

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
 Data File : VW021550.D  
 Acq On : 22 Dec 2021 02:17  
 Operator : SY/VA  
 Sample : M5194-17  
 Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BGLC9

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % 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\_W\Method\SFAMWLM120921SMA.M  
 Title : SFAM01.0

Signal : TIC: VW021550.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         | 2.355       | 65            | 74          | 83           | rVB      | 25588          | 41333         | 0.19%           | 0.082%        |
| 2         | 2.495       | 93            | 97          | 104          | rBV2     | 2176           | 4005          | 0.02%           | 0.008%        |
| 3         | 2.892       | 154           | 162         | 172          | rBV      | 16040          | 33109         | 0.15%           | 0.066%        |
| 4         | 4.019       | 337           | 347         | 357          | rBV      | 36567          | 96312         | 0.44%           | 0.191%        |
| 5         | 4.129       | 359           | 365         | 375          | rVB2     | 1454           | 4166          | 0.02%           | 0.008%        |
| 6         | 4.385       | 400           | 407         | 414          | rVB3     | 584            | 1784          | 0.01%           | 0.004%        |
| 7         | 4.916       | 485           | 494         | 506          | rBV2     | 6677           | 20933         | 0.10%           | 0.041%        |
| 8         | 5.787       | 632           | 637         | 638          | rBV3     | 559            | 886           | 0.00%           | 0.002%        |
| 9         | 6.909       | 813           | 821         | 827          | rBB2     | 490            | 1183          | 0.01%           | 0.002%        |
| 10        | 7.080       | 839           | 849         | 857          | rVV      | 6679           | 18566         | 0.08%           | 0.037%        |
| 11        | 7.177       | 860           | 865         | 873          | rVV5     | 2294           | 5574          | 0.03%           | 0.011%        |
| 12        | 7.647       | 932           | 942         | 957          | rBB      | 55364          | 136345        | 0.62%           | 0.270%        |
| 13        | 8.281       | 1036          | 1046        | 1063         | rBV3     | 105801         | 362073        | 1.65%           | 0.717%        |
| 14        | 8.689       | 1110          | 1113        | 1120         | rBV3     | 709            | 1332          | 0.01%           | 0.003%        |
| 15        | 8.842       | 1130          | 1138        | 1147         | rBV      | 105593         | 204105        | 0.93%           | 0.404%        |
| 16        | 9.275       | 1201          | 1209        | 1217         | rVV      | 72240          | 146827        | 0.67%           | 0.291%        |
| 17        | 9.336       | 1217          | 1219        | 1226         | rVV5     | 1226           | 2149          | 0.01%           | 0.004%        |
| 18        | 9.409       | 1230          | 1231        | 1238         | rVB3     | 640            | 897           | 0.00%           | 0.002%        |
| 19        | 9.756       | 1285          | 1288        | 1293         | rBB2     | 558            | 883           | 0.00%           | 0.002%        |
| 20        | 9.890       | 1304          | 1310        | 1318         | rBV2     | 1603           | 3172          | 0.01%           | 0.006%        |
| 21        | 9.957       | 1318          | 1321        | 1324         | rVV      | 890            | 1150          | 0.01%           | 0.002%        |
| 22        | 10.037      | 1327          | 1334        | 1340         | rVV      | 38668          | 69269         | 0.31%           | 0.137%        |
| 23        | 10.098      | 1340          | 1344        | 1350         | rVB3     | 1127           | 2251          | 0.01%           | 0.004%        |
| 24        | 10.250      | 1365          | 1369        | 1373         | rVB3     | 819            | 1216          | 0.01%           | 0.002%        |
| 25        | 10.323      | 1373          | 1381        | 1387         | rBV      | 165574         | 292565        | 1.33%           | 0.579%        |
| 26        | 10.390      | 1387          | 1392        | 1403         | rVV      | 42763          | 77354         | 0.35%           | 0.153%        |
| 27        | 10.506      | 1403          | 1411        | 1416         | rVB2     | 4009           | 6465          | 0.03%           | 0.013%        |
| 28        | 10.579      | 1416          | 1423        | 1430         | rBV      | 23479          | 39534         | 0.18%           | 0.078%        |
| 29        | 10.665      | 1430          | 1437        | 1439         | rVV3     | 1346           | 2062          | 0.01%           | 0.004%        |
| 30        | 10.701      | 1440          | 1443        | 1448         | rVV2     | 2008           | 3329          | 0.02%           | 0.007%        |
| 31        | 10.762      | 1448          | 1453        | 1458         | rVB2     | 848            | 1407          | 0.01%           | 0.003%        |
| 32        | 10.866      | 1465          | 1470        | 1474         | rVB2     | 1574           | 2360          | 0.01%           | 0.005%        |
| 33        | 10.927      | 1474          | 1480        | 1491         | rBV      | 26457          | 44614         | 0.20%           | 0.088%        |
| 34        | 11.036      | 1493          | 1498        | 1501         | rBV      | 773            | 1419          | 0.01%           | 0.003%        |
| 35        | 11.073      | 1501          | 1504        | 1507         | rVV3     | 1062           | 1692          | 0.01%           | 0.003%        |
| 36        | 11.110      | 1507          | 1510        | 1513         | rVV3     | 980            | 1357          | 0.01%           | 0.003%        |

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Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 37 | 11.140 | 1513 | 1515 | 1517 | rVV2 | 670      | 788      | 0.00%   | 0.002%  |
| 38 | 11.177 | 1517 | 1521 | 1526 | rVV2 | 4920     | 8363     | 0.04%   | 0.017%  |
| 39 | 11.232 | 1526 | 1530 | 1536 | rVV2 | 4200     | 7165     | 0.03%   | 0.014%  |
| 40 | 11.280 | 1536 | 1538 | 1542 | rVB2 | 877      | 1166     | 0.01%   | 0.002%  |
| 41 | 11.335 | 1542 | 1547 | 1552 | rBV5 | 1898     | 3258     | 0.01%   | 0.006%  |
| 42 | 11.427 | 1552 | 1562 | 1569 | rVV5 | 2870     | 9392     | 0.04%   | 0.019%  |
| 43 | 11.512 | 1571 | 1576 | 1581 | rVB3 | 2919     | 4399     | 0.02%   | 0.009%  |
| 44 | 11.634 | 1588 | 1596 | 1604 | rBV  | 158442   | 268569   | 1.22%   | 0.532%  |
| 45 | 11.731 | 1604 | 1612 | 1621 | rBV  | 5262839  | 8163856  | 37.10%  | 16.168% |
| 46 | 11.835 | 1621 | 1629 | 1640 | rBV  | 12155314 | 22006423 | 100.00% | 43.582% |
| 47 | 11.975 | 1649 | 1652 | 1658 | rVB5 | 722      | 1304     | 0.01%   | 0.003%  |
| 48 | 12.042 | 1658 | 1663 | 1671 | rVB5 | 1880     | 3211     | 0.01%   | 0.006%  |
| 49 | 12.164 | 1672 | 1683 | 1701 | rBV  | 3778591  | 6027501  | 27.39%  | 11.937% |
| 50 | 12.305 | 1701 | 1706 | 1708 | rBV5 | 4138     | 6656     | 0.03%   | 0.013%  |
| 51 | 12.341 | 1708 | 1712 | 1715 | rVV2 | 8881     | 15844    | 0.07%   | 0.031%  |
| 52 | 12.384 | 1715 | 1719 | 1723 | rVV2 | 12068    | 20874    | 0.09%   | 0.041%  |
| 53 | 12.463 | 1727 | 1732 | 1738 | rVB  | 43146    | 70231    | 0.32%   | 0.139%  |
| 54 | 12.567 | 1745 | 1749 | 1751 | rVB3 | 1212     | 1525     | 0.01%   | 0.003%  |
| 55 | 12.609 | 1751 | 1756 | 1762 | rVB4 | 5984     | 11333    | 0.05%   | 0.022%  |
| 56 | 12.695 | 1763 | 1770 | 1776 | rBV  | 54636    | 93374    | 0.42%   | 0.185%  |
| 57 | 12.804 | 1776 | 1788 | 1792 | rBV  | 75656    | 136058   | 0.62%   | 0.269%  |
| 58 | 12.865 | 1792 | 1798 | 1801 | rBV  | 305476   | 466115   | 2.12%   | 0.923%  |
| 59 | 12.945 | 1806 | 1811 | 1817 | rVB  | 272523   | 432524   | 1.97%   | 0.857%  |
| 60 | 13.103 | 1829 | 1837 | 1845 | rBV  | 164356   | 255639   | 1.16%   | 0.506%  |
| 61 | 13.201 | 1845 | 1853 | 1855 | rBV5 | 7385     | 16457    | 0.07%   | 0.033%  |
| 62 | 13.249 | 1855 | 1861 | 1867 | rBV  | 869390   | 1335100  | 6.07%   | 2.644%  |
| 63 | 13.298 | 1867 | 1869 | 1874 | rVB  | 12500    | 15160    | 0.07%   | 0.030%  |
| 64 | 13.377 | 1875 | 1882 | 1887 | rBV3 | 19436    | 46178    | 0.21%   | 0.091%  |
| 65 | 13.438 | 1887 | 1892 | 1896 | rBV  | 44796    | 70431    | 0.32%   | 0.139%  |
| 66 | 13.585 | 1906 | 1916 | 1925 | rBV2 | 387287   | 898042   | 4.08%   | 1.779%  |
| 67 | 13.719 | 1932 | 1938 | 1939 | rBV  | 34379    | 47107    | 0.21%   | 0.093%  |
| 68 | 13.755 | 1939 | 1944 | 1948 | rBV2 | 253501   | 442936   | 2.01%   | 0.877%  |
| 69 | 13.853 | 1955 | 1960 | 1968 | rVB  | 149611   | 280140   | 1.27%   | 0.555%  |
| 70 | 13.938 | 1968 | 1974 | 1980 | rVB2 | 309953   | 512880   | 2.33%   | 1.016%  |
| 71 | 14.005 | 1980 | 1985 | 1988 | rBV  | 66709    | 108028   | 0.49%   | 0.214%  |
| 72 | 14.036 | 1988 | 1990 | 1995 | rVV  | 74699    | 96539    | 0.44%   | 0.191%  |
| 73 | 14.091 | 1995 | 1999 | 2005 | rVB  | 97542    | 147767   | 0.67%   | 0.293%  |
| 74 | 14.158 | 2005 | 2010 | 2012 | rBV  | 17974    | 26930    | 0.12%   | 0.053%  |
| 75 | 14.201 | 2012 | 2017 | 2023 | rVB2 | 69642    | 114927   | 0.52%   | 0.228%  |
| 76 | 14.335 | 2033 | 2039 | 2044 | rVB2 | 40182    | 60917    | 0.28%   | 0.121%  |

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 MSVOA\_W  
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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

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Peak Location: TOP

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Peak separation: 5

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 Title : SFAM01.0

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 14.414 | 2044 | 2052 | 2055 | rBV2 | 92672   | 186660  | 0.85%  | 0.370% |
| 78  | 14.457 | 2055 | 2059 | 2062 | rBV  | 77519   | 109657  | 0.50%  | 0.217% |
| 79  | 14.639 | 2086 | 2089 | 2092 | rVB  | 9521    | 11709   | 0.05%  | 0.023% |
| 80  | 14.688 | 2092 | 2097 | 2101 | rBV2 | 52201   | 86220   | 0.39%  | 0.171% |
| 81  | 14.798 | 2108 | 2115 | 2121 | rBV2 | 87384   | 213469  | 0.97%  | 0.423% |
| 82  | 14.865 | 2121 | 2126 | 2134 | rVB3 | 27046   | 51356   | 0.23%  | 0.102% |
| 83  | 14.956 | 2134 | 2141 | 2147 | rBV  | 45906   | 75991   | 0.35%  | 0.150% |
| 84  | 15.066 | 2153 | 2159 | 2170 | rVV2 | 13326   | 32273   | 0.15%  | 0.064% |
| 85  | 15.164 | 2170 | 2175 | 2183 | rVB3 | 8879    | 22185   | 0.10%  | 0.044% |
| 86  | 15.280 | 2188 | 2194 | 2195 | rBV3 | 1206    | 1881    | 0.01%  | 0.004% |
| 87  | 15.365 | 2200 | 2208 | 2216 | rVV  | 1132147 | 1961182 | 8.91%  | 3.884% |
| 88  | 15.462 | 2216 | 2224 | 2230 | rVV  | 26585   | 55747   | 0.25%  | 0.110% |
| 89  | 15.523 | 2231 | 2234 | 2240 | rVB5 | 2986    | 4606    | 0.02%  | 0.009% |
| 90  | 15.651 | 2248 | 2255 | 2261 | rBV  | 9763    | 18432   | 0.08%  | 0.037% |
| 91  | 15.731 | 2264 | 2268 | 2274 | rVV6 | 2134    | 5156    | 0.02%  | 0.010% |
| 92  | 15.828 | 2276 | 2284 | 2297 | rVV3 | 10650   | 34407   | 0.16%  | 0.068% |
| 93  | 15.950 | 2297 | 2304 | 2310 | rVV6 | 6188    | 18492   | 0.08%  | 0.037% |
| 94  | 16.023 | 2312 | 2316 | 2322 | rVB3 | 8587    | 16688   | 0.08%  | 0.033% |
| 95  | 16.170 | 2333 | 2340 | 2350 | rBV6 | 2553    | 8147    | 0.04%  | 0.016% |
| 96  | 16.261 | 2350 | 2355 | 2363 | rVB4 | 2804    | 6313    | 0.03%  | 0.013% |
| 97  | 16.371 | 2363 | 2373 | 2376 | rBV2 | 16294   | 39927   | 0.18%  | 0.079% |
| 98  | 16.438 | 2376 | 2384 | 2398 | rVV  | 1340432 | 2815220 | 12.79% | 5.575% |
| 99  | 16.560 | 2398 | 2404 | 2409 | rVV  | 11083   | 25511   | 0.12%  | 0.051% |
| 100 | 16.639 | 2409 | 2417 | 2430 | rVB  | 368429  | 823835  | 3.74%  | 1.632% |

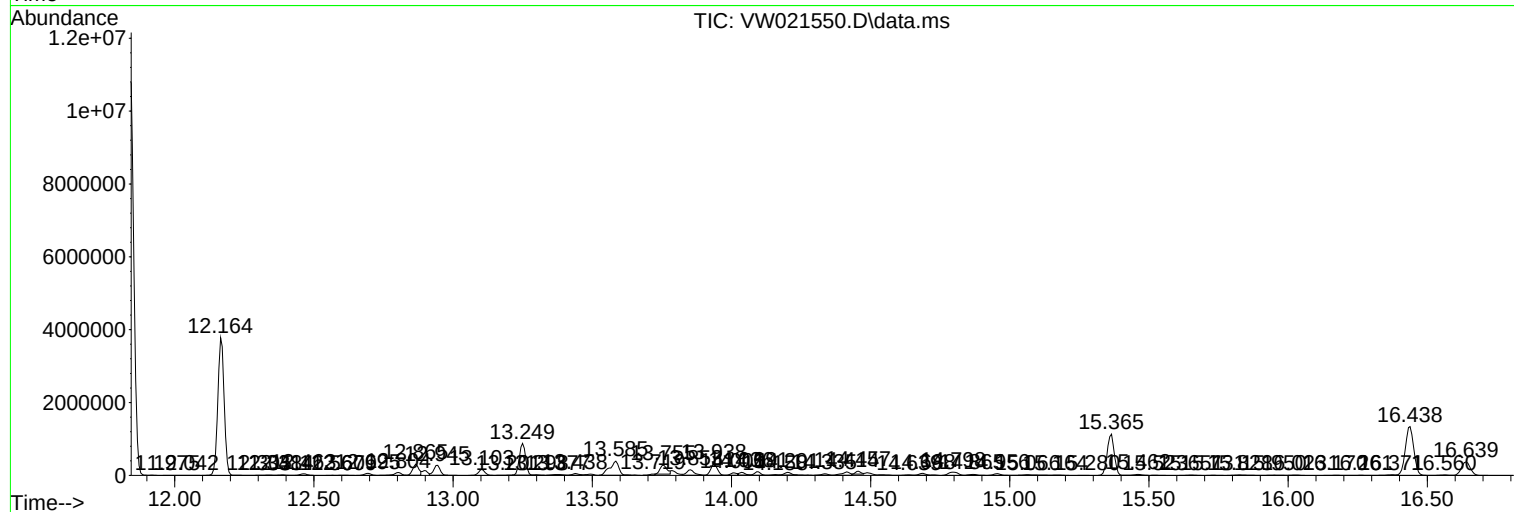
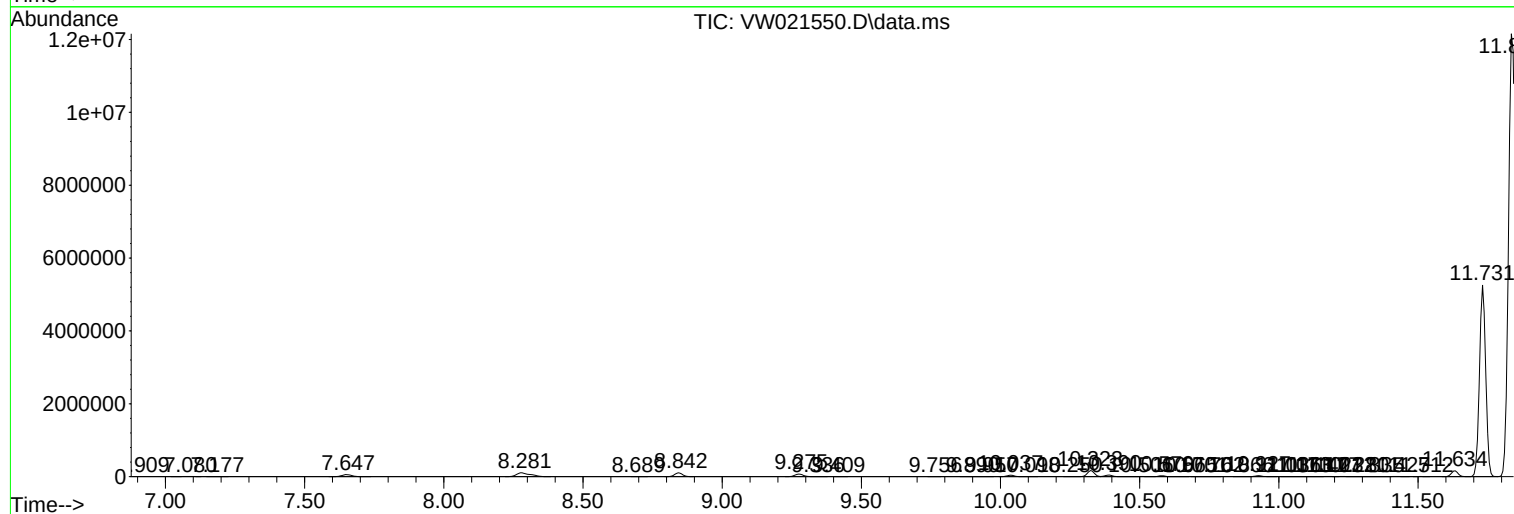
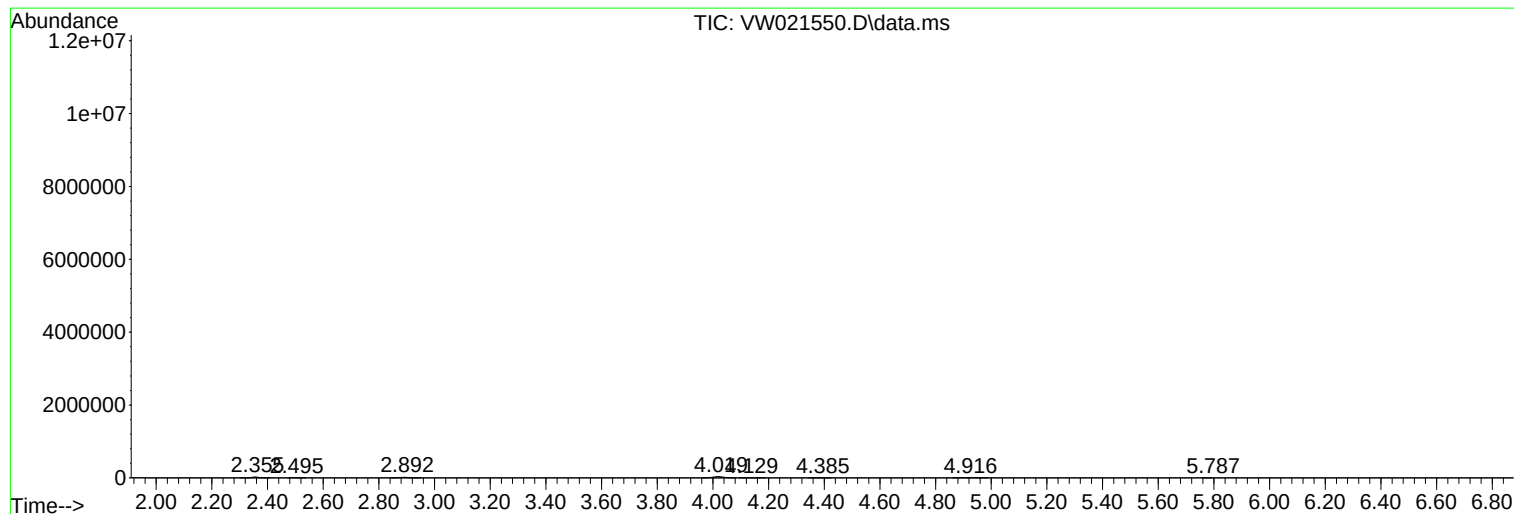
Sum of corrected areas: 50493849

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

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



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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
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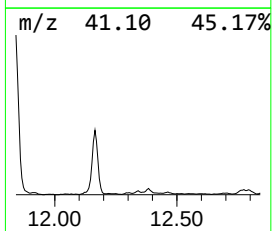
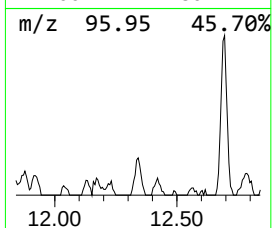
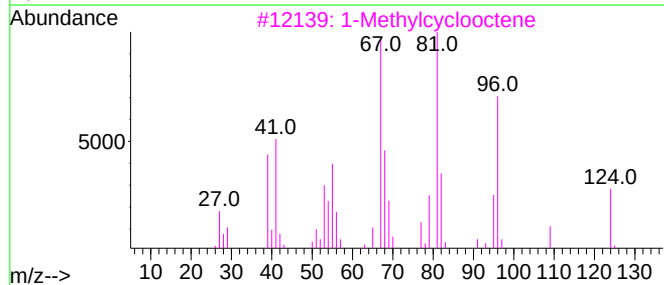
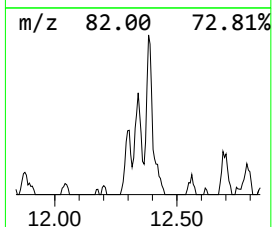
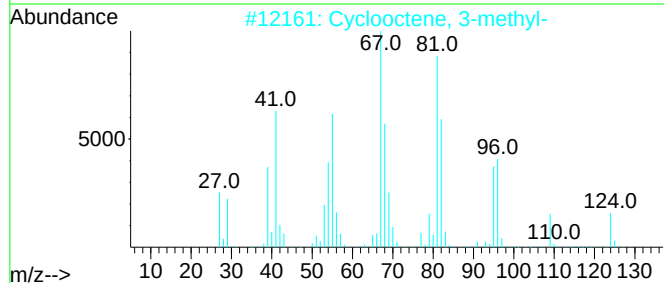
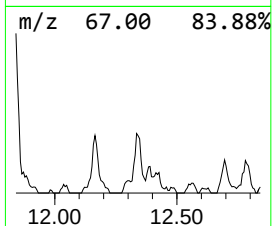
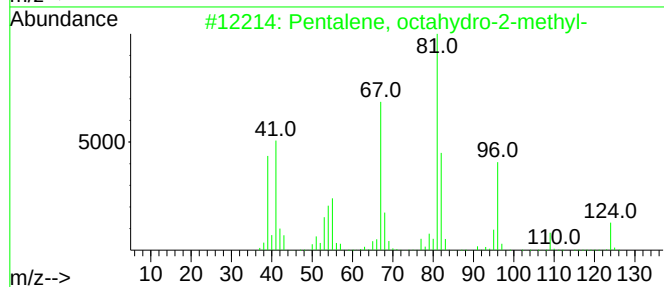
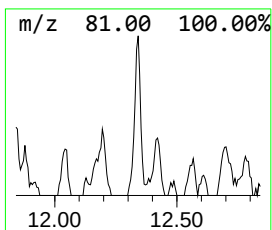
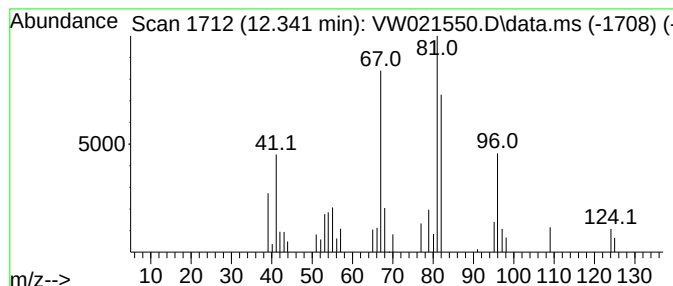
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Pentalene, octahydro-2-methyl- Concentration Rank 24

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.341 | 1.47 ug/L | 15844 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentalene, octahydro-2-methyl- | 124 | C9H16   | 003868-64-2 | 90   |
| 2    |    |   | Cyclooctene, 3-methyl-         | 124 | C9H16   | 013152-05-1 | 80   |
| 3    |    |   | 1-Methylcyclooctene            | 124 | C9H16   | 000933-11-9 | 74   |
| 4    |    |   | Cyclohexene,3-propyl-          | 124 | C9H16   | 003983-06-0 | 46   |
| 5    |    |   | 1H-Indene, octahydro-, trans-  | 124 | C9H16   | 003296-50-2 | 46   |



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Quant Title : SFAM01.0

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

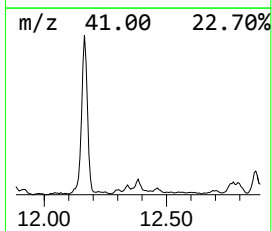
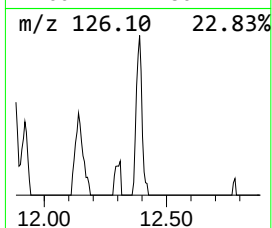
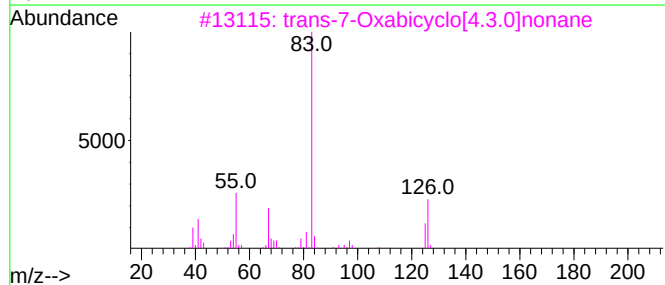
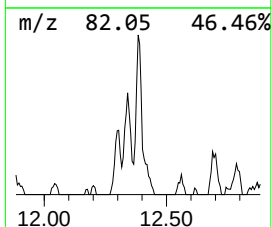
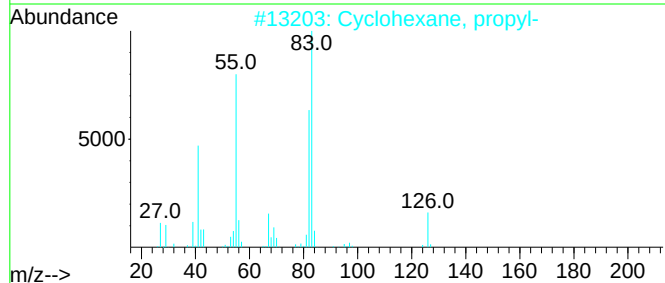
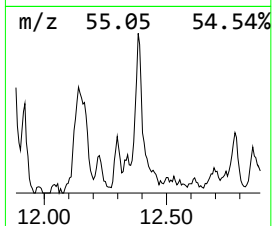
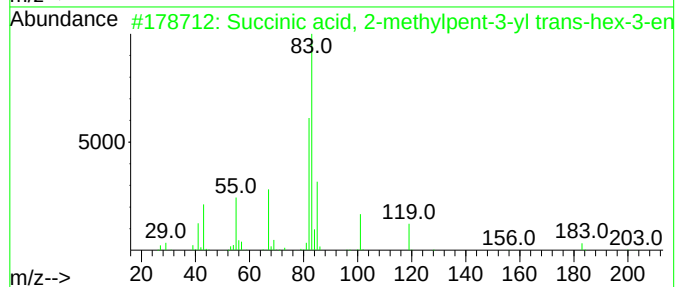
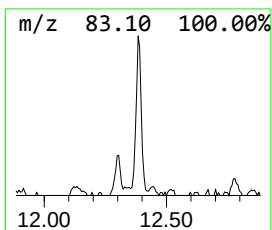
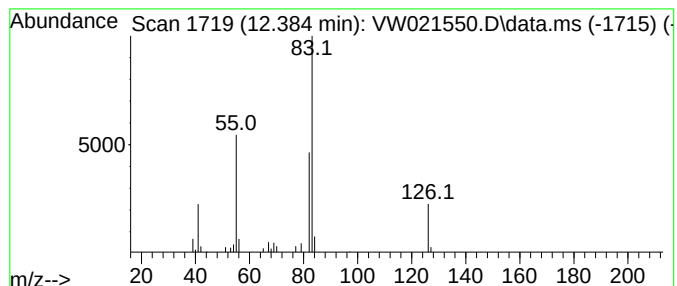
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Peak Number 4 Succinic acid, 2-methylpent... Concentration Rank 21

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.384 | 1.94 ug/L | 20874 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Succinic acid, 2-methylpent-3-yl... | 284 | C16H28O4 | 1000391-11-2 | 59   |
| 2    |    |   | Cyclohexane, propyl-                | 126 | C9H18    | 001678-92-8  | 53   |
| 3    |    |   | trans-7-Oxabicyclo[4.3.0]nonane     | 126 | C8H14O   | 027345-70-6  | 50   |
| 4    |    |   | Oxalic acid, cyclohexyl dodecyl ... | 340 | C20H36O4 | 1000309-31-4 | 50   |
| 5    |    |   | Oxalic acid, cyclohexyl isobutyl... | 228 | C12H20O4 | 1000309-30-4 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

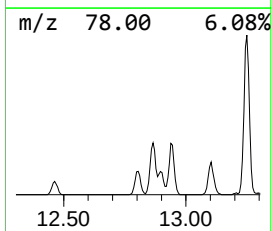
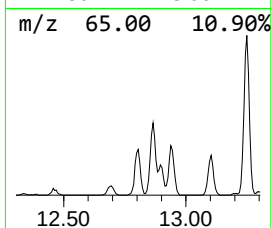
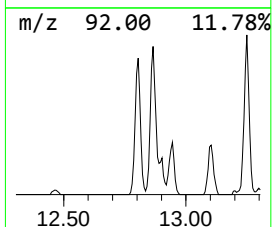
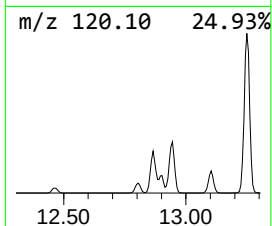
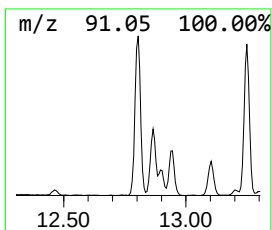
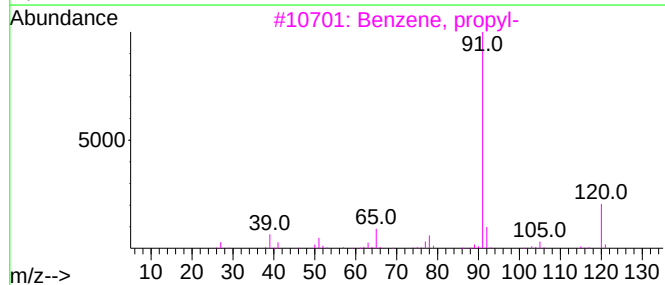
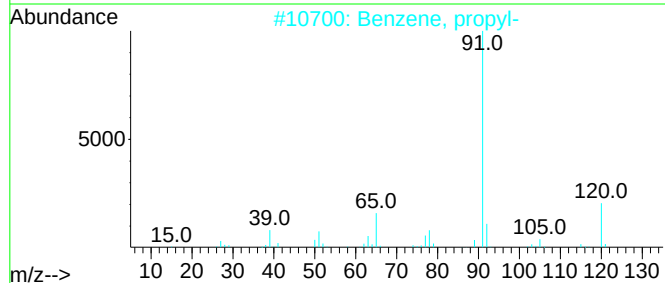
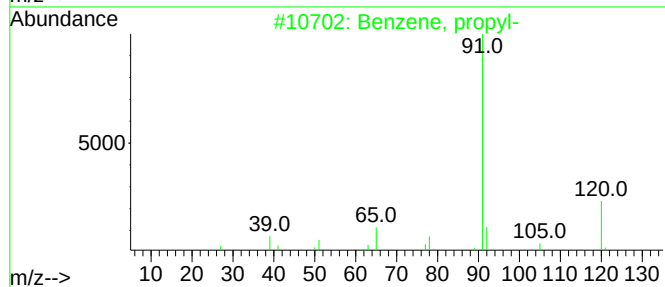
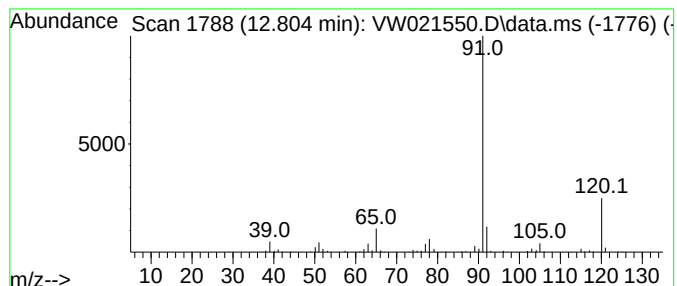
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Quant Title : SFAM01.0

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

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Peak Number 5 Benzene, propyl- Concentration Rank 12

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.804 | 3.79 ug/L | 136058 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, propyl-          | 120 | C9H12   | 000103-65-1 | 94   |
| 2    |    |   | Benzene, propyl-          | 120 | C9H12   | 000103-65-1 | 91   |
| 3    |    |   | Benzene, propyl-          | 120 | C9H12   | 000103-65-1 | 90   |
| 4    |    |   | Benzene, propyl-          | 120 | C9H12   | 000103-65-1 | 87   |
| 5    |    |   | N-Benzyl-2-phenethylamine | 211 | C15H17N | 003647-71-0 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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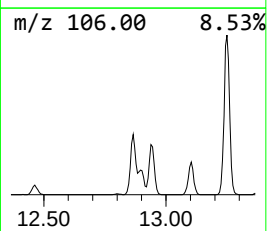
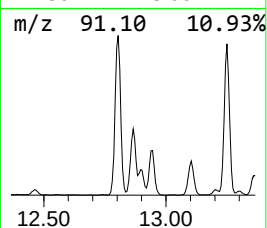
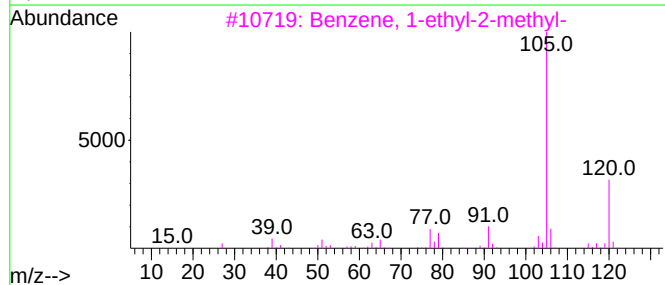
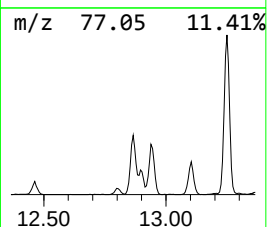
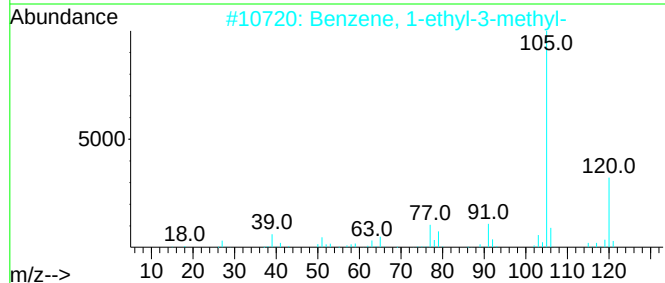
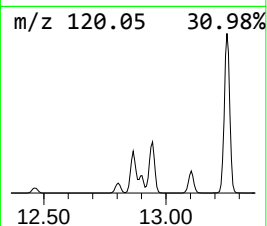
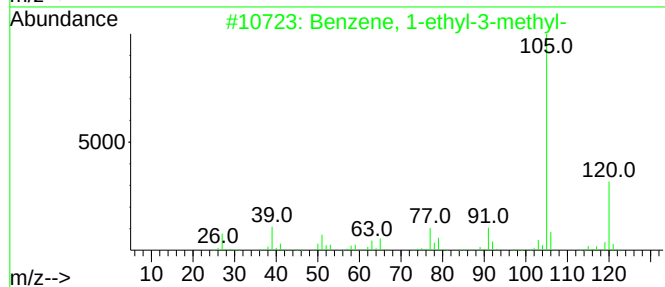
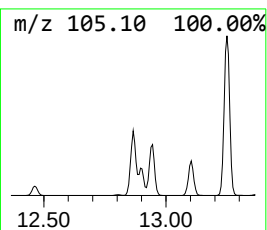
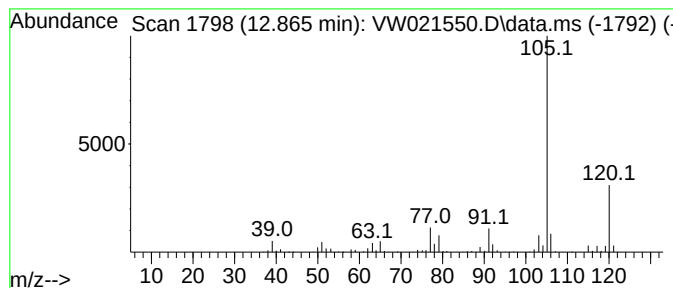
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Quant Title : SFAM01.0

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

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Peak Number 6 Benzene, 1-ethyl-3-methyl- Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.865 | 12.98 ug/L | 466115 | 1,4-Dichlorobenzene-d4 | 13.560 |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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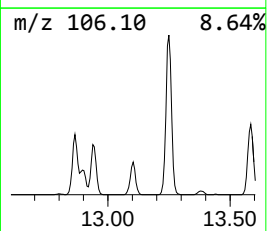
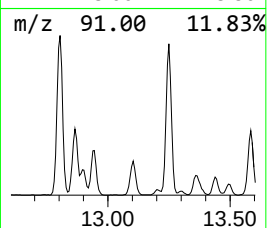
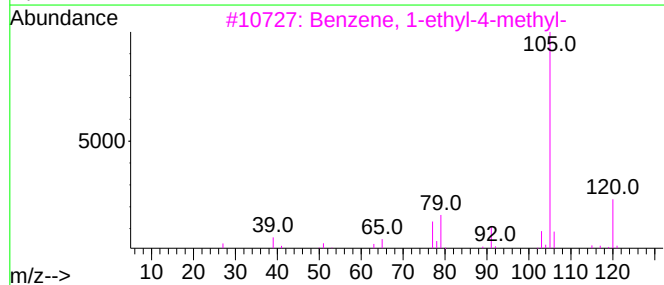
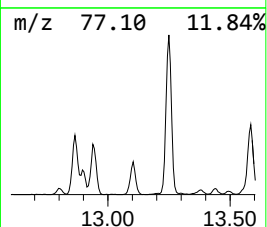
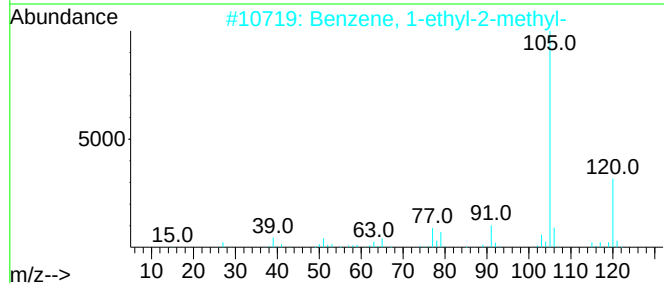
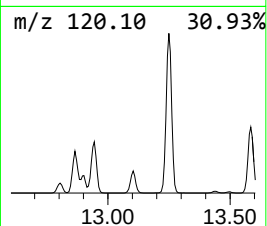
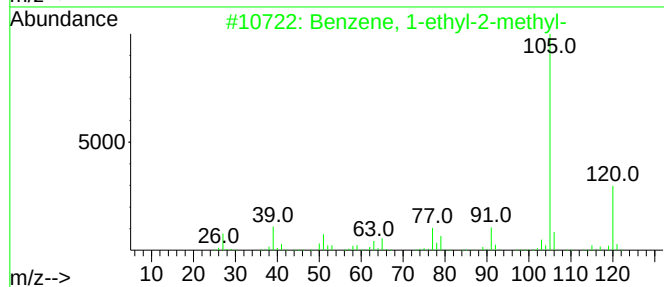
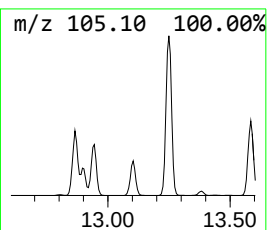
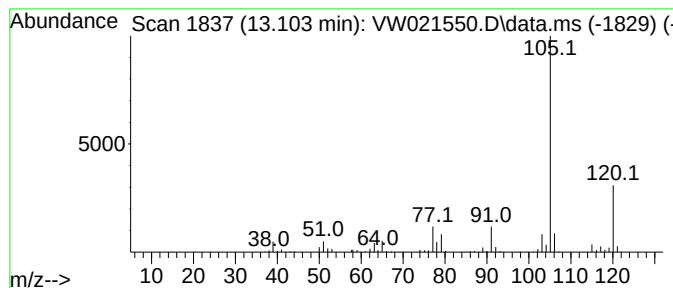
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Quant Title : SFAM01.0

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

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Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 8

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.103 | 7.12 ug/L | 255639 | 1,4-Dichlorobenzene-d4 | 13.560 |

| 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-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 3    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 94   |
| 4    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 93   |
| 5    |    |   | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

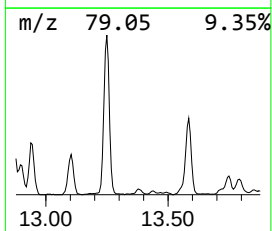
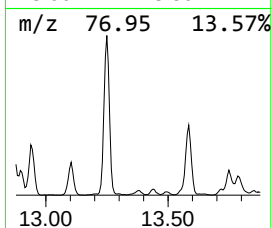
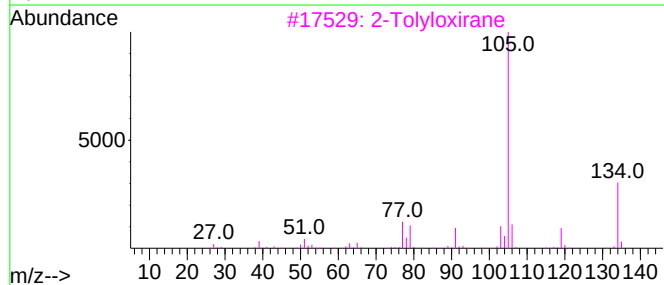
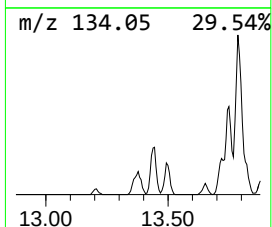
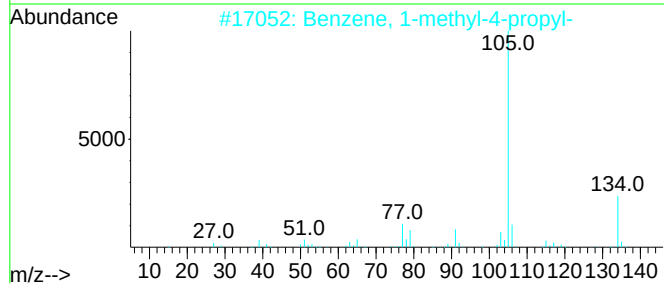
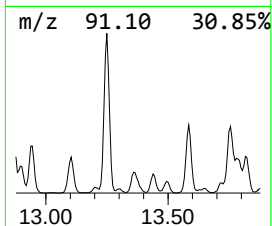
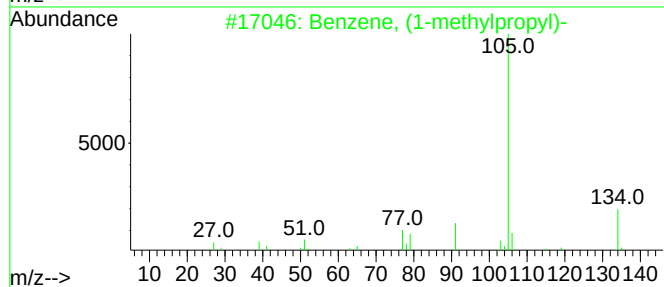
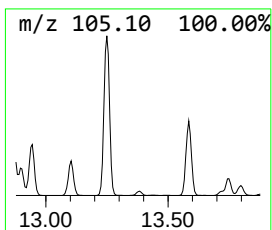
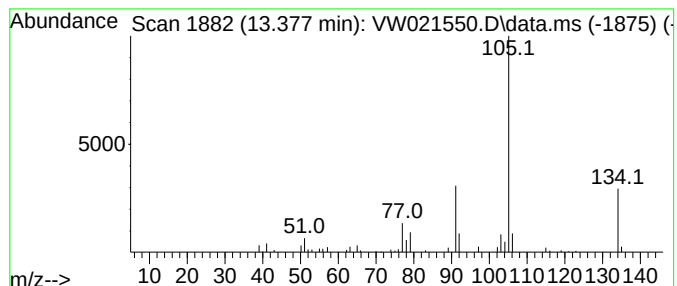
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Quant Title : SFAM01.0

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

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Peak Number 8 Benzene, (1-methylpropyl)- Concentration Rank 27

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.378 | 1.29 ug/L | 46178 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 90   |
| 2    |    |   | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |
| 3    |    |   | 2-Tolyloxirane              | 134 | C9H10O  | 002783-26-8 | 87   |
| 4    |    |   | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 87   |
| 5    |    |   | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 86   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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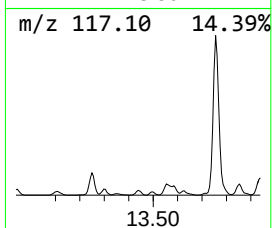
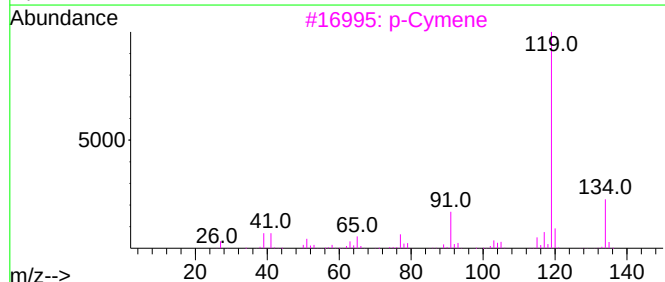
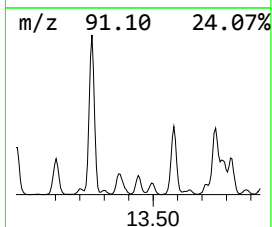
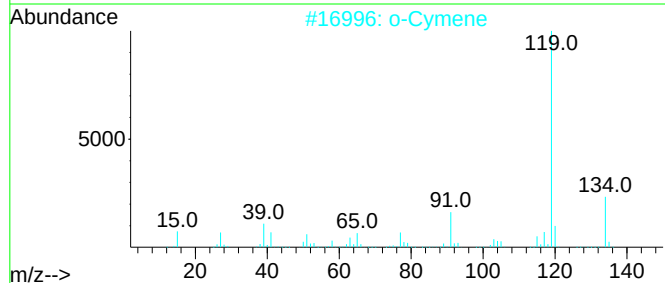
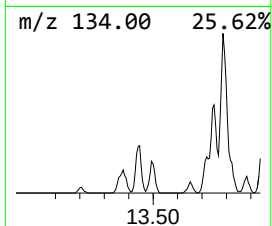
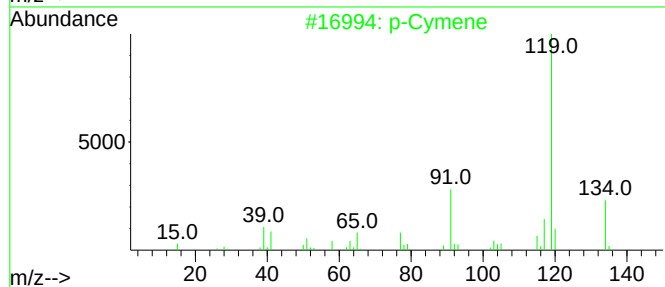
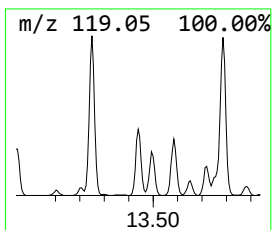
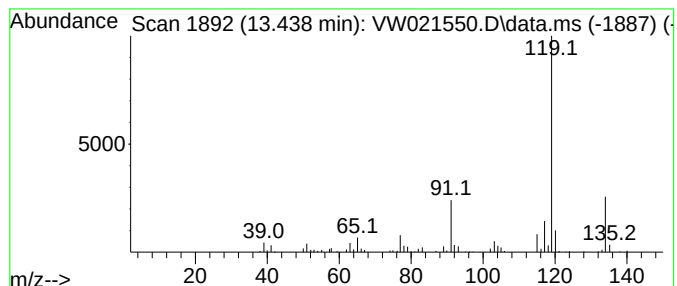
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Quant Title : SFAM01.0

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

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Peak Number 9 p-Cymene Concentration Rank 20

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.438 | 1.96 ug/L | 70431 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 97   |
| 2    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 97   |
| 3    |    |   | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 97   |
| 4    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 95   |
| 5    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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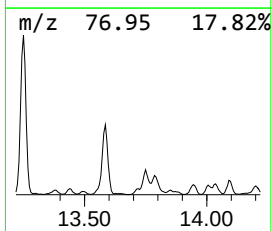
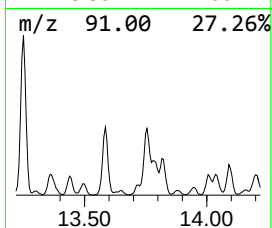
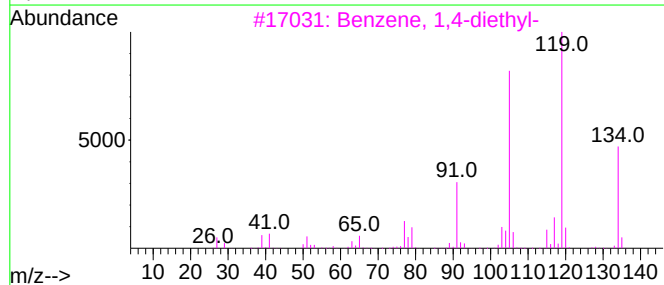
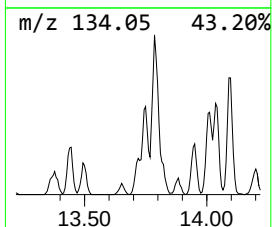
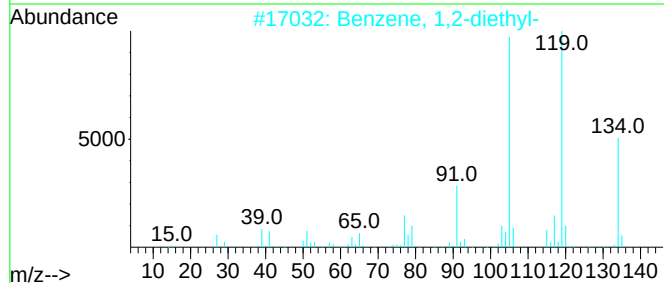
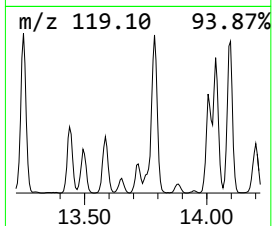
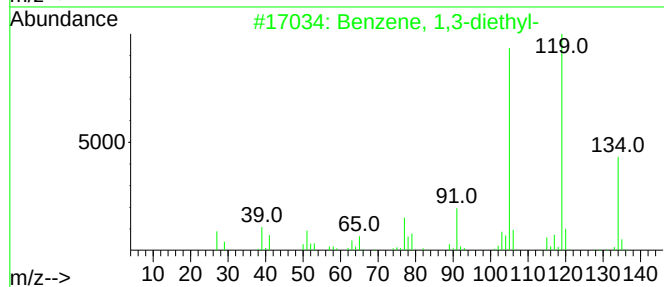
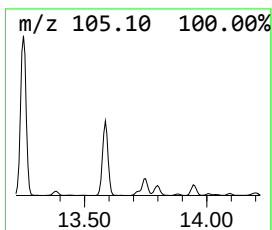
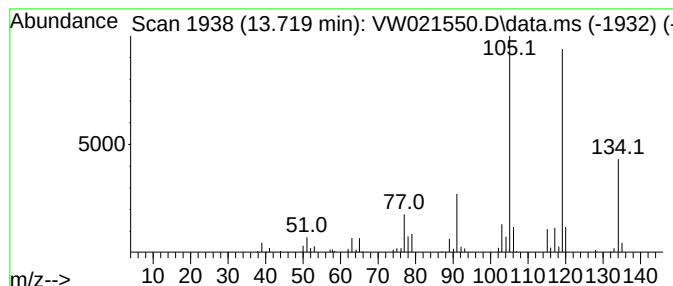
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Quant Title : SFAM01.0

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

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Peak Number 10 Benzene, 1,3-diethyl- Concentration Rank 26

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.719 | 1.31 ug/L | 47107 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 97   |
| 2    |    |   | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 97   |
| 3    |    |   | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 95   |
| 4    |    |   | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 95   |
| 5    |    |   | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

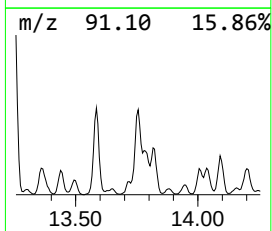
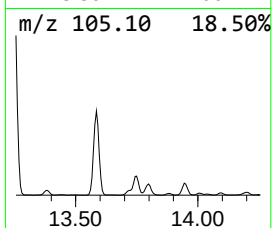
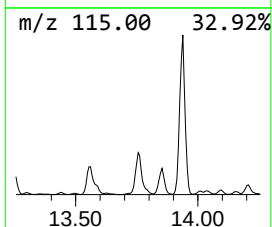
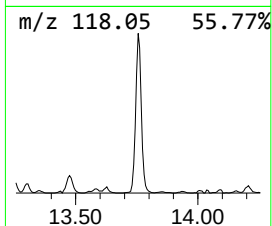
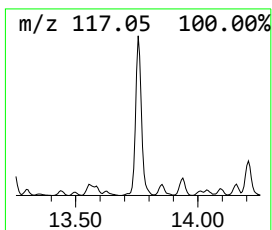
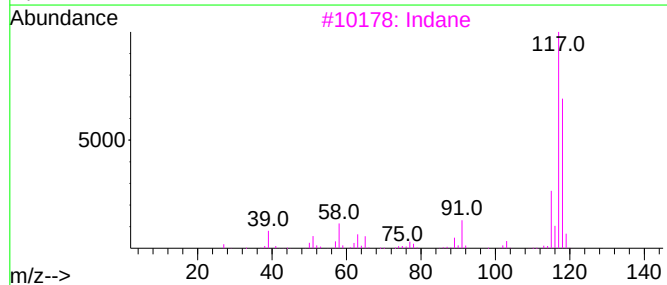
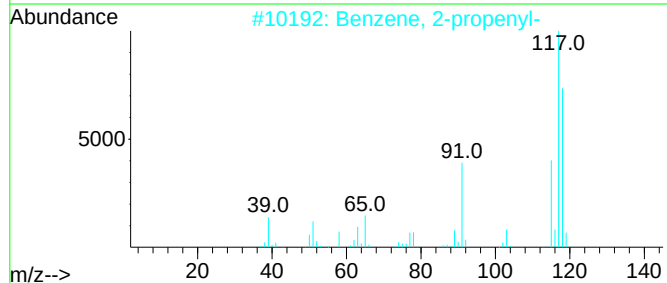
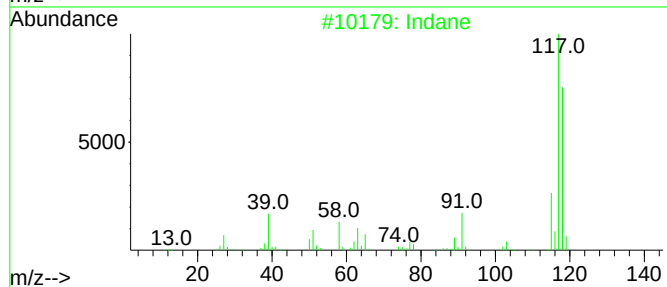
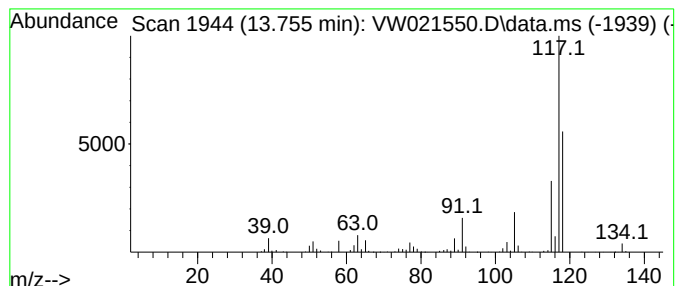
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Quant Title : SFAM01.0

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

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Peak Number 11 Indane Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.756 | 12.33 ug/L | 442936 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Indane                | 118 | C9H10   | 000496-11-7 | 81   |
| 2    |    |   | Benzene, 2-propenyl-  | 118 | C9H10   | 000300-57-2 | 74   |
| 3    |    |   | Indane                | 118 | C9H10   | 000496-11-7 | 74   |
| 4    |    |   | Indane                | 118 | C9H10   | 000496-11-7 | 68   |
| 5    |    |   | Benzene, cyclopropyl- | 118 | C9H10   | 000873-49-4 | 68   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

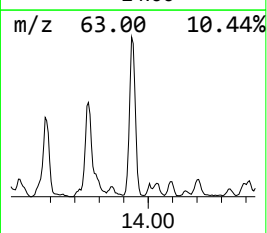
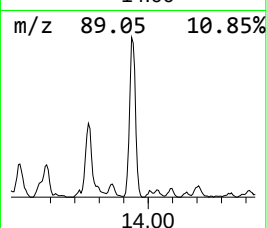
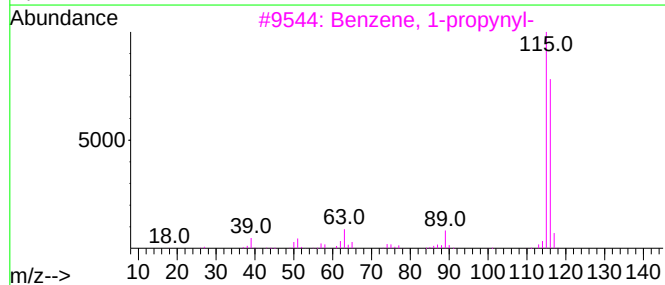
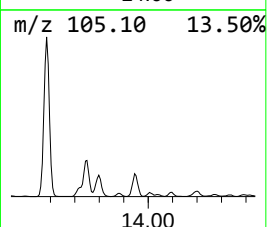
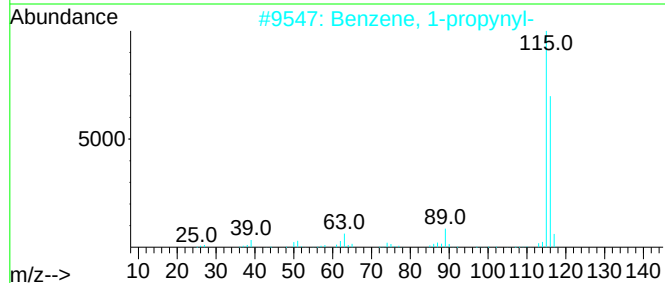
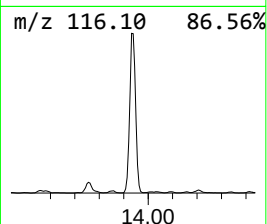
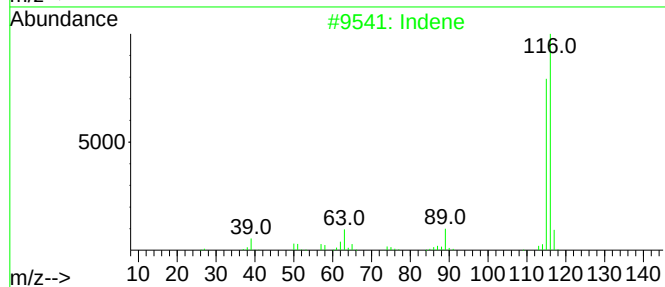
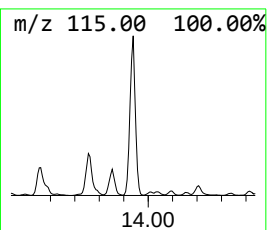
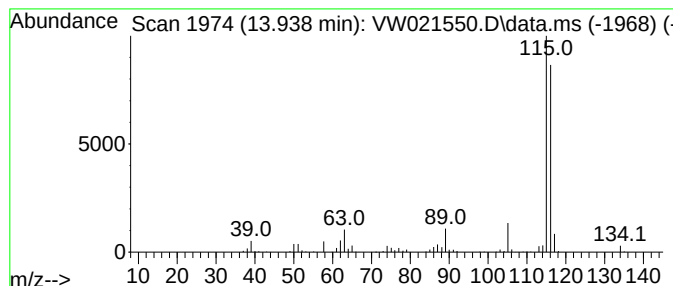
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 12 Indene Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.938 | 14.28 ug/L | 512880 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Indene                       | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    |   | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 94   |
| 3    |    |   | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 91   |
| 4    |    |   | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8    | 000766-97-2 | 90   |
| 5    |    |   | 3-Methylphenylacetylene      | 116 | C9H8    | 000766-82-5 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

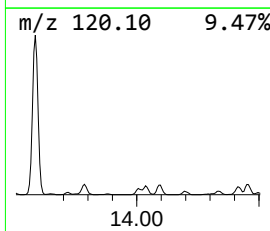
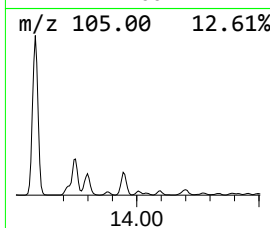
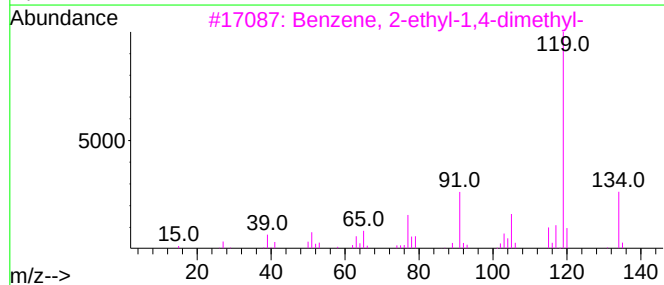
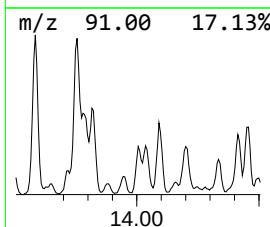
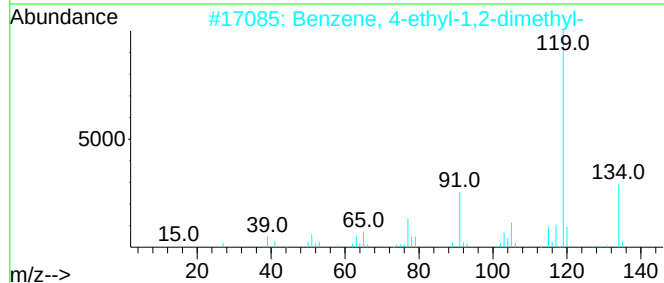
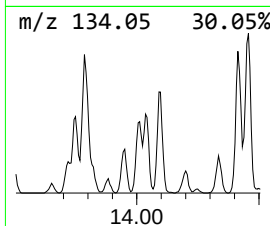
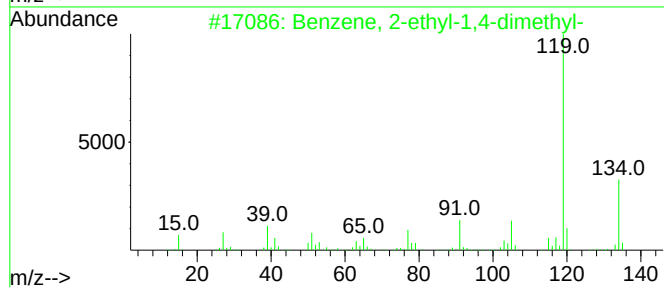
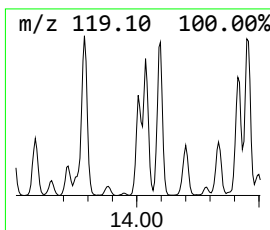
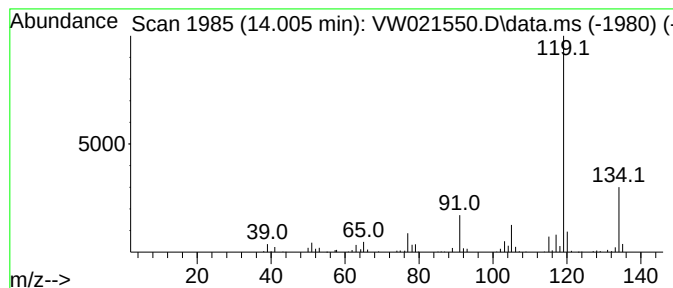
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 15

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.005 | 3.01 ug/L | 108028 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 2    |    |   | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 95   |
| 3    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 4    |    |   | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 5    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

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

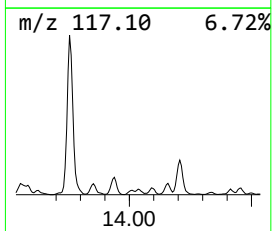
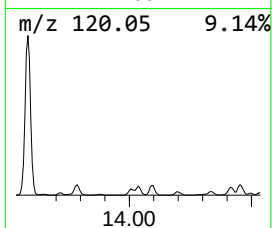
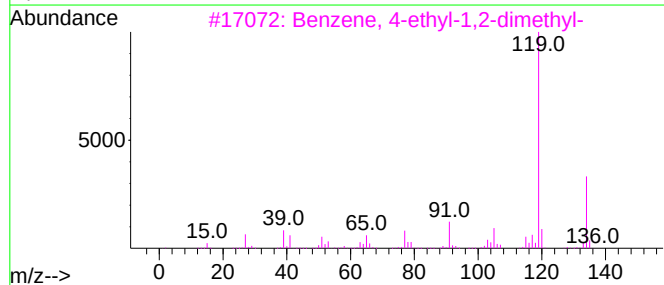
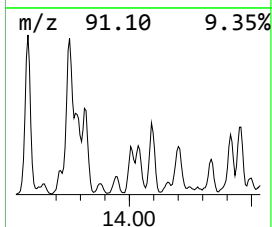
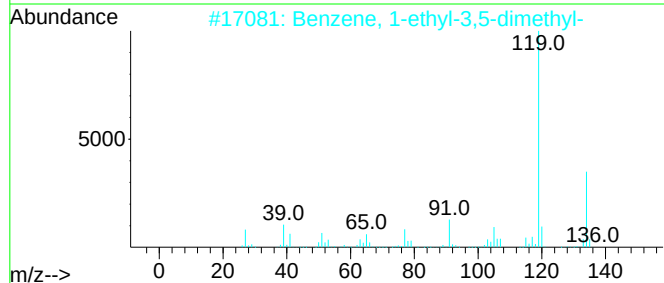
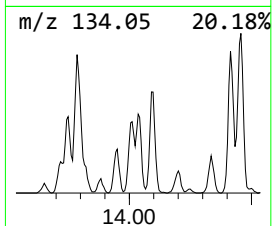
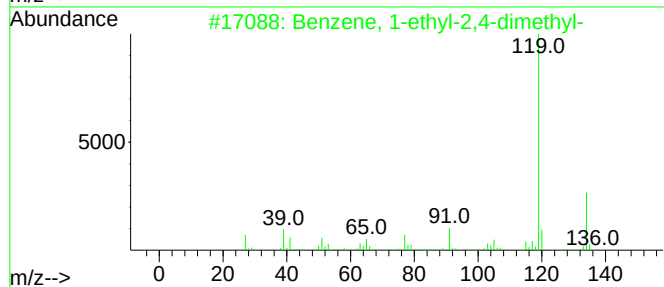
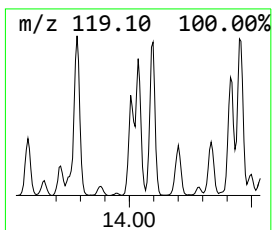
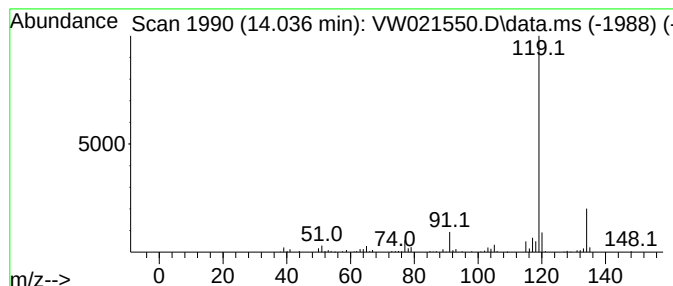
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Peak Number 14 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 16

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.036 | 2.69 ug/L | 96539 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 91   |
| 2    |      | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 90   |
| 3    |      | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 90   |
| 4    |      | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 90   |
| 5    |      | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 86   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

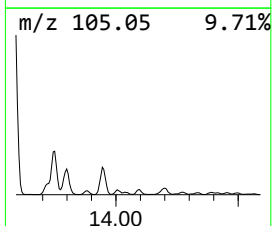
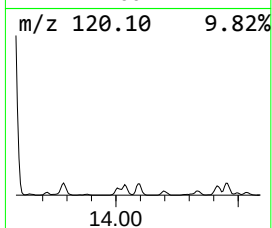
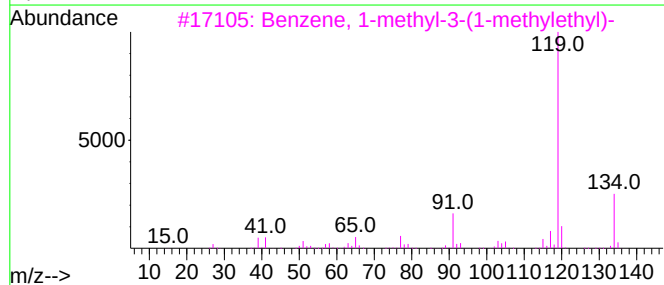
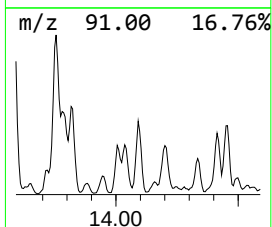
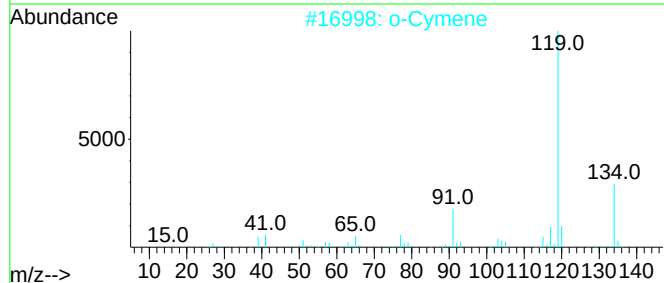
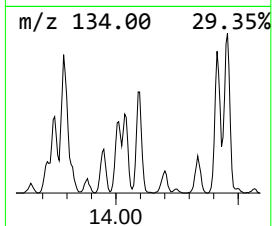
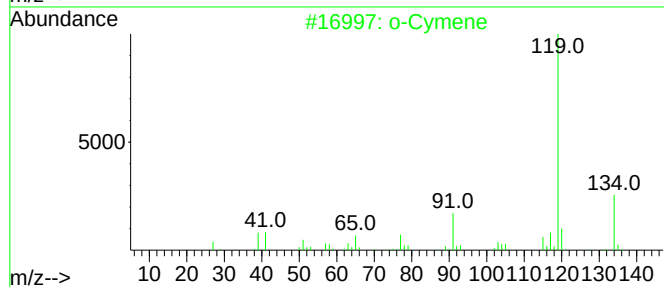
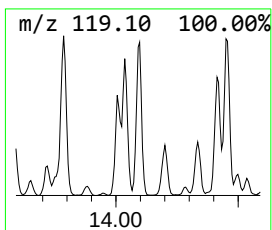
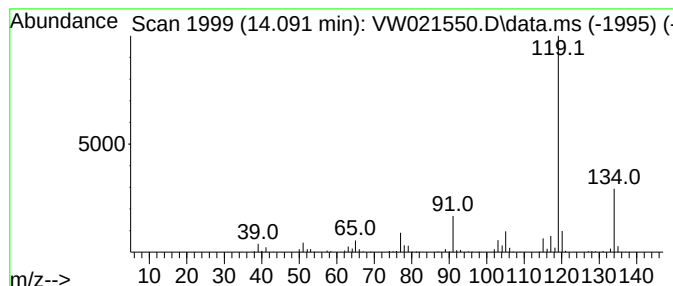
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 o-Cymene Concentration Rank 11

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.091 | 4.11 ug/L | 147767 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 94   |
| 2    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 94   |
| 3    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 94   |
| 4    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 94   |
| 5    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 93   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

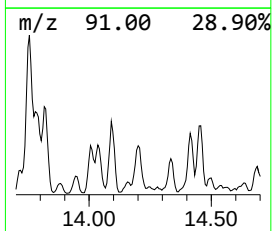
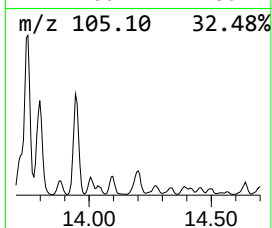
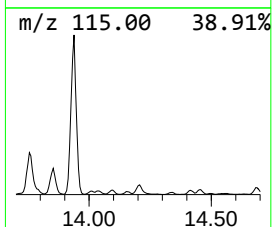
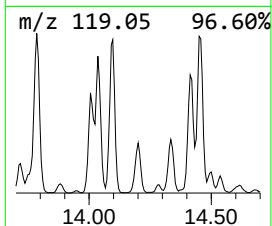
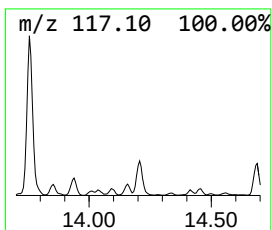
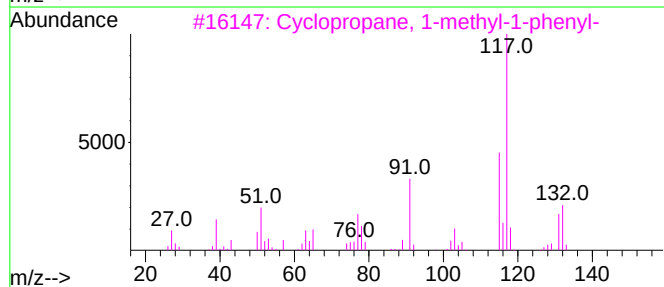
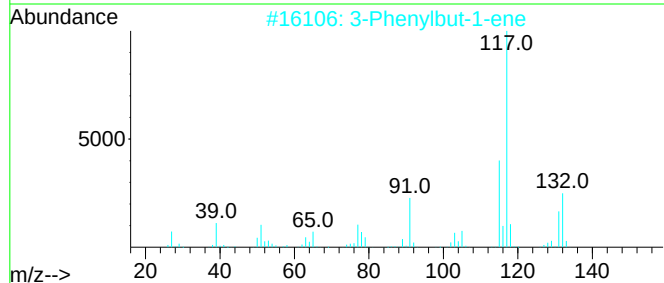
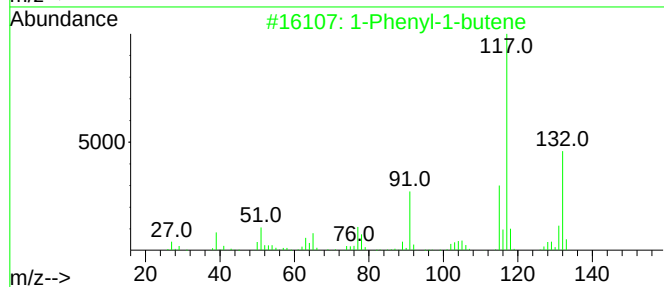
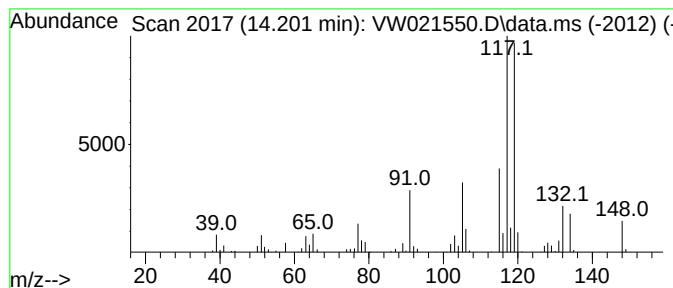
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Quant Title : SFAM01.0

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

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Peak Number 16 1-Phenyl-1-butene Concentration Rank 13

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.201 | 3.20 ug/L | 114927 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Phenyl-1-butene                | 132 | C10H12  | 000824-90-8 | 55   |
| 2    |    |   | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 55   |
| 3    |    |   | Cyclopropane, 1-methyl-1-phenyl- | 132 | C10H12  | 002214-14-4 | 50   |
| 4    |    |   | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 50   |
| 5    |    |   | Benzene, 1-ethenyl-3-ethyl-      | 132 | C10H12  | 007525-62-4 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

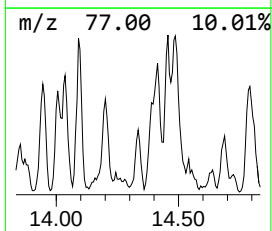
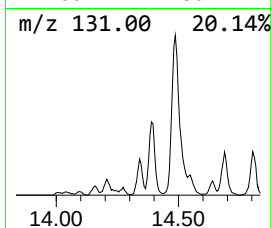
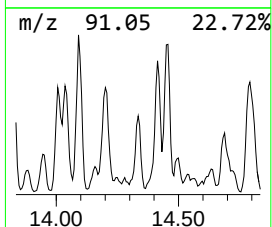
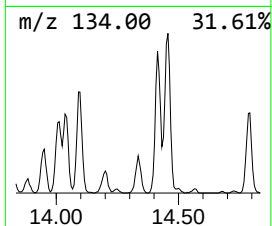
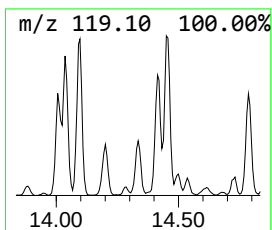
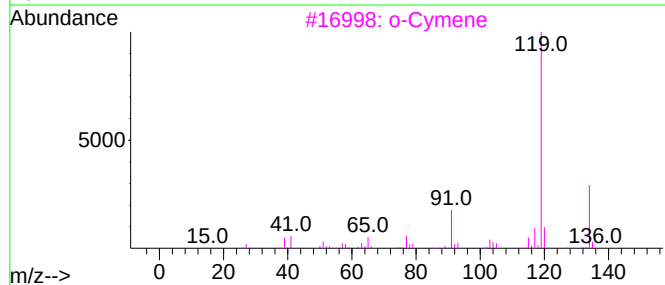
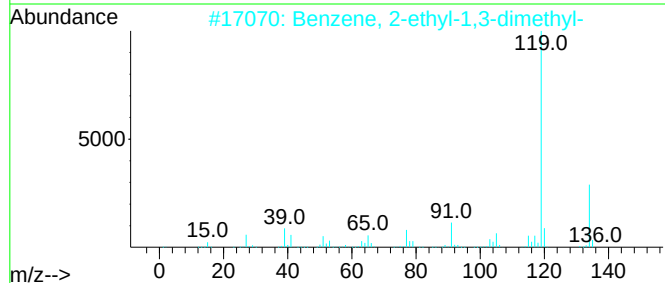
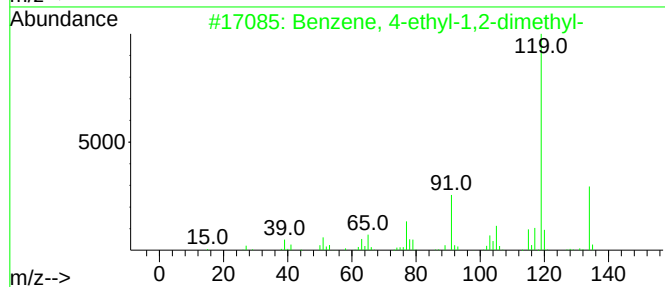
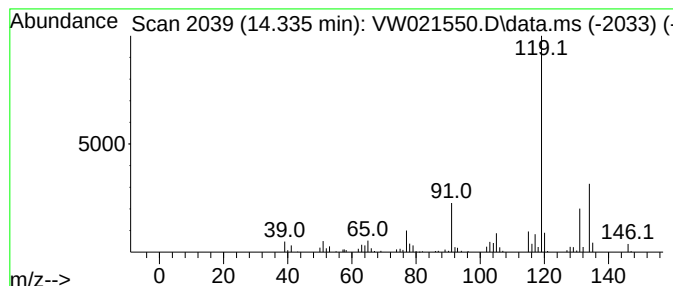
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Quant Title : SFAM01.0

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

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Peak Number 17 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 22

| R.T.      | EstConc                        | Area  | Relative to ISTD       |         | R.T.        |      |
|-----------|--------------------------------|-------|------------------------|---------|-------------|------|
| 14.335    | 1.70 ug/L                      | 60917 | 1,4-Dichlorobenzene-d4 |         | 13.560      |      |
| Hit# of 5 | Tentative ID                   |       | MW                     | MolForm | CAS#        | Qual |
| 1         | Benzene, 4-ethyl-1,2-dimethyl- |       | 134                    | C10H14  | 000934-80-5 | 93   |
| 2         | Benzene, 2-ethyl-1,3-dimethyl- |       | 134                    | C10H14  | 002870-04-4 | 93   |
| 3         | o-Cymene                       |       | 134                    | C10H14  | 000527-84-4 | 93   |
| 4         | Benzene, 1,2,3,4-tetramethyl-  |       | 134                    | C10H14  | 000488-23-3 | 91   |
| 5         | Benzene, 1-ethyl-2,3-dimethyl- |       | 134                    | C10H14  | 000933-98-2 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

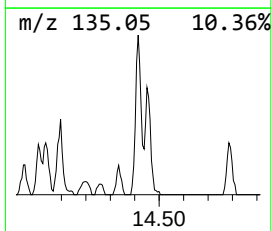
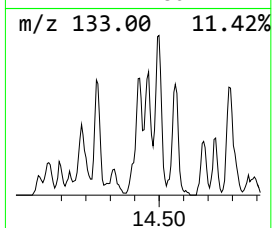
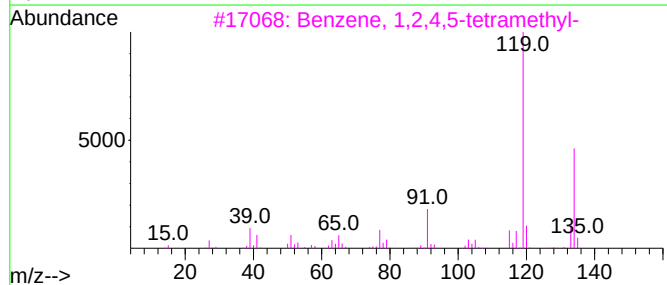
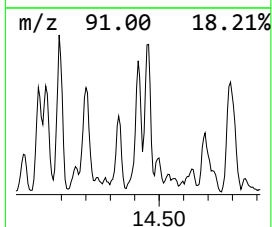
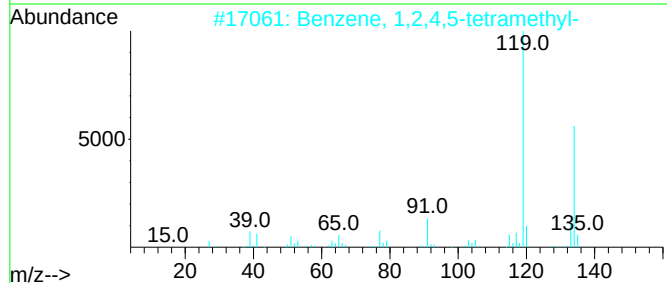
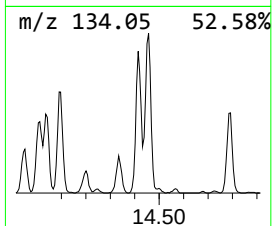
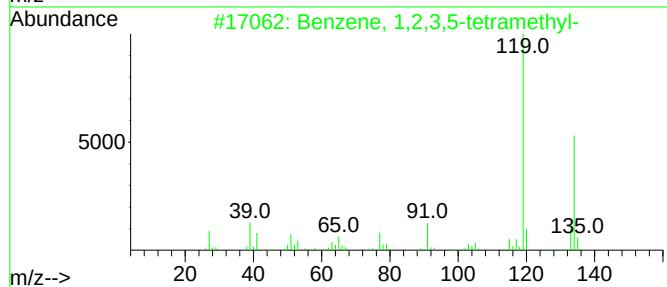
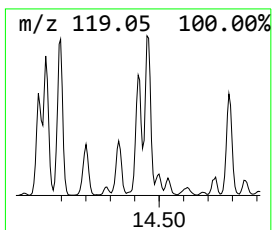
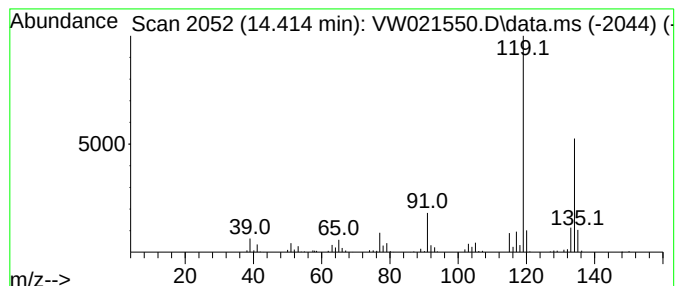
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Quant Title : SFAM01.0

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

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Peak Number 18 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 10

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.414 | 5.20 ug/L | 186660 | 1,4-Dichlorobenzene-d4 | 13.560 |

| 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, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 96   |
| 4    |    |   | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 96   |
| 5    |    |   | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 96   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

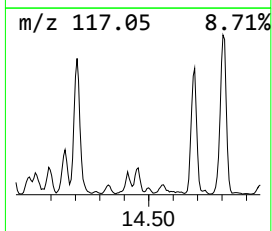
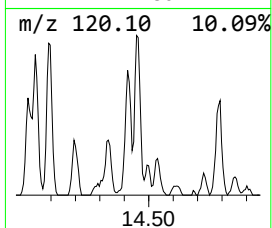
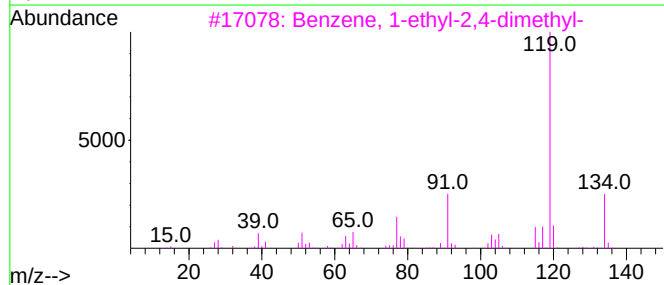
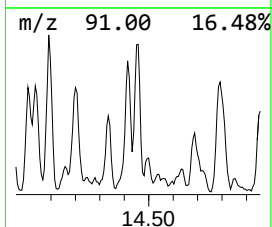
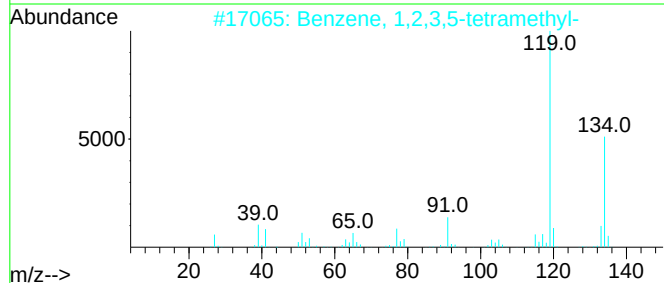
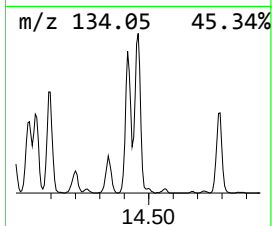
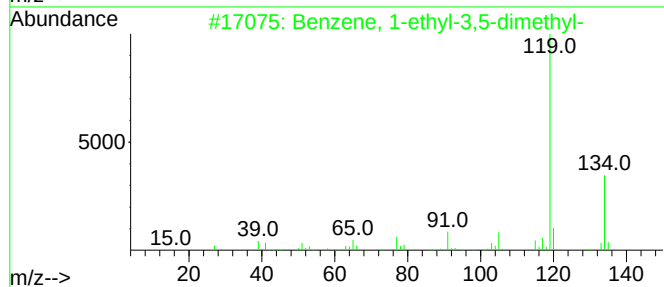
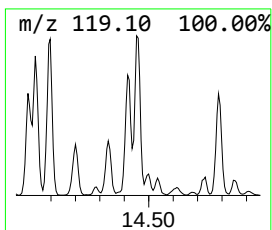
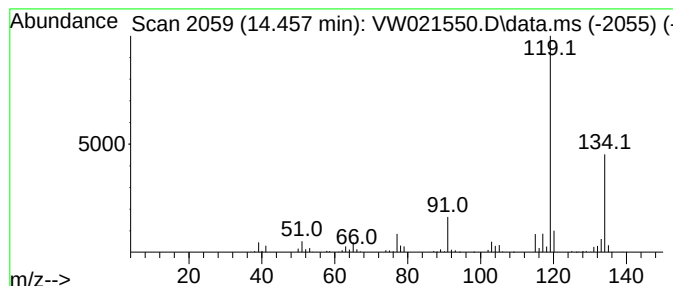
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Quant Title : SFAM01.0

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

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Peak Number 19 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 14

| R.T.      | EstConc                        | Area   | Relative to ISTD       |         |             | R.T.   |
|-----------|--------------------------------|--------|------------------------|---------|-------------|--------|
| 14.457    | 3.05 ug/L                      | 109657 | 1,4-Dichlorobenzene-d4 |         |             | 13.560 |
| Hit# of 5 | Tentative ID                   |        | MW                     | MolForm | CAS#        | Qual   |
| 1         | Benzene, 1-ethyl-3,5-dimethyl- |        | 134                    | C10H14  | 000934-74-7 | 94     |
| 2         | Benzene, 1,2,3,5-tetramethyl-  |        | 134                    | C10H14  | 000527-53-7 | 94     |
| 3         | Benzene, 1-ethyl-2,4-dimethyl- |        | 134                    | C10H14  | 000874-41-9 | 94     |
| 4         | Benzene, 1,2,4,5-tetramethyl-  |        | 134                    | C10H14  | 000095-93-2 | 94     |
| 5         | Benzene, 4-ethyl-1,2-dimethyl- |        | 134                    | C10H14  | 000934-80-5 | 91     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

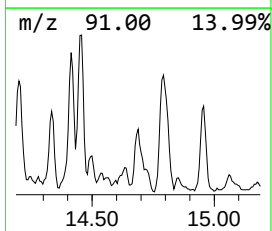
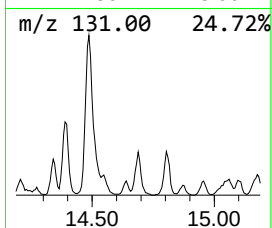
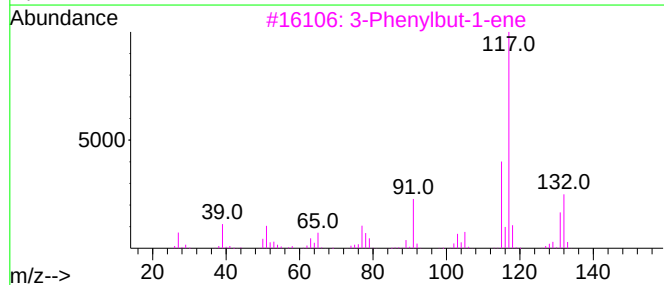
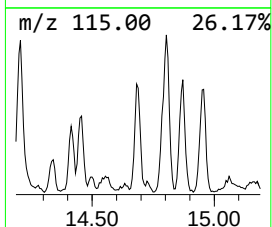
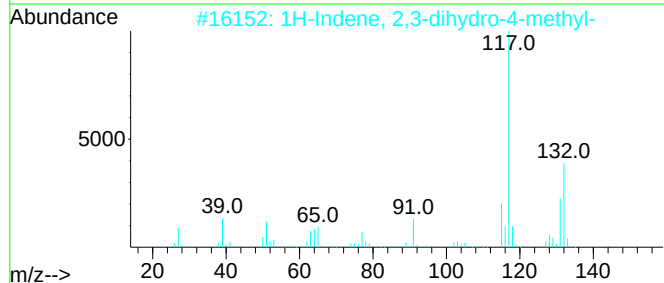
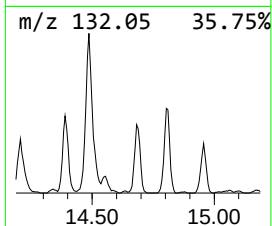
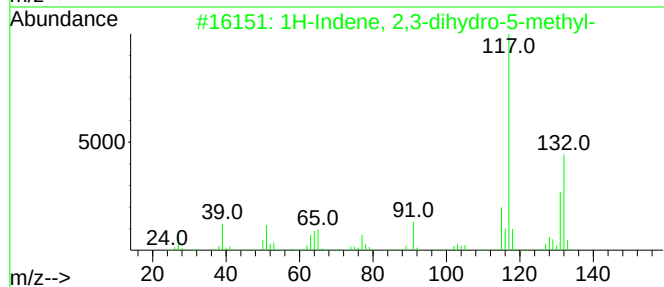
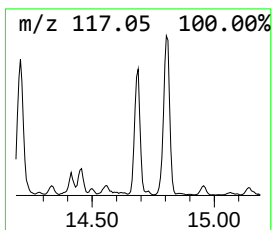
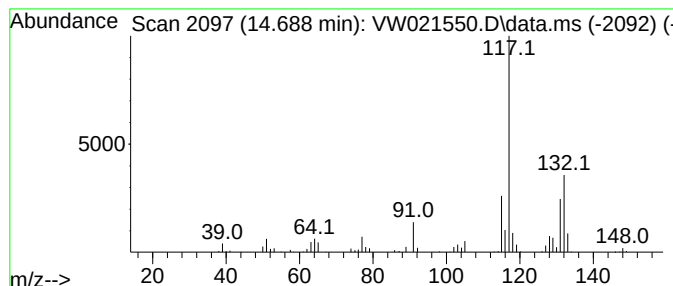
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TIC Integration Parameters: LSCINT.P

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Peak Number 20 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 18

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.688 | 2.40 ug/L | 86220 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------------|-----|---------|-------------|------|
| 1    |      | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 94   |
| 2    |      | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12  | 000824-22-6 | 91   |
| 3    |      | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 87   |
| 4    |      | Benzene, 1-ethenyl-3-ethyl-      | 132 | C10H12  | 007525-62-4 | 87   |
| 5    |      | Indan, 1-methyl-                 | 132 | C10H12  | 000767-58-8 | 81   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

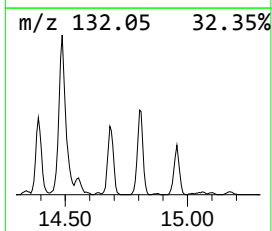
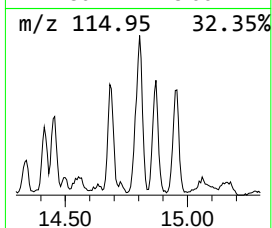
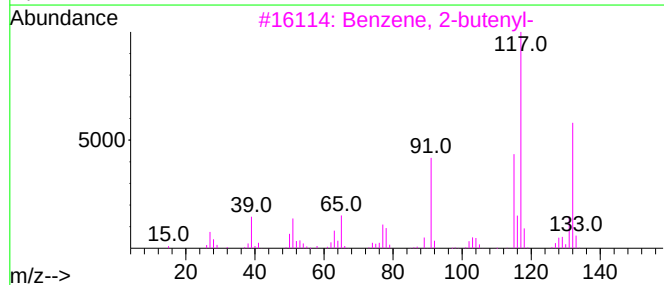
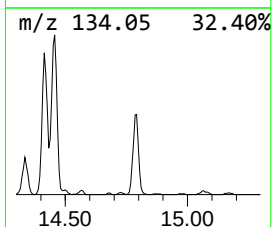
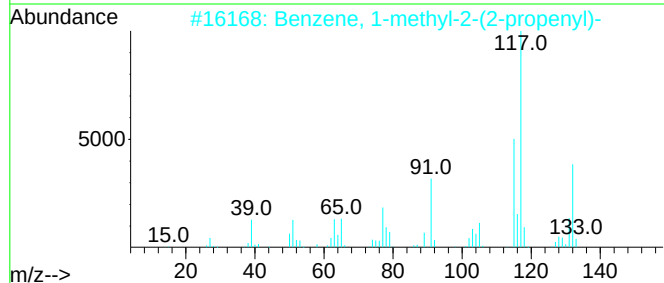
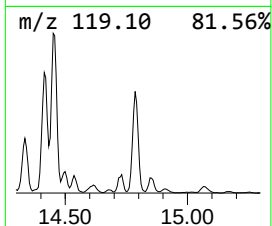
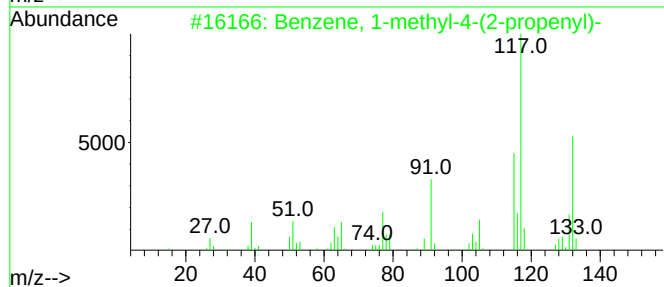
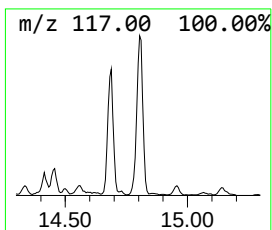
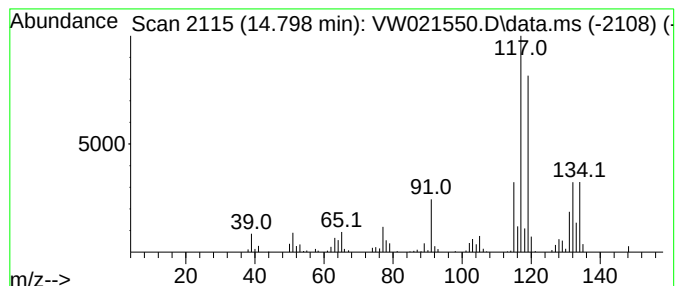
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Quant Title : SFAM01.0

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

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Peak Number 21 Benzene, 1-methyl-4-(2-prop... Concentration Rank 9

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.798 | 5.94 ug/L | 213469 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 80   |
| 2    |    |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 80   |
| 3    |    |   | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 80   |
| 4    |    |   | 2,4-Dimethylstyrene               | 132 | C10H12  | 002234-20-0 | 80   |
| 5    |    |   | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8 | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

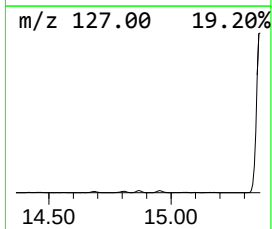
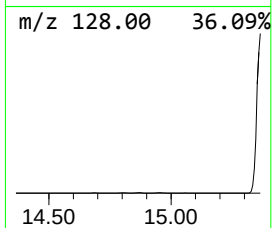
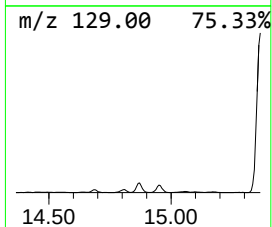
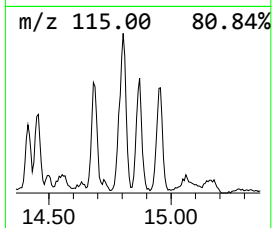
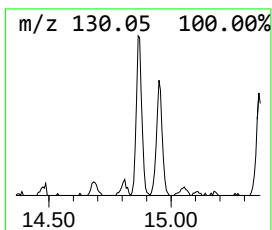
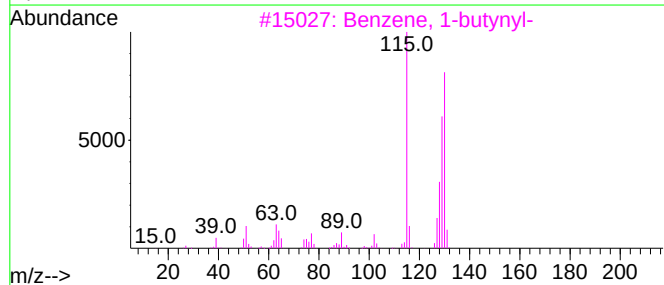
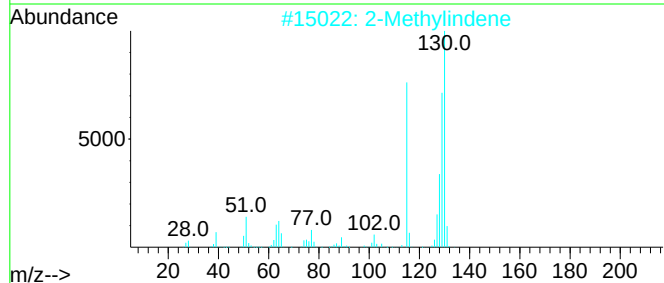
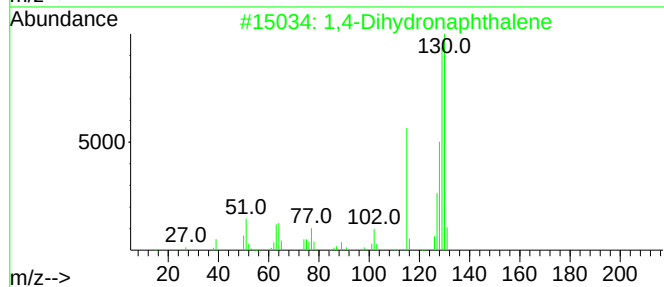
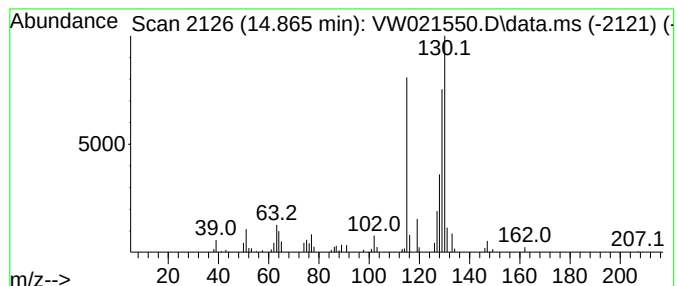
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Quant Title : SFAM01.0

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

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Peak Number 22 1,4-Dihydronaphthalene Concentration Rank 25

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.865 | 1.43 ug/L | 51356 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,4-Dihydronaphthalene              | 130 | C10H10  | 000612-17-9 | 96   |
| 2    |    |   | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 95   |
| 3    |    |   | Benzene, 1-butynyl-                 | 130 | C10H10  | 000622-76-4 | 94   |
| 4    |    |   | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 93   |
| 5    |    |   | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10  | 015677-15-3 | 92   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

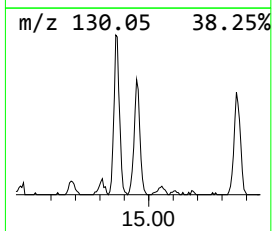
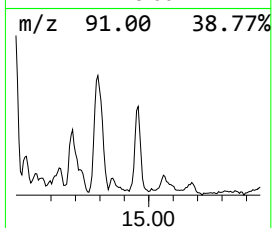
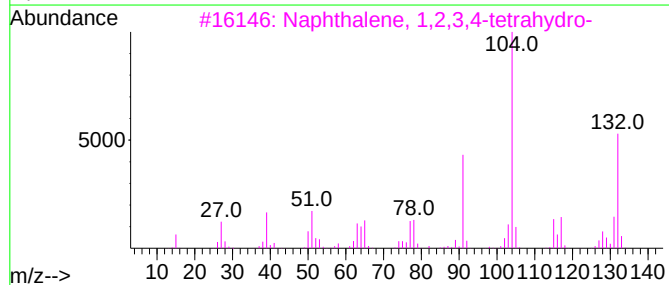
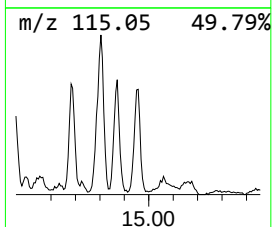
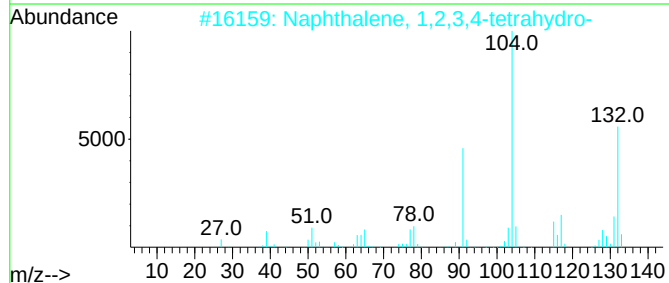
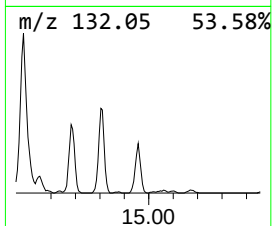
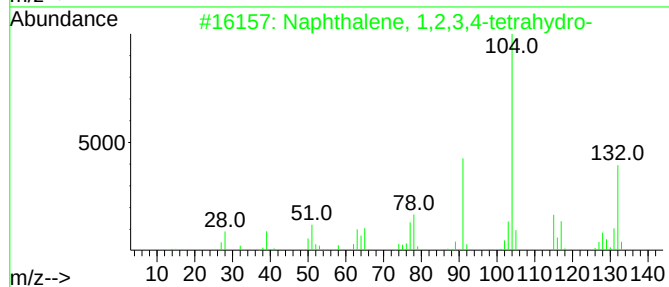
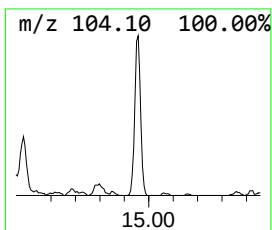
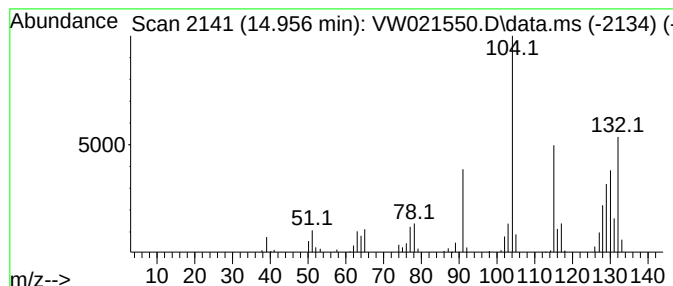
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Quant Title : SFAM01.0

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

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Peak Number 23 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 19

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.957 | 2.12 ug/L | 75991 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 90   |
| 2    |    |   | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 90   |
| 3    |    |   | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 87   |
| 4    |    |   | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 55   |
| 5    |    |   | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

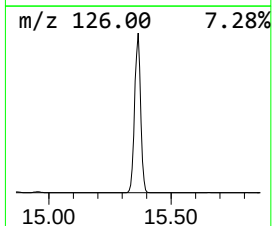
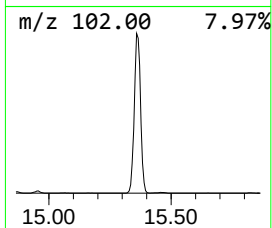
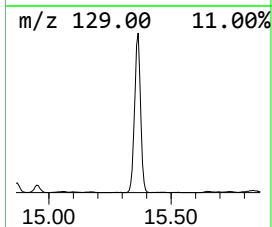
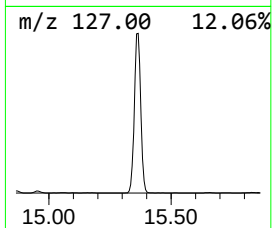
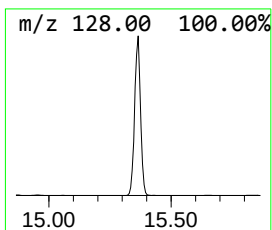
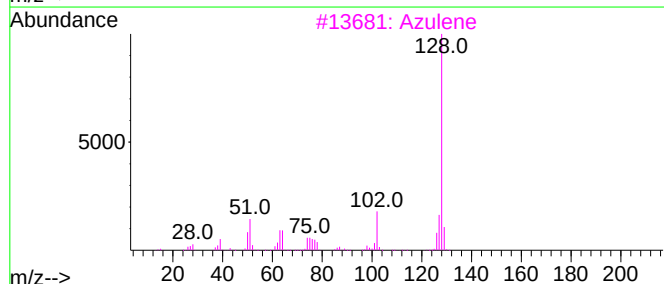
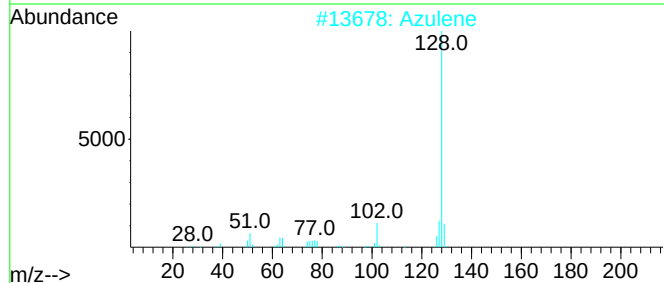
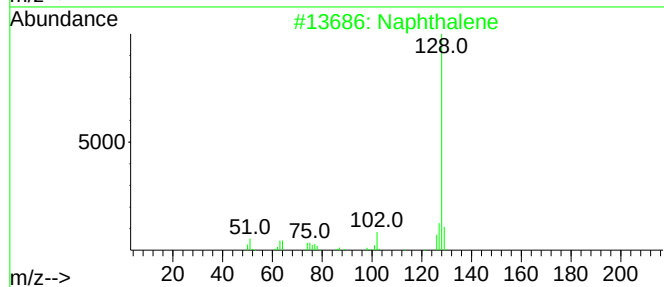
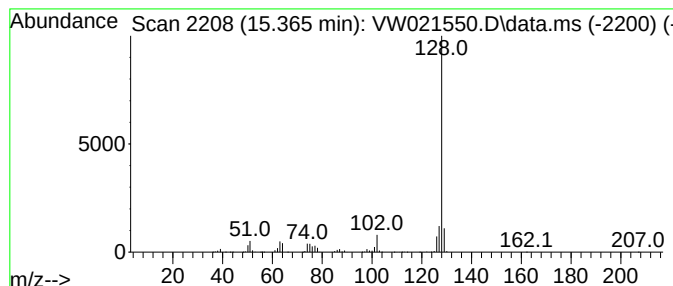
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Quant Title : SFAM01.0

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

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Peak Number 24 Azulene Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.365 | 54.60 ug/L | 1961180 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene             | 128 | C10H8   | 000091-20-3 | 95   |
| 2    |    |   | Azulene                 | 128 | C10H8   | 000275-51-4 | 93   |
| 3    |    |   | Azulene                 | 128 | C10H8   | 000275-51-4 | 91   |
| 4    |    |   | 1H-Indene, 1-methylene- | 128 | C10H8   | 002471-84-3 | 91   |
| 5    |    |   | Azulene                 | 128 | C10H8   | 000275-51-4 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

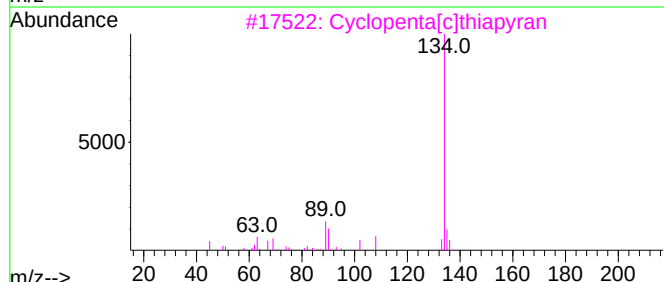
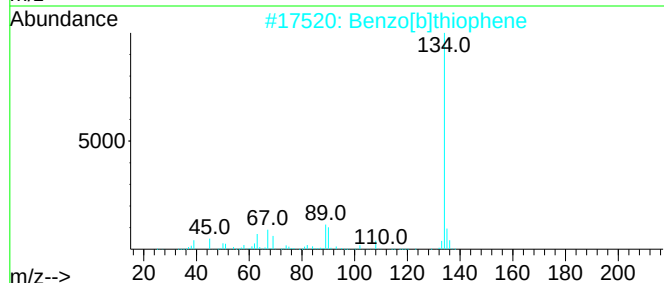
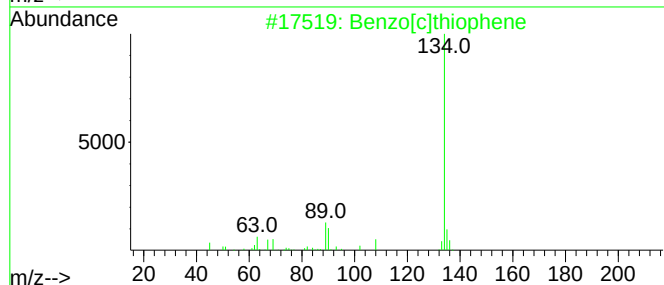
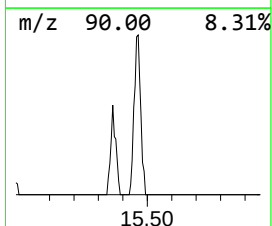
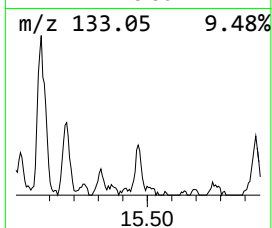
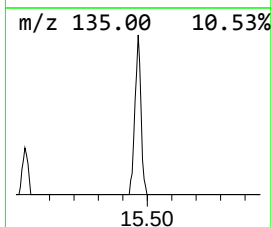
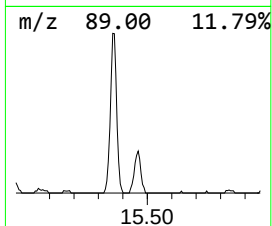
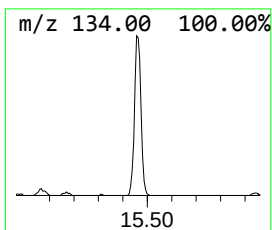
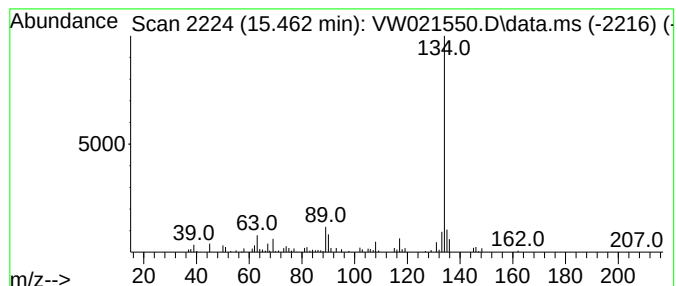
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Quant Title : SFAM01.0

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

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Peak Number 25 Benzo[c]thiophene Concentration Rank 23

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 15.463 | 1.55 ug/L | 55747 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[c]thiophene      | 134 | C8H6S   | 000270-82-6 | 93   |
| 2    |    |   | Benzo[b]thiophene      | 134 | C8H6S   | 000095-15-8 | 87   |
| 3    |    |   | Cyclopenta[c]thiapyran | 134 | C8H6S   | 000270-63-3 | 87   |
| 4    |    |   | Benzo[b]thiophene      | 134 | C8H6S   | 000095-15-8 | 81   |
| 5    |    |   | Benzo[b]thiophene      | 134 | C8H6S   | 000095-15-8 | 81   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

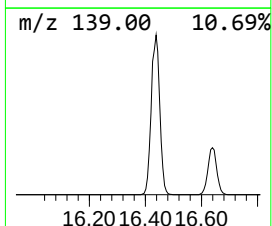
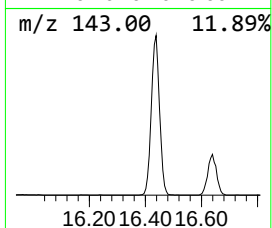
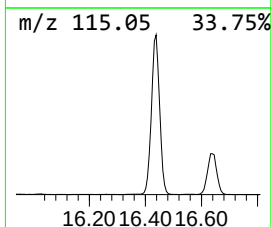
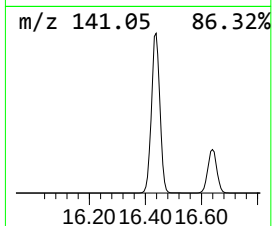
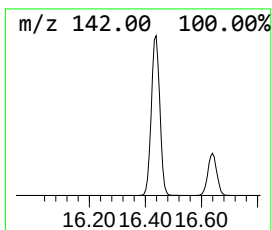
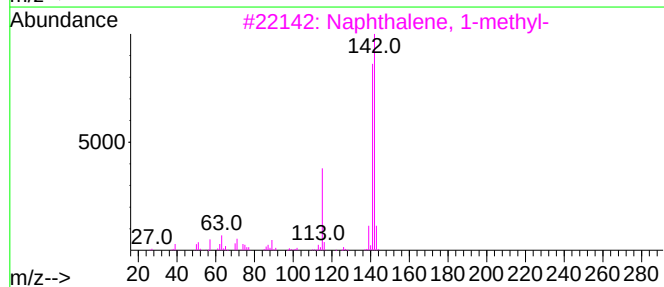
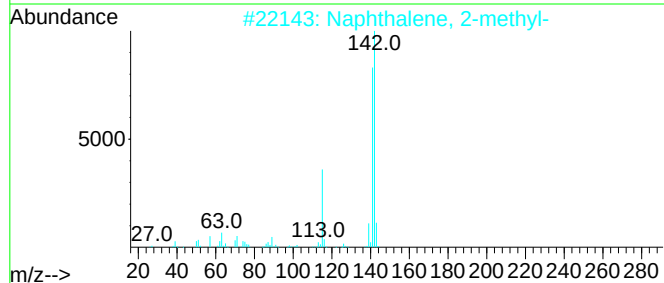
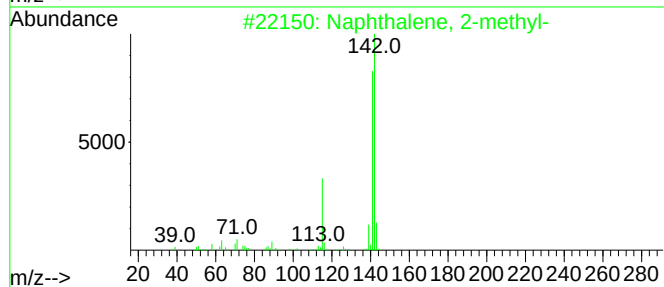
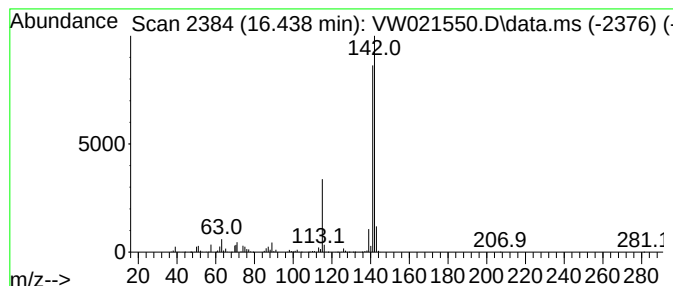
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Quant Title : SFAM01.0

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

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Peak Number 26 Naphthalene, 2-methyl- Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 16.438 | 78.37 ug/L | 2815220 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 96   |
| 2    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 96   |
| 3    |    |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 96   |
| 4    |    |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 95   |
| 5    |    |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
Data File : VW021550.D  
Acq On : 22 Dec 2021 02:17  
Operator : SY/VA  
Sample : M5194-17  
Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGLC9

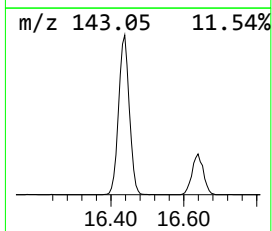
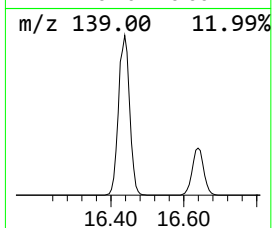
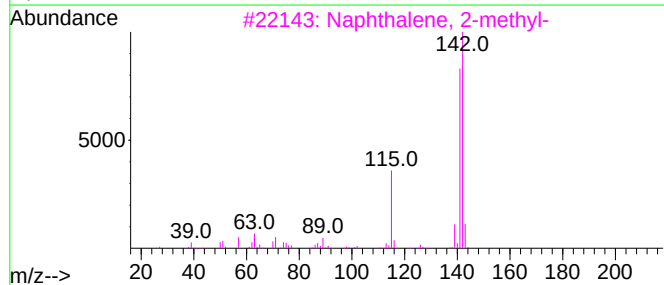
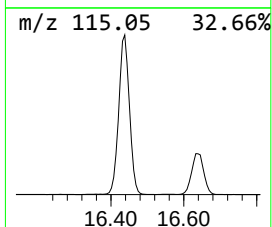
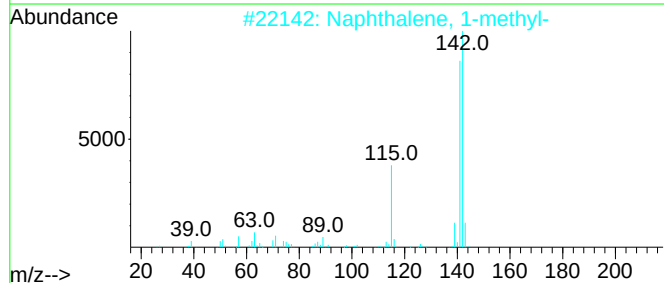
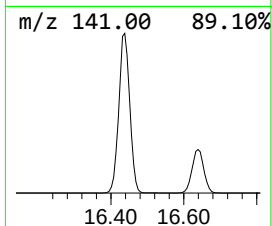
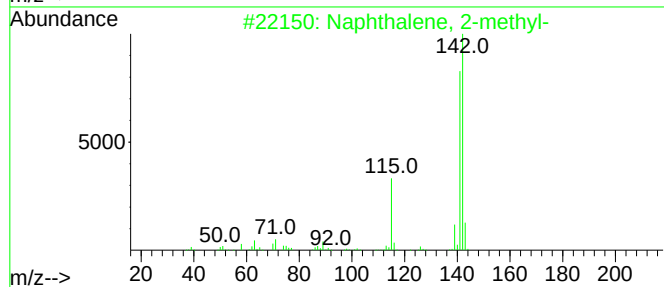
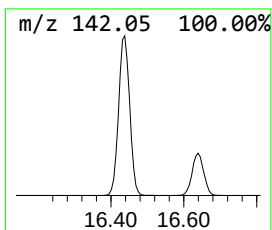
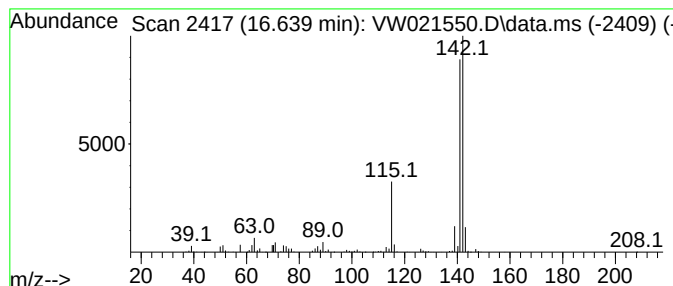
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 27 Naphthalene, 1-methyl- Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.639 | 22.93 ug/L | 823835 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 96   |
| 2    |    |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 96   |
| 3    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 96   |
| 4    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 95   |
| 5    |    |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122121\  
 Data File : VW021550.D  
 Acq On : 22 Dec 2021 02:17  
 Operator : SY/VA  
 Sample : M5194-17  
 Misc : 6.82g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BGLC9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
 Quant Title : SFAM01.0

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Pentalene, octa... | 12.341 | 1.5     | ug/L  | 15844    | 2                     | 11.634 | 268569 | 25.0 |
| Succinic acid, ... | 12.384 | 1.9     | ug/L  | 20874    | 2                     | 11.634 | 268569 | 25.0 |
| Benzene, propyl-   | 12.804 | 3.8     | ug/L  | 136058   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1-ethy... | 12.865 | 13.0    | ug/L  | 466115   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1-ethy... | 13.103 | 7.1     | ug/L  | 255639   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, (1-met... | 13.378 | 1.3     | ug/L  | 46178    | 3                     | 13.560 | 898042 | 25.0 |
| p-Cymene           | 13.438 | 2.0     | ug/L  | 70431    | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1,3-di... | 13.719 | 1.3     | ug/L  | 47107    | 3                     | 13.560 | 898042 | 25.0 |
| Indane             | 13.756 | 12.3    | ug/L  | 442936   | 3                     | 13.560 | 898042 | 25.0 |
| Indene             | 13.938 | 14.3    | ug/L  | 512880   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 2-ethy... | 14.005 | 3.0     | ug/L  | 108028   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1-ethy... | 14.036 | 2.7     | ug/L  | 96539    | 3                     | 13.560 | 898042 | 25.0 |
| o-Cymene           | 14.091 | 4.1     | ug/L  | 147767   | 3                     | 13.560 | 898042 | 25.0 |
| 1-Phenyl-1-butene  | 14.201 | 3.2     | ug/L  | 114927   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 4-ethy... | 14.335 | 1.7     | ug/L  | 60917    | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1,2,3,... | 14.414 | 5.2     | ug/L  | 186660   | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1-ethy... | 14.457 | 3.0     | ug/L  | 109657   | 3                     | 13.560 | 898042 | 25.0 |
| 1H-Indene, 2,3-... | 14.688 | 2.4     | ug/L  | 86220    | 3                     | 13.560 | 898042 | 25.0 |
| Benzene, 1-meth... | 14.798 | 5.9     | ug/L  | 213469   | 3                     | 13.560 | 898042 | 25.0 |
| 1,4-Dihydronaph... | 14.865 | 1.4     | ug/L  | 51356    | 3                     | 13.560 | 898042 | 25.0 |
| Naphthalene, 1,... | 14.957 | 2.1     | ug/L  | 75991    | 3                     | 13.560 | 898042 | 25.0 |
| Azulene            | 15.365 | 54.6    | ug/L  | 1961180  | 3                     | 13.560 | 898042 | 25.0 |
| Benzo[c]thiophene  | 15.463 | 1.6     | ug/L  | 55747    | 3                     | 13.560 | 898042 | 25.0 |
| Naphthalene, 2-... | 16.438 | 78.4    | ug/L  | 2815220  | 3                     | 13.560 | 898042 | 25.0 |
| Naphthalene, 1-... | 16.639 | 22.9    | ug/L  | 823835   | 3                     | 13.560 | 898042 | 25.0 |