

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
 Data File : VY019649.D  
 Acq On : 20 Sep 2024 16:33  
 Operator : SY/MD  
 Sample : P4103-16  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-23

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: VY019649.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         | 4.653       | 458           | 481         | 499          | rBV      | 87062          | 385880        | 1.95%           | 0.180%        |
| 2         | 5.122       | 543           | 558         | 575          | rVB2     | 56421          | 201596        | 1.02%           | 0.094%        |
| 3         | 6.579       | 782           | 797         | 808          | rBV2     | 179075         | 574244        | 2.91%           | 0.268%        |
| 4         | 7.677       | 961           | 977         | 987          | rBV3     | 351392         | 1280156       | 6.48%           | 0.597%        |
| 5         | 7.787       | 987           | 995         | 1005         | rVB      | 404296         | 1031647       | 5.22%           | 0.481%        |
| 6         | 7.915       | 1007          | 1016        | 1029         | rBV      | 384726         | 897685        | 4.54%           | 0.419%        |
| 7         | 8.244       | 1053          | 1070        | 1080         | rBV      | 1202381        | 3264401       | 16.52%          | 1.522%        |
| 8         | 8.469       | 1099          | 1107        | 1119         | rVB      | 220028         | 455805        | 2.31%           | 0.213%        |
| 9         | 8.610       | 1122          | 1130        | 1138         | rBV      | 240821         | 516984        | 2.62%           | 0.241%        |
| 10        | 9.109       | 1199          | 1212        | 1217         | rBV2     | 495364         | 1177089       | 5.96%           | 0.549%        |
| 11        | 9.164       | 1217          | 1221        | 1228         | rVB      | 358301         | 645688        | 3.27%           | 0.301%        |
| 12        | 9.384       | 1247          | 1257        | 1266         | rBV2     | 81150          | 234291        | 1.19%           | 0.109%        |
| 13        | 9.542       | 1275          | 1283        | 1294         | rBV      | 942687         | 1896644       | 9.60%           | 0.885%        |
| 14        | 9.670       | 1294          | 1304        | 1311         | rBV      | 1251444        | 2830673       | 14.33%          | 1.320%        |
| 15        | 9.743       | 1311          | 1316        | 1320         | rBV      | 468704         | 847692        | 4.29%           | 0.395%        |
| 16        | 9.884       | 1329          | 1339        | 1351         | rBV      | 676848         | 1655384       | 8.38%           | 0.772%        |
| 17        | 10.036      | 1358          | 1364        | 1370         | rBV      | 489834         | 854637        | 4.33%           | 0.399%        |
| 18        | 10.103      | 1370          | 1375        | 1386         | rVB      | 490728         | 992627        | 5.02%           | 0.463%        |
| 19        | 10.298      | 1399          | 1407        | 1413         | rVB2     | 560428         | 1106889       | 5.60%           | 0.516%        |
| 20        | 10.548      | 1441          | 1448        | 1458         | rBV7     | 171223         | 602311        | 3.05%           | 0.281%        |
| 21        | 10.640      | 1458          | 1463        | 1469         | rVB      | 179100         | 298173        | 1.51%           | 0.139%        |
| 22        | 10.731      | 1472          | 1478        | 1482         | rBV      | 182807         | 322336        | 1.63%           | 0.150%        |
| 23        | 10.829      | 1489          | 1494        | 1501         | rBV      | 318221         | 589404        | 2.98%           | 0.275%        |
| 24        | 11.018      | 1520          | 1525        | 1529         | rBV2     | 142791         | 241360        | 1.22%           | 0.113%        |
| 25        | 11.133      | 1539          | 1544        | 1547         | rBV      | 222485         | 360409        | 1.82%           | 0.168%        |
| 26        | 11.207      | 1547          | 1556        | 1566         | rVB2     | 1048495        | 2384267       | 12.07%          | 1.112%        |
| 27        | 11.304      | 1567          | 1572        | 1581         | rBV      | 897301         | 1462181       | 7.40%           | 0.682%        |
| 28        | 11.414      | 1584          | 1590        | 1595         | rBV2     | 388282         | 757086        | 3.83%           | 0.353%        |
| 29        | 11.518      | 1598          | 1607        | 1615         | rBV      | 2757829        | 4837491       | 24.49%          | 2.256%        |
| 30        | 11.621      | 1616          | 1624        | 1635         | rVV      | 7760455        | 15285989      | 77.38%          | 7.129%        |
| 31        | 11.859      | 1659          | 1663        | 1667         | rBV3     | 194876         | 314071        | 1.59%           | 0.146%        |
| 32        | 11.950      | 1669          | 1678        | 1686         | rVV2     | 1120478        | 2349922       | 11.90%          | 1.096%        |
| 33        | 12.048      | 1690          | 1694        | 1698         | rVB      | 346664         | 497229        | 2.52%           | 0.232%        |
| 34        | 12.121      | 1701          | 1706        | 1710         | rBV2     | 272204         | 517411        | 2.62%           | 0.241%        |
| 35        | 12.170      | 1710          | 1714        | 1718         | rVB3     | 274020         | 469283        | 2.38%           | 0.219%        |
| 36        | 12.249      | 1723          | 1727        | 1732         | rBV      | 832871         | 1356315       | 6.87%           | 0.633%        |

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 Sample : P4103-16  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-23

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

|    |        |      |      |      |      |          |          |         |        |
|----|--------|------|------|------|------|----------|----------|---------|--------|
| 37 | 12.341 | 1739 | 1742 | 1744 | rBV  | 232623   | 243494   | 1.23%   | 0.114% |
| 38 | 12.365 | 1744 | 1746 | 1748 | rBV  | 176661   | 201197   | 1.02%   | 0.094% |
| 39 | 12.444 | 1756 | 1759 | 1763 | rVB  | 547556   | 675400   | 3.42%   | 0.315% |
| 40 | 12.591 | 1772 | 1783 | 1788 | rBV  | 4096121  | 6516956  | 32.99%  | 3.039% |
| 41 | 12.658 | 1788 | 1794 | 1797 | rBV  | 4575125  | 7314633  | 37.03%  | 3.411% |
| 42 | 12.688 | 1797 | 1799 | 1802 | rVV  | 3386828  | 4086554  | 20.69%  | 1.906% |
| 43 | 12.731 | 1802 | 1806 | 1812 | rVB  | 5021312  | 7531065  | 38.12%  | 3.512% |
| 44 | 12.780 | 1812 | 1814 | 1821 | rVB4 | 235692   | 351911   | 1.78%   | 0.164% |
| 45 | 12.889 | 1825 | 1832 | 1837 | rBV  | 2065999  | 3809991  | 19.29%  | 1.777% |
| 46 | 12.962 | 1840 | 1844 | 1851 | rVB2 | 732069   | 1127231  | 5.71%   | 0.526% |
| 47 | 13.042 | 1851 | 1857 | 1862 | rBV  | 13430574 | 19755149 | 100.00% | 9.213% |
| 48 | 13.090 | 1862 | 1865 | 1869 | rBV  | 284475   | 347609   | 1.76%   | 0.162% |
| 49 | 13.151 | 1870 | 1875 | 1876 | rBV3 | 773397   | 1100705  | 5.57%   | 0.513% |
| 50 | 13.237 | 1882 | 1889 | 1893 | rVB3 | 1031961  | 1796853  | 9.10%   | 0.838% |
| 51 | 13.286 | 1893 | 1897 | 1900 | rBV2 | 862307   | 1184551  | 6.00%   | 0.552% |
| 52 | 13.316 | 1900 | 1902 | 1905 | rVV  | 474411   | 647517   | 3.28%   | 0.302% |
| 53 | 13.377 | 1905 | 1912 | 1917 | rVV  | 3263706  | 5948755  | 30.11%  | 2.774% |
| 54 | 13.420 | 1917 | 1919 | 1926 | rVB2 | 686649   | 982385   | 4.97%   | 0.458% |
| 55 | 13.511 | 1926 | 1934 | 1936 | rBV  | 2084275  | 3300429  | 16.71%  | 1.539% |
| 56 | 13.542 | 1936 | 1939 | 1943 | rVV  | 4559637  | 6821965  | 34.53%  | 3.182% |
| 57 | 13.584 | 1943 | 1946 | 1955 | rVB3 | 3528069  | 7320012  | 37.05%  | 3.414% |
| 58 | 13.670 | 1955 | 1960 | 1964 | rBV2 | 1843756  | 2906708  | 14.71%  | 1.356% |
| 59 | 13.737 | 1964 | 1971 | 1976 | rVV  | 1181198  | 2245331  | 11.37%  | 1.047% |
| 60 | 13.804 | 1977 | 1982 | 1984 | rVV  | 1845851  | 2878767  | 14.57%  | 1.343% |
| 61 | 13.834 | 1984 | 1987 | 1991 | rVV  | 2042092  | 3024039  | 15.31%  | 1.410% |
| 62 | 13.889 | 1991 | 1996 | 2001 | rVV  | 5695043  | 7946119  | 40.22%  | 3.706% |
| 63 | 13.938 | 2001 | 2004 | 2009 | rVB2 | 626913   | 1035966  | 5.24%   | 0.483% |
| 64 | 13.993 | 2009 | 2013 | 2018 | rVB  | 2500319  | 3842174  | 19.45%  | 1.792% |
| 65 | 14.066 | 2018 | 2025 | 2030 | rVB6 | 643067   | 1319484  | 6.68%   | 0.615% |
| 66 | 14.133 | 2030 | 2036 | 2037 | rBV3 | 850604   | 1452139  | 7.35%   | 0.677% |
| 67 | 14.212 | 2038 | 2049 | 2052 | rVV2 | 2780273  | 7731065  | 39.13%  | 3.606% |
| 68 | 14.249 | 2052 | 2055 | 2059 | rVV  | 1854296  | 2727606  | 13.81%  | 1.272% |
| 69 | 14.298 | 2059 | 2063 | 2066 | rVV2 | 1540161  | 2047020  | 10.36%  | 0.955% |
| 70 | 14.334 | 2066 | 2069 | 2073 | rVB2 | 898790   | 1144343  | 5.79%   | 0.534% |
| 71 | 14.438 | 2082 | 2086 | 2089 | rBV  | 357094   | 457308   | 2.31%   | 0.213% |
| 72 | 14.480 | 2089 | 2093 | 2097 | rVV  | 1743953  | 2654078  | 13.43%  | 1.238% |
| 73 | 14.529 | 2097 | 2101 | 2105 | rVB  | 1683930  | 2268312  | 11.48%  | 1.058% |
| 74 | 14.596 | 2105 | 2112 | 2117 | rBV3 | 3815102  | 7947916  | 40.23%  | 3.707% |
| 75 | 14.645 | 2117 | 2120 | 2127 | rVB2 | 1987806  | 3241942  | 16.41%  | 1.512% |
| 76 | 14.718 | 2127 | 2132 | 2134 | rBV5 | 280342   | 522602   | 2.65%   | 0.244% |

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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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 | 14.822 | 2146 | 2149 | 2150 | rBV2 | 239422  | 273333  | 1.38%  | 0.127% |
| 78 | 14.858 | 2150 | 2155 | 2158 | rVV2 | 1182188 | 1734408 | 8.78%  | 0.809% |
| 79 | 14.962 | 2166 | 2172 | 2177 | rBV3 | 1061666 | 1964104 | 9.94%  | 0.916% |
| 80 | 15.047 | 2183 | 2186 | 2191 | rVB3 | 721320  | 1123952 | 5.69%  | 0.524% |
| 81 | 15.127 | 2192 | 2199 | 2206 | rBV2 | 1681765 | 4438272 | 22.47% | 2.070% |
| 82 | 15.249 | 2214 | 2219 | 2223 | rBV3 | 534102  | 972894  | 4.92%  | 0.454% |
| 83 | 15.340 | 2230 | 2234 | 2241 | rVB2 | 893720  | 1493864 | 7.56%  | 0.697% |
| 84 | 15.425 | 2242 | 2248 | 2255 | rVV4 | 628760  | 1684117 | 8.52%  | 0.785% |
| 85 | 15.505 | 2256 | 2261 | 2265 | rVB3 | 489119  | 923830  | 4.68%  | 0.431% |
| 86 | 15.779 | 2300 | 2306 | 2315 | rBV6 | 341105  | 850267  | 4.30%  | 0.397% |
| 87 | 15.919 | 2323 | 2329 | 2334 | rBV4 | 348823  | 762175  | 3.86%  | 0.355% |
| 88 | 15.974 | 2334 | 2338 | 2344 | rVB4 | 253255  | 568177  | 2.88%  | 0.265% |
| 89 | 16.041 | 2344 | 2349 | 2355 | rBV  | 532847  | 862836  | 4.37%  | 0.402% |
| 90 | 16.169 | 2365 | 2370 | 2377 | rBV  | 921104  | 1763264 | 8.93%  | 0.822% |
| 91 | 16.242 | 2379 | 2382 | 2386 | rVB  | 213419  | 320604  | 1.62%  | 0.150% |
| 92 | 16.364 | 2395 | 2402 | 2415 | rVB  | 1117742 | 2732662 | 13.83% | 1.274% |

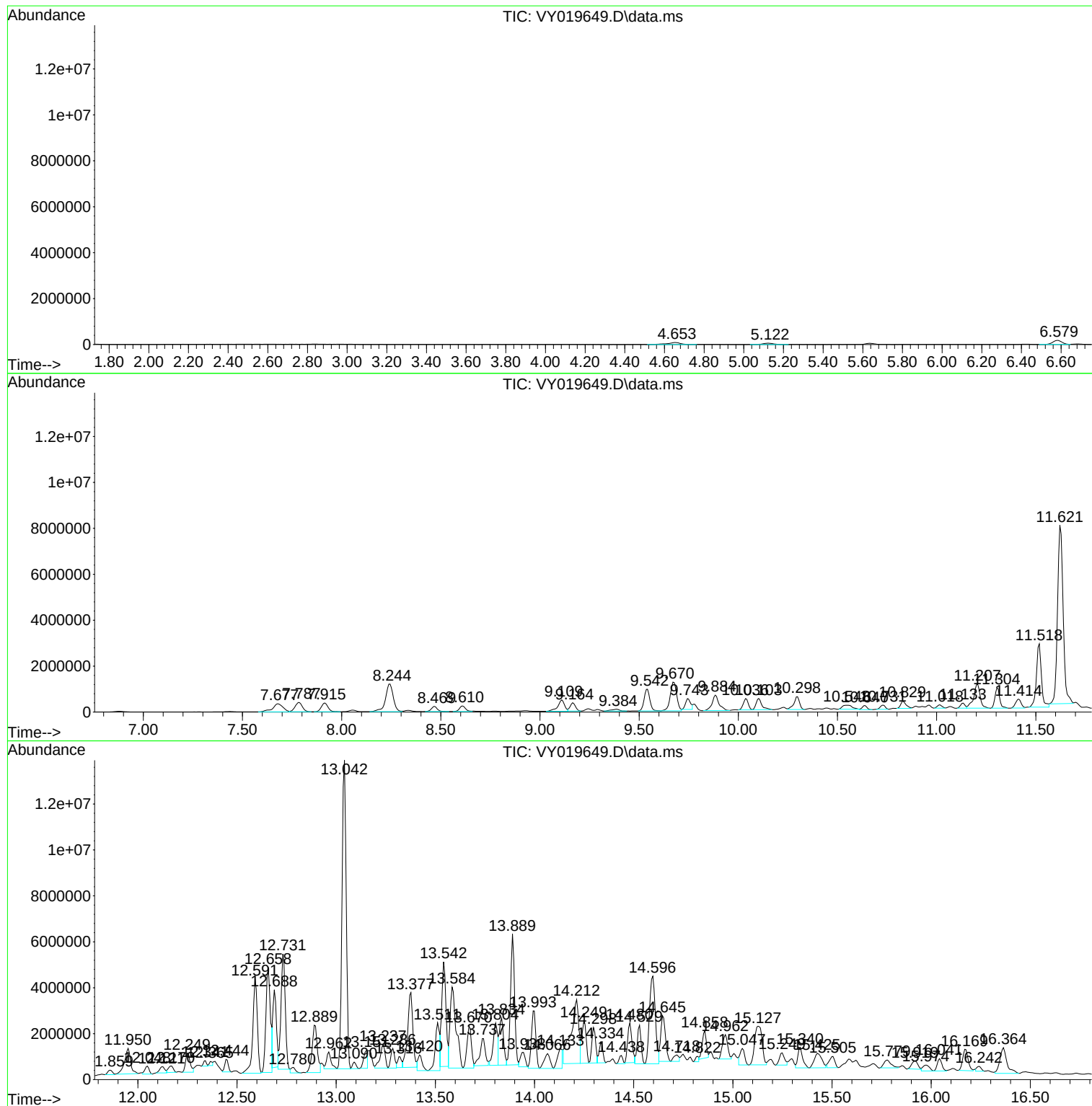
Sum of corrected areas: 214421290

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
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Sample : P4103-16  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
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ALS Vial : 16 Sample Multiplier: 1

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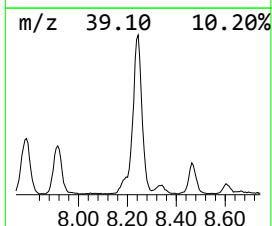
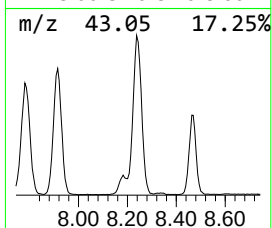
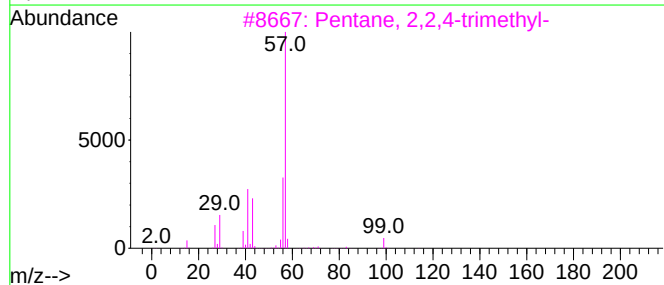
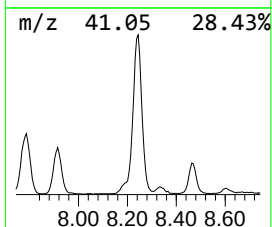
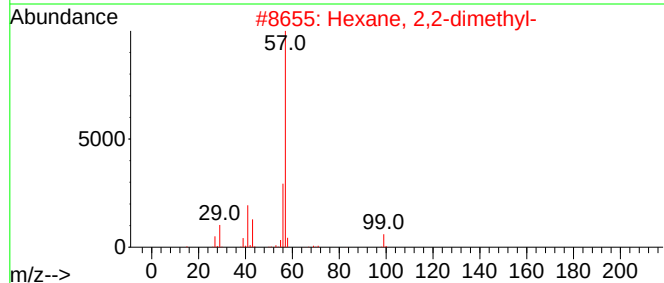
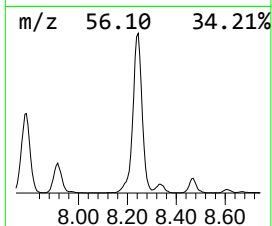
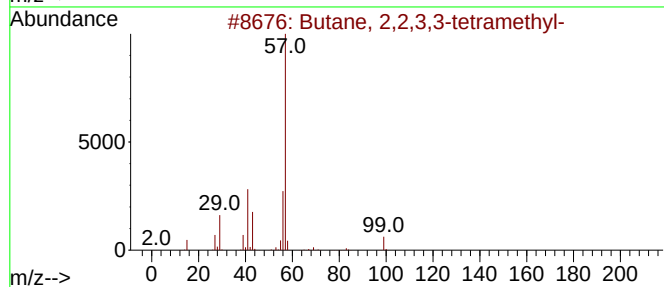
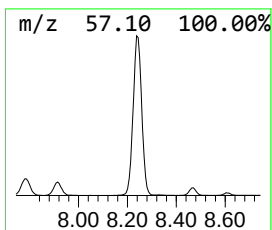
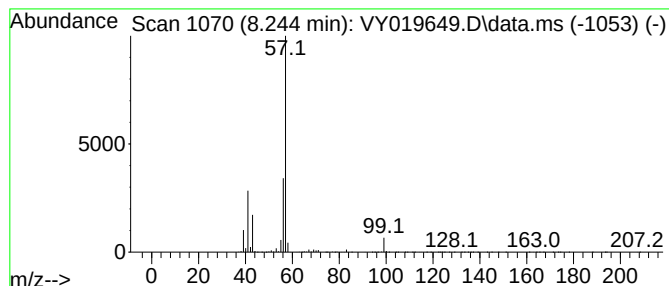
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Butane, 2,2,3,3-tetramethyl- Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD    | R.T.  |
|-------|-------------|---------|---------------------|-------|
| 8.244 | 315.72 ug/l | 3264400 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2,2,3,3-tetramethyl-    | 114 | C8H18   | 000594-82-1 | 78   |
| 2    |    |   | Hexane, 2,2-dimethyl-           | 114 | C8H18   | 000590-73-8 | 78   |
| 3    |    |   | Pentane, 2,2,4-trimethyl-       | 114 | C8H18   | 000540-84-1 | 72   |
| 4    |    |   | Pentane, 2,2,4,4-tetramethyl-   | 128 | C9H20   | 001070-87-7 | 59   |
| 5    |    |   | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26  | 013475-82-6 | 56   |



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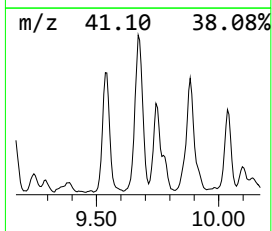
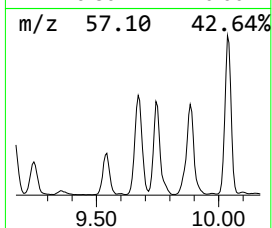
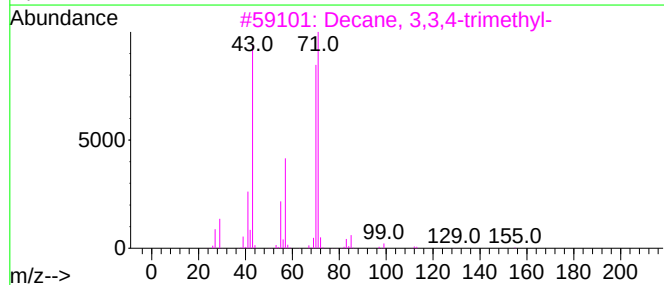
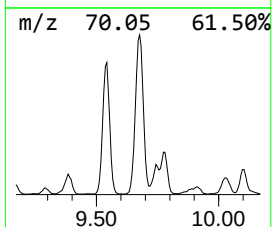
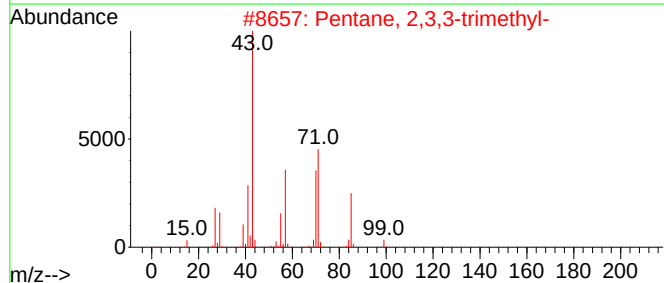
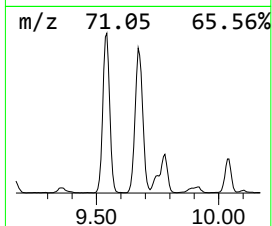
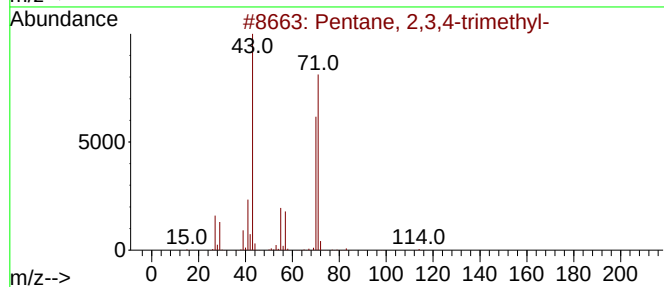
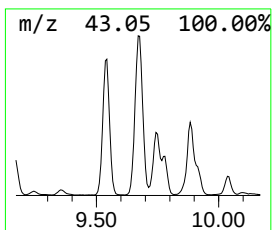
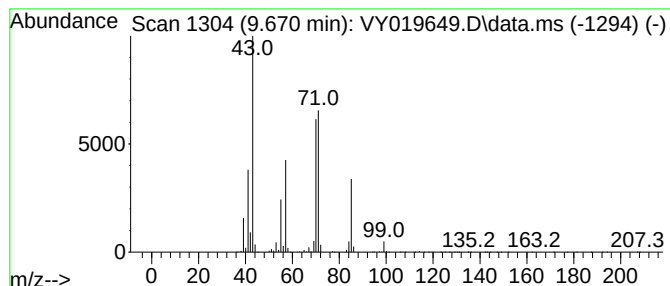
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Pentane, 2,3,4-trimethyl- Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD    | R.T.  |
|-------|-------------|---------|---------------------|-------|
| 9.670 | 273.77 ug/l | 2830670 | 1,4-Difluorobenzene | 8.610 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 72   |
| 2    |    |   | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 72   |
| 3    |    |   | Decane, 3,3,4-trimethyl-  | 184 | C13H28  | 049622-18-6 | 64   |
| 4    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 64   |
| 5    |    |   | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 59   |



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Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

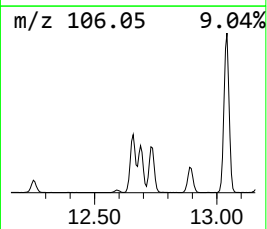
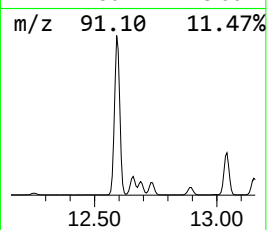
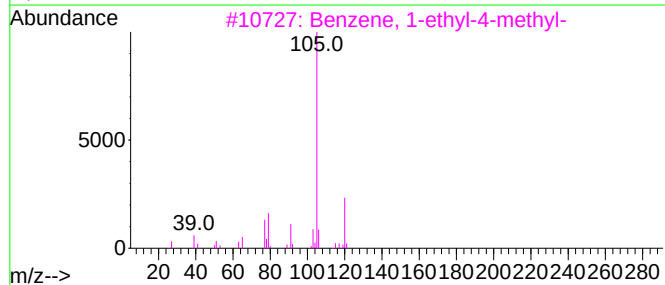
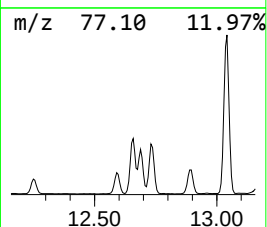
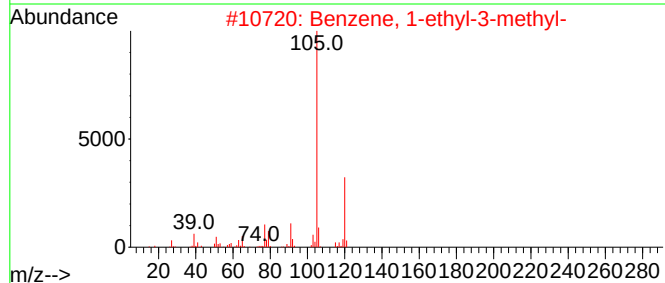
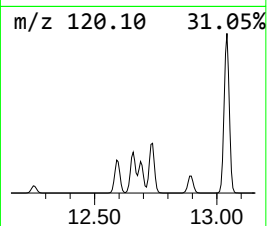
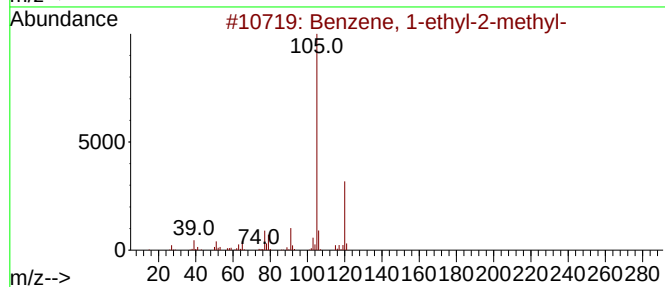
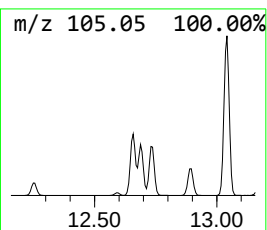
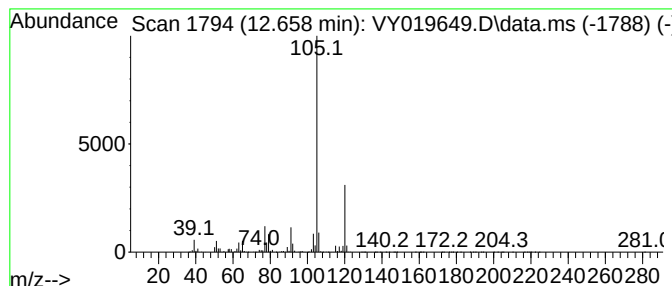
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Quant Title : SW846 8260

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

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Peak Number 3 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 12.658 | 564.82 ug/l | 7314630 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 95   |
| 3    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 4    |    |   | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 5    |    |   | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

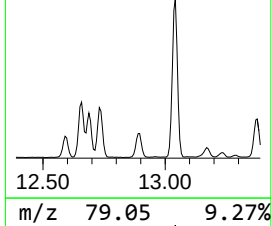
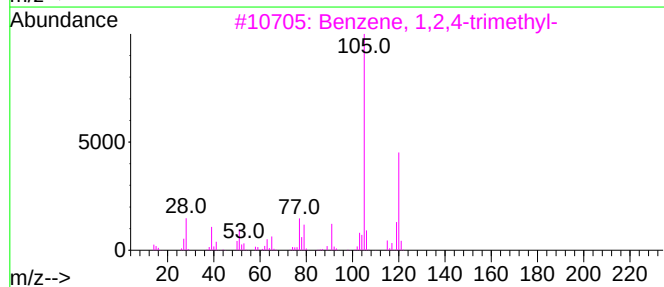
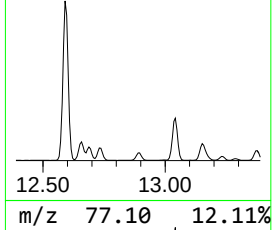
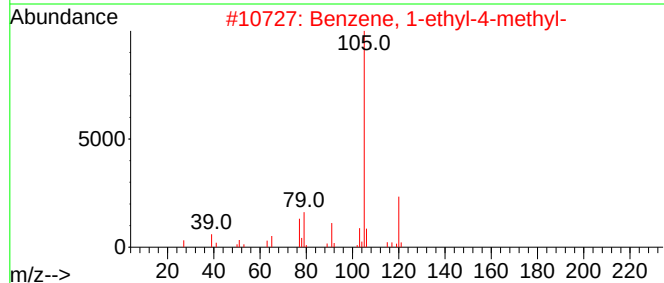
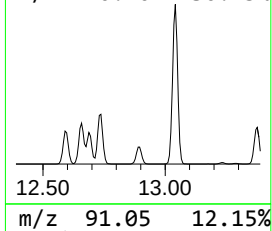
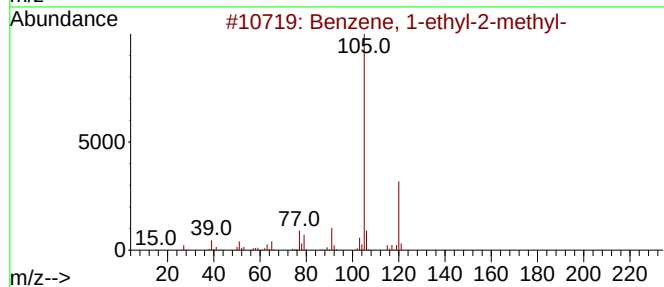
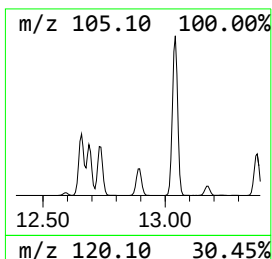
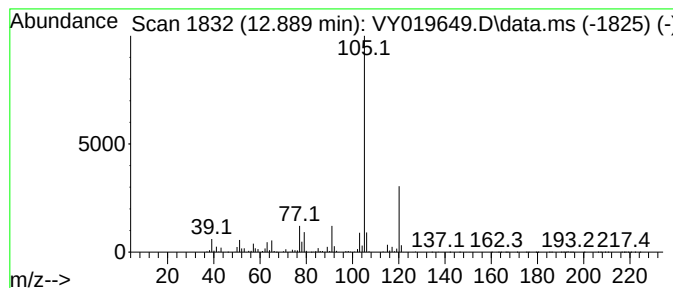
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Quant Title : SW846 8260

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

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Peak Number 4 Benzene, 1-ethyl-4-methyl- Concentration Rank 9

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 12.889 | 294.20 ug/l | 3809990 | 1,4-Dichlorobenzene-d4 | 13.347 |

| 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 | 93   |
| 3    |    |   | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 4    |    |   | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

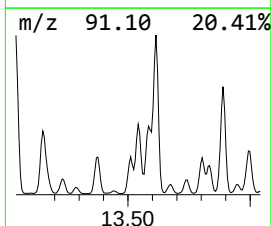
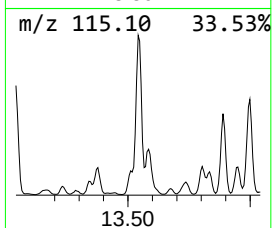
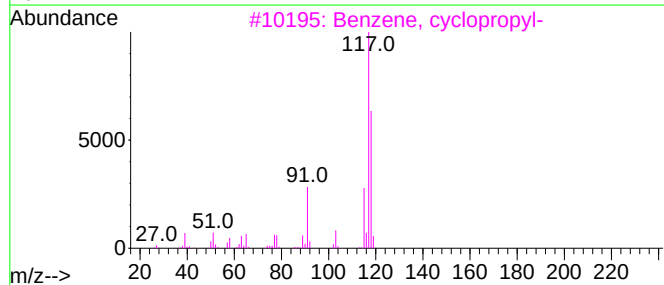
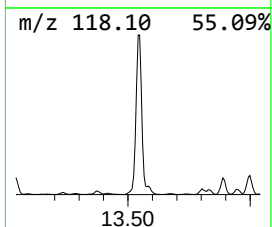
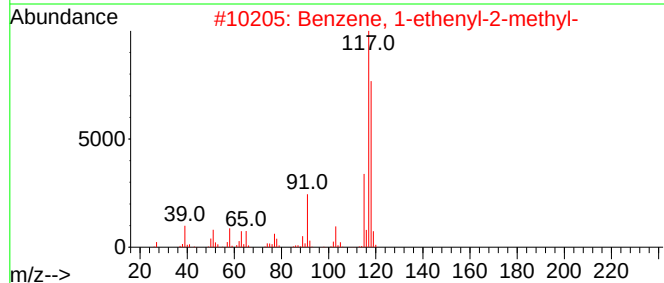
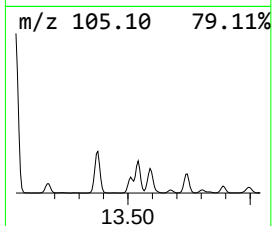
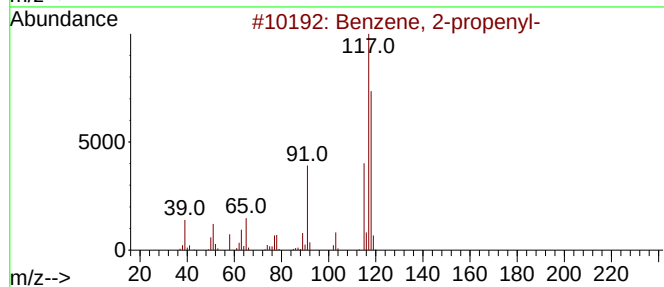
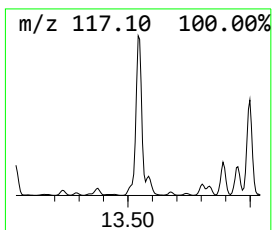
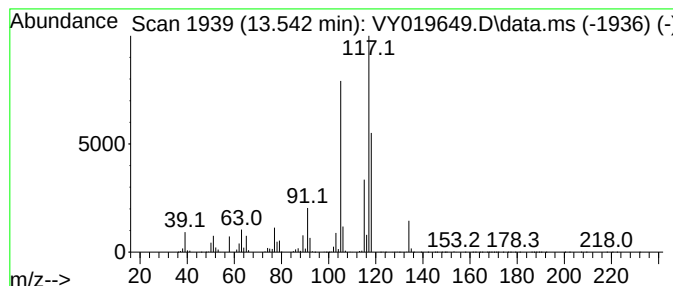
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Quant Title : SW846 8260

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

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Peak Number 5 Benzene, 2-propenyl- Concentration Rank 5

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.542 | 526.78 ug/l | 6821970 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-propenyl-         | 118 | C9H10   | 000300-57-2 | 64   |
| 2    |    |   | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 64   |
| 3    |    |   | Benzene, cyclopropyl-        | 118 | C9H10   | 000873-49-4 | 64   |
| 4    |    |   | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 64   |
| 5    |    |   | Indane                       | 118 | C9H10   | 000496-11-7 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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

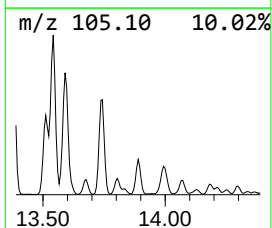
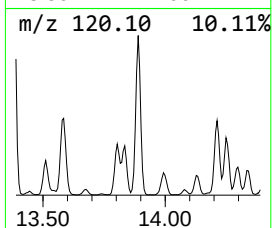
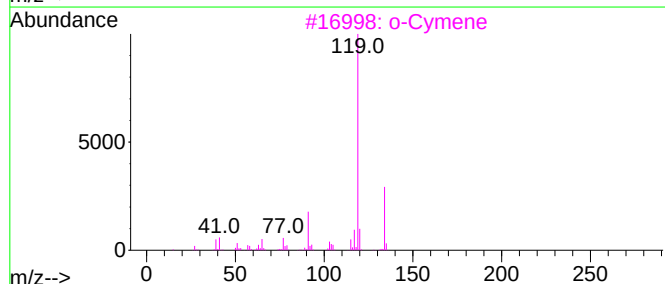
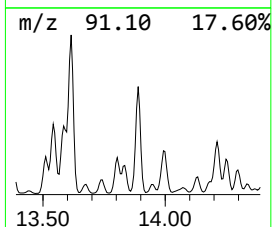
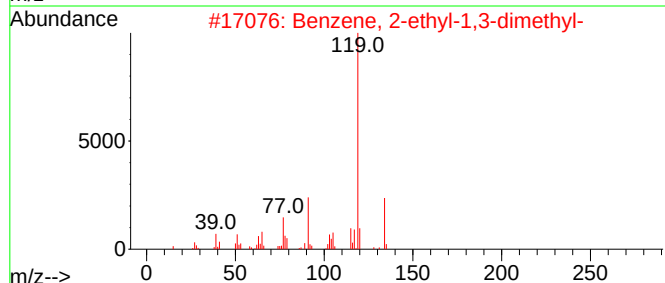
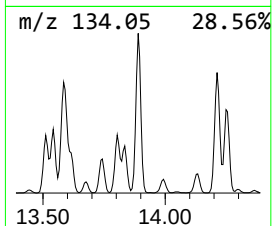
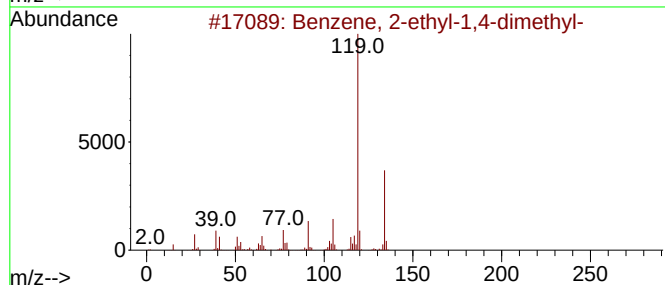
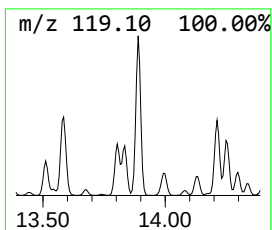
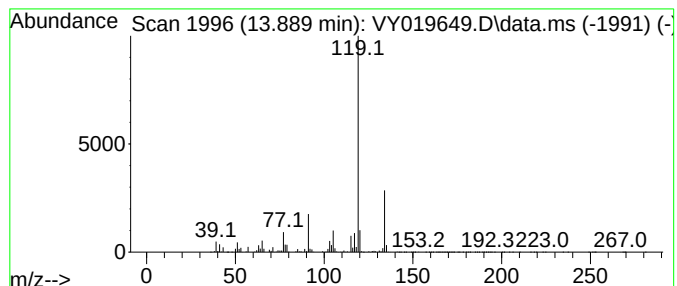
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 2

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.889 | 613.58 ug/l | 7946120 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 95   |
| 2    |    |   | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 95   |
| 3    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 4    |    |   | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 95   |
| 5    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

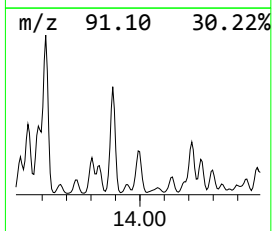
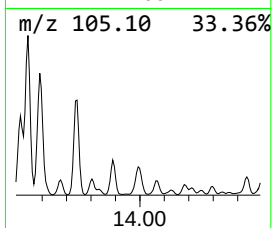
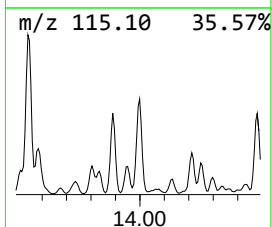
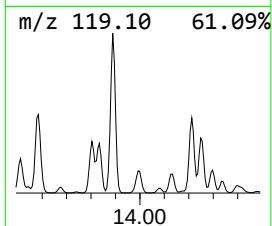
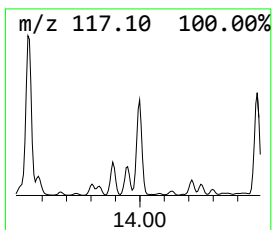
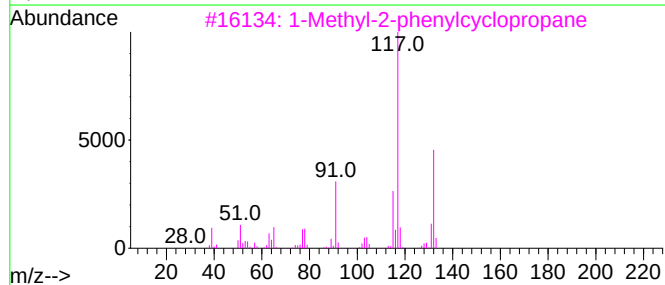
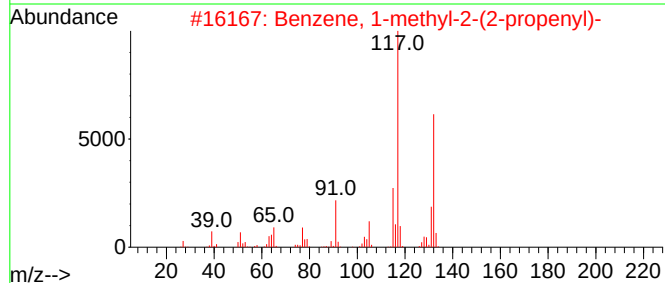
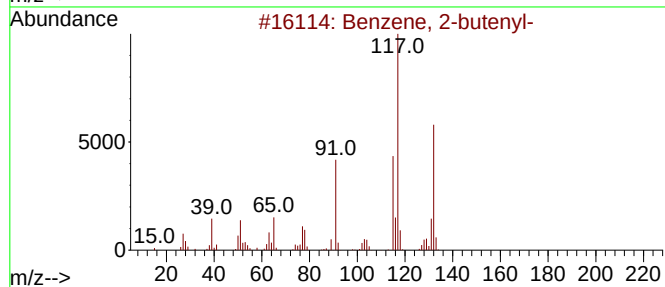
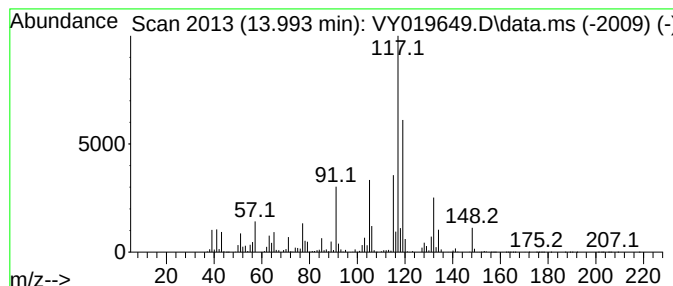
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Quant Title : SW846 8260

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

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Peak Number 7 Benzene, 2-butenyl- Concentration Rank 8

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.993 | 296.69 ug/l | 3842170 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 80   |
| 2    |    |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 64   |
| 3    |    |   | 1-Methyl-2-phenylcyclopropane     | 132 | C10H12  | 003145-76-4 | 60   |
| 4    |    |   | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8 | 60   |
| 5    |    |   | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 60   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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

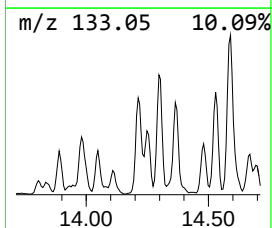
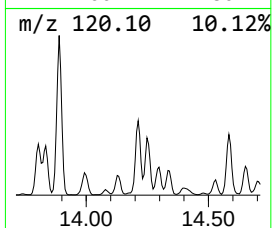
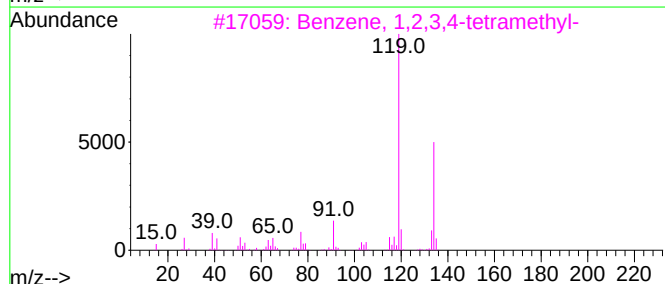
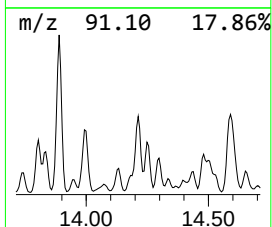
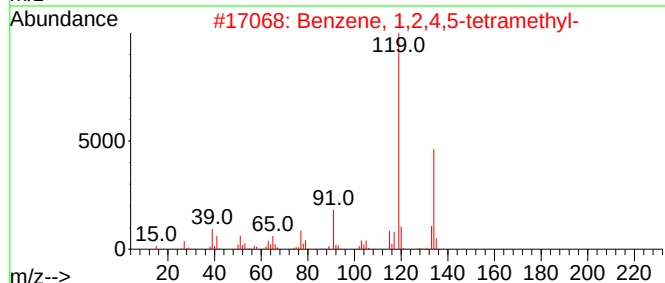
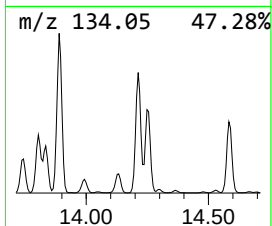
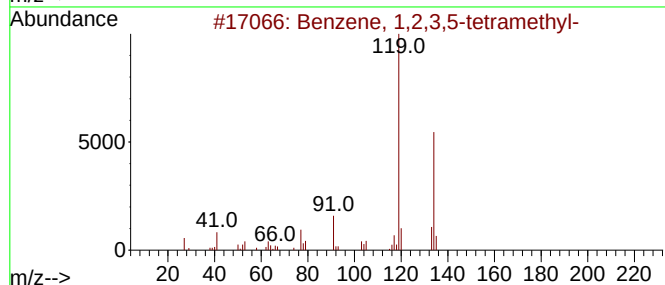
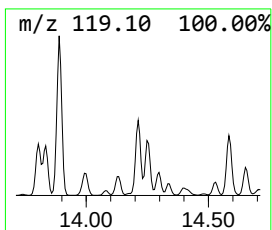
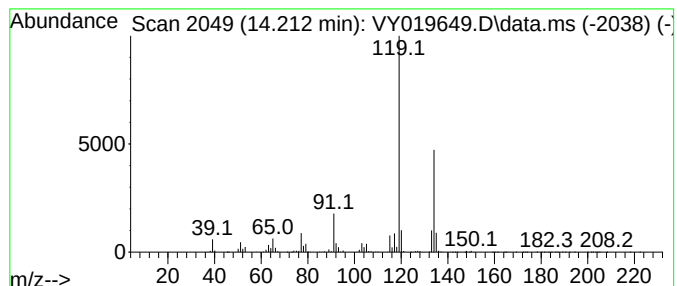
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 3

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.212 | 596.98 ug/l | 7731070 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3,5-tetramethyl-       | 134 | C10H14  | 000527-53-7 | 97   |
| 2    |    |   | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 97   |
| 3    |    |   | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 95   |
| 4    |    |   | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 94   |
| 5    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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

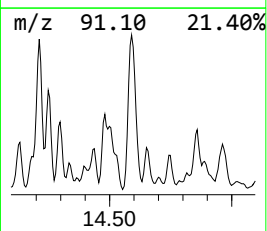
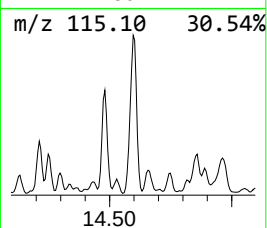
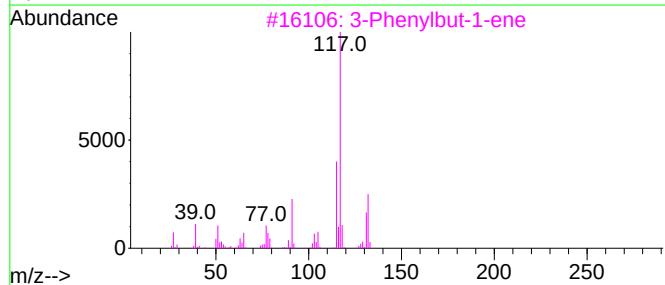
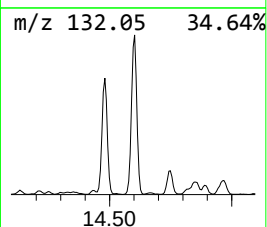
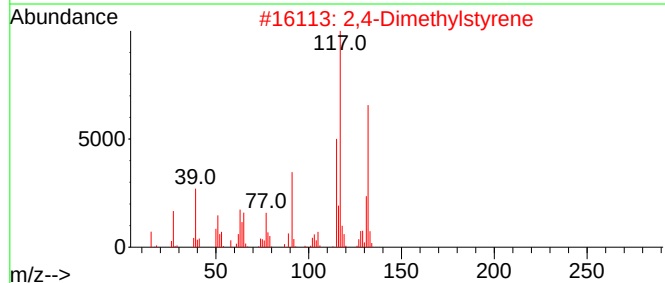
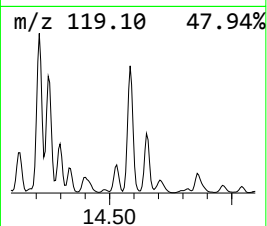
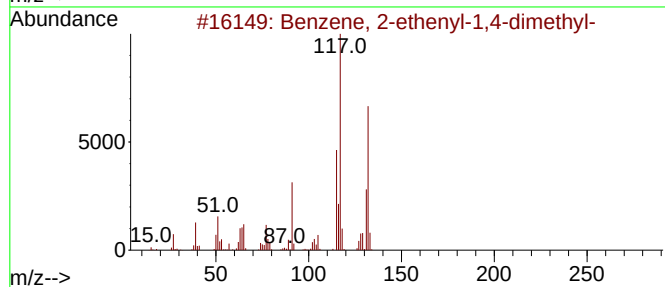
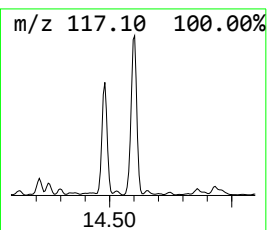
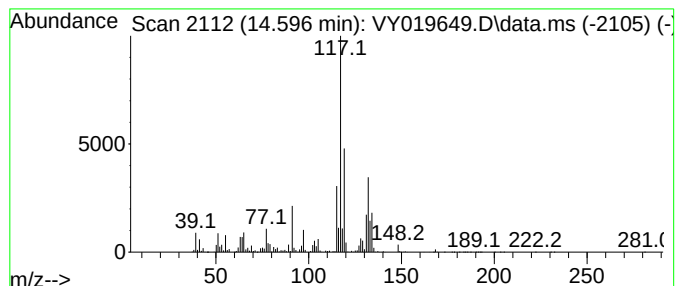
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 1

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.596 | 613.72 ug/l | 7947920 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 90   |
| 2    |    |   | 2,4-Dimethylstyrene              | 132 | C10H12  | 002234-20-0 | 90   |
| 3    |    |   | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 70   |
| 4    |    |   | Benzene, 2-butenyl-              | 132 | C10H12  | 001560-06-1 | 70   |
| 5    |    |   | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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

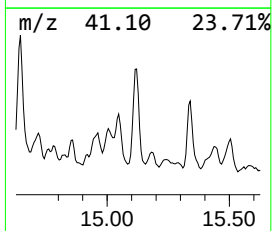
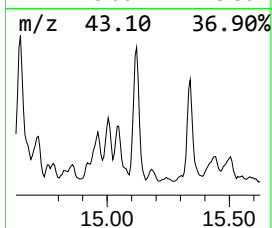
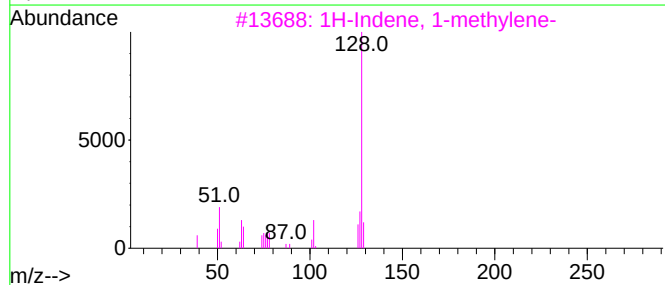
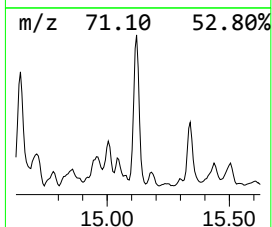
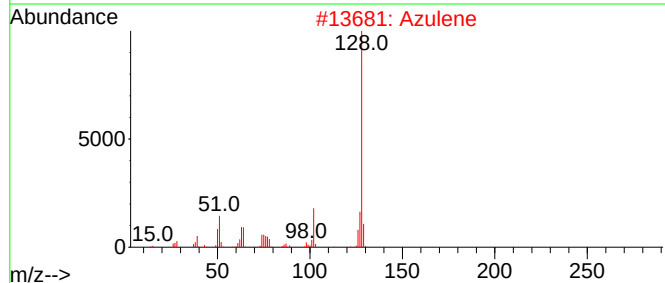
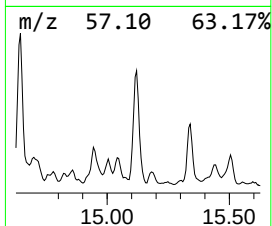
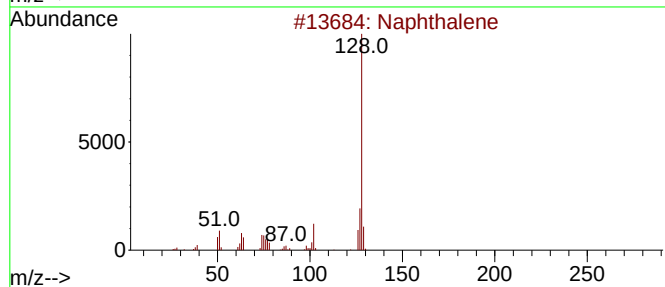
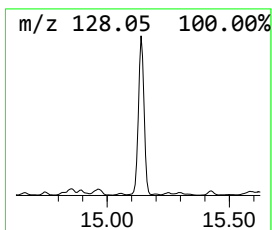
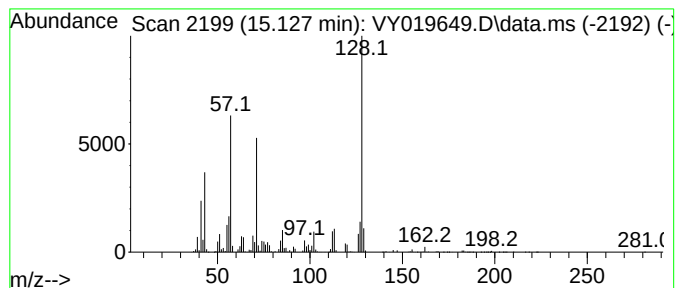
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Azulene Concentration Rank 6

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 15.127 | 342.71 ug/l | 4438270 | 1,4-Dichlorobenzene-d4 | 13.347 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------|--------------|------|
| 1    |      | Naphthalene                         | 128 | C10H8     | 000091-20-3  | 92   |
| 2    |      | Azulene                             | 128 | C10H8     | 000275-51-4  | 60   |
| 3    |      | 1H-Indene, 1-methylene-             | 128 | C10H8     | 002471-84-3  | 55   |
| 4    |      | 4a,8a-(Methaniminomethano)naphth... | 275 | C18H13NO2 | 069915-10-2  | 47   |
| 5    |      | 4-Phenylbut-3-ene-1-yne             | 128 | C10H8     | 1000222-12-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092024\  
Data File : VY019649.D  
Acq On : 20 Sep 2024 16:33  
Operator : SY/MD  
Sample : P4103-16  
Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-23

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

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Butane, 2,2,3,3... | 8.244  | 315.7   | ug/l  | 3264400  | 2                     | 8.610  | 516984 | 50.0 |
| Pentane, 2,3,4-... | 9.670  | 273.8   | ug/l  | 2830670  | 2                     | 8.610  | 516984 | 50.0 |
| Benzene, 1-ethy... | 12.658 | 564.8   | ug/l  | 7314630  | 4                     | 13.347 | 647517 | 50.0 |
| Benzene, 1-ethy... | 12.889 | 294.2   | ug/l  | 3809990  | 4                     | 13.347 | 647517 | 50.0 |
| Benzene, 2-prop... | 13.542 | 526.8   | ug/l  | 6821970  | 4                     | 13.347 | 647517 | 50.0 |
| Benzene, 2-ethy... | 13.889 | 613.6   | ug/l  | 7946120  | 4                     | 13.347 | 647517 | 50.0 |
| Benzene, 2-bute... | 13.993 | 296.7   | ug/l  | 3842170  | 4                     | 13.347 | 647517 | 50.0 |
| Benzene, 1,2,3,... | 14.212 | 597.0   | ug/l  | 7731070  | 4                     | 13.347 | 647517 | 50.0 |
| Benzene, 2-ethe... | 14.596 | 613.7   | ug/l  | 7947920  | 4                     | 13.347 | 647517 | 50.0 |
| Azulene            | 15.127 | 342.7   | ug/l  | 4438270  | 4                     | 13.347 | 647517 | 50.0 |