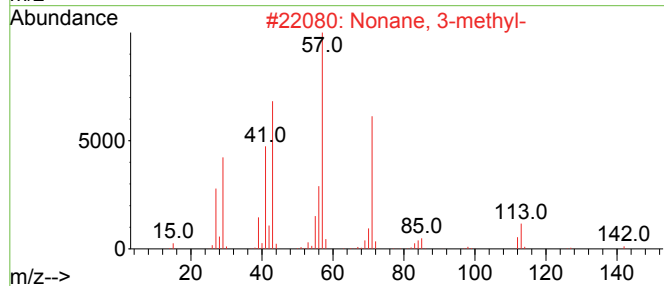
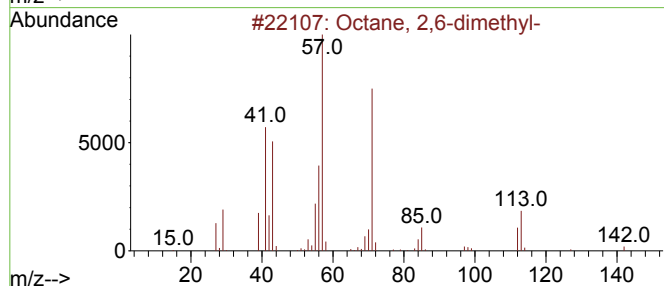
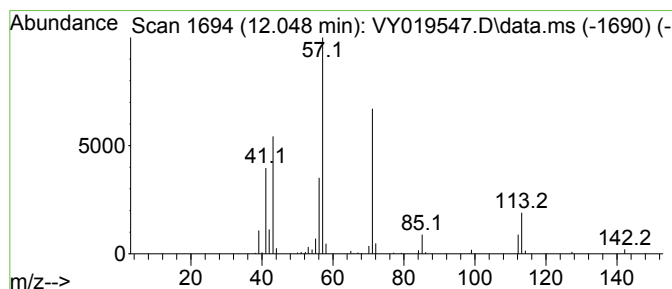
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 3 Octane, 2,6-dimethyl- Concentration Rank 5

| R.T.   | EstConc     | Area   | Relative to ISTD | R.T.   |
|--------|-------------|--------|------------------|--------|
| 12.048 | 192.24 ug/l | 111650 | Chlorobenzene-d5 | 11.414 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------|--------------|------|
| 1    |      | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 91   |
| 2    |      | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 90   |
| 3    |      | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 86   |
| 4    |      | Octane, 1,1'-oxybis-                | 242 | C16H34O   | 000629-82-3  | 78   |
| 5    |      | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Title :

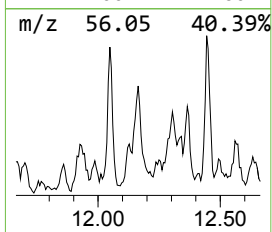
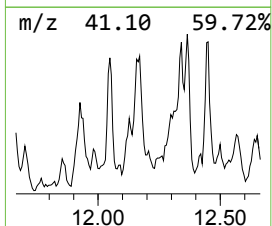
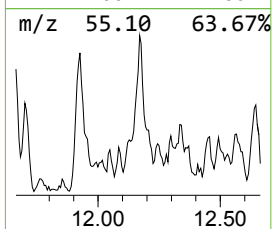
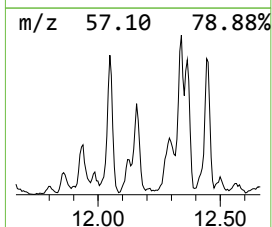
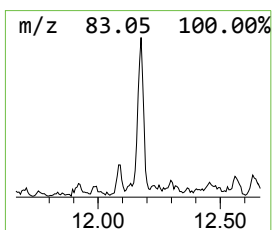
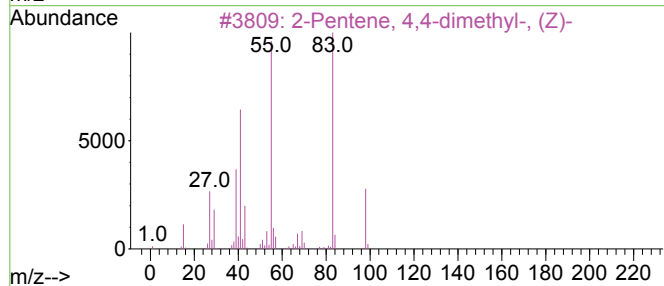
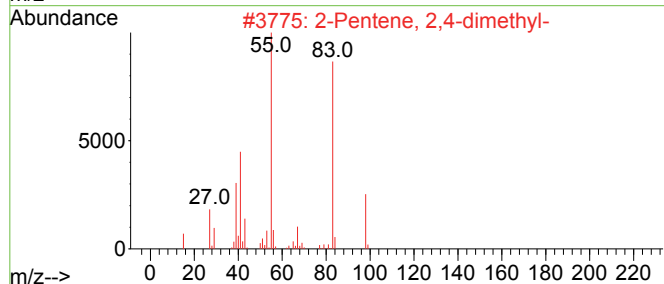
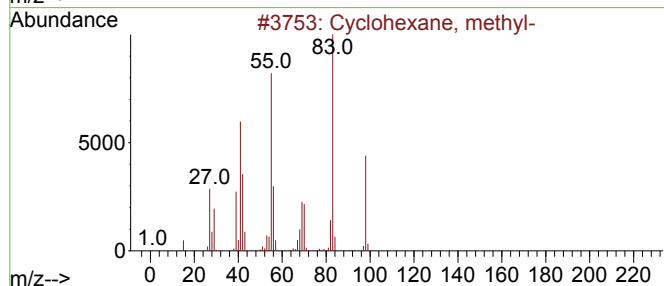
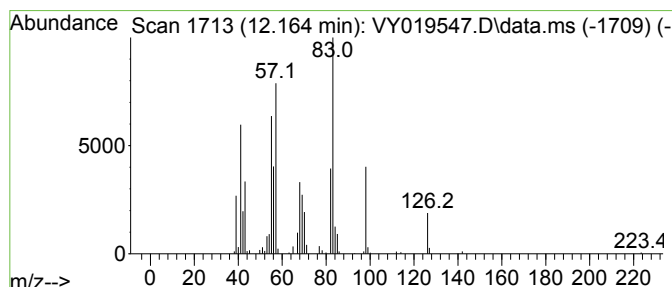
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 4 Cyclohexane, methyl- Concentration Rank 3

| R.T.   | EstConc     | Area   | Relative to ISTD | R.T.   |
|--------|-------------|--------|------------------|--------|
| 12.164 | 256.35 ug/l | 148885 | Chlorobenzene-d5 | 11.414 |

| Hit# | of 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, methyl-             | 98  | C7H14   | 000108-87-2 | 52   |
| 2    |      | 2-Pentene, 2,4-dimethyl-         | 98  | C7H14   | 000625-65-0 | 35   |
| 3    |      | 2-Pentene, 4,4-dimethyl-, (Z)-   | 98  | C7H14   | 000762-63-0 | 35   |
| 4    |      | Cyclohexane, (1-methylethyl)-    | 126 | C9H18   | 000696-29-7 | 27   |
| 5    |      | Cyclopentanone, 2,4,4-trimethyl- | 126 | C8H14O  | 004694-12-6 | 25   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

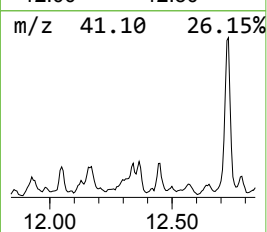
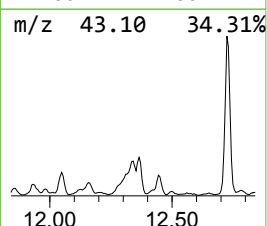
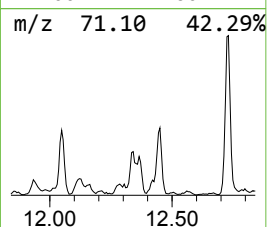
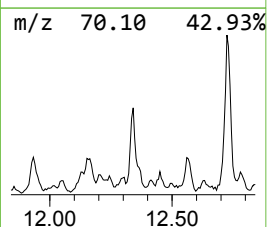
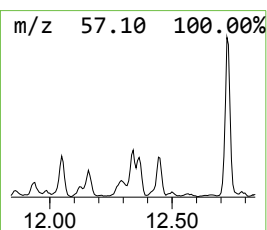
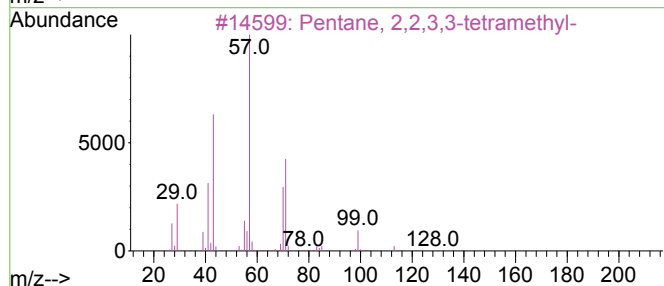
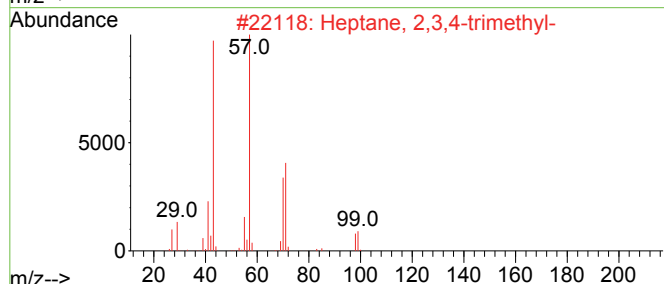
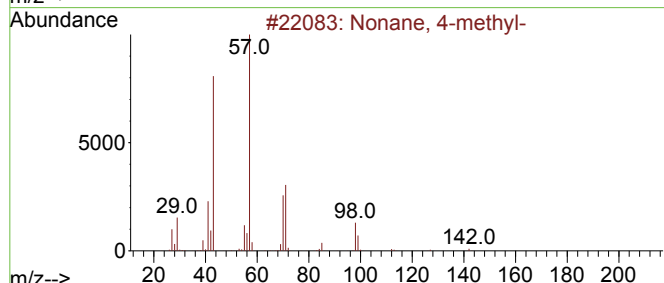
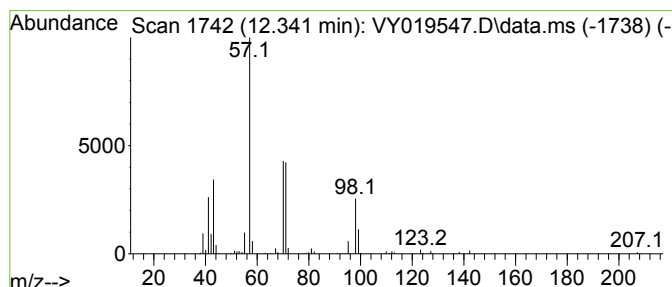
Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Nonane, 4-methyl- Concentration Rank 4

| R.T.   | EstConc     | Area   | Relative to ISTD | R.T.   |
|--------|-------------|--------|------------------|--------|
| 12.341 | 249.89 ug/l | 145136 | Chlorobenzene-d5 | 11.414 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Nonane, 4-methyl-                   | 142 | C10H22      | 017301-94-9  | 80   |
| 2    |    |   | Heptane, 2,3,4-trimethyl-           | 142 | C10H22      | 052896-95-4  | 64   |
| 3    |    |   | Pentane, 2,2,3,3-tetramethyl-       | 128 | C9H20       | 007154-79-2  | 53   |
| 4    |    |   | Pentadecafluorooctanoic acid, 2-... | 526 | C16H17F15O2 | 1000406-80-9 | 47   |
| 5    |    |   | Octane, 2,5-dimethyl-               | 142 | C10H22      | 015869-89-3  | 45   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

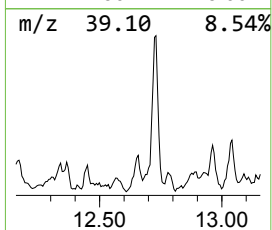
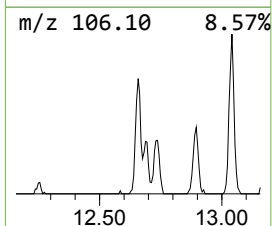
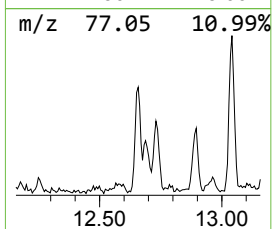
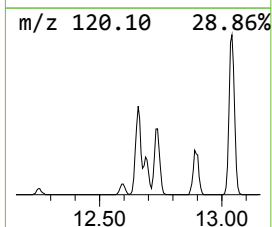
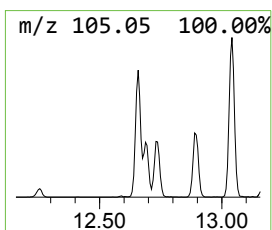
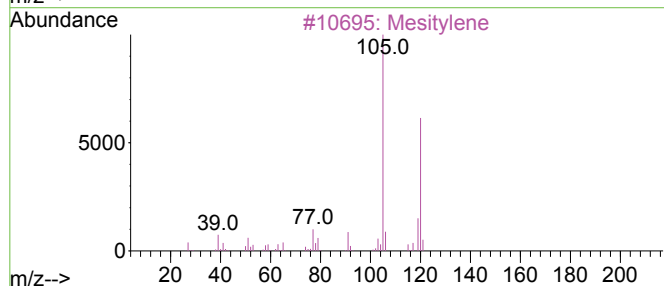
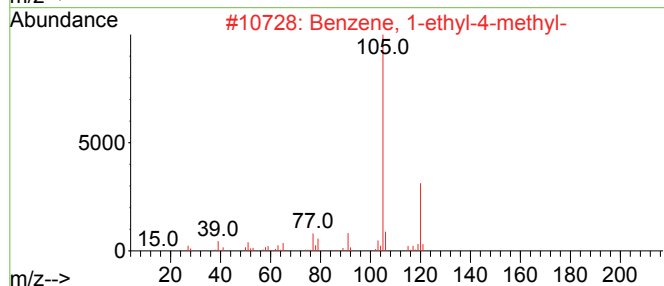
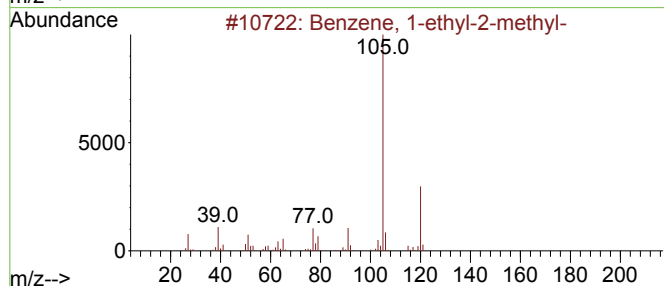
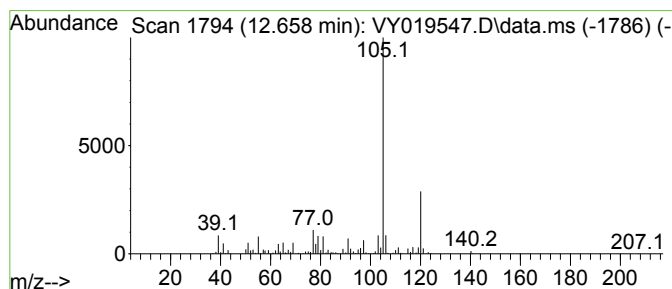
Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

| R.T.   | EstConc     | Area   | Relative to ISTD       | R.T.   |
|--------|-------------|--------|------------------------|--------|
| 12.658 | 153.99 ug/l | 274721 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# | of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------|-----|---------|-------------|------|
| 1    |      | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 93   |
| 2    |      | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 90   |
| 3    |      | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 87   |
| 4    |      | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 87   |
| 5    |      | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 83   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

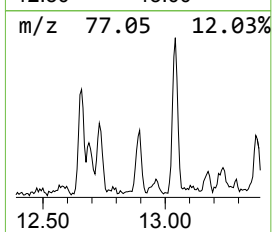
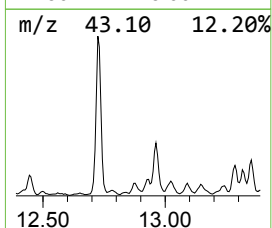
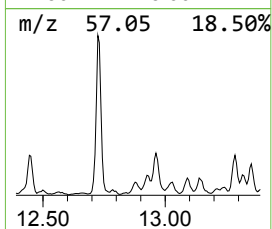
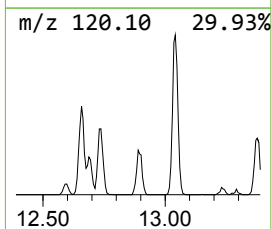
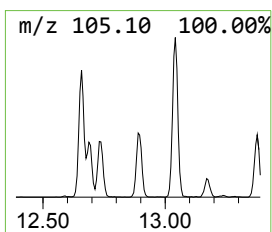
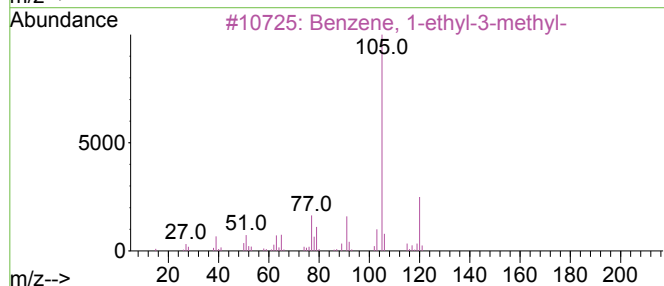
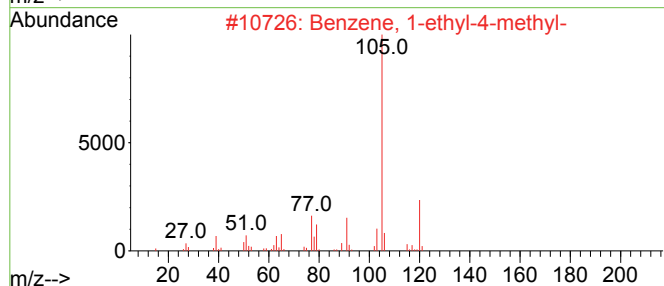
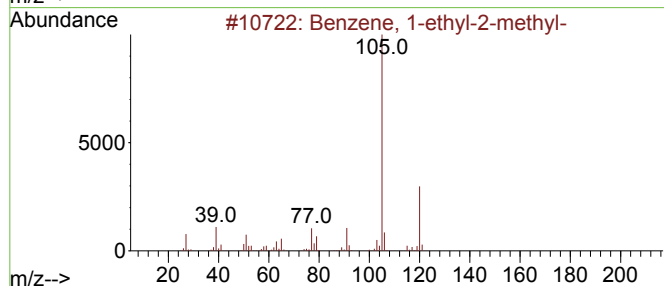
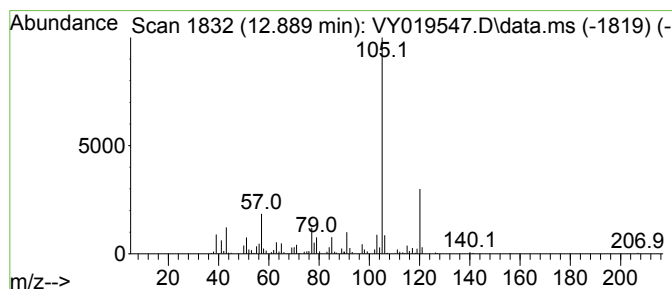
Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 10

| R.T.   | EstConc     | Area   | Relative to ISTD       | R.T.   |
|--------|-------------|--------|------------------------|--------|
| 12.889 | 142.12 ug/l | 253558 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# | of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------|-----|---------|-------------|------|
| 1    |      | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |      | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 94   |
| 3    |      | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 89   |
| 4    |      | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 76   |
| 5    |      | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

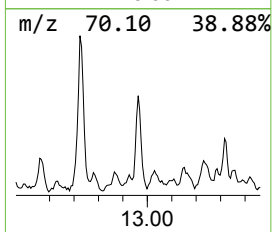
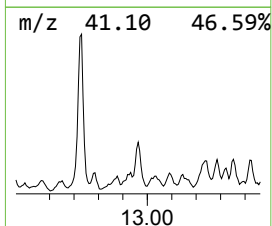
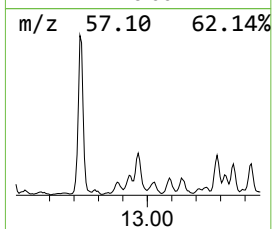
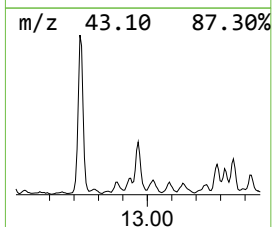
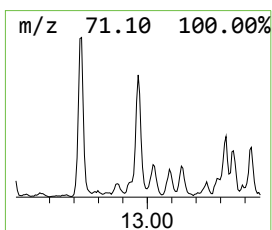
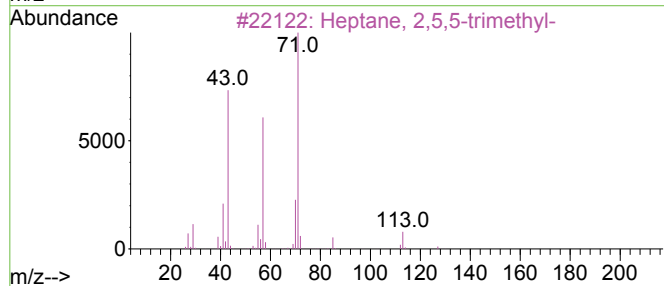
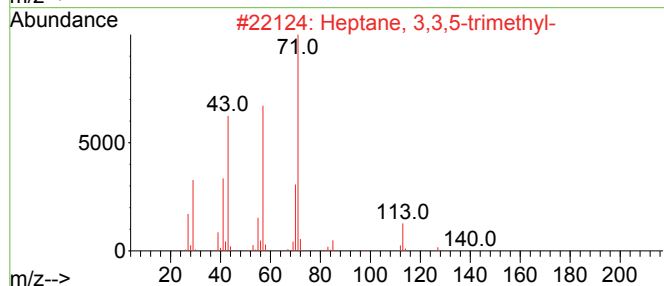
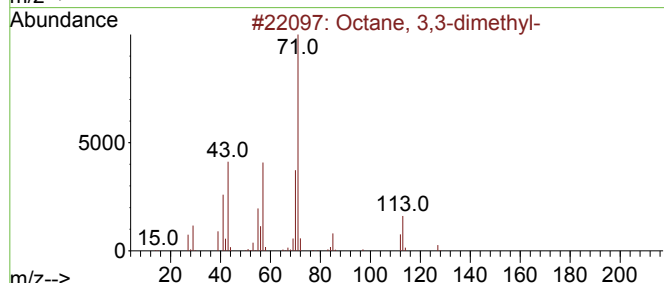
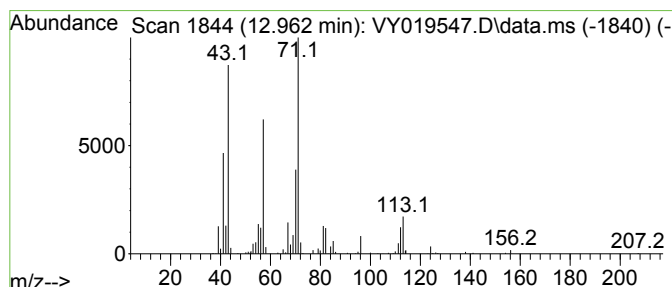
Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Octane, 3,3-dimethyl- Concentration Rank 8

| R.T.   | EstConc     | Area   | Relative to ISTD       | R.T.   |
|--------|-------------|--------|------------------------|--------|
| 12.962 | 162.16 ug/l | 289300 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# | of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------|-----|---------|-------------|------|
| 1    |      | Octane, 3,3-dimethyl-      | 142 | C10H22  | 004110-44-5 | 78   |
| 2    |      | Heptane, 3,3,5-trimethyl-  | 142 | C10H22  | 007154-80-5 | 72   |
| 3    |      | Heptane, 2,5,5-trimethyl-  | 142 | C10H22  | 001189-99-7 | 53   |
| 4    |      | 1-Hexene, 3,4,5-trimethyl- | 126 | C9H18   | 056728-10-0 | 53   |
| 5    |      | Undecane, 4-methyl-        | 170 | C12H26  | 002980-69-0 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

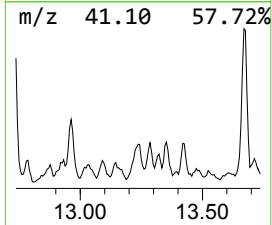
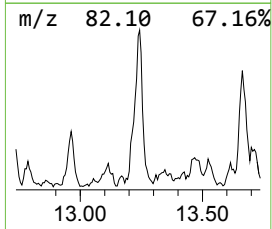
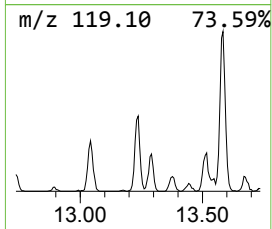
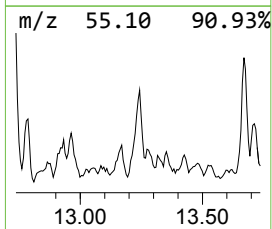
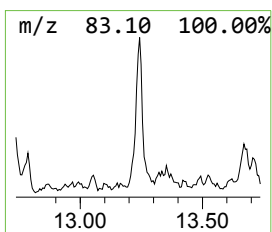
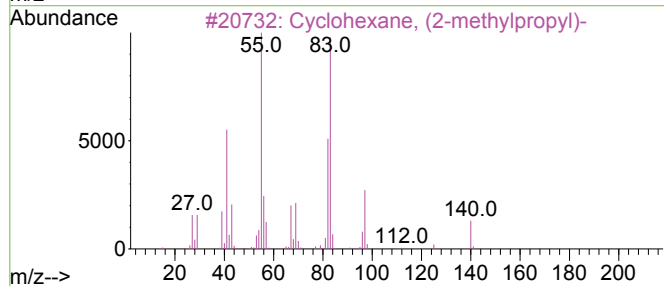
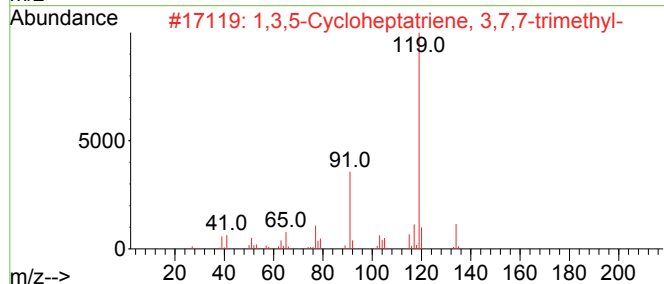
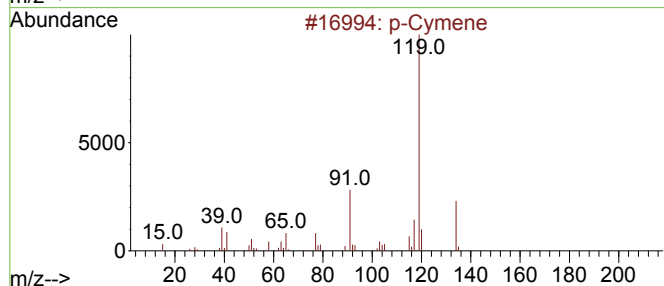
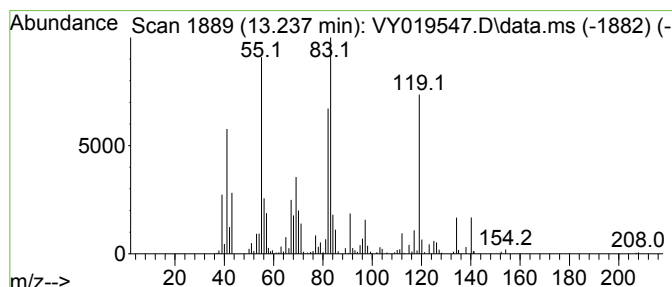
Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 9 p-Cymene Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD       |         |             | R.T.   |
|-----------|-------------------------------------|--------|------------------------|---------|-------------|--------|
| 13.237    | 164.79 ug/l                         | 294006 | 1,4-Dichlorobenzene-d4 |         |             | 13.340 |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm | CAS#        | Qual   |
| 1         | p-Cymene                            |        | 134                    | C10H14  | 000099-87-6 | 78     |
| 2         | 1,3,5-Cycloheptatriene, 3,7,7-tr... |        | 134                    | C10H14  | 003479-89-8 | 74     |
| 3         | Cyclohexane, (2-methylpropyl)-      |        | 140                    | C10H20  | 001678-98-4 | 50     |
| 4         | Benzene, 1-methyl-3-(1-methyleth... |        | 134                    | C10H14  | 000535-77-3 | 47     |
| 5         | Cyclohexane, butyl-                 |        | 140                    | C10H20  | 001678-93-9 | 43     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Title :

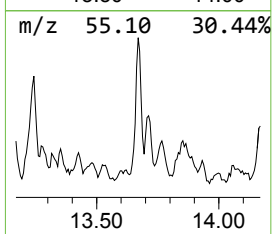
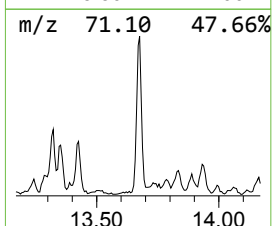
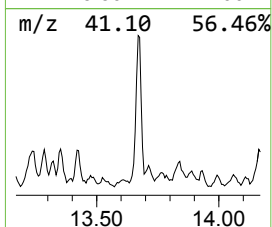
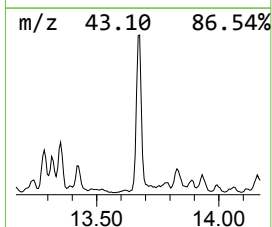
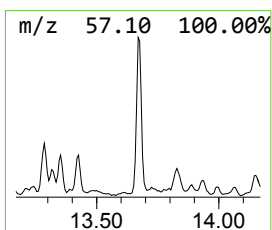
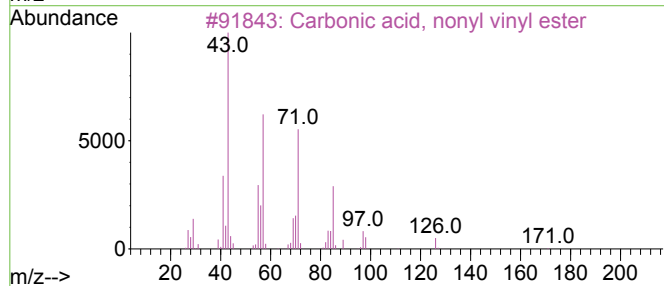
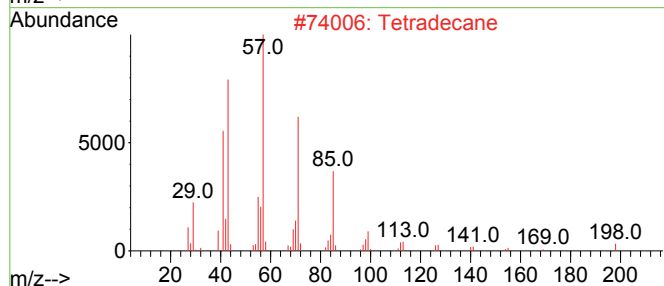
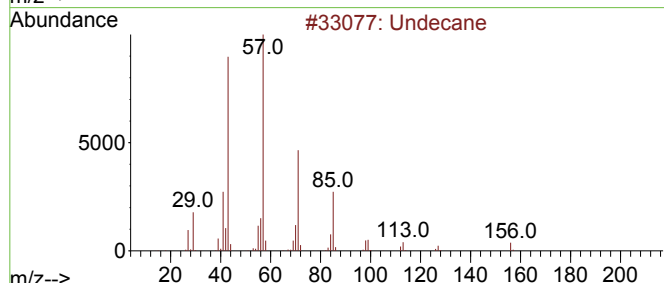
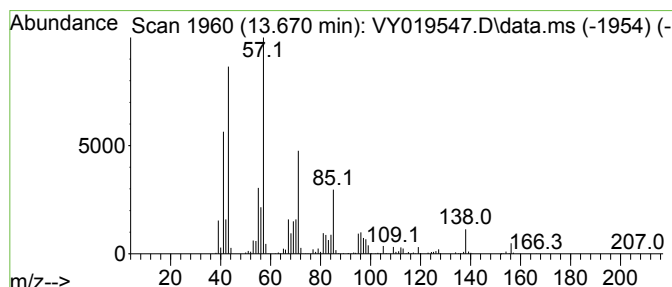
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 10 Undecane Concentration Rank 1

| R.T.   | EstConc     | Area   | Relative to ISTD       | R.T.   |
|--------|-------------|--------|------------------------|--------|
| 13.670 | 384.36 ug/l | 685735 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# | of 5                                | Tentative ID | MW        | MolForm      | CAS# | Qual |
|------|-------------------------------------|--------------|-----------|--------------|------|------|
| 1    | Undecane                            | 156          | C11H24    | 001120-21-4  | 64   |      |
| 2    | Tetradecane                         | 198          | C14H30    | 000629-59-4  | 58   |      |
| 3    | Carbonic acid, nonyl vinyl ester    | 214          | C12H22O3  | 1000383-25-6 | 52   |      |
| 4    | Tridecane                           | 184          | C13H28    | 000629-50-5  | 50   |      |
| 5    | 2-Piperidinone, N-[4-bromo-n-but... | 233          | C9H16BrNO | 195194-80-0  | 50   |      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091324\  
Data File : VY019547.D  
Acq On : 13 Sep 2024 18:19  
Operator : SY/MD  
Sample : P3936-01  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-COMP

Quant Title :

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |       |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|-------|------|
|                    |        |         |       |          | #                     | RT     | Resp  | Conc |
| Octane, 2-methyl-  | 11.207 | 338.4   | ug/l  | 196567   | 3                     | 11.414 | 29040 | 50.0 |
| Octane, 3-methyl-  | 11.310 | 189.7   | ug/l  | 110202   | 3                     | 11.414 | 29040 | 50.0 |
| Octane, 2,6-dim... | 12.048 | 192.2   | ug/l  | 111650   | 3                     | 11.414 | 29040 | 50.0 |
| Cyclohexane, me... | 12.164 | 256.4   | ug/l  | 148885   | 3                     | 11.414 | 29040 | 50.0 |
| Nonane, 4-methyl-  | 12.341 | 249.9   | ug/l  | 145136   | 3                     | 11.414 | 29040 | 50.0 |
| Benzene, 1-ethy... | 12.658 | 154.0   | ug/l  | 274721   | 4                     | 13.340 | 89204 | 50.0 |
| Benzene, 1-ethy... | 12.889 | 142.1   | ug/l  | 253558   | 4                     | 13.340 | 89204 | 50.0 |
| Octane, 3,3-dim... | 12.962 | 162.2   | ug/l  | 289300   | 4                     | 13.340 | 89204 | 50.0 |
| p-Cymene           | 13.237 | 164.8   | ug/l  | 294006   | 4                     | 13.340 | 89204 | 50.0 |
| Undecane           | 13.670 | 384.4   | ug/l  | 685735   | 4                     | 13.340 | 89204 | 50.0 |