

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
 Data File : VW027812.D  
 Acq On : 20 Dec 2023 17:03  
 Operator : SY/MD  
 Sample : 05835-20RE  
 Misc : 3.86g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0B24RE

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\SFAMWLM121523SMA.M  
 Title : SFAM01.0

Signal : TIC: VW027812.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         | 2.362       | 73            | 78          | 85           | rVB      | 15849          | 28172         | 3.73%           | 0.774%        |
| 2         | 2.503       | 97            | 101         | 110          | rVB      | 5893           | 10078         | 1.34%           | 0.277%        |
| 3         | 2.899       | 160           | 166         | 172          | rVB      | 15165          | 27171         | 3.60%           | 0.746%        |
| 4         | 3.356       | 239           | 241         | 244          | rBV2     | 172            | 227           | 0.03%           | 0.006%        |
| 5         | 3.508       | 260           | 266         | 268          | rBV3     | 253            | 527           | 0.07%           | 0.014%        |
| 6         | 3.734       | 298           | 303         | 305          | rBV2     | 236            | 328           | 0.04%           | 0.009%        |
| 7         | 4.027       | 341           | 351         | 361          | rBV2     | 24404          | 64687         | 8.57%           | 1.777%        |
| 8         | 4.130       | 363           | 368         | 378          | rVB      | 2748           | 7064          | 0.94%           | 0.194%        |
| 9         | 4.277       | 389           | 392         | 395          | rBV2     | 154            | 199           | 0.03%           | 0.005%        |
| 10        | 4.362       | 404           | 406         | 409          | rBV      | 144            | 162           | 0.02%           | 0.004%        |
| 11        | 4.612       | 445           | 447         | 450          | rVB2     | 166            | 170           | 0.02%           | 0.005%        |
| 12        | 4.648       | 450           | 453         | 454          | rBV      | 277            | 289           | 0.04%           | 0.008%        |
| 13        | 4.697       | 454           | 461         | 467          | rVB2     | 1304           | 3292          | 0.44%           | 0.090%        |
| 14        | 4.807       | 475           | 479         | 482          | rBV2     | 184            | 240           | 0.03%           | 0.007%        |
| 15        | 4.850       | 482           | 486         | 490          | rBV2     | 147            | 190           | 0.03%           | 0.005%        |
| 16        | 4.929       | 490           | 499         | 509          | rVV3     | 934            | 2764          | 0.37%           | 0.076%        |
| 17        | 5.026       | 509           | 515         | 521          | rVB5     | 643            | 1713          | 0.23%           | 0.047%        |
| 18        | 5.368       | 568           | 571         | 574          | rBV2     | 162            | 214           | 0.03%           | 0.006%        |
| 19        | 5.478       | 586           | 589         | 593          | rVB2     | 213            | 266           | 0.04%           | 0.007%        |
| 20        | 5.758       | 633           | 635         | 639          | rBV2     | 190            | 300           | 0.04%           | 0.008%        |
| 21        | 5.795       | 639           | 641         | 643          | rVV2     | 250            | 161           | 0.02%           | 0.004%        |
| 22        | 5.904       | 655           | 659         | 660          | rBV      | 193            | 205           | 0.03%           | 0.006%        |
| 23        | 5.959       | 663           | 668         | 674          | rVB4     | 499            | 1198          | 0.16%           | 0.033%        |
| 24        | 6.038       | 680           | 681         | 684          | rVB2     | 260            | 183           | 0.02%           | 0.005%        |
| 25        | 6.392       | 737           | 739         | 742          | rVV2     | 137            | 178           | 0.02%           | 0.005%        |
| 26        | 6.441       | 745           | 747         | 750          | rVV2     | 92             | 135           | 0.02%           | 0.004%        |
| 27        | 6.484       | 753           | 754         | 756          | rBV2     | 176            | 142           | 0.02%           | 0.004%        |
| 28        | 6.941       | 827           | 829         | 835          | rVB2     | 131            | 173           | 0.02%           | 0.005%        |
| 29        | 7.087       | 845           | 853         | 861          | rBV3     | 3647           | 10724         | 1.42%           | 0.295%        |
| 30        | 7.258       | 878           | 881         | 883          | rBV      | 196            | 243           | 0.03%           | 0.007%        |
| 31        | 7.654       | 936           | 946         | 956          | rVV2     | 31074          | 77675         | 10.29%          | 2.133%        |
| 32        | 7.733       | 956           | 959         | 962          | rVB3     | 106            | 146           | 0.02%           | 0.004%        |
| 33        | 7.843       | 973           | 977         | 978          | rBV2     | 108            | 145           | 0.02%           | 0.004%        |
| 34        | 7.898       | 982           | 986         | 987          | rBV      | 229            | 173           | 0.02%           | 0.005%        |
| 35        | 8.050       | 1008          | 1011        | 1017         | rBV2     | 173            | 387           | 0.05%           | 0.011%        |
| 36        | 8.111       | 1017          | 1021        | 1022         | rVV2     | 178            | 158           | 0.02%           | 0.004%        |

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 C0B24RE

Integration Parameters: LSCINT.P

Integrator: RTE

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Filtering: 5

Sampling : 1

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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\SFAMWLM121523SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 37 | 8.282  | 1039 | 1049 | 1065 | rBV3 | 61806  | 182085 | 24.13%  | 5.001%  |
| 38 | 8.392  | 1065 | 1067 | 1071 | rVB2 | 285    | 248    | 0.03%   | 0.007%  |
| 39 | 8.508  | 1083 | 1086 | 1088 | rVB2 | 146    | 174    | 0.02%   | 0.005%  |
| 40 | 8.636  | 1105 | 1107 | 1110 | rVB  | 188    | 145    | 0.02%   | 0.004%  |
| 41 | 8.672  | 1110 | 1113 | 1114 | rBV2 | 245    | 179    | 0.02%   | 0.005%  |
| 42 | 8.703  | 1116 | 1118 | 1119 | rVV2 | 325    | 200    | 0.03%   | 0.005%  |
| 43 | 8.843  | 1132 | 1141 | 1153 | rBV  | 73527  | 147741 | 19.58%  | 4.058%  |
| 44 | 9.276  | 1204 | 1212 | 1223 | rVB2 | 40686  | 82945  | 10.99%  | 2.278%  |
| 45 | 9.410  | 1230 | 1234 | 1241 | rVB5 | 1950   | 4121   | 0.55%   | 0.113%  |
| 46 | 9.617  | 1265 | 1268 | 1270 | rBV  | 127    | 154    | 0.02%   | 0.004%  |
| 47 | 10.038 | 1330 | 1337 | 1346 | rVV  | 19453  | 35135  | 4.66%   | 0.965%  |
| 48 | 10.324 | 1374 | 1384 | 1391 | rBV  | 84801  | 151249 | 20.04%  | 4.154%  |
| 49 | 10.385 | 1391 | 1394 | 1403 | rVB  | 5726   | 10203  | 1.35%   | 0.280%  |
| 50 | 10.477 | 1407 | 1409 | 1411 | rBV2 | 169    | 183    | 0.02%   | 0.005%  |
| 51 | 10.580 | 1420 | 1426 | 1433 | rBV  | 10506  | 18653  | 2.47%   | 0.512%  |
| 52 | 10.702 | 1441 | 1446 | 1450 | rBV2 | 683    | 1060   | 0.14%   | 0.029%  |
| 53 | 10.928 | 1477 | 1483 | 1492 | rBV4 | 3717   | 7912   | 1.05%   | 0.217%  |
| 54 | 11.074 | 1501 | 1507 | 1513 | rBV3 | 7634   | 13451  | 1.78%   | 0.369%  |
| 55 | 11.409 | 1559 | 1562 | 1563 | rBV2 | 165    | 138    | 0.02%   | 0.004%  |
| 56 | 11.629 | 1591 | 1598 | 1610 | rBV  | 101251 | 174355 | 23.10%  | 4.789%  |
| 57 | 11.818 | 1623 | 1629 | 1638 | rVB3 | 4428   | 7704   | 1.02%   | 0.212%  |
| 58 | 11.946 | 1646 | 1650 | 1651 | rBV  | 137    | 173    | 0.02%   | 0.005%  |
| 59 | 11.983 | 1651 | 1656 | 1662 | rVB2 | 3058   | 4801   | 0.64%   | 0.132%  |
| 60 | 12.050 | 1662 | 1667 | 1672 | rBV3 | 2545   | 4344   | 0.58%   | 0.119%  |
| 61 | 12.117 | 1672 | 1678 | 1685 | rVB2 | 12712  | 26221  | 3.47%   | 0.720%  |
| 62 | 12.306 | 1703 | 1709 | 1712 | rVB3 | 364    | 529    | 0.07%   | 0.015%  |
| 63 | 12.367 | 1712 | 1719 | 1724 | rVB3 | 3938   | 6003   | 0.80%   | 0.165%  |
| 64 | 12.403 | 1724 | 1725 | 1728 | rBV  | 144    | 162    | 0.02%   | 0.004%  |
| 65 | 12.470 | 1728 | 1736 | 1746 | rBV  | 117290 | 194607 | 25.78%  | 5.345%  |
| 66 | 12.574 | 1746 | 1753 | 1763 | rBV  | 26723  | 46056  | 6.10%   | 1.265%  |
| 67 | 12.678 | 1763 | 1770 | 1774 | rBV2 | 169539 | 336957 | 44.65%  | 9.255%  |
| 68 | 12.830 | 1790 | 1795 | 1798 | rVB3 | 917    | 1406   | 0.19%   | 0.039%  |
| 69 | 12.958 | 1811 | 1816 | 1822 | rBV5 | 3838   | 6937   | 0.92%   | 0.191%  |
| 70 | 13.025 | 1822 | 1827 | 1833 | rVB  | 12694  | 21094  | 2.79%   | 0.579%  |
| 71 | 13.104 | 1839 | 1840 | 1843 | rBV  | 271    | 195    | 0.03%   | 0.005%  |
| 72 | 13.159 | 1845 | 1849 | 1857 | rVB2 | 5639   | 8548   | 1.13%   | 0.235%  |
| 73 | 13.269 | 1857 | 1867 | 1876 | rBV  | 489268 | 754730 | 100.00% | 20.729% |
| 74 | 13.354 | 1876 | 1881 | 1886 | rBV  | 64236  | 105414 | 13.97%  | 2.895%  |
| 75 | 13.409 | 1886 | 1890 | 1894 | rBV4 | 12493  | 20030  | 2.65%   | 0.550%  |
| 76 | 13.464 | 1894 | 1899 | 1902 | rBV  | 256220 | 433469 | 57.43%  | 11.906% |

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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

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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\SFAMWLM121523SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 13.555 | 1909 | 1914 | 1921 | rVB2 | 89983  | 150845 | 19.99% | 4.143% |
| 78  | 13.616 | 1921 | 1924 | 1929 | rVB5 | 7411   | 11025  | 1.46%  | 0.303% |
| 79  | 13.665 | 1929 | 1932 | 1934 | rBV3 | 1421   | 1843   | 0.24%  | 0.051% |
| 80  | 13.714 | 1934 | 1940 | 1945 | rVB  | 24635  | 39835  | 5.28%  | 1.094% |
| 81  | 13.781 | 1950 | 1951 | 1953 | rVB2 | 243    | 162    | 0.02%  | 0.004% |
| 82  | 13.848 | 1953 | 1962 | 1970 | rBV  | 66150  | 111283 | 14.74% | 3.057% |
| 83  | 13.909 | 1970 | 1972 | 1973 | rBV2 | 222    | 143    | 0.02%  | 0.004% |
| 84  | 13.958 | 1974 | 1980 | 1981 | rBV  | 9005   | 12091  | 1.60%  | 0.332% |
| 85  | 13.994 | 1981 | 1986 | 1991 | rVV  | 145464 | 217942 | 28.88% | 5.986% |
| 86  | 14.043 | 1991 | 1994 | 2004 | rVB2 | 10904  | 17741  | 2.35%  | 0.487% |
| 87  | 14.147 | 2004 | 2011 | 2018 | rBV2 | 10216  | 15992  | 2.12%  | 0.439% |
| 88  | 14.305 | 2033 | 2037 | 2042 | rVB3 | 2978   | 4370   | 0.58%  | 0.120% |
| 89  | 14.378 | 2046 | 2049 | 2053 | rBV2 | 466    | 656    | 0.09%  | 0.018% |
| 90  | 14.421 | 2053 | 2056 | 2058 | rVB3 | 294    | 221    | 0.03%  | 0.006% |
| 91  | 14.823 | 2119 | 2122 | 2127 | rVB4 | 836    | 966    | 0.13%  | 0.027% |
| 92  | 14.903 | 2133 | 2135 | 2138 | rBV3 | 276    | 275    | 0.04%  | 0.008% |
| 93  | 14.952 | 2141 | 2143 | 2144 | rBV  | 338    | 192    | 0.03%  | 0.005% |
| 94  | 15.080 | 2162 | 2164 | 2166 | rBV3 | 313    | 290    | 0.04%  | 0.008% |
| 95  | 15.122 | 2169 | 2171 | 2177 | rVB3 | 783    | 1206   | 0.16%  | 0.033% |
| 96  | 15.220 | 2185 | 2187 | 2191 | rVB2 | 640    | 592    | 0.08%  | 0.016% |
| 97  | 15.293 | 2197 | 2199 | 2204 | rVB2 | 2036   | 2359   | 0.31%  | 0.065% |
| 98  | 15.390 | 2213 | 2215 | 2216 | rBV  | 331    | 208    | 0.03%  | 0.006% |
| 99  | 15.537 | 2237 | 2239 | 2241 | rBV2 | 432    | 476    | 0.06%  | 0.013% |
| 100 | 15.915 | 2299 | 2301 | 2303 | rBV2 | 411    | 355    | 0.05%  | 0.010% |

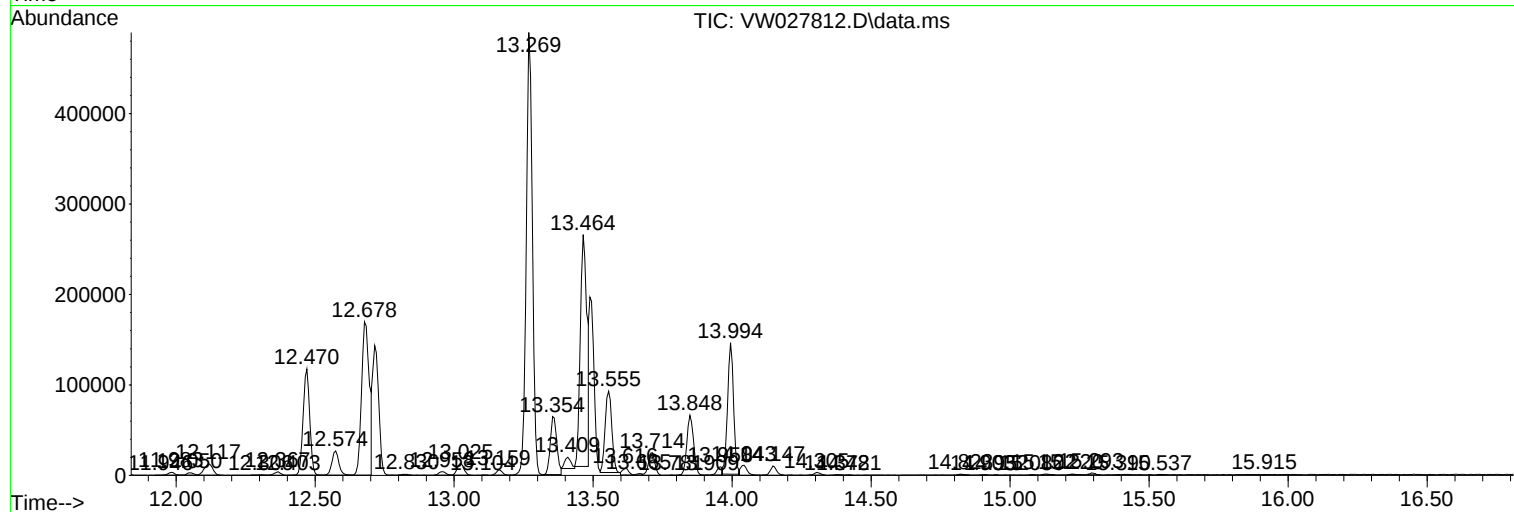
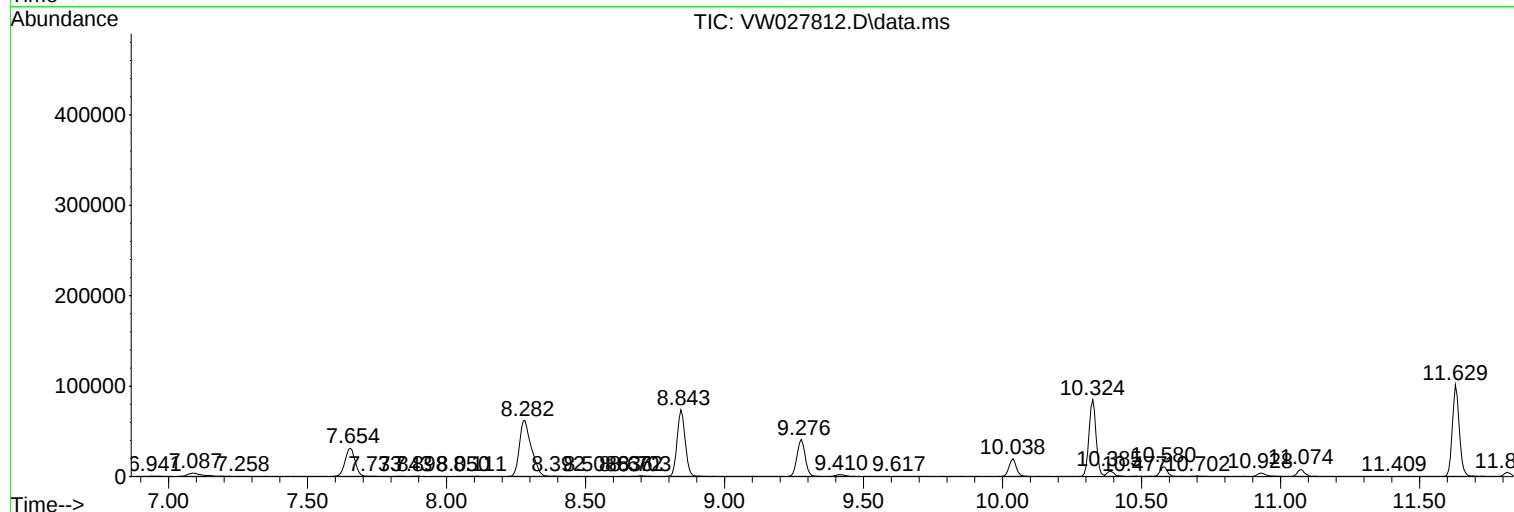
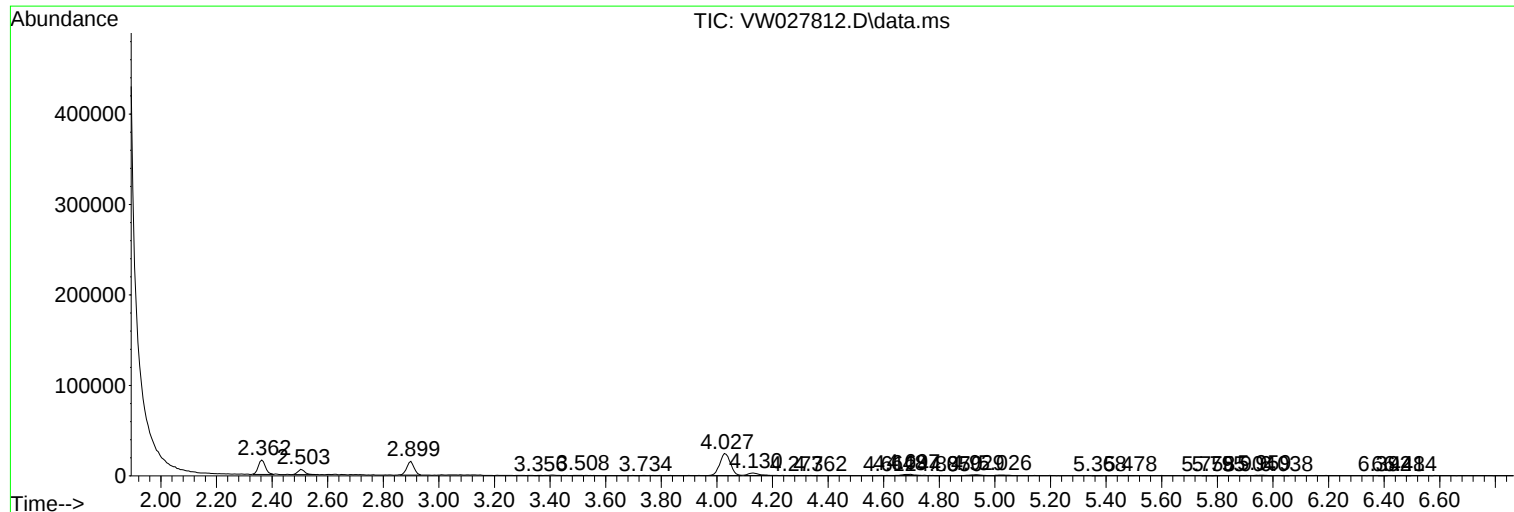
Sum of corrected areas: 3640858

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121523SMA.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\SFAMWLM121523SMA.M  
Quant Title : SFAM01.0

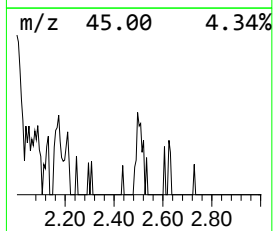
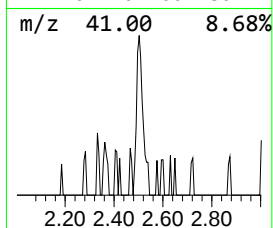
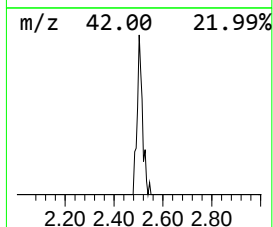
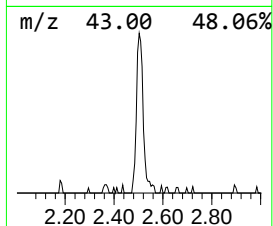
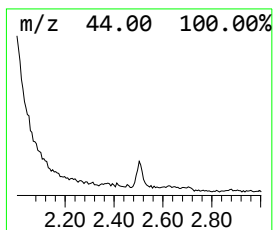
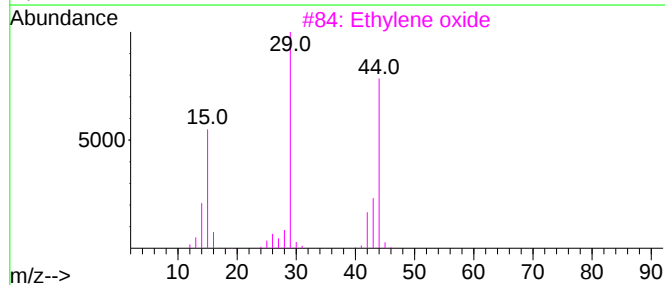
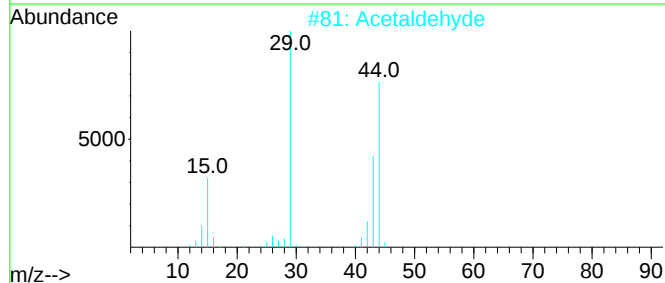
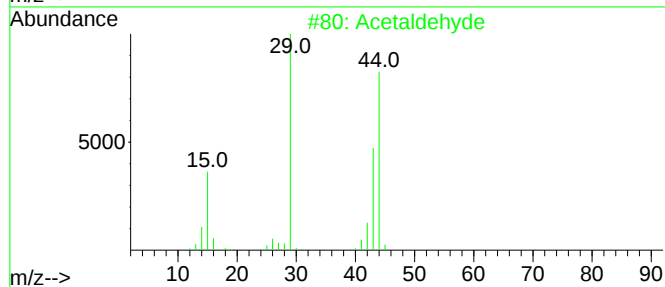
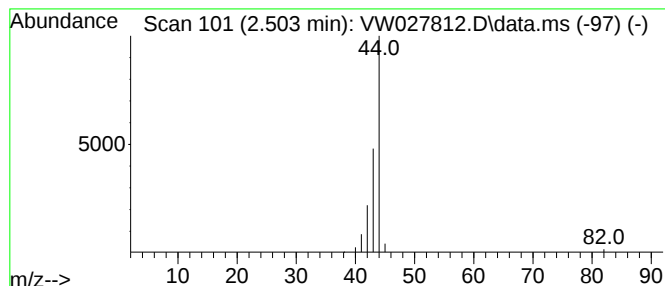
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 15

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.503 | 1.71 ug/L | 10078 | 1,4-Difluorobenzene | 8.843 |

| Hit# | of | 5 | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------|----|---------|-------------|------|
| 1    |    |   | Acetaldehyde   | 44 | C2H4O   | 000075-07-0 | 9    |
| 2    |    |   | Acetaldehyde   | 44 | C2H4O   | 000075-07-0 | 7    |
| 3    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 4    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 5    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |



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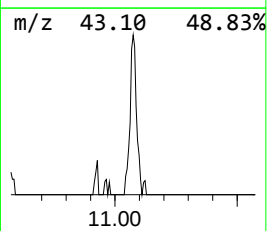
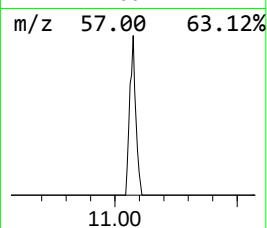
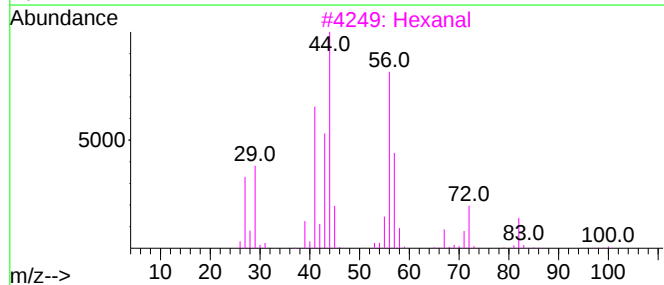
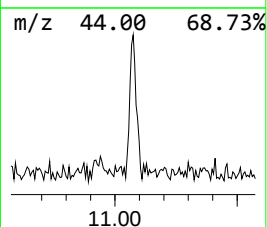
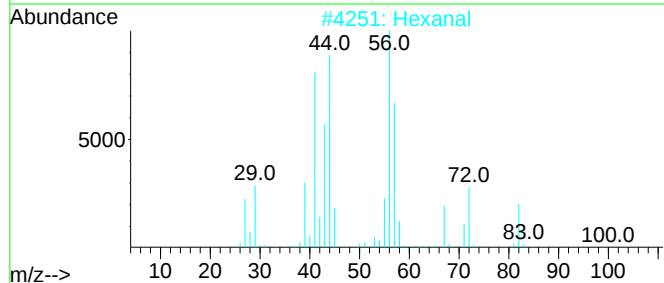
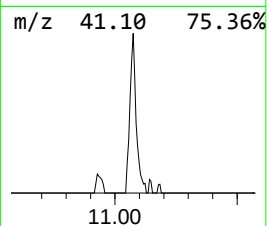
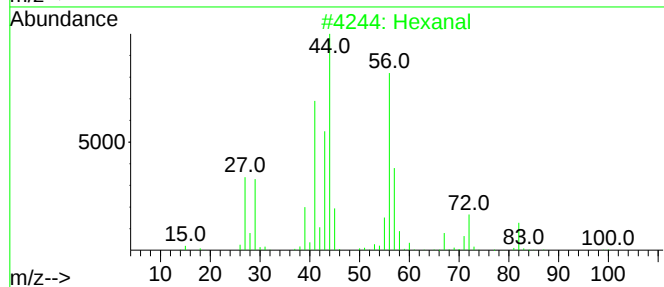
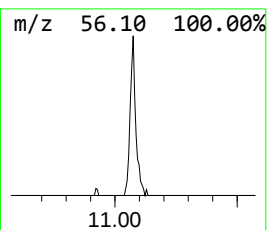
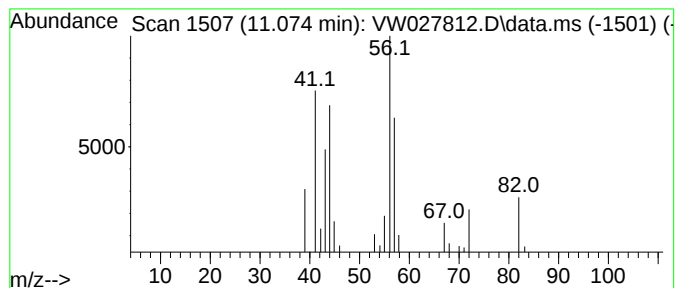
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121523SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 3 Hexanal Concentration Rank 14

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.074 | 1.93 ug/L | 13451 | Chlorobenzene-d5 | 11.629 |

| Hit# | of              | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-----------------|---|--------------|-----|---------|-------------|------|
| 1    | Hexanal         |   |              | 100 | C6H12O  | 000066-25-1 | 78   |
| 2    | Hexanal         |   |              | 100 | C6H12O  | 000066-25-1 | 72   |
| 3    | Hexanal         |   |              | 100 | C6H12O  | 000066-25-1 | 50   |
| 4    | Hexanal         |   |              | 100 | C6H12O  | 000066-25-1 | 47   |
| 5    | 1,5-Pentanediol |   |              | 104 | C5H12O2 | 000111-29-5 | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

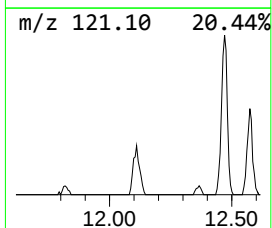
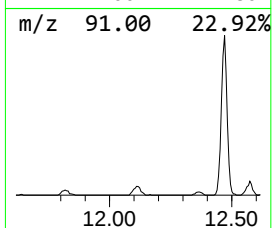
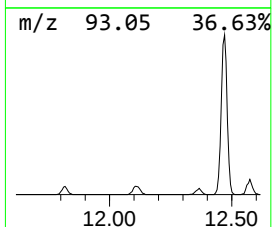
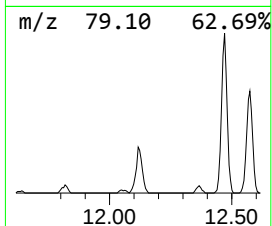
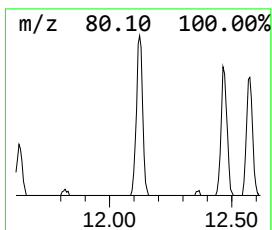
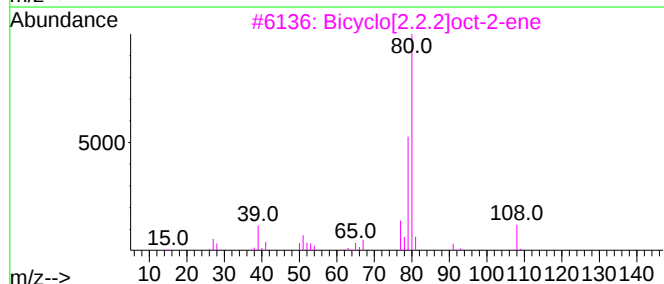
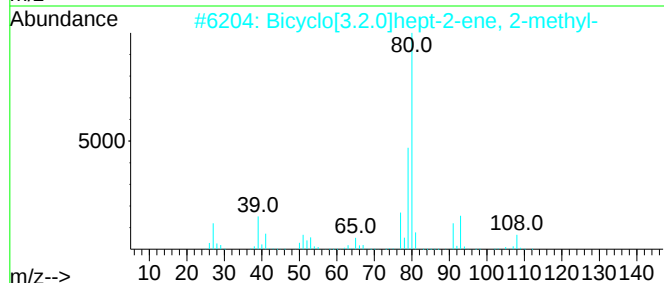
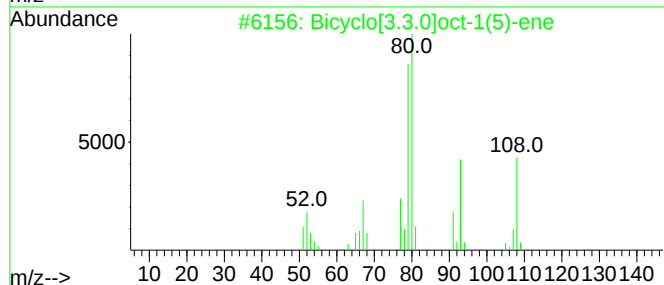
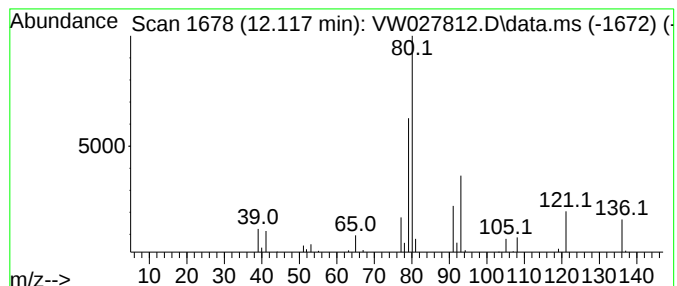
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 4 Bicyclo[3.3.0]oct-1(5)-ene Concentration Rank 8

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.117 | 3.76 ug/L | 26221 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Bicyclo[3.3.0]oct-1(5)-ene          | 108 | C8H12   | 006491-93-6  | 90   |
| 2    |    |   | Bicyclo[3.2.0]hept-2-ene, 2-methyl- | 108 | C8H12   | 094122-58-4  | 86   |
| 3    |    |   | Bicyclo[2.2.2]oct-2-ene             | 108 | C8H12   | 000931-64-6  | 80   |
| 4    |    |   | Bicyclo[3.3.0]oct-2-en-8-one, 3-... | 136 | C9H12O  | 1000155-39-2 | 80   |
| 5    |    |   | Spiro[2.4]heptane, 5-methylene-     | 108 | C8H12   | 037745-07-6  | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

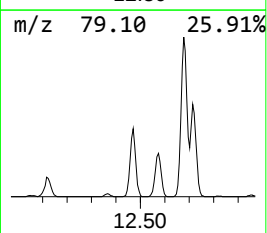
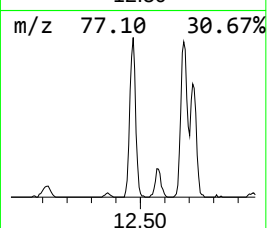
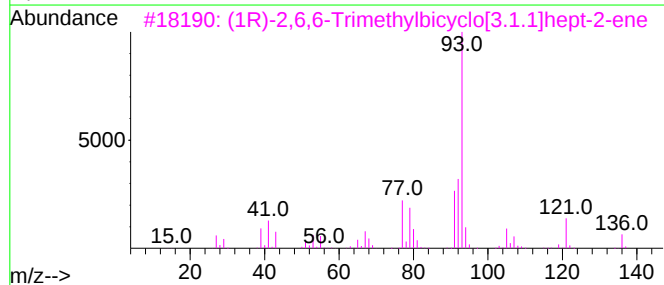
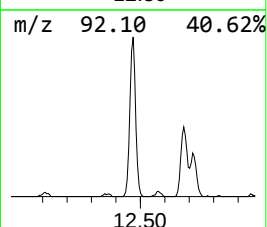
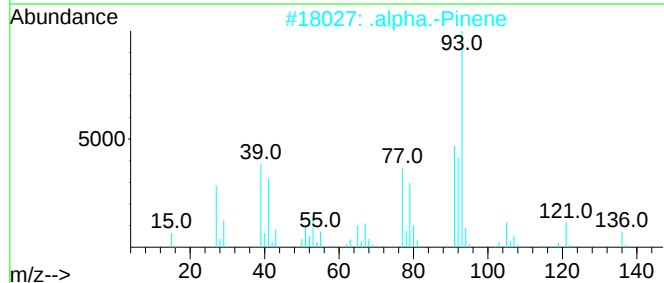
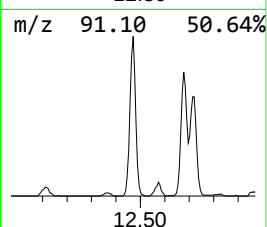
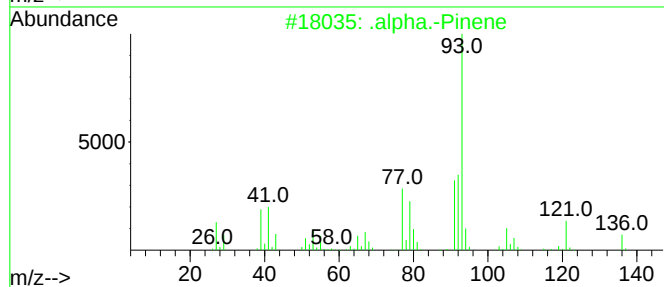
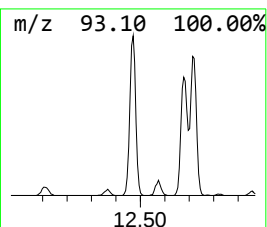
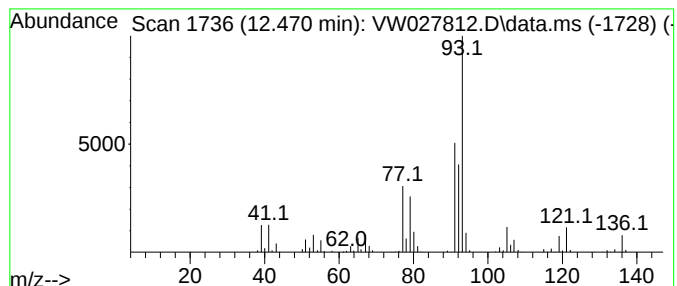
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Quant Title : SFAM01.0

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

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Peak Number 5 .alpha.-Pinene Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.470 | 27.90 ug/L | 194607 | Chlorobenzene-d5 | 11.629 |

| Hit# | of                                  | 5              | Tentative ID | MW          | MolForm     | CAS# | Qual |
|------|-------------------------------------|----------------|--------------|-------------|-------------|------|------|
| 1    | .                                   | .alpha.-Pinene | 136          | C10H16      | 000080-56-8 | 97   |      |
| 2    | .                                   | .alpha.-Pinene | 136          | C10H16      | 000080-56-8 | 95   |      |
| 3    | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136            | C10H16       | 007785-70-8 | 94          |      |      |
| 4    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136            | C10H16       | 004889-83-2 | 91          |      |      |
| 5    | .                                   | .alpha.-Pinene | 136          | C10H16      | 000080-56-8 | 91   |      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121523SMA.M  
Quant Title : SFAM01.0

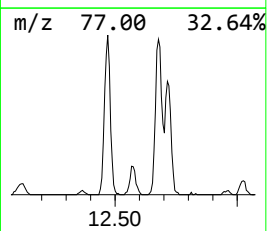
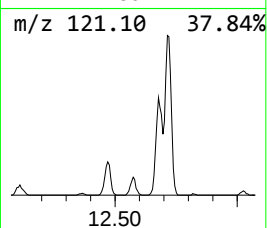
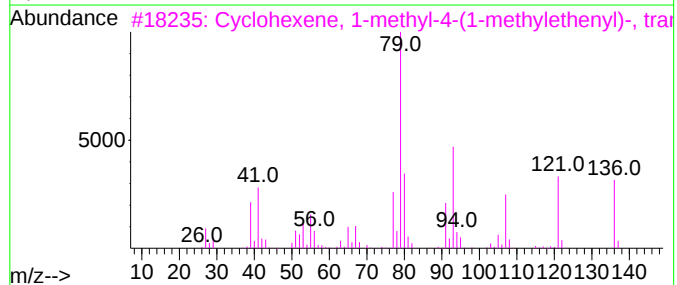
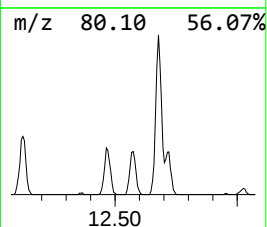
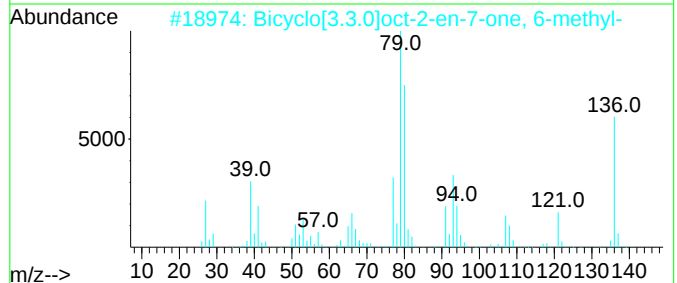
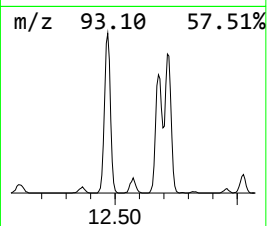
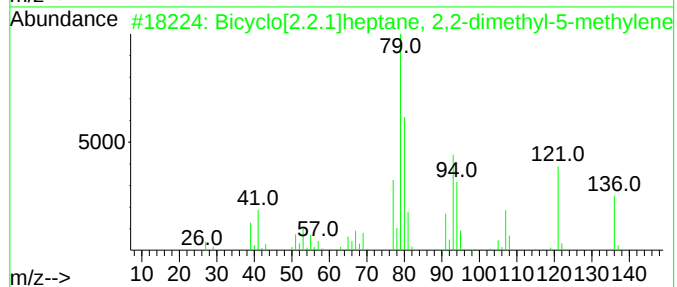
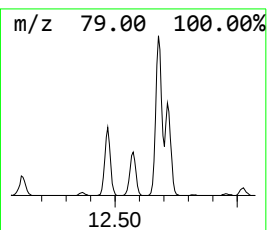
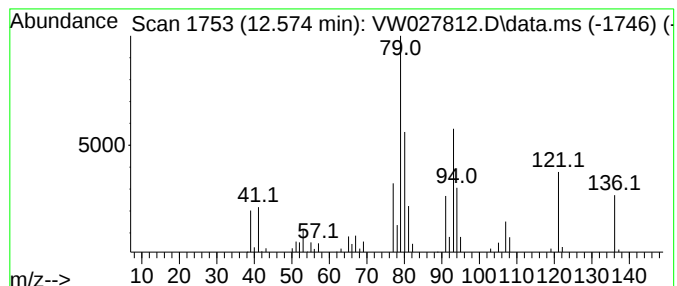
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 5

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.574 | 6.60 ug/L | 46056 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16  | 000497-32-5  | 95   |
| 2    |    |   | Bicyclo[3.3.0]oct-2-en-7-one, 6-... | 136 | C9H12O  | 1000150-43-7 | 83   |
| 3    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 006876-12-6  | 81   |
| 4    |    |   | Bicyclo[2.2.1]heptane, 7,7-dimet... | 136 | C10H16  | 000471-84-1  | 74   |
| 5    |    |   | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16  | 000497-32-5  | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

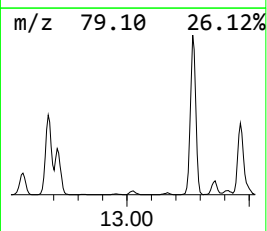
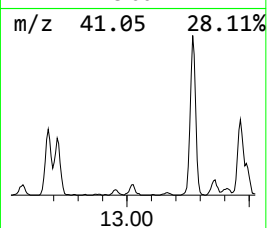
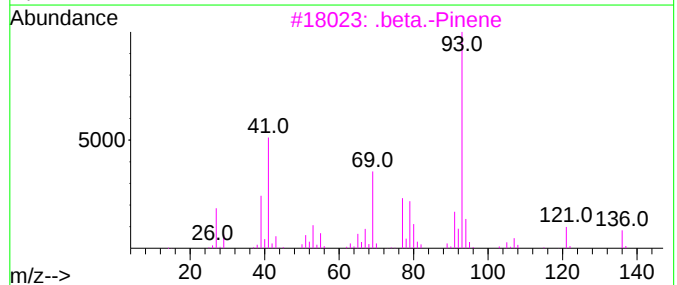
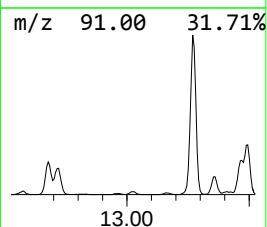
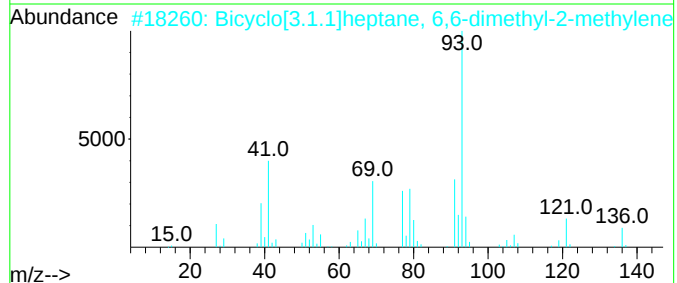
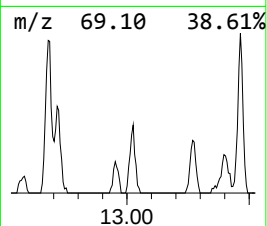
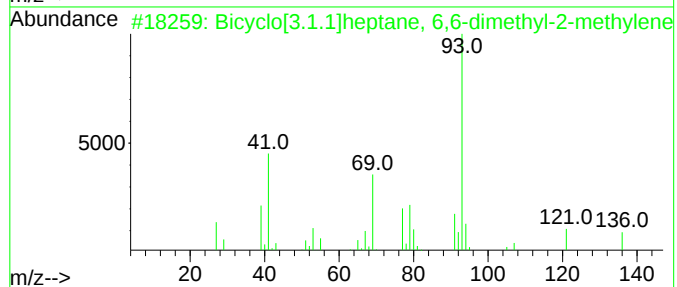
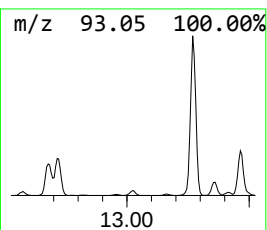
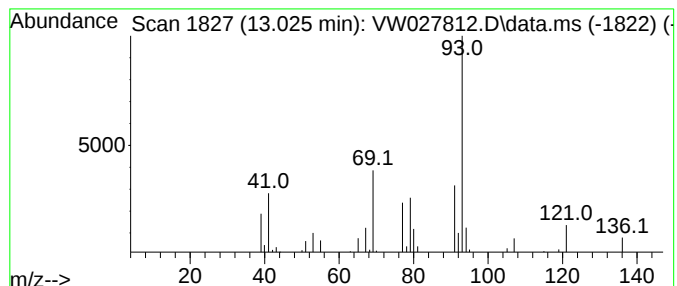
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 7 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 9

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.025 | 3.50 ug/L | 21094 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16  | 018172-67-3 | 95   |
| 2    |    |   | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16  | 018172-67-3 | 94   |
| 3    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 91   |
| 4    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 91   |
| 5    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121523SMA.M  
Quant Title : SFAM01.0

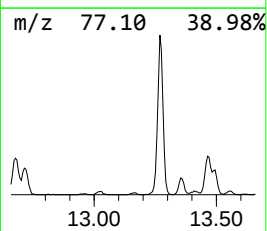
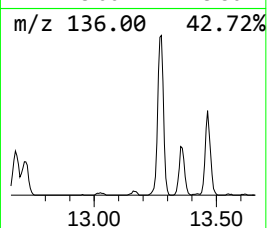
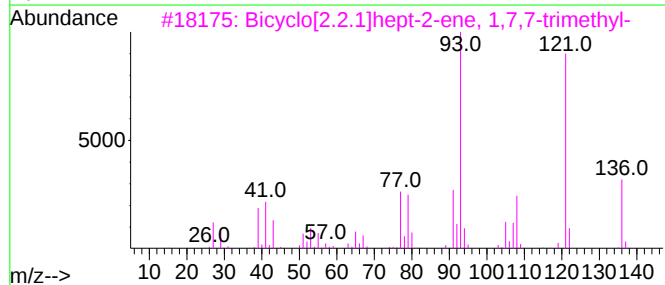
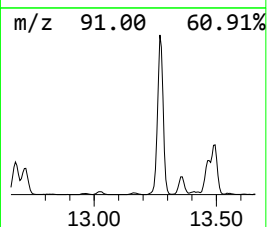
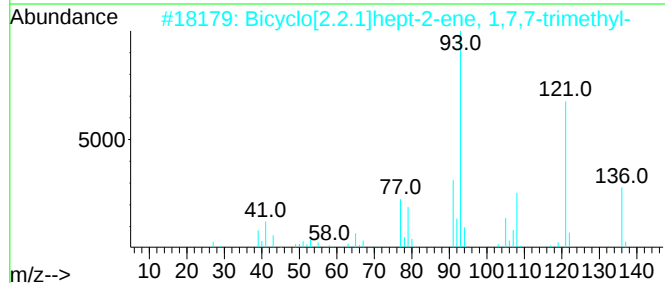
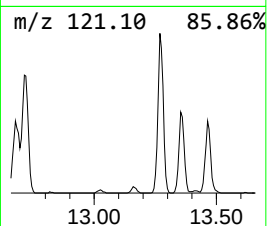
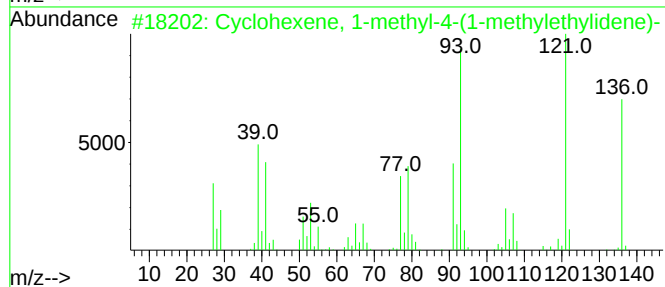
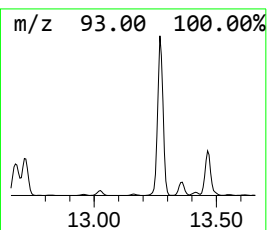
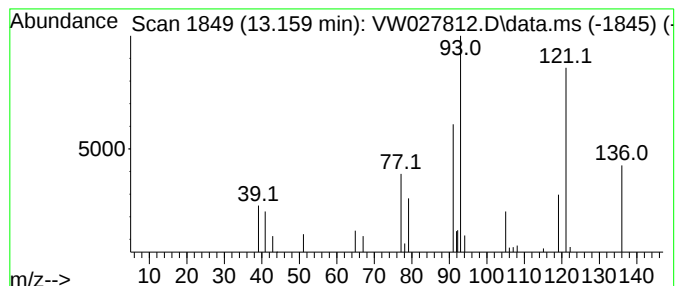
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Cyclohexene, 1-methyl-4-(1-... Concentration Rank 16

| R.T.   | EstConc   | Area | Relative to ISTD       | R.T.   |
|--------|-----------|------|------------------------|--------|
| 13.159 | 1.42 ug/L | 8548 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 80   |
| 2    |    |   | Bicyclo[2.2.1]hept-2-ene, 1,7,7-... | 136 | C10H16  | 000464-17-5 | 80   |
| 3    |    |   | Bicyclo[2.2.1]hept-2-ene, 1,7,7-... | 136 | C10H16  | 000464-17-5 | 72   |
| 4    |    |   | Cyclohexene, 3-methyl-6-(1-methy... | 136 | C10H16  | 000586-63-0 | 72   |
| 5    |    |   | 3-Carene                            | 136 | C10H16  | 013466-78-9 | 62   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

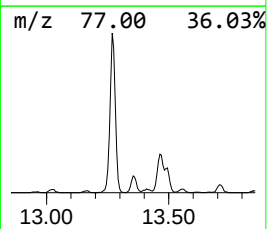
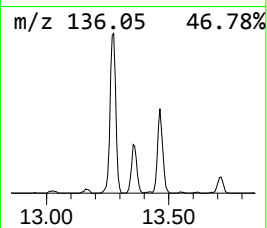
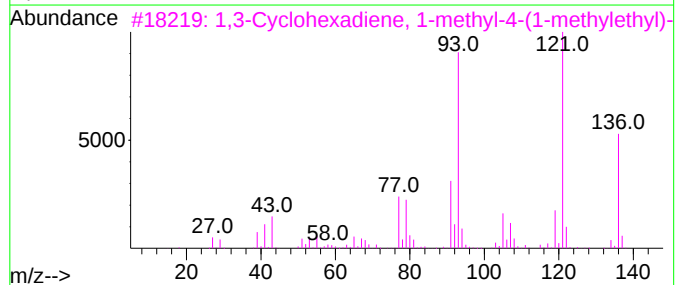
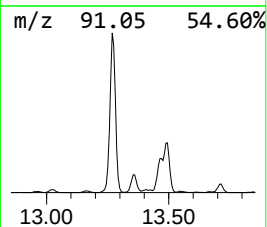
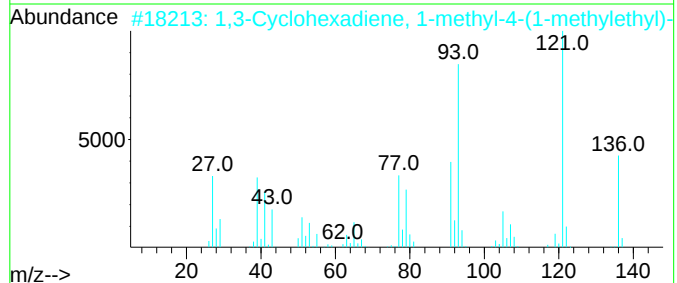
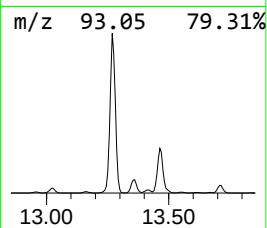
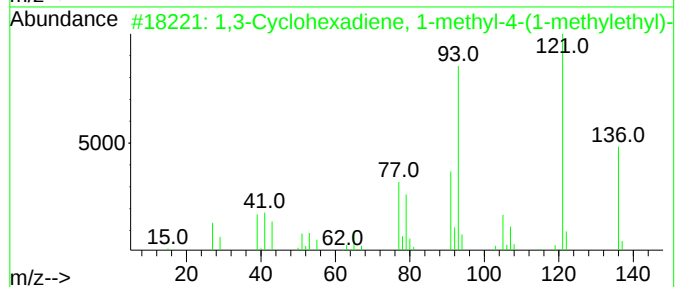
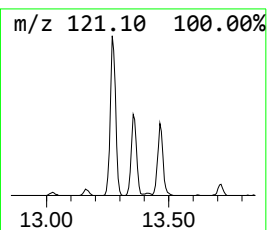
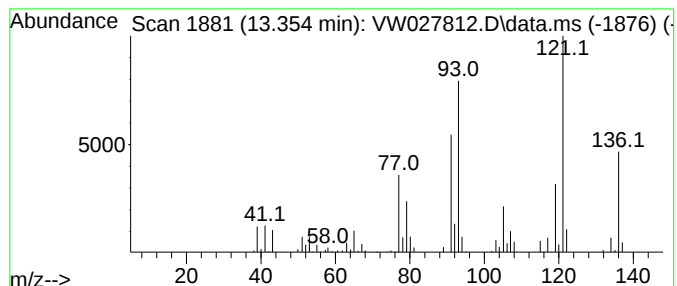
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Quant Title : SFAM01.0

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

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Peak Number 9 (+)-4-Carene Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.354 | 17.47 ug/L | 105414 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136 | C10H16  | 000099-86-5 | 98   |
| 2    |    |   | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136 | C10H16  | 000099-86-5 | 96   |
| 3    |    |   | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136 | C10H16  | 000099-86-5 | 94   |
| 4    |    |   | Bicyclo[4.1.0]hept-2-ene, 3,7,7-... | 136 | C10H16  | 004497-92-1 | 94   |
| 5    |    |   | (+)-4-Carene                        | 136 | C10H16  | 029050-33-7 | 93   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

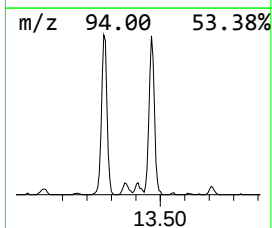
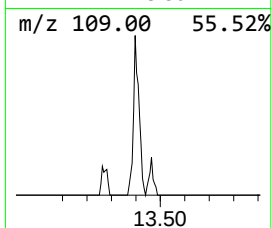
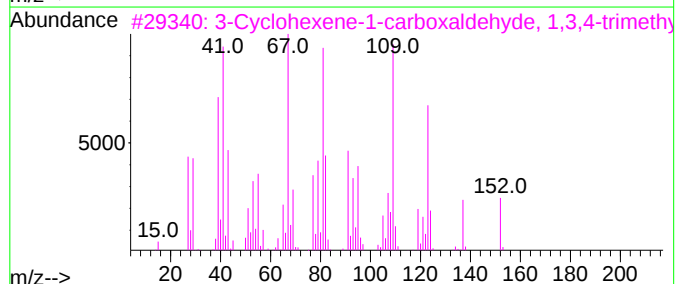
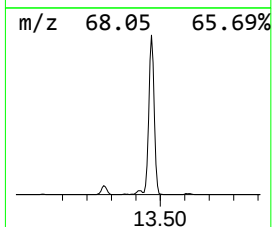
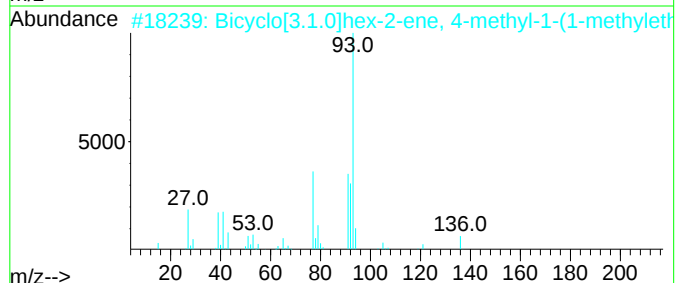
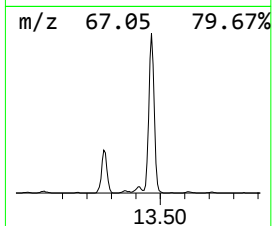
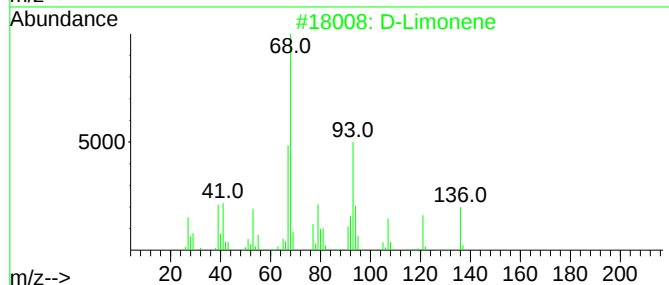
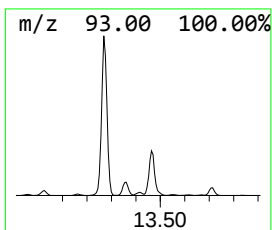
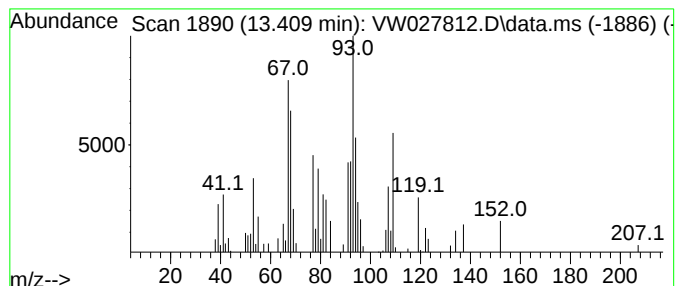
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 10 unknown-02 Concentration Rank 10

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.409 | 3.32 ug/L | 20030 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | D-Limonene                          | 136 | C10H16  | 005989-27-5 | 43   |
| 2    |    |   | Bicyclo[3.1.0]hex-2-ene, 4-methy... | 136 | C10H16  | 028634-89-1 | 27   |
| 3    |    |   | 3-Cyclohexene-1-carboxaldehyde, ... | 152 | C10H16O | 040702-26-9 | 27   |
| 4    |    |   | 5-Hexenal, 4-methylene-             | 110 | C7H10O  | 017844-21-2 | 25   |
| 5    |    |   | Cyclopentene, 3-ethylidene-1-met... | 108 | C8H12   | 062338-00-5 | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

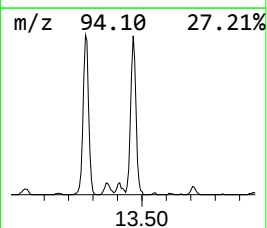
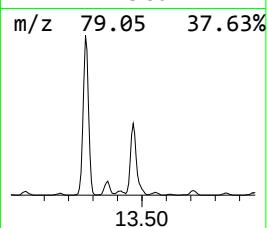
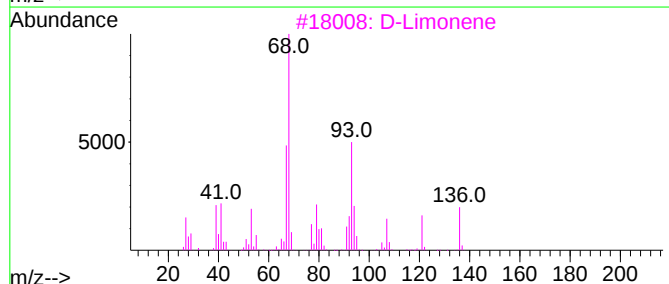
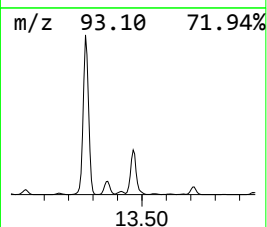
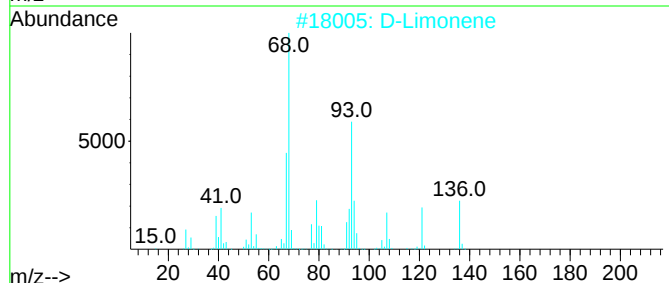
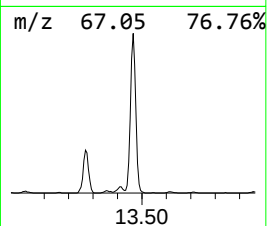
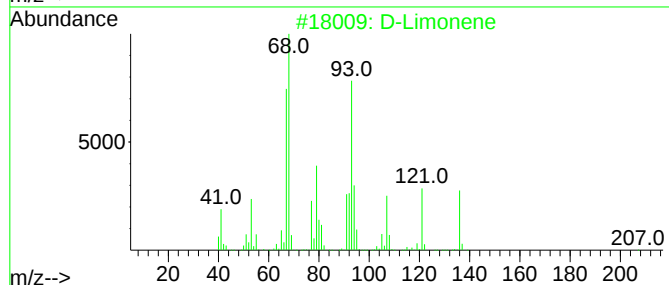
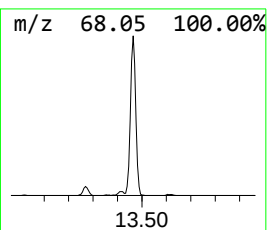
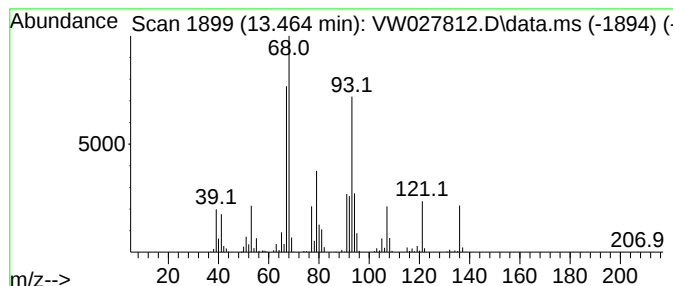
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 11 D-Limonene Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.464 | 71.84 ug/L | 433469 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of         | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------------|---|--------------|-----|---------|-------------|------|
| 1    | D-Limonene |   |              | 136 | C10H16  | 005989-27-5 | 99   |
| 2    | D-Limonene |   |              | 136 | C10H16  | 005989-27-5 | 94   |
| 3    | D-Limonene |   |              | 136 | C10H16  | 005989-27-5 | 94   |
| 4    | D-Limonene |   |              | 136 | C10H16  | 005989-27-5 | 94   |
| 5    | Limonene   |   |              | 136 | C10H16  | 000138-86-3 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

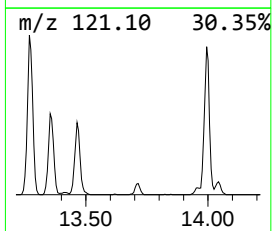
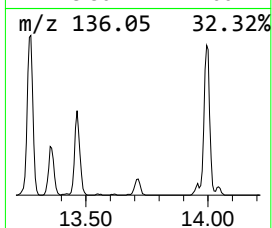
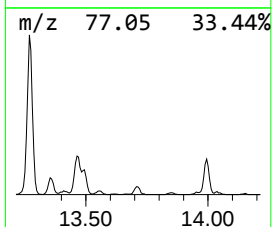
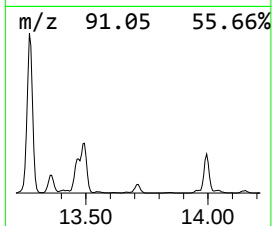
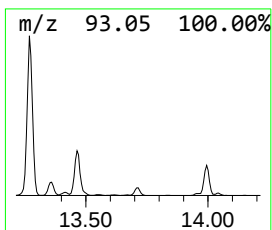
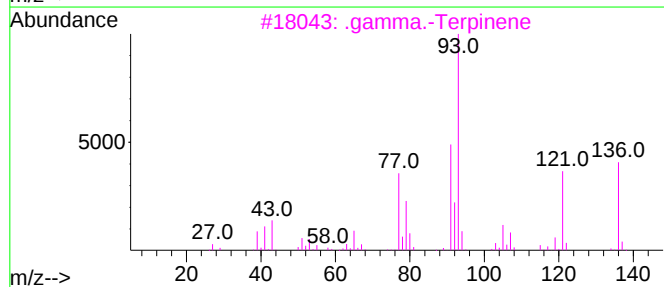
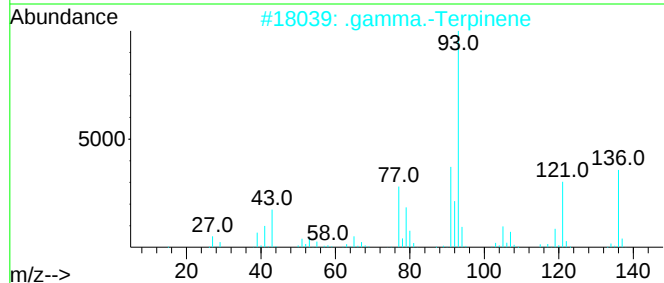
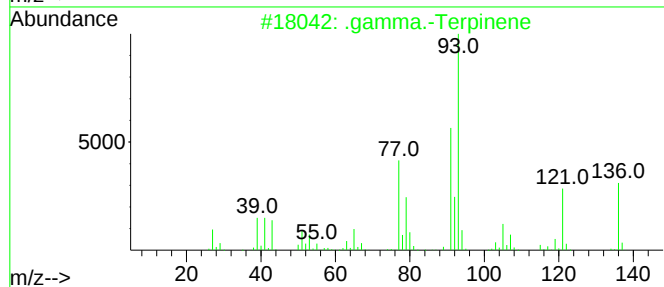
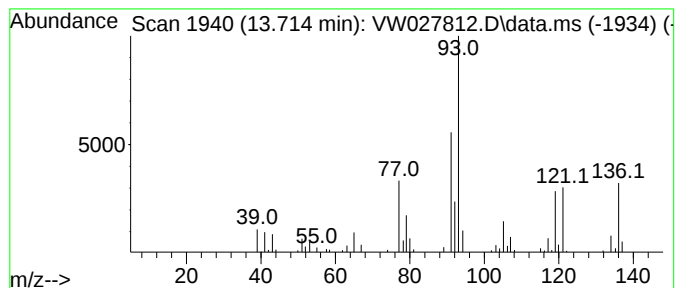
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 12 .gamma.-Terpinene Concentration Rank 6

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.714 | 6.60 ug/L | 39835 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of                      | 5                | Tentative ID | MW           | MolForm     | CAS# | Qual |
|------|-------------------------|------------------|--------------|--------------|-------------|------|------|
| 1    | .                       | gamma.-Terpinene | 136          | C10H16       | 000099-85-4 | 96   |      |
| 2    | .                       | gamma.-Terpinene | 136          | C10H16       | 000099-85-4 | 93   |      |
| 3    | .                       | gamma.-Terpinene | 136          | C10H16       | 000099-85-4 | 91   |      |
| 4    | .                       | gamma.-Terpinene | 136          | C10H16       | 000099-85-4 | 87   |      |
| 5    | Methyl m-tolyl carbinol | 136              | C9H12O       | 1010342-29-9 | 83          |      |      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

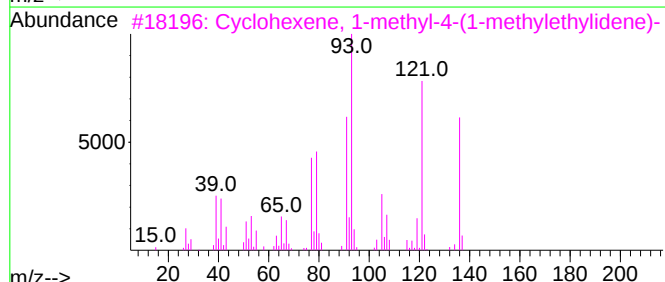
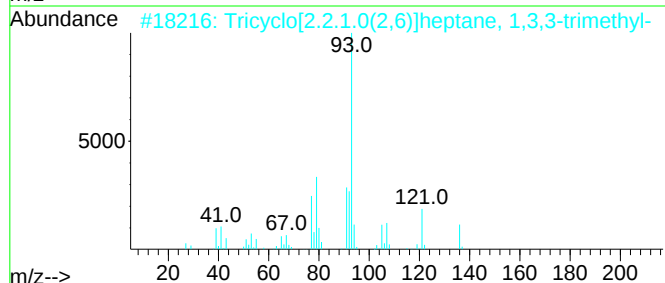
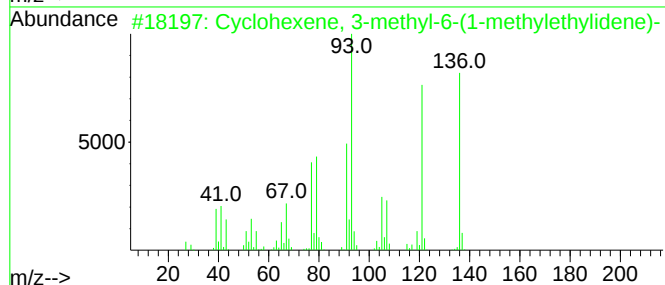
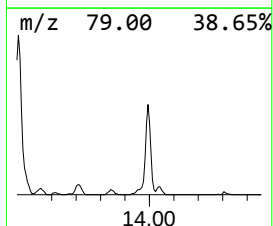
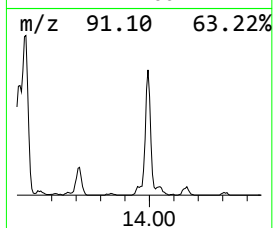
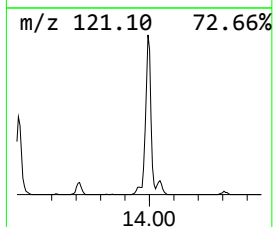
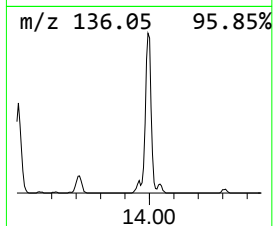
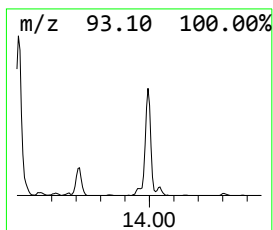
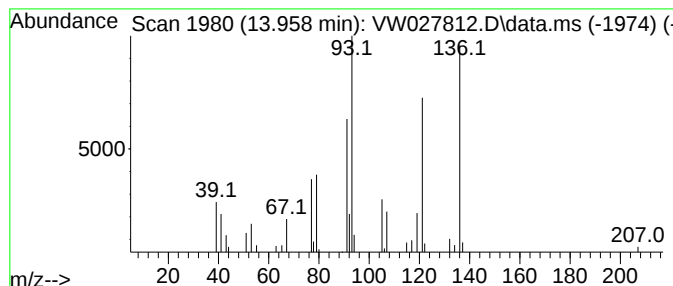
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Quant Title : SFAM01.0

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

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Peak Number 13 Cyclohexene, 3-methyl-6-(1-... Concentration Rank 13

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.958 | 2.00 ug/L | 12091 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexene, 3-methyl-6-(1-methy... | 136 | C10H16  | 000586-63-0 | 96   |
| 2    |    |   | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16  | 000488-97-1 | 91   |
| 3    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 87   |
| 4    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 81   |
| 5    |    |   | 2-Carene                            | 136 | C10H16  | 000554-61-0 | 81   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

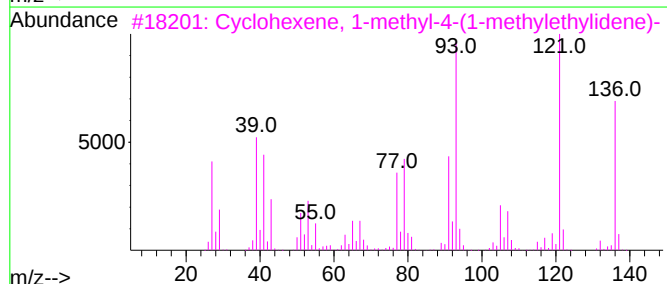
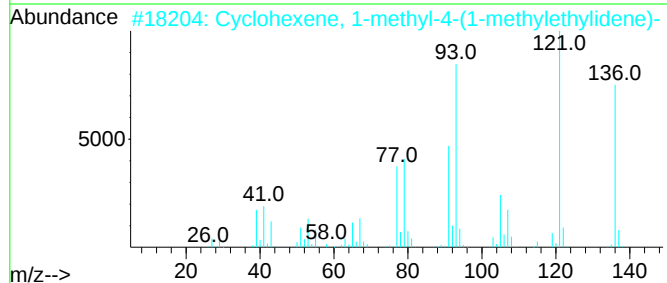
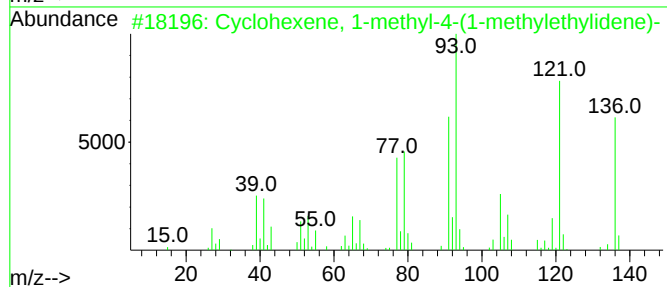
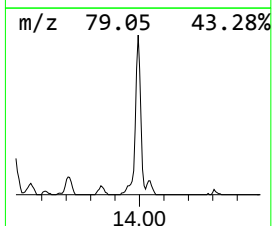
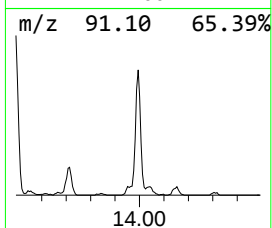
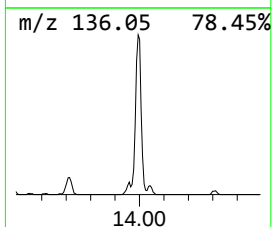
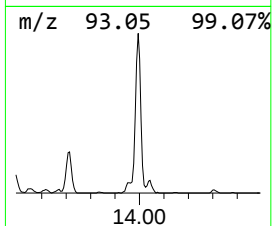
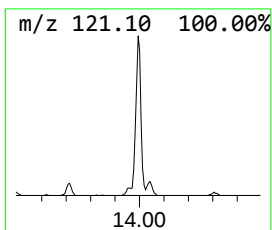
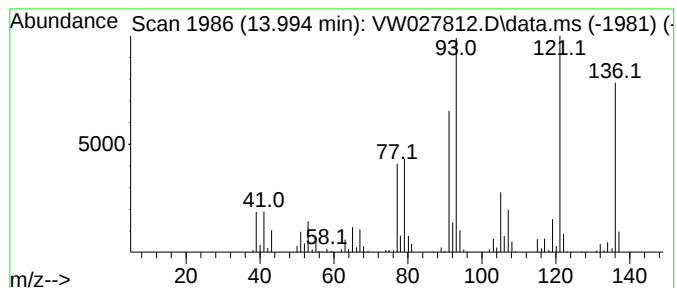
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 14 1,3-Cyclohexadiene, 1-methy... Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.994 | 36.12 ug/L | 217942 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 98   |
| 2    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 97   |
| 3    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 96   |
| 4    |    |   | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136 | C10H16  | 000099-86-5 | 96   |
| 5    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 96   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

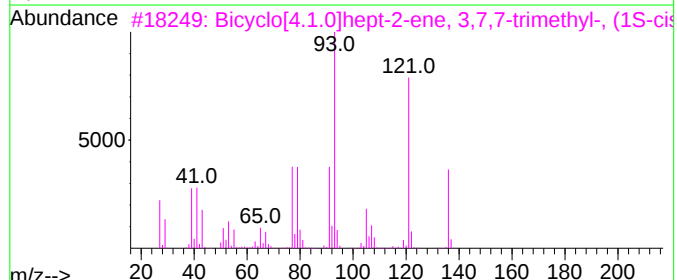
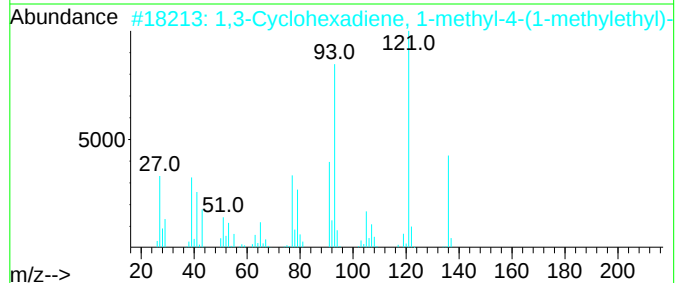
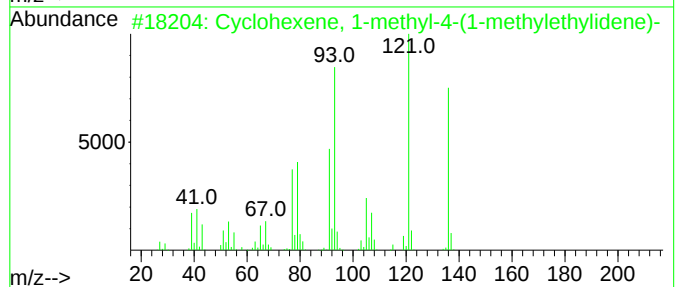
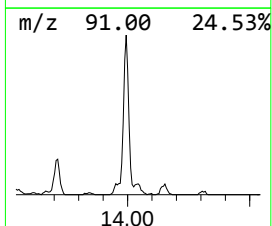
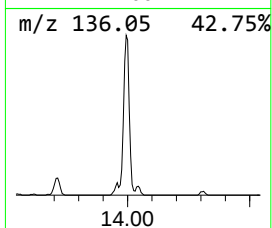
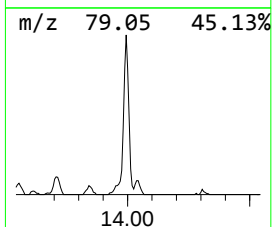
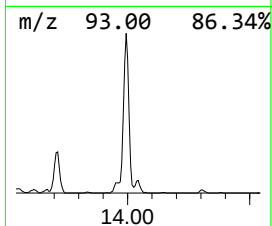
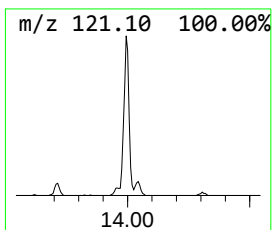
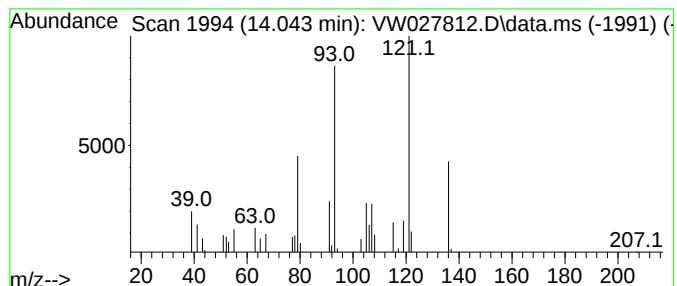
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Quant Title : SFAM01.0

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

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Peak Number 15 2-Carene Concentration Rank 11

| R.T.      | EstConc                             | Area  | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|-------|------------------------|-------------|------|
| 14.043    | 2.94 ug/L                           | 17741 | 1,4-Dichlorobenzene-d4 | 13.549      |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm                | CAS#        | Qual |
| 1         | Cyclohexene, 1-methyl-4-(1-methy... | 136   | C10H16                 | 000586-62-9 | 87   |
| 2         | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136   | C10H16                 | 000099-86-5 | 80   |
| 3         | Bicyclo[4.1.0]hept-2-ene, 3,7,7-... | 136   | C10H16                 | 004497-92-1 | 78   |
| 4         | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136   | C10H16                 | 000099-86-5 | 72   |
| 5         | 2-Carene                            | 136   | C10H16                 | 000554-61-0 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

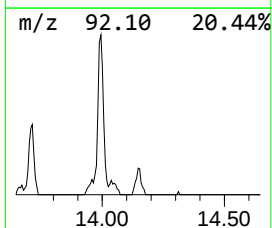
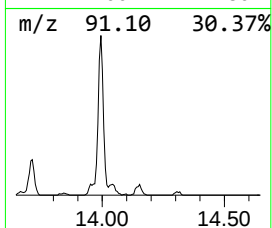
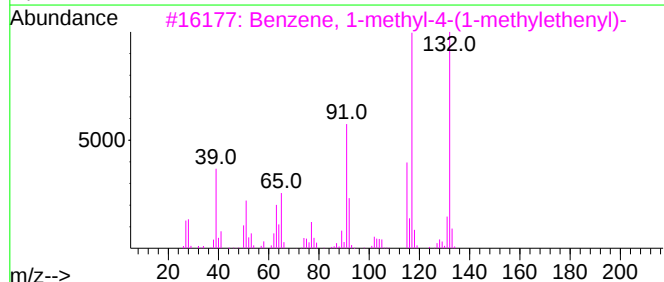
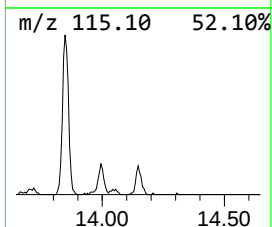
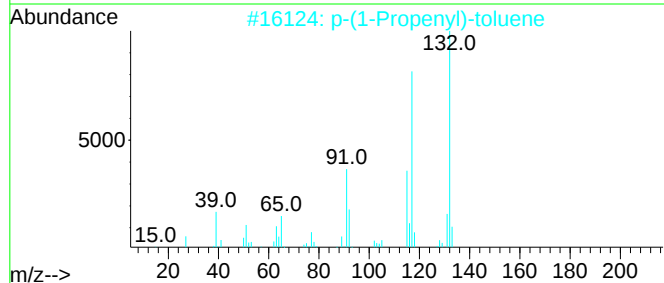
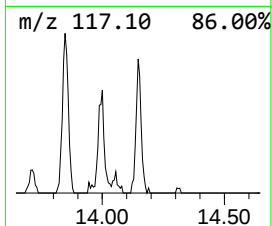
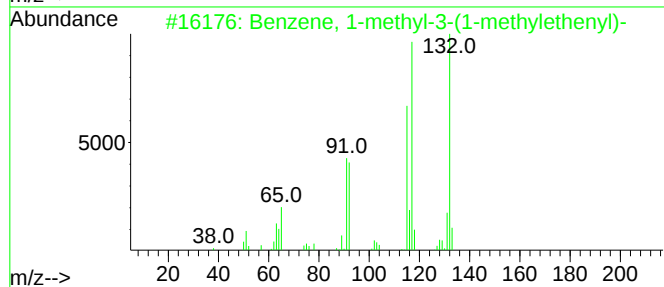
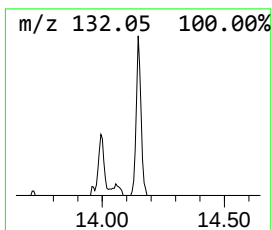
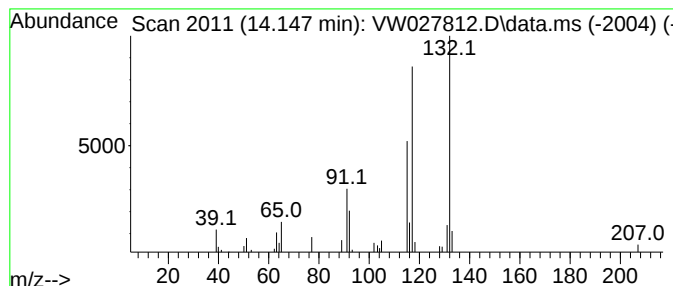
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Quant Title : SFAM01.0

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

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Peak Number 16 Benzene, 1-methyl-3-(1-meth... Concentration Rank 12

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.147 | 2.65 ug/L | 15992 | 1,4-Dichlorobenzene-d4 | 13.549 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 132 | C10H12  | 001124-20-5  | 96   |
| 2    |    |   | p-(1-Propenyl)-toluene              | 132 | C10H12  | 1000429-54-9 | 95   |
| 3    |    |   | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12  | 001195-32-0  | 87   |
| 4    |    |   | Benzene, (2-methyl-1-propenyl)-     | 132 | C10H12  | 000768-49-0  | 81   |
| 5    |    |   | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12  | 001195-32-0  | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122023\  
Data File : VW027812.D  
Acq On : 20 Dec 2023 17:03  
Operator : SY/MD  
Sample : 05835-20RE  
Misc : 3.86g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0B24RE

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121523SMA.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 |
| unknown-01         | 2.503  | 1.7     | ug/L  | 10078    | 1                     | 8.843  | 147741 | 25.0 |
| Hexanal            | 11.074 | 1.9     | ug/L  | 13451    | 2                     | 11.629 | 174355 | 25.0 |
| Bicyclo[3.3.0]o... | 12.117 | 3.8     | ug/L  | 26221    | 2                     | 11.629 | 174355 | 25.0 |
| .alpha.-Pinene     | 12.470 | 27.9    | ug/L  | 194607   | 2                     | 11.629 | 174355 | 25.0 |
| Bicyclo[2.2.1]h... | 12.574 | 6.6     | ug/L  | 46056    | 2                     | 11.629 | 174355 | 25.0 |
| Bicyclo[3.1.1]h... | 13.025 | 3.5     | ug/L  | 21094    | 3                     | 13.549 | 150845 | 25.0 |
| Cyclohexene, 1-... | 13.159 | 1.4     | ug/L  | 8548     | 3                     | 13.549 | 150845 | 25.0 |
| (+)-4-Carene       | 13.354 | 17.5    | ug/L  | 105414   | 3                     | 13.549 | 150845 | 25.0 |
| unknown-02         | 13.409 | 3.3     | ug/L  | 20030    | 3                     | 13.549 | 150845 | 25.0 |
| D-Limonene         | 13.464 | 71.8    | ug/L  | 433469   | 3                     | 13.549 | 150845 | 25.0 |
| .gamma.-Terpinene  | 13.714 | 6.6     | ug/L  | 39835    | 3                     | 13.549 | 150845 | 25.0 |
| Cyclohexene, 3-... | 13.958 | 2.0     | ug/L  | 12091    | 3                     | 13.549 | 150845 | 25.0 |
| 1,3-Cyclohexadi... | 13.994 | 36.1    | ug/L  | 217942   | 3                     | 13.549 | 150845 | 25.0 |
| 2-Carene           | 14.043 | 2.9     | ug/L  | 17741    | 3                     | 13.549 | 150845 | 25.0 |
| Benzene, 1-meth... | 14.147 | 2.6     | ug/L  | 15992    | 3                     | 13.549 | 150845 | 25.0 |