

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
 Data File : VW018803.D  
 Acq On : 27 Apr 2021 15:09  
 Operator : SY/VA  
 Sample : M2177-04  
 Misc : 5.40G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG581

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\SFAMWLM041421SMA.M  
 Title : SFAM01.0

Signal : TIC: VW018803.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         | 2.160       | 36            | 42          | 58           | rBV      | 18607          | 50232         | 7.94%           | 0.457%        |
| 2         | 2.355       | 66            | 74          | 80           | rBV      | 38423          | 65904         | 10.42%          | 0.600%        |
| 3         | 2.495       | 93            | 97          | 102          | rBV      | 4915           | 8086          | 1.28%           | 0.074%        |
| 4         | 2.623       | 115           | 118         | 125          | rVB8     | 2767           | 4746          | 0.75%           | 0.043%        |
| 5         | 2.892       | 153           | 162         | 174          | rBV2     | 33430          | 83918         | 13.27%          | 0.764%        |
| 6         | 3.398       | 237           | 245         | 252          | rVB6     | 1234           | 3076          | 0.49%           | 0.028%        |
| 7         | 3.526       | 262           | 266         | 270          | rBV3     | 691            | 1146          | 0.18%           | 0.010%        |
| 8         | 4.019       | 334           | 347         | 358          | rBV2     | 62626          | 165076        | 26.11%          | 1.502%        |
| 9         | 4.123       | 358           | 364         | 373          | rVV2     | 5301           | 13909         | 2.20%           | 0.127%        |
| 10        | 4.208       | 373           | 378         | 381          | rVV5     | 548            | 797           | 0.13%           | 0.007%        |
| 11        | 4.385       | 397           | 407         | 419          | rBV3     | 8827           | 25510         | 4.03%           | 0.232%        |
| 12        | 4.684       | 452           | 456         | 459          | rVB3     | 600            | 821           | 0.13%           | 0.007%        |
| 13        | 4.916       | 482           | 494         | 512          | rVV2     | 26263          | 89213         | 14.11%          | 0.812%        |
| 14        | 5.153       | 531           | 533         | 538          | rVV4     | 677            | 1152          | 0.18%           | 0.010%        |
| 15        | 5.440       | 570           | 580         | 589          | rBV3     | 3261           | 10744         | 1.70%           | 0.098%        |
| 16        | 5.787       | 632           | 637         | 638          | rVV3     | 1232           | 2244          | 0.35%           | 0.020%        |
| 17        | 5.800       | 638           | 639         | 647          | rVV4     | 1374           | 1901          | 0.30%           | 0.017%        |
| 18        | 5.946       | 654           | 663         | 671          | rBV5     | 5178           | 15554         | 2.46%           | 0.142%        |
| 19        | 6.909       | 810           | 821         | 825          | rBV7     | 1811           | 6020          | 0.95%           | 0.055%        |
| 20        | 6.982       | 827           | 833         | 834          | rBV2     | 3614           | 5901          | 0.93%           | 0.054%        |
| 21        | 7.080       | 841           | 849         | 854          | rBV      | 21371          | 57580         | 9.11%           | 0.524%        |
| 22        | 7.135       | 854           | 858         | 875          | rVV      | 19941          | 56540         | 8.94%           | 0.514%        |
| 23        | 7.250       | 875           | 877         | 881          | rVB4     | 684            | 923           | 0.15%           | 0.008%        |
| 24        | 7.561       | 925           | 928         | 931          | rVB3     | 626            | 871           | 0.14%           | 0.008%        |
| 25        | 7.653       | 931           | 943         | 956          | rBV      | 119599         | 301822        | 47.73%          | 2.746%        |
| 26        | 7.958       | 984           | 993         | 1001         | rVV3     | 14220          | 34501         | 5.46%           | 0.314%        |
| 27        | 8.031       | 1001          | 1005        | 1013         | rVB6     | 3468           | 8170          | 1.29%           | 0.074%        |
| 28        | 8.159       | 1020          | 1026        | 1030         | rBV5     | 1682           | 3453          | 0.55%           | 0.031%        |
| 29        | 8.281       | 1030          | 1046        | 1061         | rVV2     | 199379         | 632353        | 100.00%         | 5.754%        |
| 30        | 8.409       | 1061          | 1067        | 1068         | rVV3     | 2093           | 2626          | 0.42%           | 0.024%        |
| 31        | 8.433       | 1068          | 1071        | 1079         | rVV9     | 3483           | 7787          | 1.23%           | 0.071%        |
| 32        | 8.506       | 1079          | 1083        | 1088         | rVV5     | 2816           | 5150          | 0.81%           | 0.047%        |
| 33        | 8.573       | 1088          | 1094        | 1102         | rVB4     | 5282           | 13112         | 2.07%           | 0.119%        |
| 34        | 8.720       | 1111          | 1118        | 1122         | rBV7     | 747            | 1640          | 0.26%           | 0.015%        |
| 35        | 8.842       | 1130          | 1138        | 1150         | rBV      | 278109         | 559070        | 88.41%          | 5.087%        |
| 36        | 9.031       | 1162          | 1169        | 1172         | rBV5     | 3793           | 6930          | 1.10%           | 0.063%        |

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 ALS Vial : 9 Sample Multiplier: 1

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 MSVOA\_W  
 ClientSampleId :  
 BG581

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\SFAMWLM041421SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 9.079  | 1174 | 1177 | 1185 | rVB5 | 3799   | 6069   | 0.96%  | 0.055% |
| 38 | 9.153  | 1188 | 1189 | 1195 | rVB5 | 908    | 1063   | 0.17%  | 0.010% |
| 39 | 9.275  | 1200 | 1209 | 1215 | rBV  | 154151 | 329183 | 52.06% | 2.995% |
| 40 | 9.335  | 1215 | 1219 | 1225 | rVB2 | 27979  | 54838  | 8.67%  | 0.499% |
| 41 | 9.518  | 1244 | 1249 | 1253 | rBV6 | 2185   | 3951   | 0.62%  | 0.036% |
| 42 | 9.610  | 1257 | 1264 | 1271 | rBV5 | 4377   | 8774   | 1.39%  | 0.080% |
| 43 | 9.744  | 1282 | 1286 | 1287 | rBV2 | 4119   | 4152   | 0.66%  | 0.038% |
| 44 | 9.841  | 1298 | 1302 | 1304 | rVV4 | 2171   | 3023   | 0.48%  | 0.028% |
| 45 | 9.890  | 1307 | 1310 | 1316 | rVV4 | 3143   | 5735   | 0.91%  | 0.052% |
| 46 | 9.939  | 1316 | 1318 | 1320 | rVV3 | 1258   | 1012   | 0.16%  | 0.009% |
| 47 | 10.037 | 1327 | 1334 | 1341 | rBV  | 70056  | 126345 | 19.98% | 1.150% |
| 48 | 10.134 | 1346 | 1350 | 1354 | rVB6 | 2317   | 3609   | 0.57%  | 0.033% |
| 49 | 10.213 | 1357 | 1363 | 1366 | rBV5 | 4746   | 9705   | 1.53%  | 0.088% |
| 50 | 10.323 | 1374 | 1381 | 1391 | rBV  | 255737 | 465605 | 73.63% | 4.237% |
| 51 | 10.451 | 1400 | 1402 | 1404 | rVV3 | 1401   | 1303   | 0.21%  | 0.012% |
| 52 | 10.500 | 1404 | 1410 | 1416 | rVB9 | 6969   | 17166  | 2.71%  | 0.156% |
| 53 | 10.579 | 1417 | 1423 | 1433 | rVV  | 40489  | 73956  | 11.70% | 0.673% |
| 54 | 10.658 | 1433 | 1436 | 1440 | rVV5 | 6111   | 11104  | 1.76%  | 0.101% |
| 55 | 10.707 | 1440 | 1444 | 1449 | rVB  | 15785  | 26321  | 4.16%  | 0.239% |
| 56 | 10.756 | 1449 | 1452 | 1457 | rBV6 | 4700   | 7594   | 1.20%  | 0.069% |
| 57 | 10.847 | 1464 | 1467 | 1473 | rBV6 | 3588   | 7002   | 1.11%  | 0.064% |
| 58 | 10.927 | 1473 | 1480 | 1491 | rBV2 | 91646  | 171651 | 27.14% | 1.562% |
| 59 | 11.036 | 1493 | 1498 | 1501 | rBV2 | 8930   | 16813  | 2.66%  | 0.153% |
| 60 | 11.103 | 1507 | 1509 | 1512 | rBV4 | 4048   | 4356   | 0.69%  | 0.040% |
| 61 | 11.177 | 1517 | 1521 | 1525 | rVV  | 12313  | 17131  | 2.71%  | 0.156% |
| 62 | 11.231 | 1525 | 1530 | 1535 | rVB  | 25087  | 42142  | 6.66%  | 0.383% |
| 63 | 11.286 | 1536 | 1539 | 1542 | rVB4 | 6449   | 6422   | 1.02%  | 0.058% |
| 64 | 11.341 | 1543 | 1548 | 1552 | rBV5 | 12809  | 21487  | 3.40%  | 0.196% |
| 65 | 11.433 | 1559 | 1563 | 1570 | rBV5 | 20176  | 44980  | 7.11%  | 0.409% |
| 66 | 11.634 | 1589 | 1596 | 1607 | rVB  | 340072 | 594115 | 93.95% | 5.406% |
| 67 | 11.762 | 1615 | 1617 | 1621 | rVB5 | 6413   | 7399   | 1.17%  | 0.067% |
| 68 | 11.817 | 1621 | 1626 | 1630 | rBV5 | 14293  | 28023  | 4.43%  | 0.255% |
| 69 | 11.872 | 1631 | 1635 | 1640 | rBV  | 26882  | 46792  | 7.40%  | 0.426% |
| 70 | 11.975 | 1648 | 1652 | 1655 | rBV6 | 8944   | 16512  | 2.61%  | 0.150% |
| 71 | 12.134 | 1671 | 1678 | 1690 | rBV8 | 42280  | 161583 | 25.55% | 1.470% |
| 72 | 12.250 | 1691 | 1697 | 1702 | rVB  | 92554  | 157848 | 24.96% | 1.436% |
| 73 | 12.359 | 1702 | 1715 | 1723 | rBV4 | 93213  | 345030 | 54.56% | 3.139% |
| 74 | 12.457 | 1727 | 1731 | 1733 | rBV4 | 17520  | 28943  | 4.58%  | 0.263% |
| 75 | 12.615 | 1751 | 1757 | 1762 | rBV7 | 44627  | 100507 | 15.89% | 0.915% |
| 76 | 12.695 | 1763 | 1770 | 1776 | rBV  | 164655 | 317360 | 50.19% | 2.888% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG581

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\SFAMWLM041421SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 12.780 | 1780 | 1784 | 1790 | rVB2 | 91427  | 168631 | 26.67% | 1.534% |
| 78  | 12.865 | 1791 | 1798 | 1801 | rBV4 | 74144  | 161773 | 25.58% | 1.472% |
| 79  | 12.938 | 1803 | 1810 | 1815 | rBV6 | 105730 | 280466 | 44.35% | 2.552% |
| 80  | 13.079 | 1829 | 1833 | 1836 | rBV2 | 77774  | 135932 | 21.50% | 1.237% |
| 81  | 13.292 | 1864 | 1868 | 1872 | rBV  | 171186 | 232680 | 36.80% | 2.117% |
| 82  | 13.341 | 1872 | 1876 | 1880 | rBV  | 119510 | 168672 | 26.67% | 1.535% |
| 83  | 13.445 | 1885 | 1893 | 1897 | rBV6 | 194030 | 413849 | 65.45% | 3.766% |
| 84  | 13.481 | 1897 | 1899 | 1905 | rVB4 | 95040  | 136415 | 21.57% | 1.241% |
| 85  | 13.554 | 1906 | 1911 | 1915 | rBV  | 219213 | 390210 | 61.71% | 3.551% |
| 86  | 13.694 | 1929 | 1934 | 1939 | rBV6 | 84618  | 195360 | 30.89% | 1.778% |
| 87  | 13.853 | 1955 | 1960 | 1961 | rBV  | 200522 | 257207 | 40.67% | 2.340% |
| 88  | 13.920 | 1968 | 1971 | 1977 | rBV4 | 83642  | 147981 | 23.40% | 1.346% |
| 89  | 13.975 | 1978 | 1980 | 1984 | rVB3 | 75584  | 96752  | 15.30% | 0.880% |
| 90  | 14.042 | 1989 | 1991 | 1992 | rBV2 | 50856  | 46190  | 7.30%  | 0.420% |
| 91  | 14.194 | 2012 | 2016 | 2021 | rBV4 | 154749 | 255898 | 40.47% | 2.328% |
| 92  | 14.261 | 2022 | 2027 | 2032 | rVB5 | 160364 | 273720 | 43.29% | 2.491% |
| 93  | 14.316 | 2033 | 2036 | 2041 | rBV4 | 60916  | 108405 | 17.14% | 0.986% |
| 94  | 14.383 | 2042 | 2047 | 2051 | rBV3 | 268782 | 465062 | 73.54% | 4.232% |
| 95  | 14.542 | 2068 | 2073 | 2080 | rVB6 | 99148  | 195541 | 30.92% | 1.779% |
| 96  | 14.737 | 2101 | 2105 | 2109 | rBV3 | 67736  | 110348 | 17.45% | 1.004% |
| 97  | 14.792 | 2110 | 2114 | 2120 | rBV5 | 154306 | 314635 | 49.76% | 2.863% |
| 98  | 15.060 | 2155 | 2158 | 2164 | rVB3 | 82498  | 133395 | 21.10% | 1.214% |
| 99  | 15.322 | 2197 | 2201 | 2208 | rBV  | 262065 | 426081 | 67.38% | 3.877% |
| 100 | 16.279 | 2354 | 2358 | 2366 | rVB  | 172900 | 329952 | 52.18% | 3.002% |

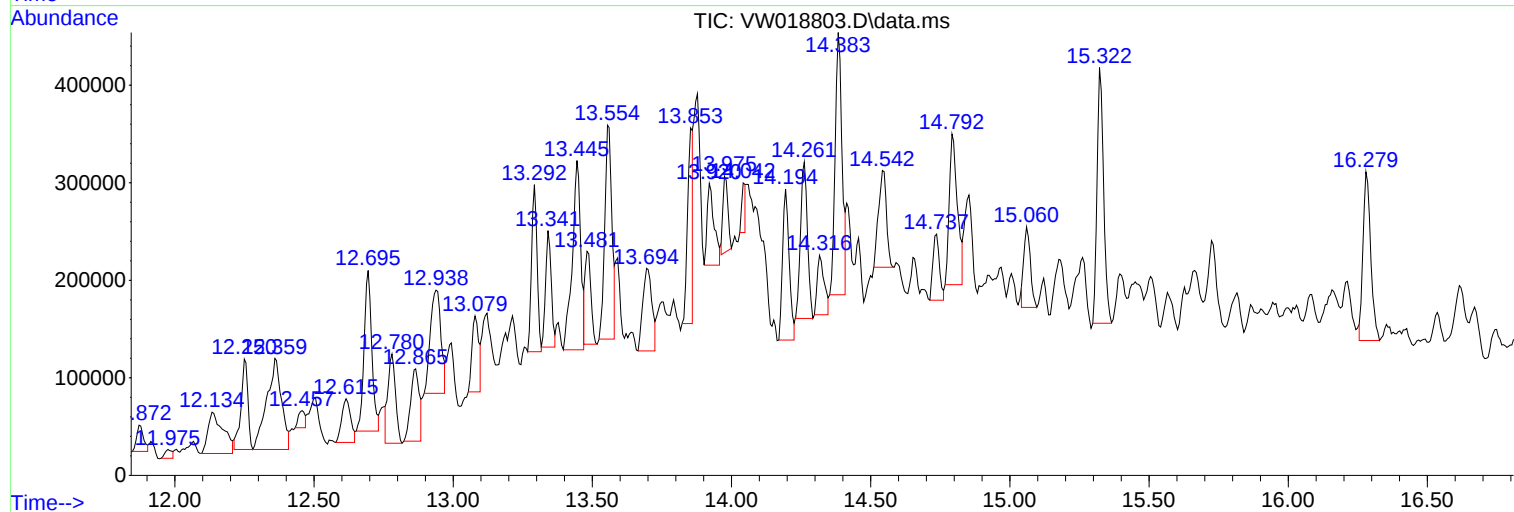
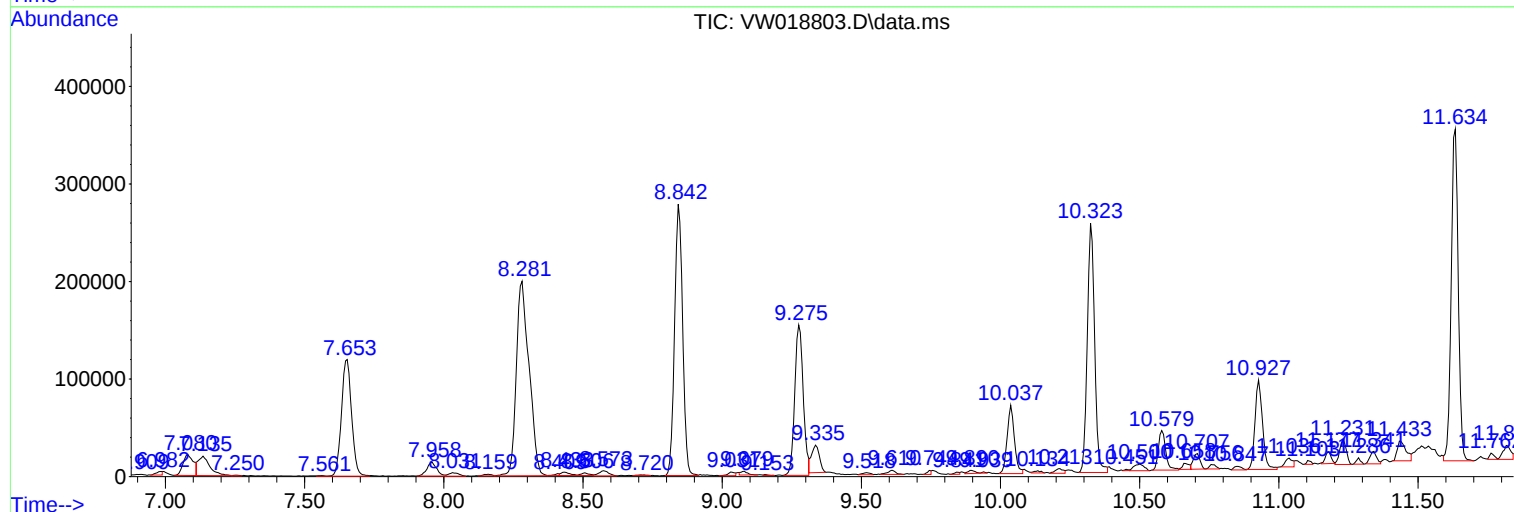
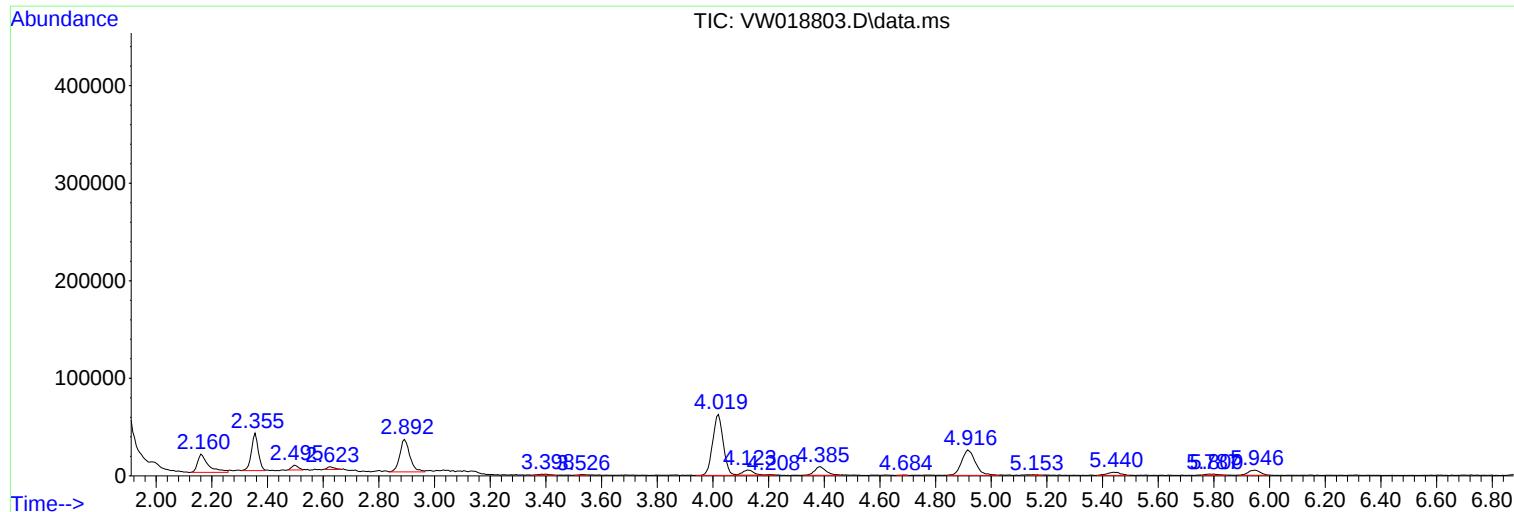
Sum of corrected areas: 10990237

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Instrument :  
MSVOA\_W  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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



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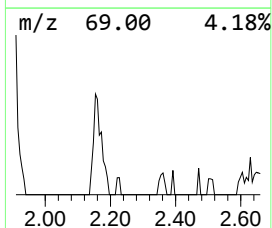
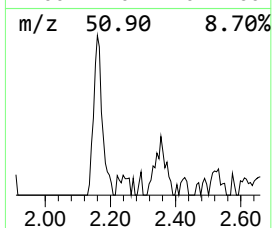
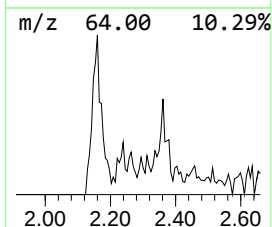
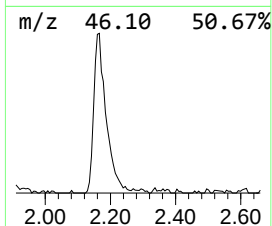
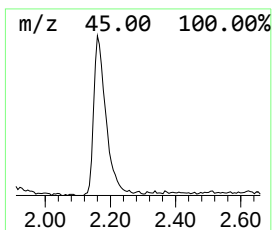
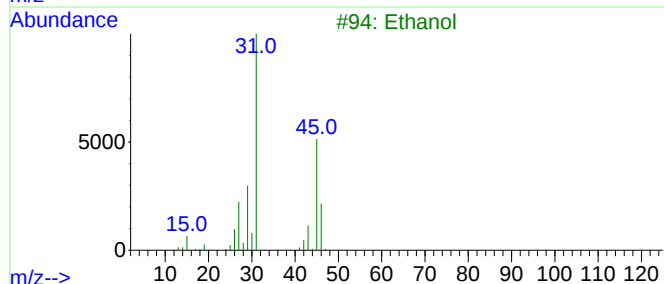
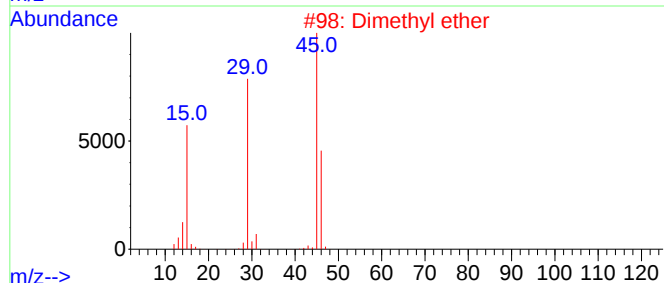
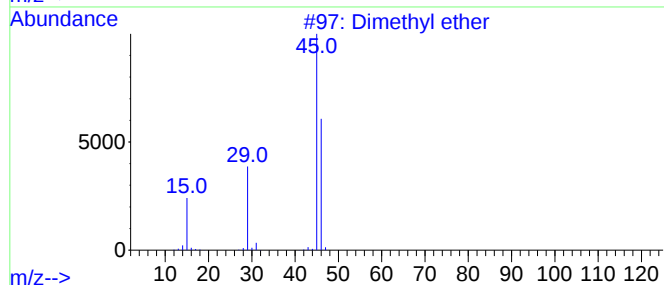
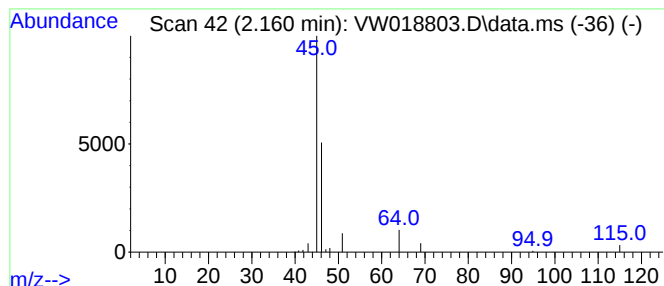
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 1 Dimethyl ether Concentration Rank 26

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.160 | 2.25 ug/L | 50232 | 1,4-Difluorobenzene | 8.842 |

| Hit# | of | 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------------|----|---------|-------------|------|
| 1    |    |   | Dimethyl ether     | 46 | C2H6O   | 000115-10-6 | 9    |
| 2    |    |   | Dimethyl ether     | 46 | C2H6O   | 000115-10-6 | 9    |
| 3    |    |   | Ethanol            | 46 | C2H6O   | 000064-17-5 | 7    |
| 4    |    |   | Ethanol            | 46 | C2H6O   | 000064-17-5 | 7    |
| 5    |    |   | Hydrazine, methyl- | 46 | CH6N2   | 000060-34-4 | 7    |



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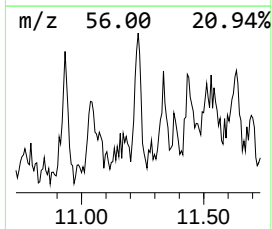
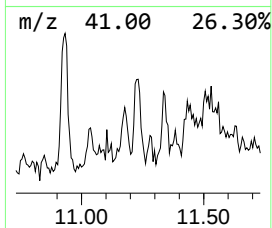
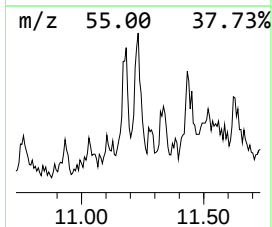
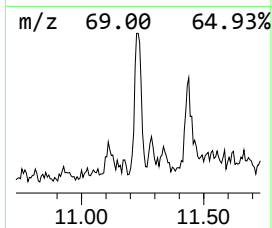
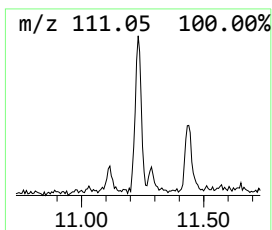
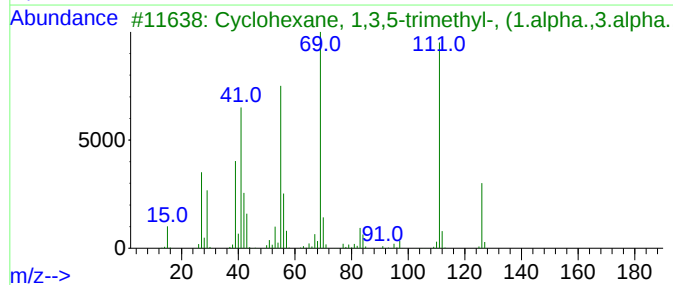
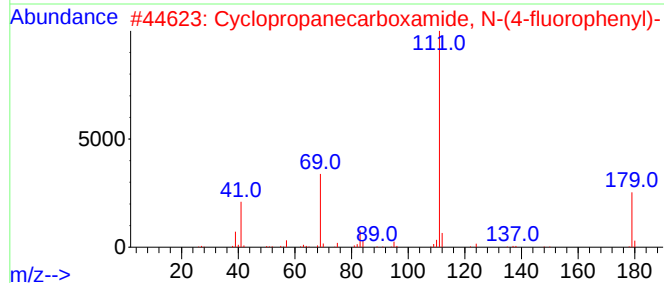
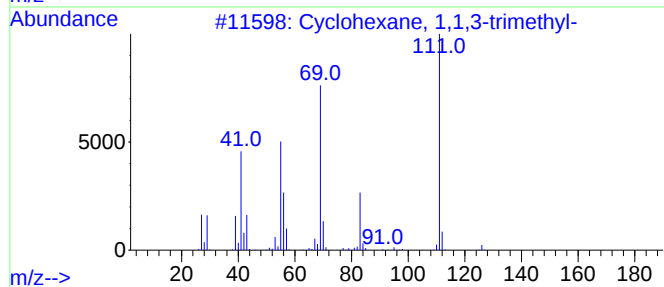
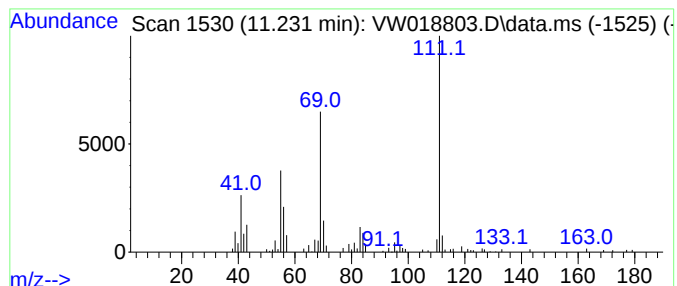
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Cyclic11.232 Concentration Rank 29

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.232 | 1.77 ug/L | 42142 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18     | 003073-66-3  | 74   |
| 2    |    |   | Cyclopropanecarboxamide, N-(4-fl...  | 179 | C10H10FNO | 1000307-18-5 | 72   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-, (...) | 126 | C9H18     | 001795-26-2  | 64   |
| 4    |    |   | 1-Cyclohexanone, 3-butyl-3-methyl-   | 168 | C11H20O   | 051756-29-7  | 59   |
| 5    |    |   | Acetanilide, 4'-fluoro-              | 153 | C8H8FNO   | 000351-83-7  | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

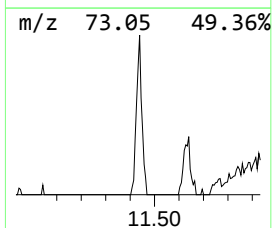
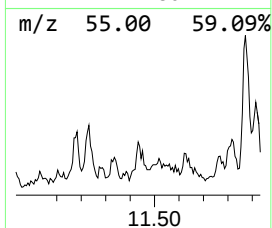
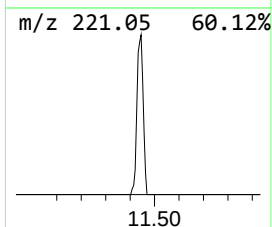
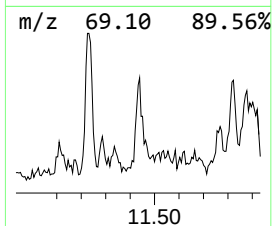
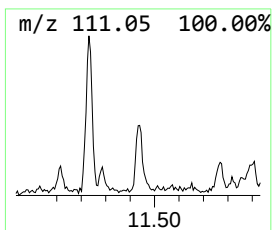
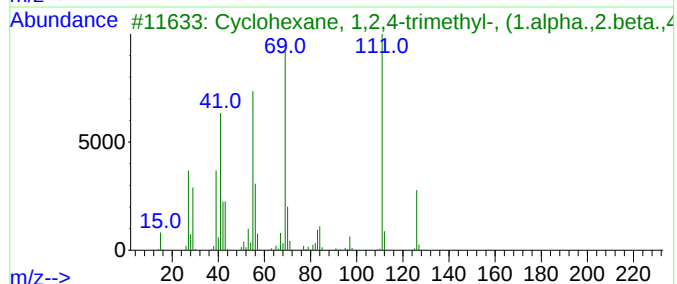
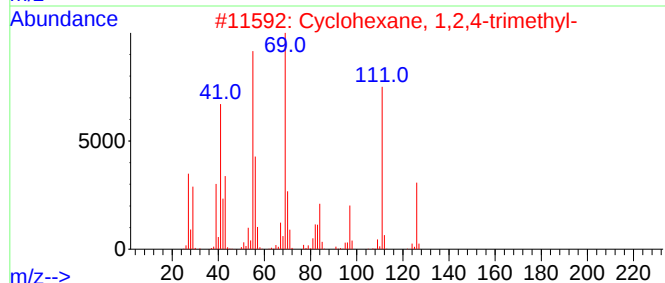
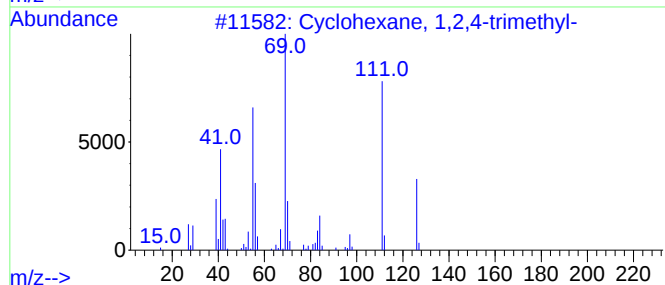
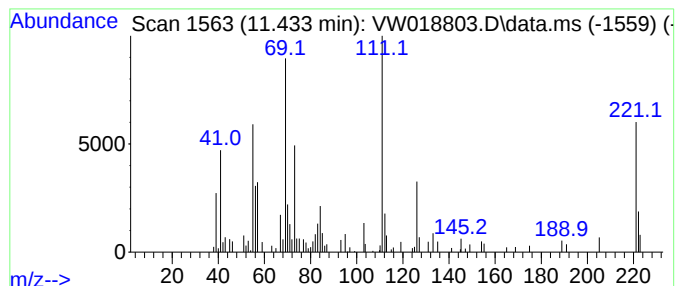
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Cyclic11.433 Concentration Rank 28

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.433 | 1.89 ug/L | 44980 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 68   |
| 2    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 64   |
| 3    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 58   |
| 4    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 58   |
| 5    |    |   | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18   | 003073-66-3 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

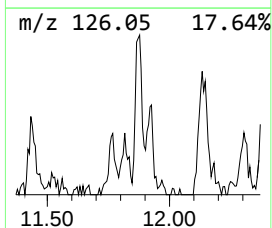
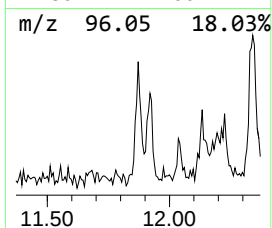
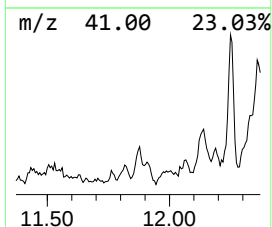
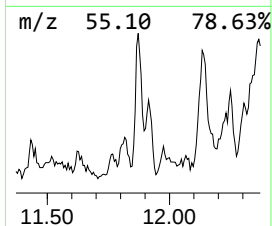
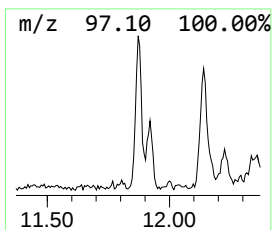
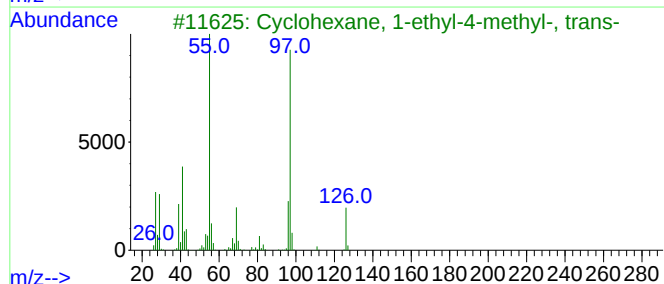
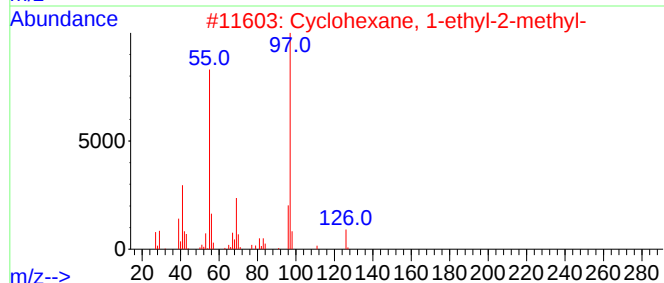
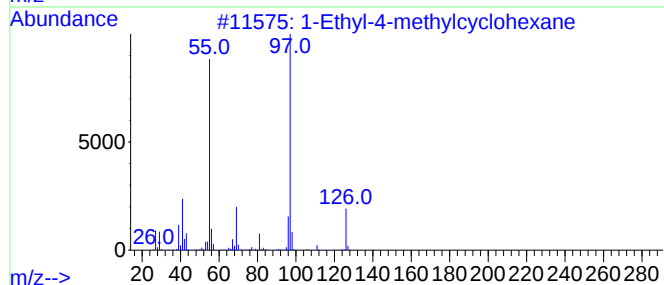
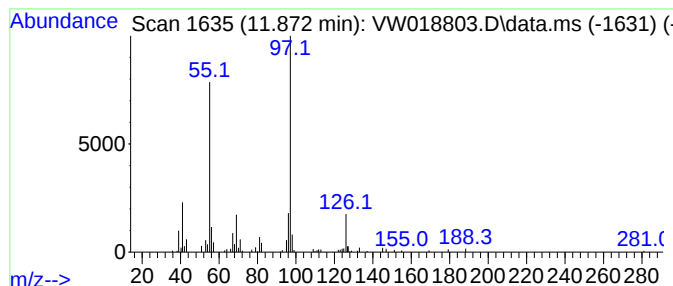
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Quant Title : SFAM01.0

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

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Peak Number 6 (DEL) Alkane: Cyclic11.872 Concentration Rank 27

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.872 | 1.97 ug/L | 46792 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 91   |
| 2    |    |   | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 90   |
| 3    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 90   |
| 4    |    |   | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 87   |
| 5    |    |   | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 83   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

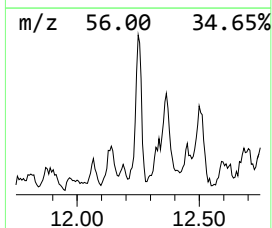
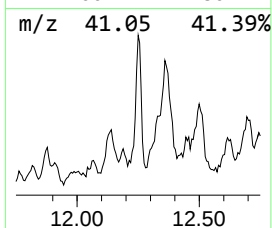
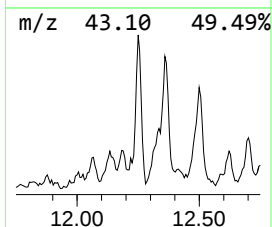
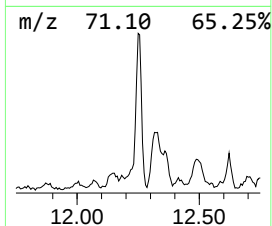
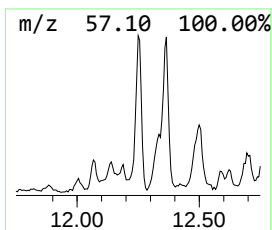
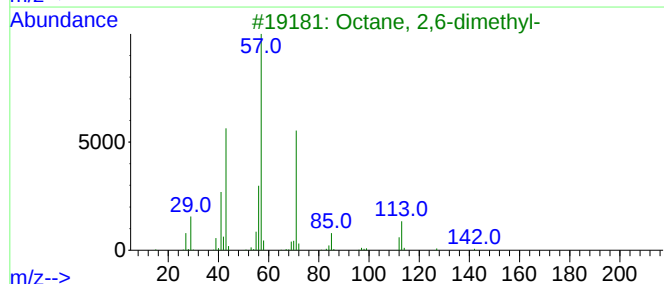
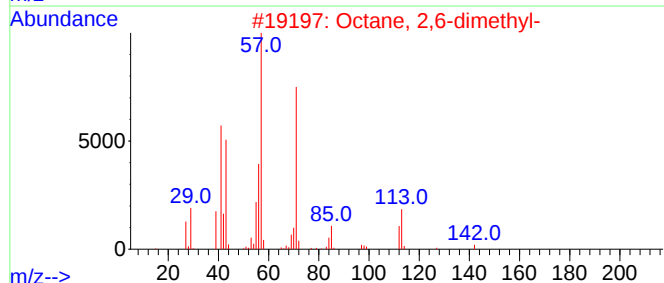
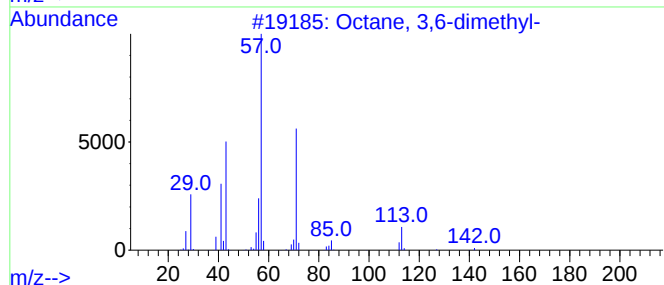
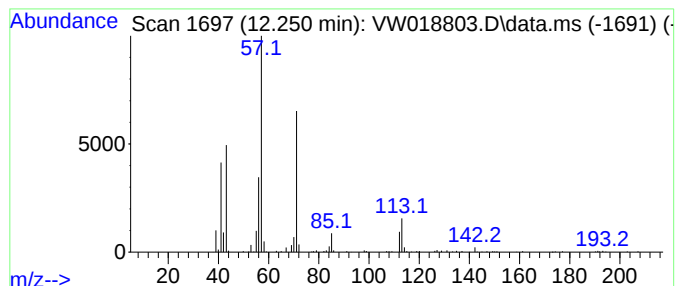
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 20

| R.T.   | EstConc   | Area   | Relative to ISTD      |     |         | R.T.        |      |
|--------|-----------|--------|-----------------------|-----|---------|-------------|------|
| 12.250 | 6.64 ug/L | 157848 | Chlorobenzene-d5      |     |         | 11.634      |      |
| Hit#   | of        | 5      | Tentative ID          | MW  | MolForm | CAS#        | Qual |
| 1      |           |        | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 87   |
| 2      |           |        | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 87   |
| 3      |           |        | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 86   |
| 4      |           |        | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 83   |
| 5      |           |        | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

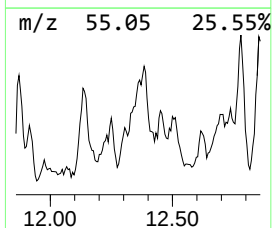
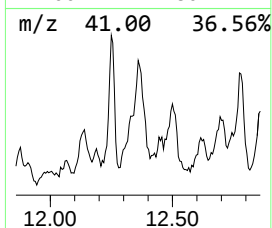
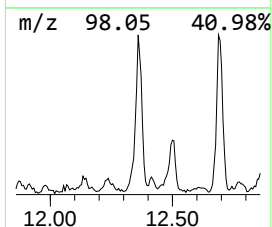
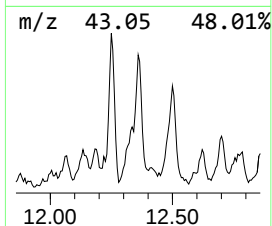
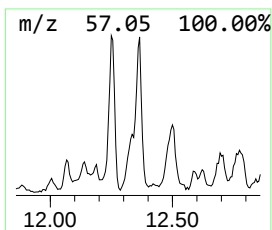
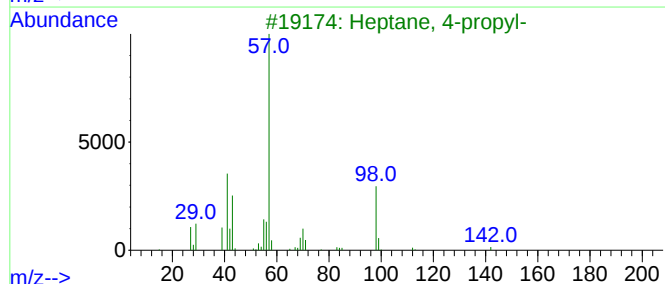
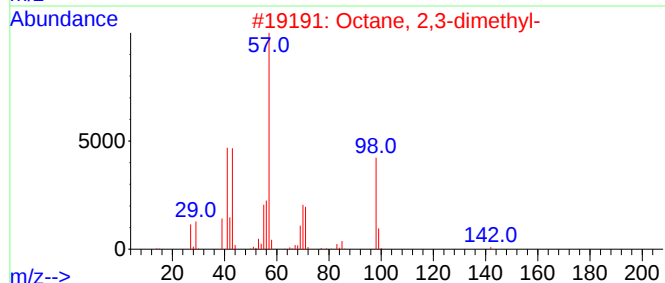
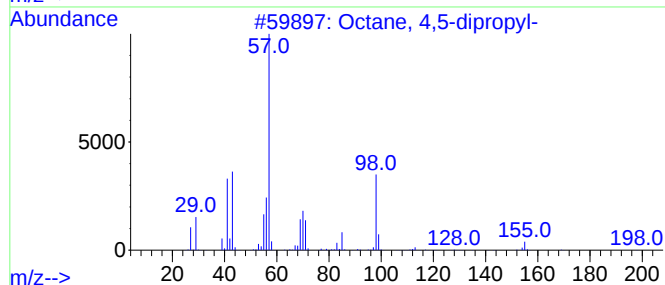
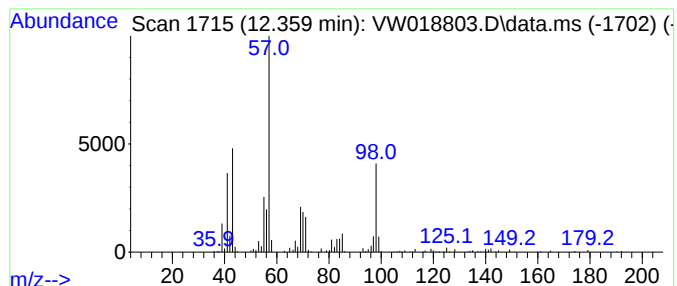
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Quant Title : SFAM01.0

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

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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.359 | 14.52 ug/L | 345030 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 4,5-dipropyl-      | 198 | C14H30  | 020905-05-9 | 78   |
| 2    |    |   | Octane, 2,3-dimethyl-      | 142 | C10H22  | 007146-60-3 | 74   |
| 3    |    |   | Heptane, 4-propyl-         | 142 | C10H22  | 003178-29-8 | 72   |
| 4    |    |   | Heptane, 3-ethyl-2-methyl- | 142 | C10H22  | 014676-29-0 | 59   |
| 5    |    |   | Octane, 2,3-dimethyl-      | 142 | C10H22  | 007146-60-3 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

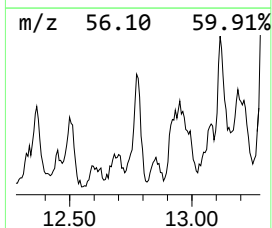
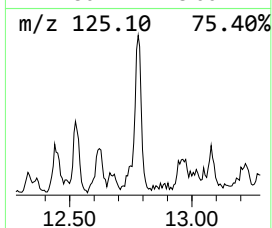
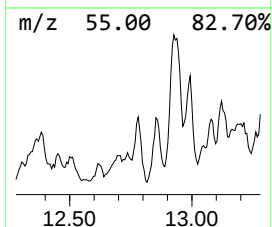
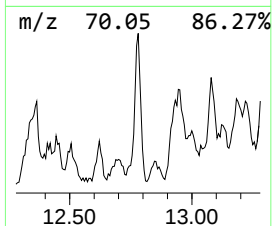
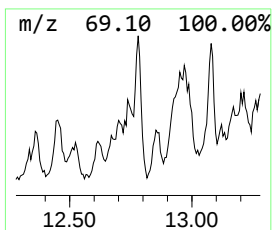
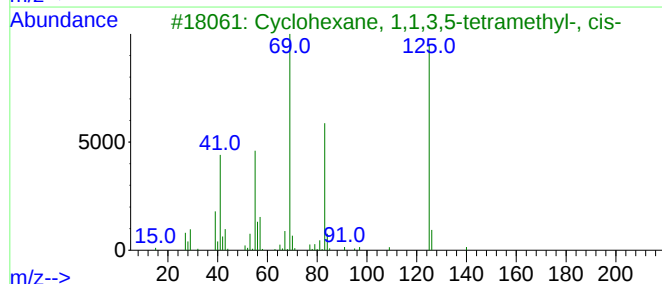
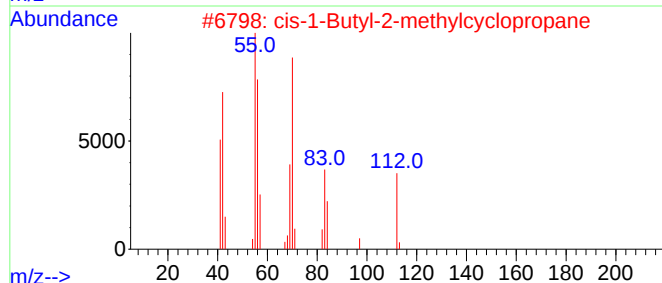
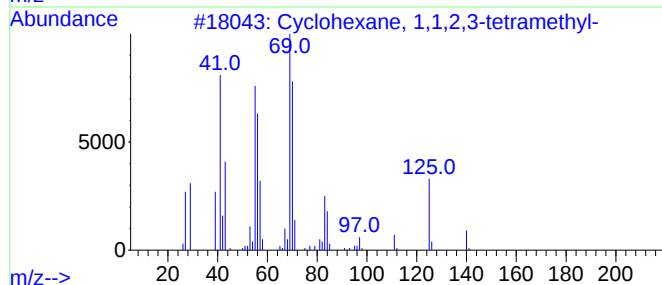
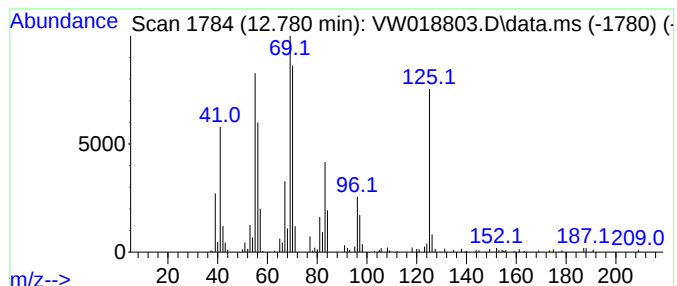
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Quant Title : SFAM01.0

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

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Peak Number 10 (DEL) Alkane: Cyclic12.780 Concentration Rank 12

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.780 | 10.80 ug/L | 168631 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,2,3-tetramethyl-   | 140 | C10H20  | 006783-92-2 | 53   |
| 2    |    |   | cis-1-Butyl-2-methylcyclopropane    | 112 | C8H16   | 038851-69-3 | 50   |
| 3    |    |   | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20  | 050876-32-9 | 47   |
| 4    |    |   | Ketone, vinyl-pyrrolidiny-          | 125 | C7H11NO | 042104-70-1 | 46   |
| 5    |    |   | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20  | 050876-31-8 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

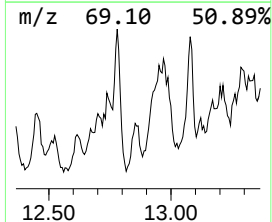
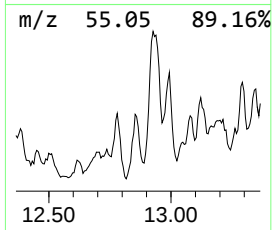
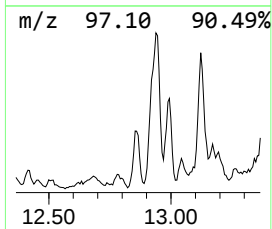
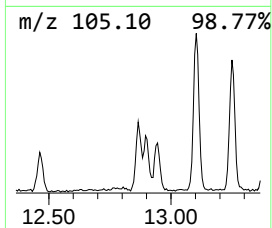
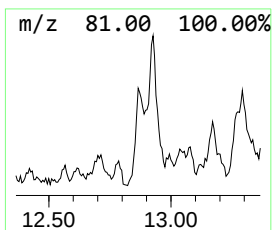
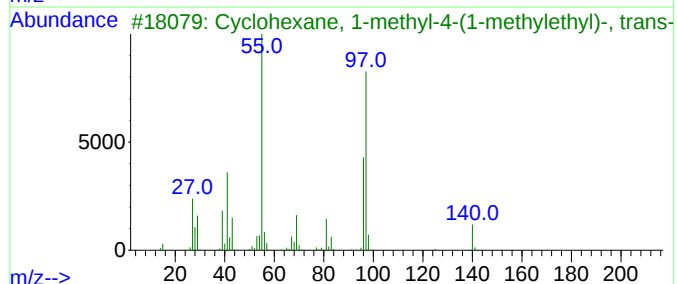
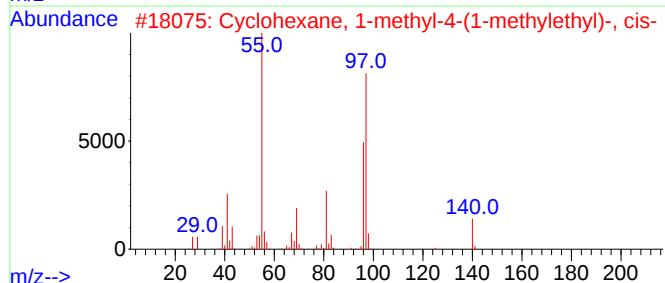
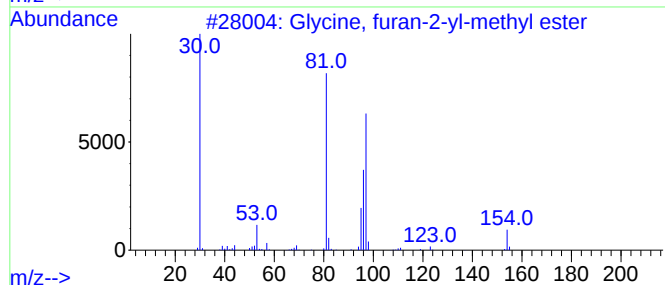
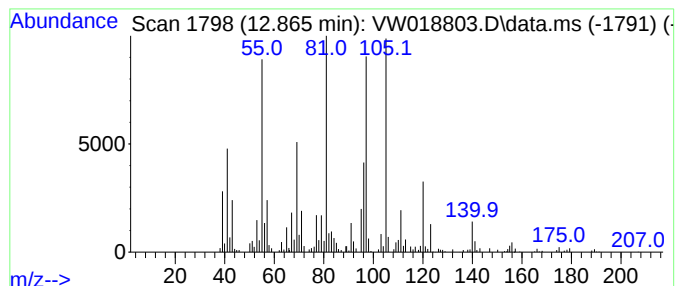
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Glycine, furan-2-yl-methyl ... Concentration Rank 13

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.865 | 10.36 ug/L | 161773 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Glycine, furan-2-yl-methyl ester    | 155 | C7H9NO3 | 1000306-78-7 | 62   |
| 2    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3  | 41   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6  | 41   |
| 4    |    |   | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20  | 000099-82-1  | 38   |
| 5    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

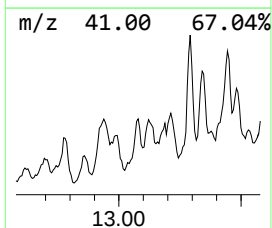
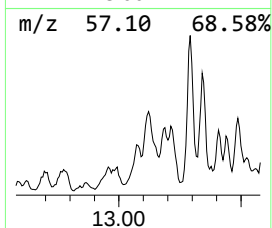
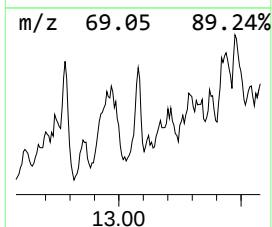
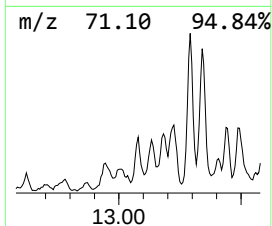
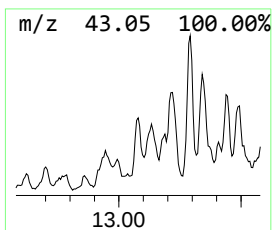
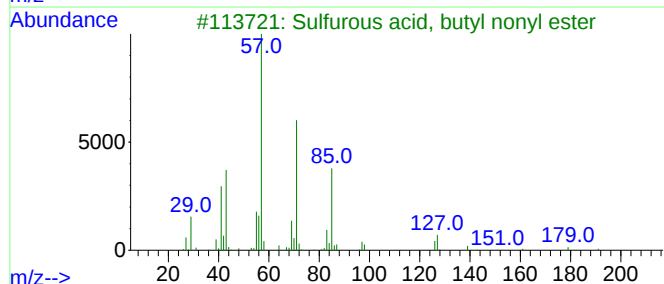
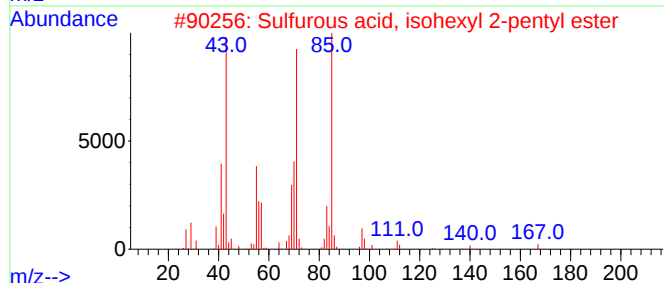
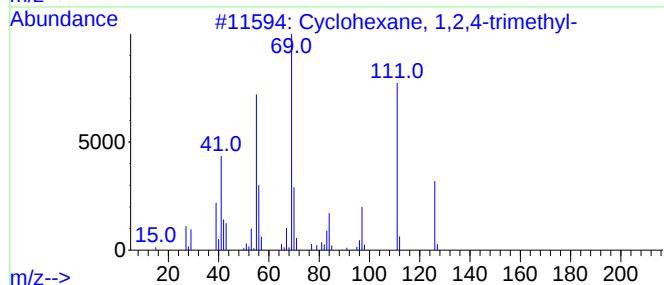
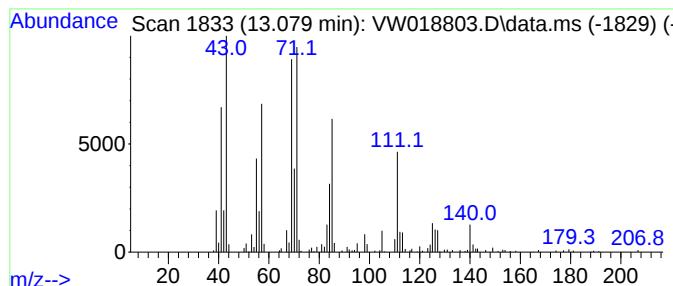
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 12 (DEL) Alkane: Cyclic13.079 Concentration Rank 16

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.079 | 8.71 ug/L | 135932 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18     | 002234-75-5  | 38   |
| 2    |    |   | Sulfurous acid, isohexyl 2-penty... | 236 | C11H24O3S | 1000309-15-5 | 38   |
| 3    |    |   | Sulfurous acid, butyl nonyl ester   | 264 | C13H28O3S | 1000309-17-6 | 38   |
| 4    |    |   | Hexane, 2,3,4-trimethyl-            | 128 | C9H20     | 000921-47-1  | 30   |
| 5    |    |   | 2-Octene, 2,6-dimethyl-             | 140 | C10H20    | 004057-42-5  | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

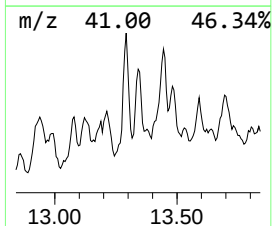
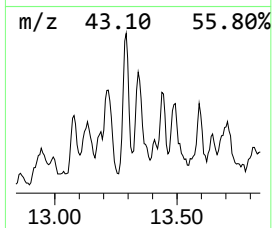
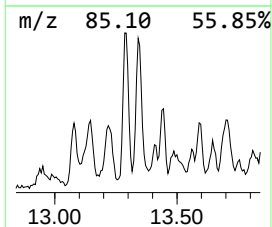
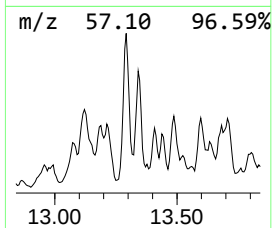
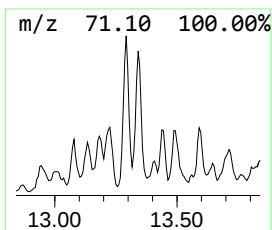
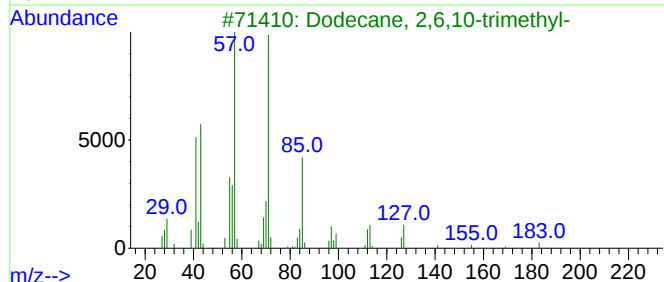
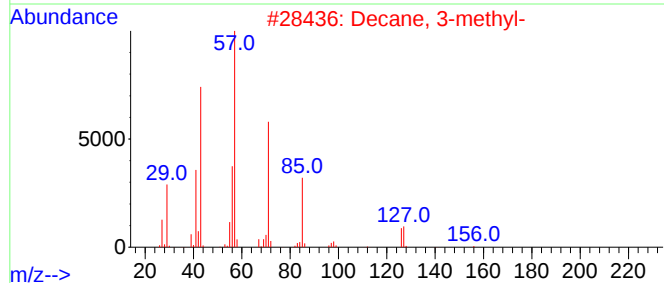
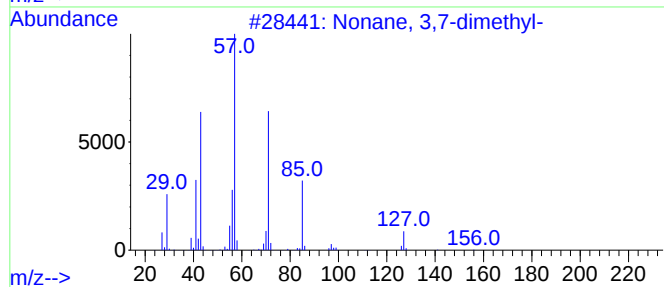
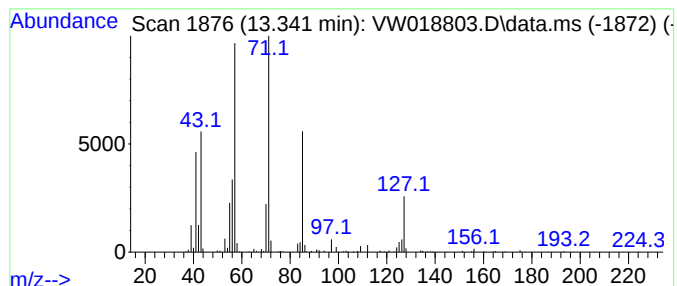
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Quant Title : SFAM01.0

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

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Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.      | EstConc                     | Area   | Relative to ISTD       |         | R.T.        |      |
|-----------|-----------------------------|--------|------------------------|---------|-------------|------|
| 13.341    | 10.81 ug/L                  | 168672 | 1,4-Dichlorobenzene-d4 |         | 13.554      |      |
| Hit# of 5 | Tentative ID                |        | MW                     | MolForm | CAS#        | Qual |
| 1         | Nonane, 3,7-dimethyl-       |        | 156                    | C11H24  | 017302-32-8 | 90   |
| 2         | Decane, 3-methyl-           |        | 156                    | C11H24  | 013151-34-3 | 83   |
| 3         | Dodecane, 2,6,10-trimethyl- |        | 212                    | C15H32  | 003891-98-3 | 78   |
| 4         | Tridecane, 6-methyl-        |        | 198                    | C14H30  | 013287-21-3 | 64   |
| 5         | Decane, 3-methyl-           |        | 156                    | C11H24  | 013151-34-3 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

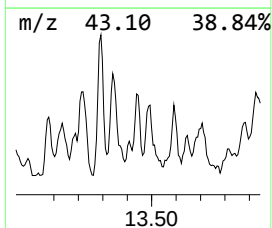
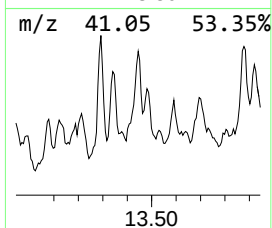
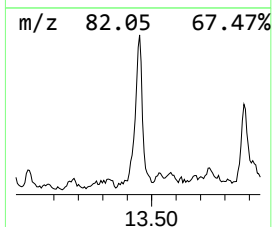
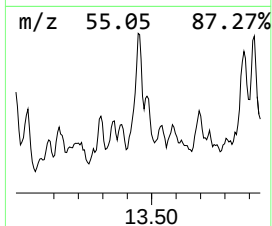
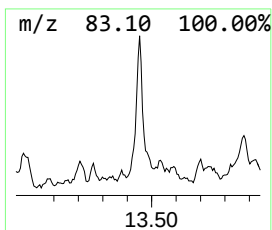
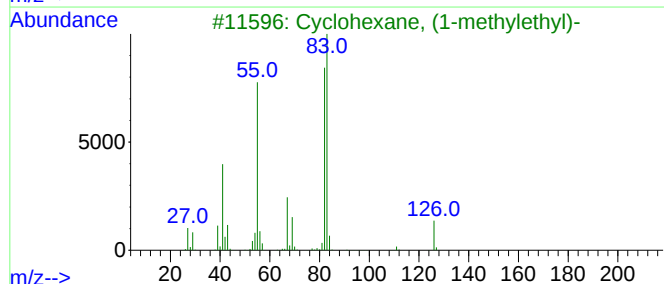
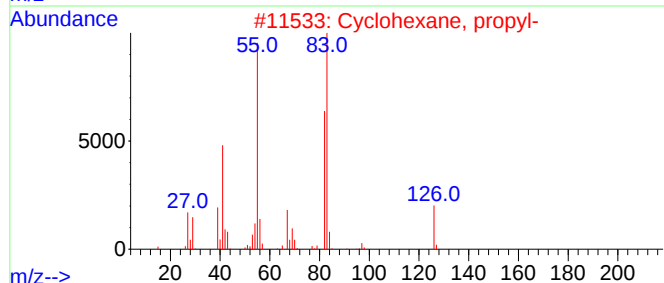
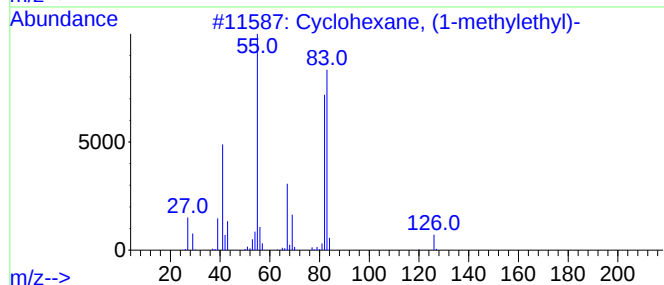
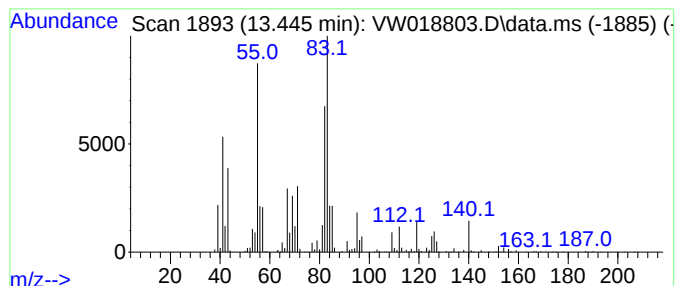
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Cyclic13.445 Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.445 | 26.51 ug/L | 413849 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 49   |
| 2    |    |   | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 49   |
| 3    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 49   |
| 4    |    |   | Ethanone, 1-cyclohexyl-       | 126 | C8H14O  | 000823-76-7 | 49   |
| 5    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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

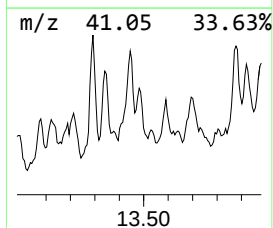
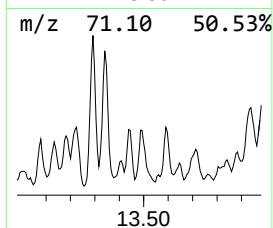
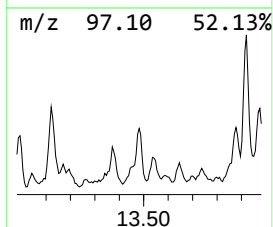
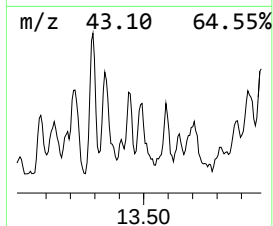
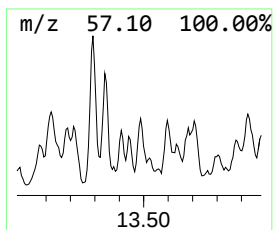
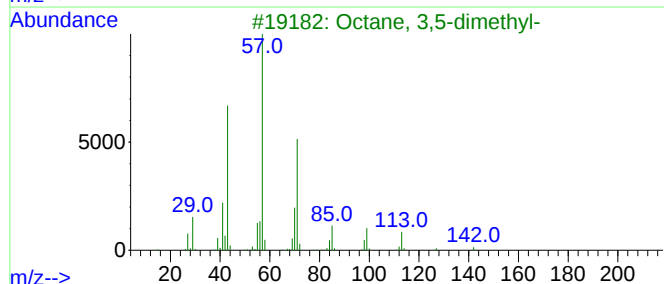
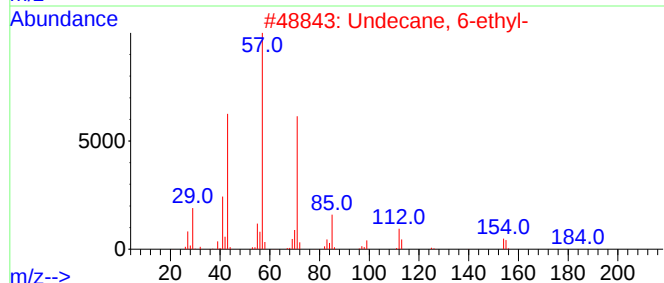
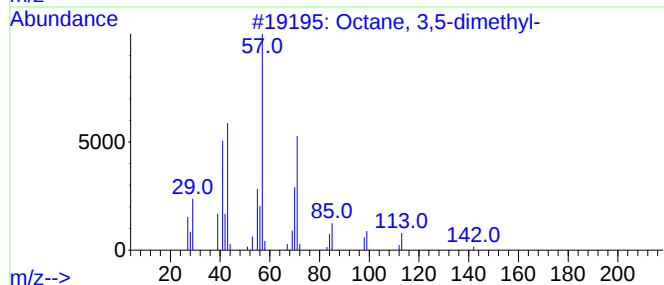
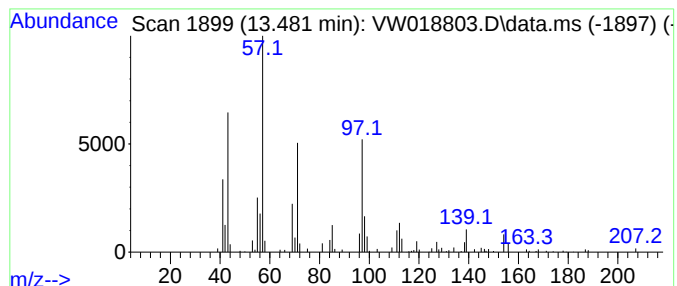
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Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.481 | 8.74 ug/L | 136415 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------|-----|---------|-------------|------|
| 1    |      | Octane, 3,5-dimethyl-      | 142 | C10H22  | 015869-93-9 | 46   |
| 2    |      | Undecane, 6-ethyl-         | 184 | C13H28  | 017312-60-6 | 43   |
| 3    |      | Octane, 3,5-dimethyl-      | 142 | C10H22  | 015869-93-9 | 41   |
| 4    |      | Undecane, 6-ethyl-         | 184 | C13H28  | 017312-60-6 | 35   |
| 5    |      | Nonane, 3-methyl-5-propyl- | 184 | C13H28  | 031081-18-2 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

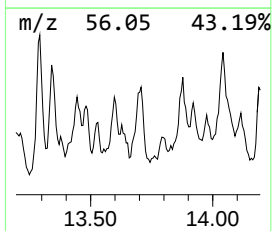
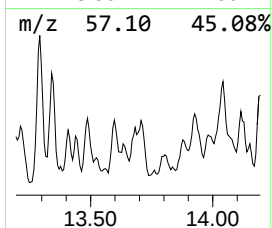
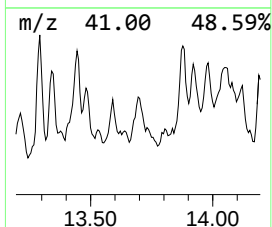
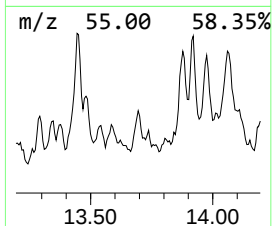
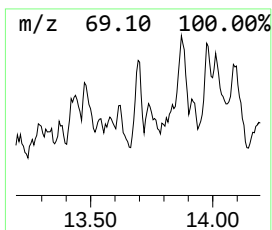
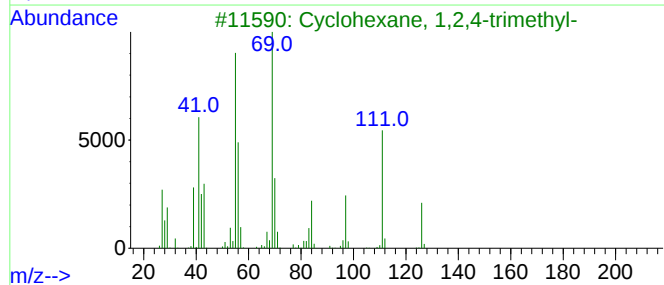
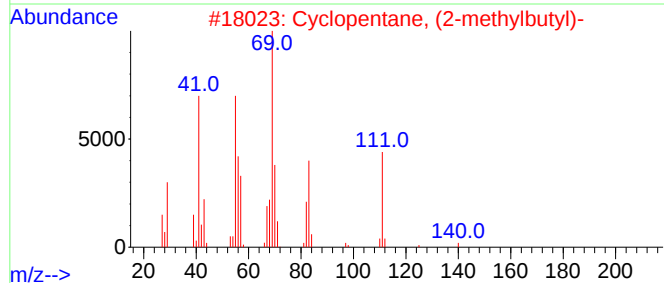
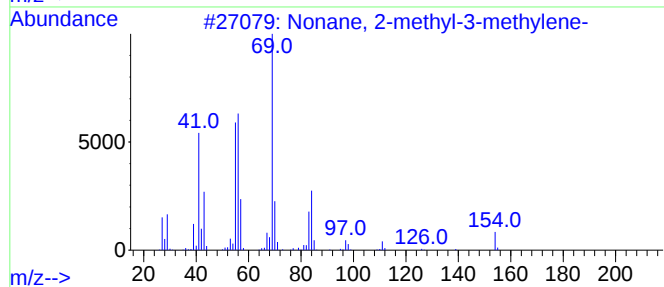
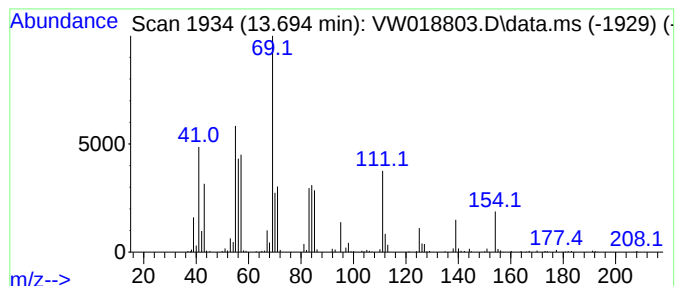
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.695 | 12.52 ug/L | 195360 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|---------|--------------|------|
| 1    |    |   | Nonane, 2-methyl-3-methylene-     | 154 | C11H22  | 055499-08-6  | 59   |
| 2    |    |   | Cyclopentane, (2-methylbutyl)-    | 140 | C10H20  | 053366-38-4  | 52   |
| 3    |    |   | Cyclohexane, 1,2,4-trimethyl-     | 126 | C9H18   | 002234-75-5  | 50   |
| 4    |    |   | Formic acid, 3-methylpentyl ester | 130 | C7H14O2 | 1000368-21-3 | 47   |
| 5    |    |   | 5-Undecene, 4-methyl-             | 168 | C12H24  | 143185-91-5  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
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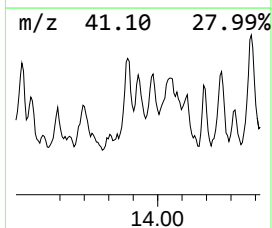
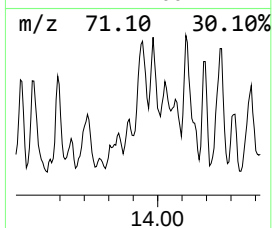
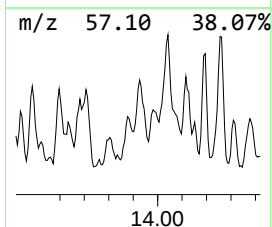
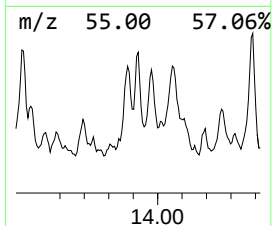
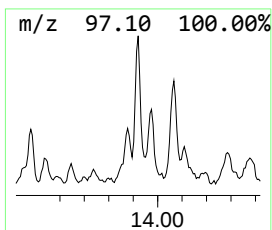
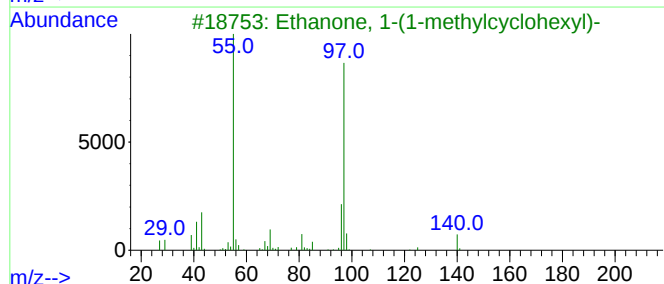
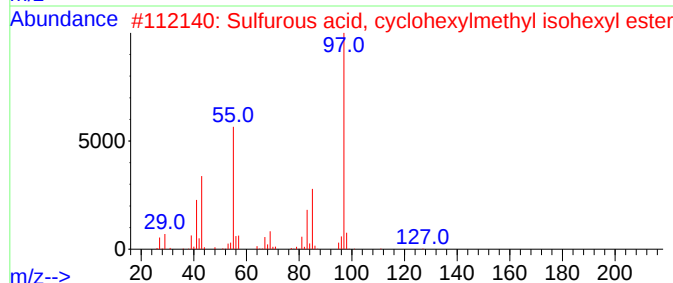
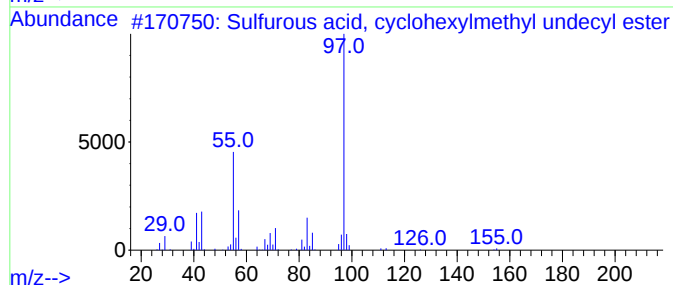
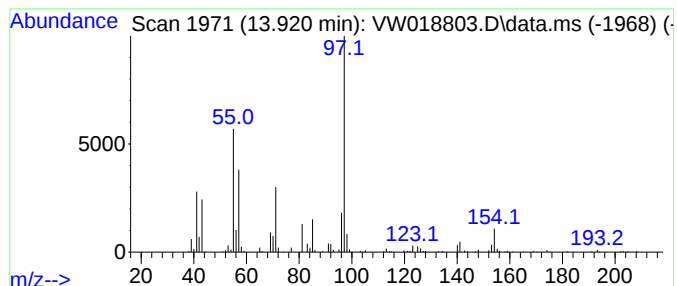
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Sulfurous acid, cyclohexylm... Concentration Rank 14

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.920 | 9.48 ug/L | 147981 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, cyclohexylmethyl... | 332 | C18H36O3S | 1000309-21-9 | 53   |
| 2    |    |   | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-5 | 50   |
| 3    |    |   | Ethanone, 1-(1-methylcyclohexyl)-   | 140 | C9H16O    | 002890-62-2  | 50   |
| 4    |    |   | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18     | 019489-10-2  | 50   |
| 5    |    |   | Sulfurous acid, cyclohexylmethyl... | 304 | C16H32O3S | 1000309-21-8 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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

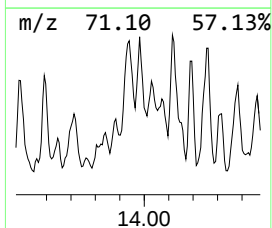
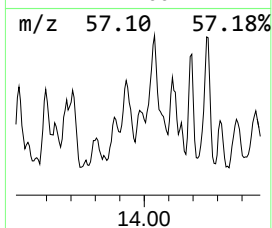
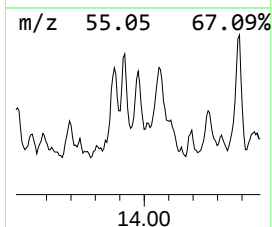
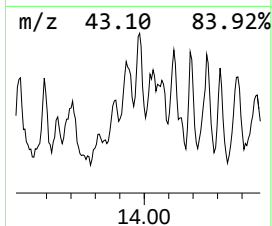
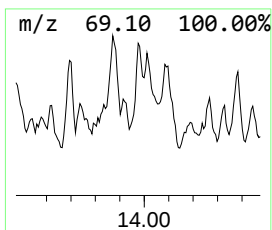
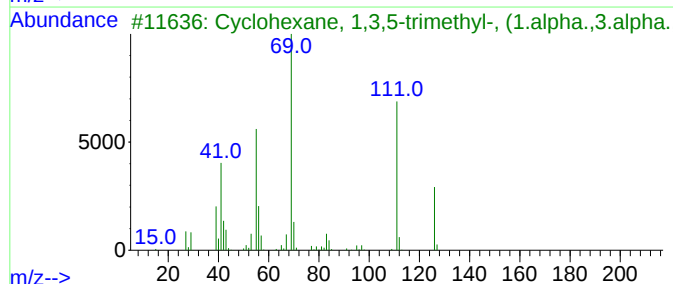
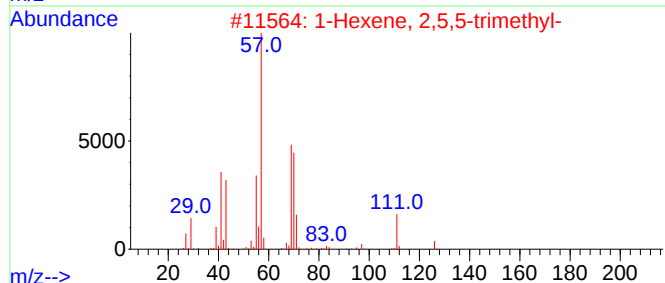
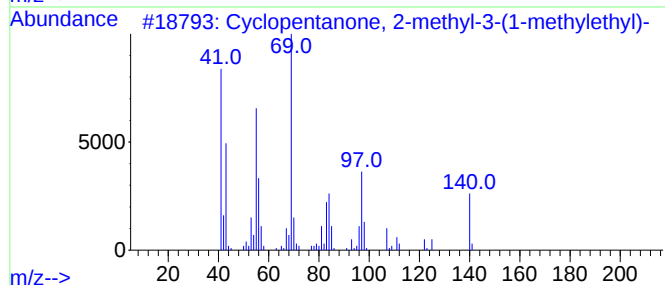
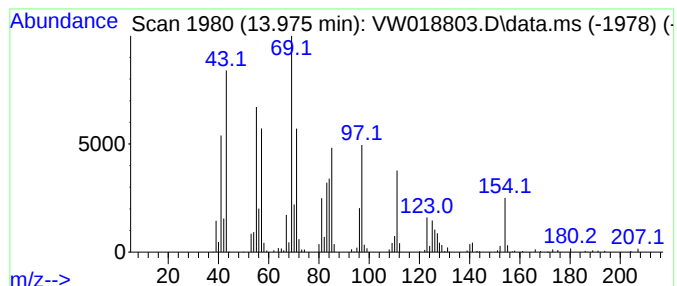
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Peak Number 18 unknown-02

Concentration Rank 22

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.975 | 6.20 ug/L | 96752 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentanone, 2-methyl-3-(1-me...  | 140 | C9H16O  | 054549-81-4 | 49   |
| 2    |    |   | 1-Hexene, 2,5,5-trimethyl-           | 126 | C9H18   | 062185-56-2 | 38   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-, (...) | 126 | C9H18   | 001795-26-2 | 30   |
| 4    |    |   | Octane, 4-methyl-                    | 128 | C9H20   | 002216-34-4 | 25   |
| 5    |    |   | 2-Pentene, 3-methyl-, (Z)-           | 84  | C6H12   | 000922-62-3 | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

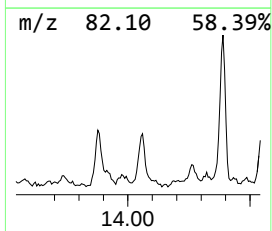
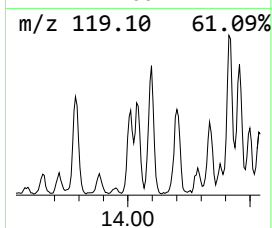
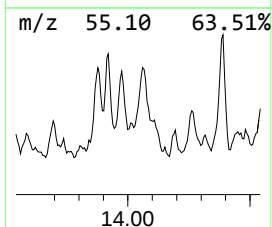
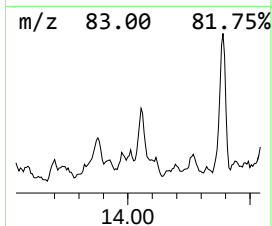
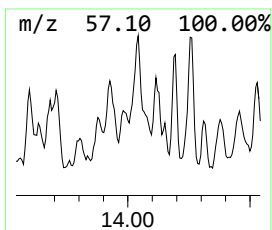
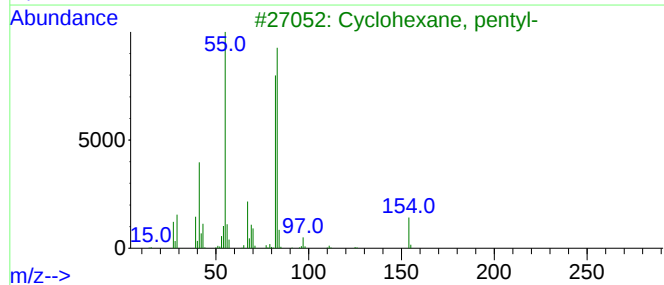
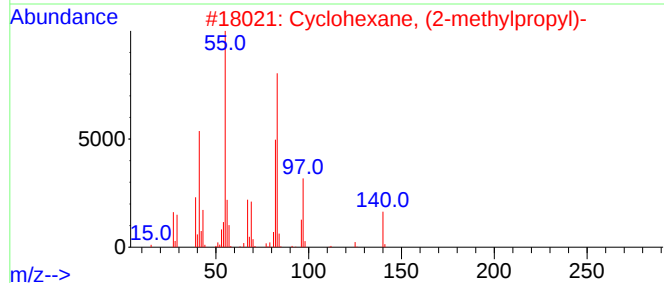
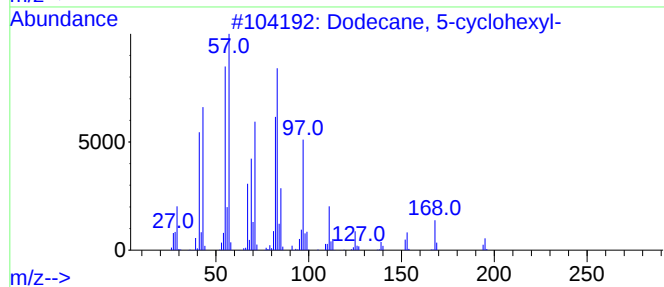
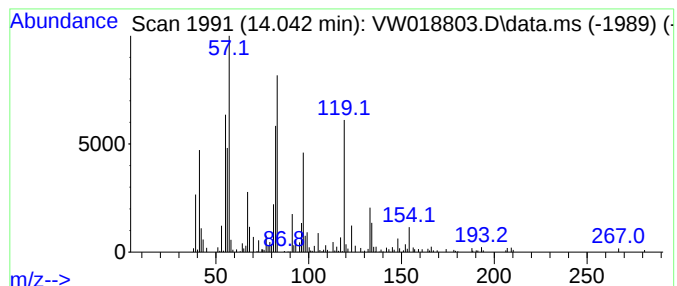
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 24

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.042 | 2.96 ug/L | 46190 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 5-cyclohexyl-             | 252 | C18H36  | 013151-85-4 | 43   |
| 2    |    |   | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20  | 001678-98-4 | 38   |
| 3    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 35   |
| 4    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 35   |
| 5    |    |   | Cyclohexane, 1,1'-(1-methyl-1,3-... | 222 | C16H30  | 041851-35-8 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

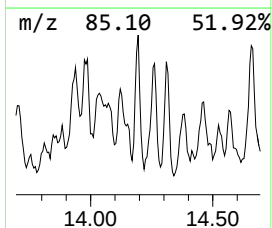
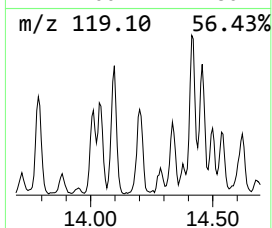
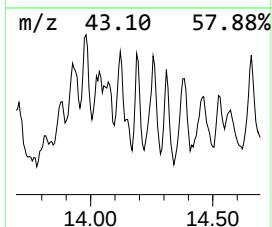
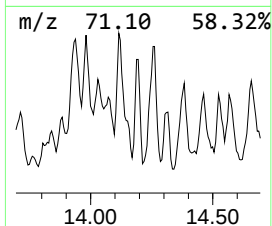
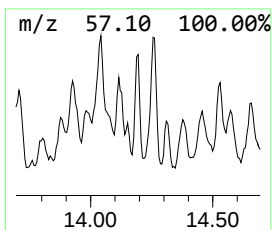
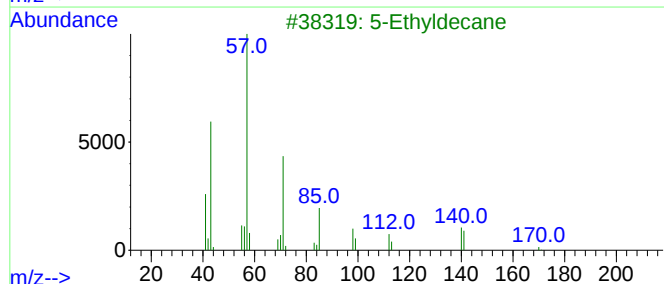
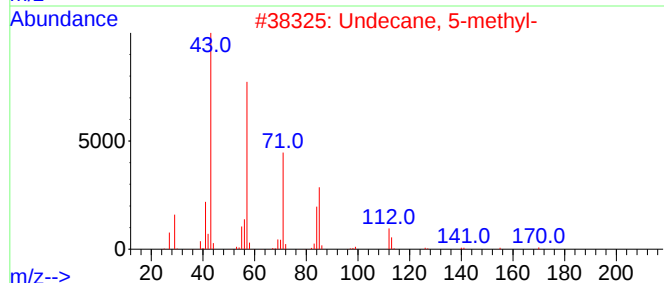
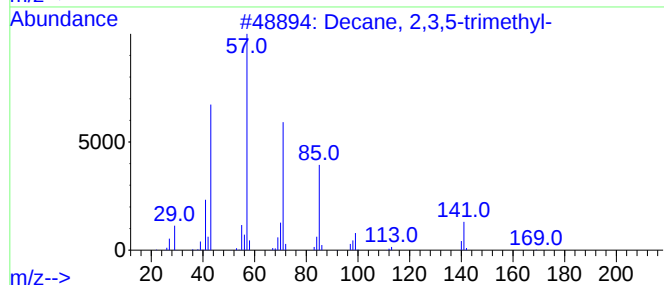
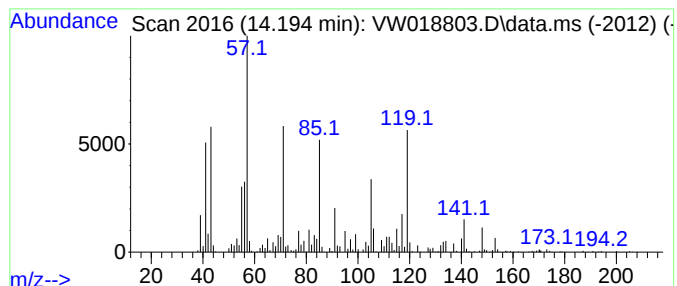
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.194 | 16.39 ug/L | 255898 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 38   |
| 2    |      | Undecane, 5-methyl-      | 170 | C12H26  | 001632-70-8 | 38   |
| 3    |      | 5-Ethyldecane            | 170 | C12H26  | 017302-36-2 | 25   |
| 4    |      | Octane, 2-methyl-        | 128 | C9H20   | 003221-61-2 | 22   |
| 5    |      | Nonane, 3-methyl-        | 142 | C10H22  | 005911-04-6 | 20   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

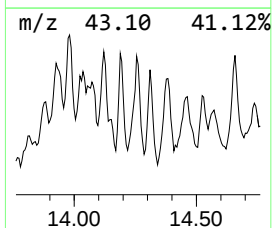
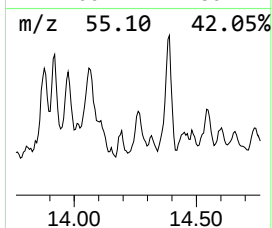
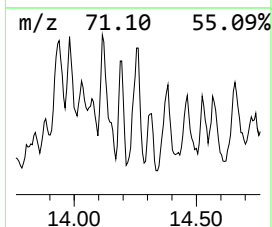
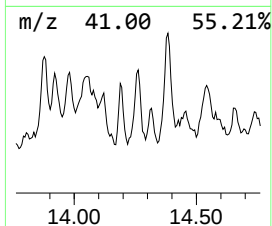
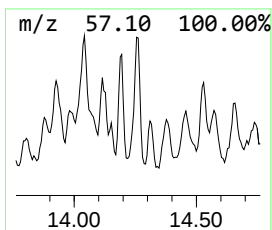
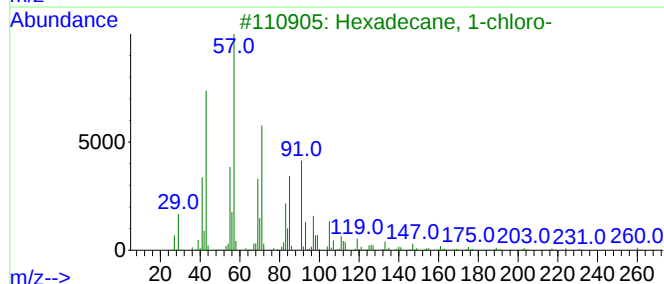
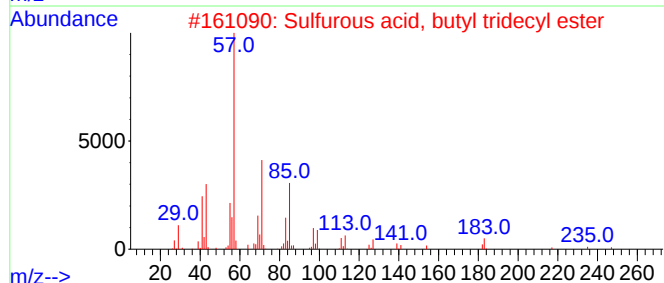
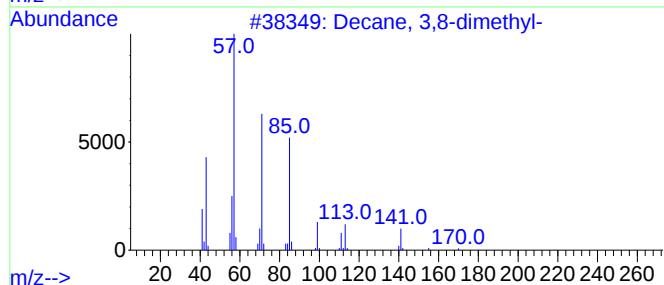
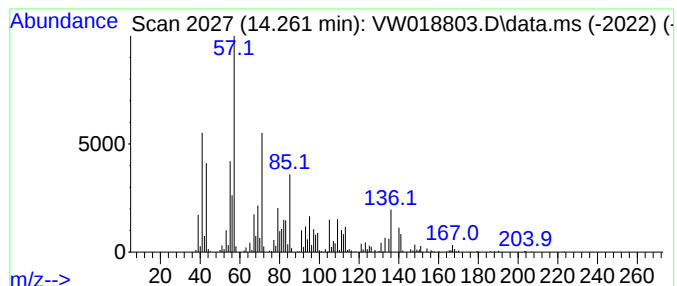
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Quant Title : SFAM01.0

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

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Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.      | EstConc                             | Area   | Relative to ISTD       |           |              | R.T.   |
|-----------|-------------------------------------|--------|------------------------|-----------|--------------|--------|
| 14.261    | 17.54 ug/L                          | 273720 | 1,4-Dichlorobenzene-d4 |           |              | 13.554 |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm   | CAS#         | Qual   |
| 1         | Decane, 3,8-dimethyl-               |        | 170                    | C12H26    | 017312-55-9  | 49     |
| 2         | Sulfurous acid, butyl tridecyl e... |        | 320                    | C17H36O3S | 1000309-18-0 | 49     |
| 3         | Hexadecane, 1-chloro-               |        | 260                    | C16H33Cl  | 004860-03-1  | 38     |
| 4         | Octadecane, 1-chloro-               |        | 288                    | C18H37Cl  | 003386-33-2  | 38     |
| 5         | Decane, 3,8-dimethyl-               |        | 170                    | C12H26    | 017312-55-9  | 38     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

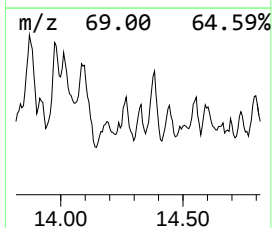
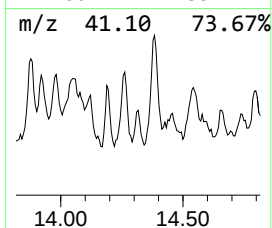
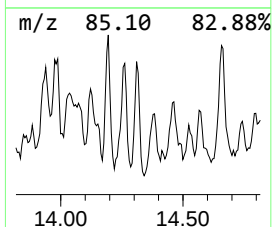
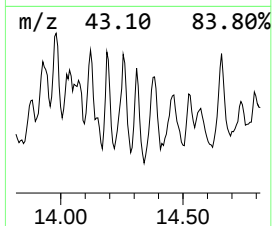
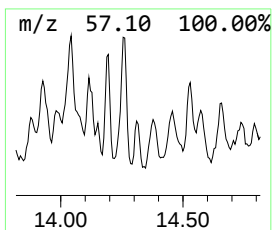
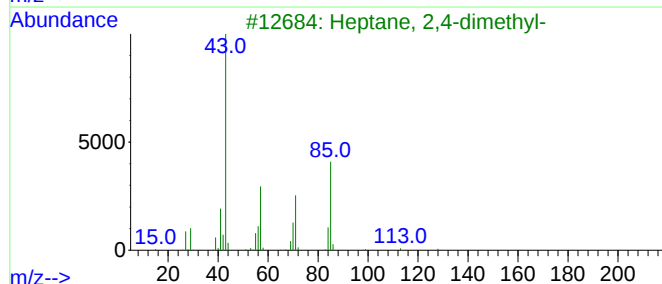
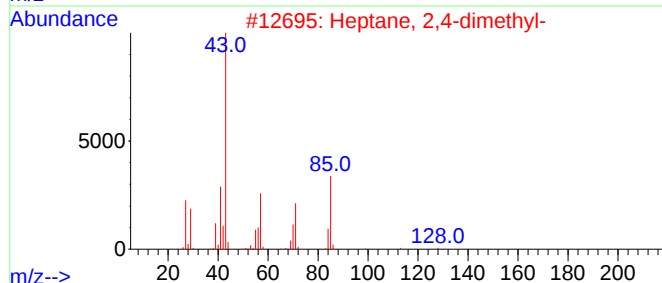
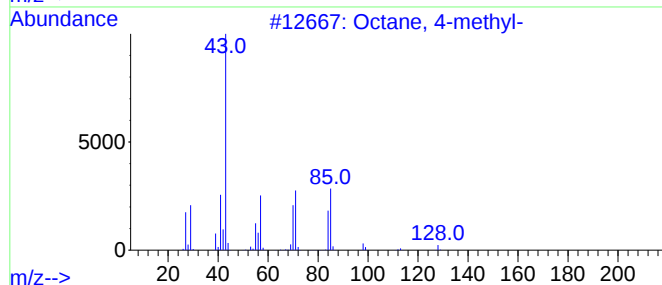
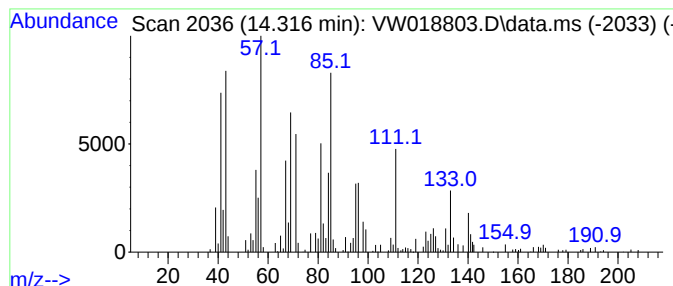
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T.   | EstConc   | Area                    | Relative to ISTD       |         |             | R.T.   |
|--------|-----------|-------------------------|------------------------|---------|-------------|--------|
| 14.316 | 6.95 ug/L | 108405                  | 1,4-Dichlorobenzene-d4 |         |             | 13.554 |
| Hit#   | of 5      | Tentative ID            | MW                     | MolForm | CAS#        | Qual   |
| 1      |           | Octane, 4-methyl-       | 128                    | C9H20   | 002216-34-4 | 35     |
| 2      |           | Heptane, 2,4-dimethyl-  | 128                    | C9H20   | 002213-23-2 | 35     |
| 3      |           | Heptane, 2,4-dimethyl-  | 128                    | C9H20   | 002213-23-2 | 35     |
| 4      |           | Undecane, 2,4-dimethyl- | 184                    | C13H28  | 017312-80-0 | 35     |
| 5      |           | Octane, 4-methyl-       | 128                    | C9H20   | 002216-34-4 | 35     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

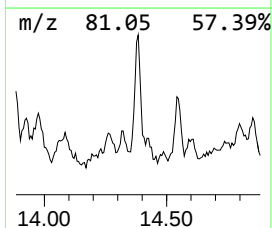
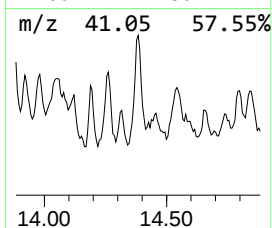
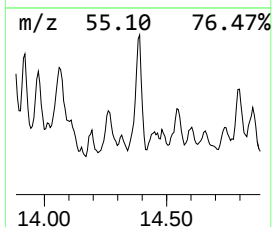
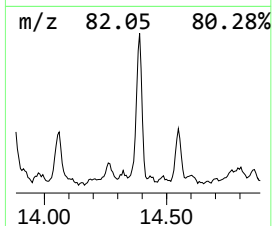
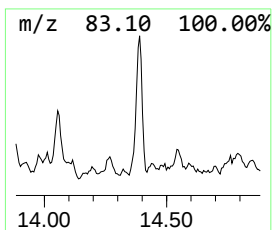
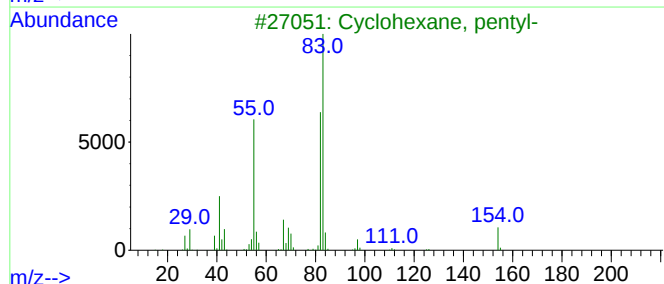
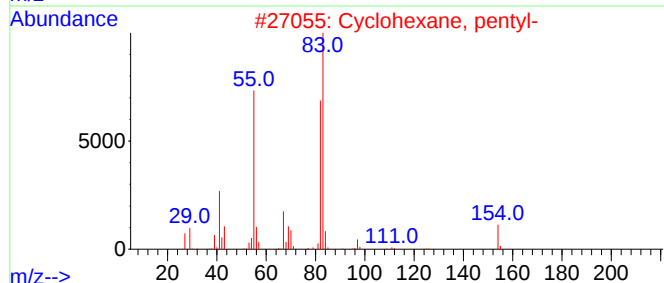
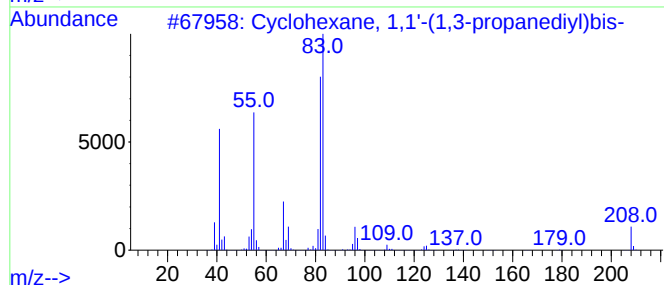
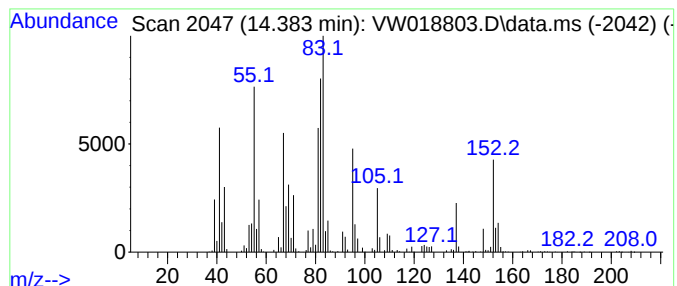
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Quant Title : SFAM01.0

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

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Peak Number 23 unknown-03 Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.383 | 29.80 ug/L | 465062 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1'-(1,3-propanedi... | 208 | C15H28  | 003178-24-3 | 43   |
| 2    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 43   |
| 3    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 43   |
| 4    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6 | 42   |
| 5    |    |   | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

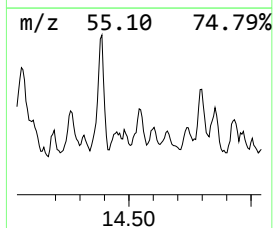
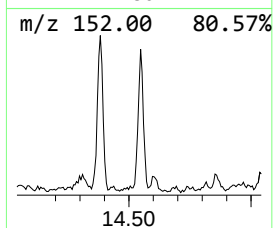
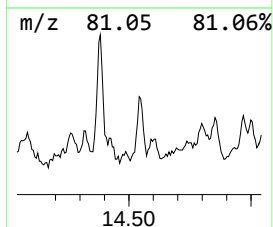
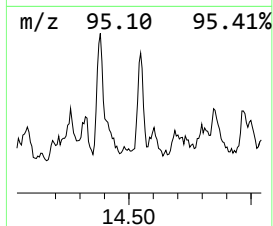
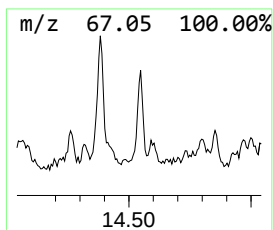
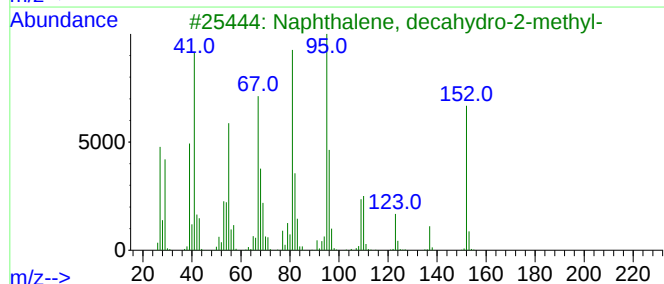
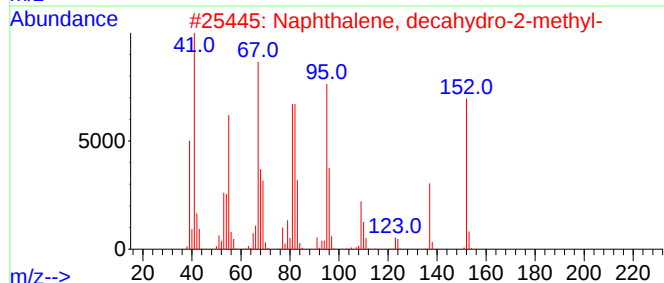
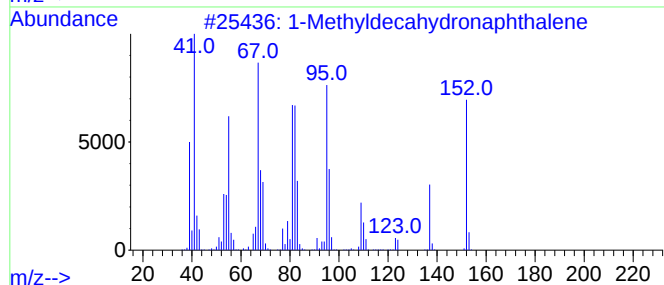
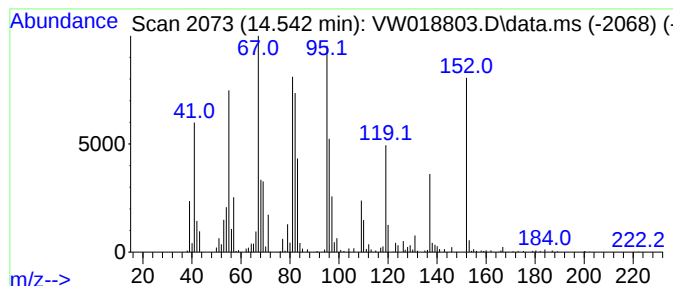
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 24 1-Methyldecahydronaphthalene Concentration Rank 9

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.542 | 12.53 ug/L | 195541 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1-Methyldecahydronaphthalene     | 152 | C11H20  | 002958-75-0  | 91   |
| 2    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 91   |
| 3    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 62   |
| 4    |    |   | trans-Decalin, 2-methyl-         | 152 | C11H20  | 1000152-47-3 | 62   |
| 5    |    |   | 1H-Indene, octahydro-, cis-      | 124 | C9H16   | 004551-51-3  | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

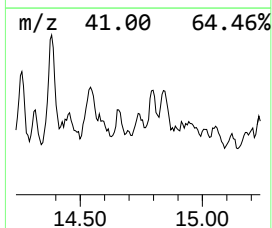
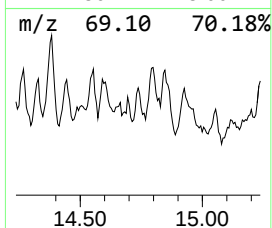
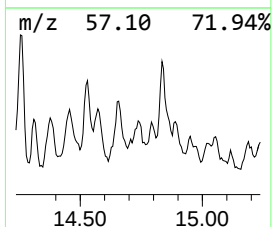
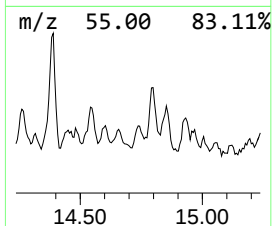
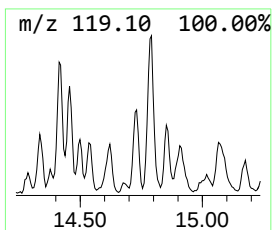
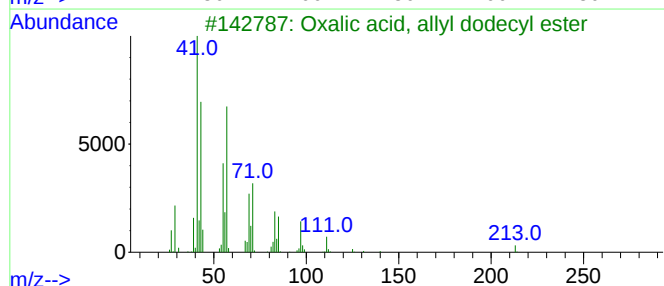
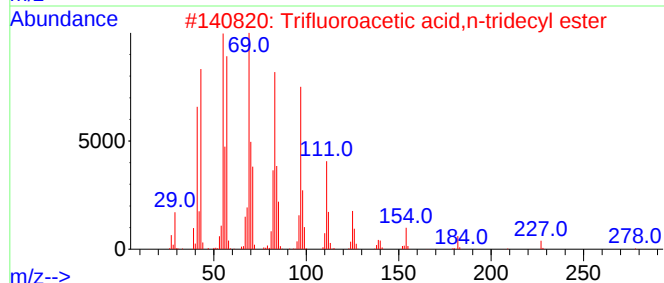
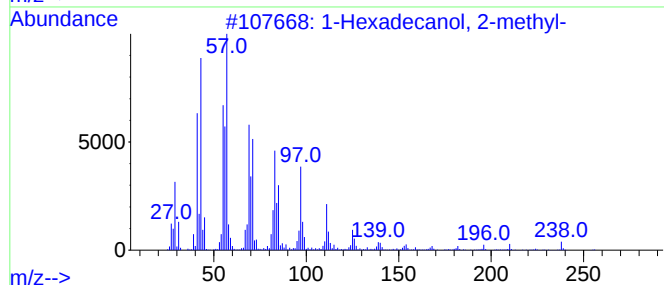
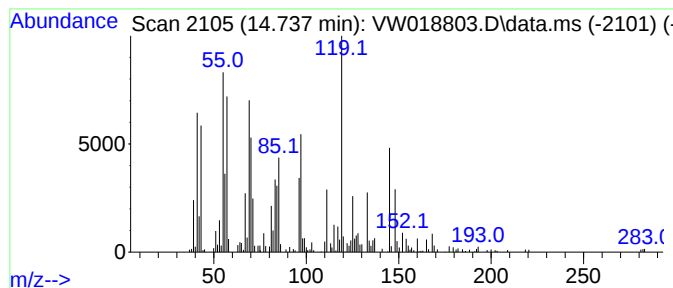
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 25 unknown-04 Concentration Rank 18

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.737 | 7.07 ug/L | 110348 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 1-Hexadecanol, 2-methyl-            | 256 | C17H36O    | 002490-48-4  | 27   |
| 2    |    |   | Trifluoroacetic acid,n-tridecyl ... | 296 | C15H27F3O2 | 053800-02-5  | 25   |
| 3    |    |   | Oxalic acid, allyl dodecyl ester    | 298 | C17H30O4   | 1000309-24-0 | 22   |
| 4    |    |   | 1-Heptanol, 2,4-diethyl-            | 172 | C11H24O    | 080192-55-8  | 14   |
| 5    |    |   | 3,4-Dihydro-2-quinoxalino           | 148 | C8H8N2O    | 1000332-36-8 | 14   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
Quant Title : SFAM01.0

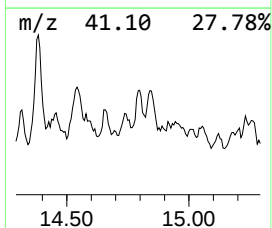
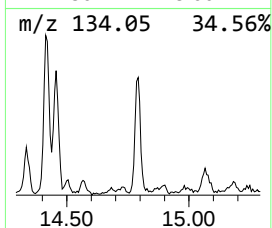
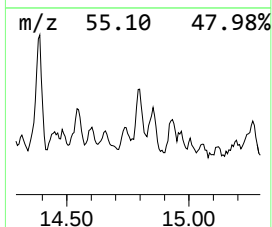
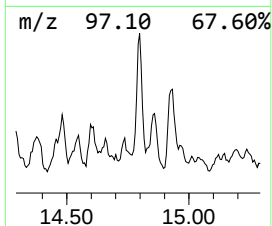
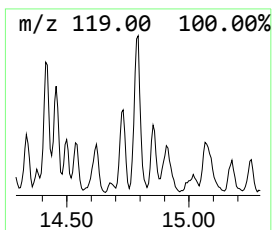
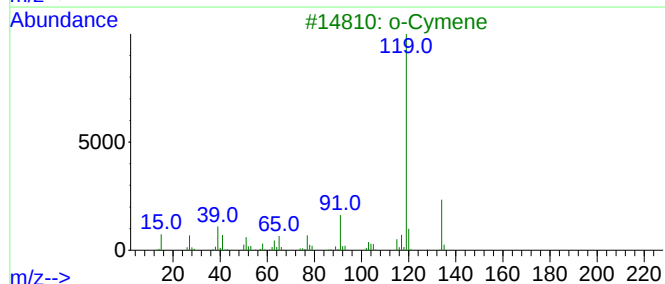
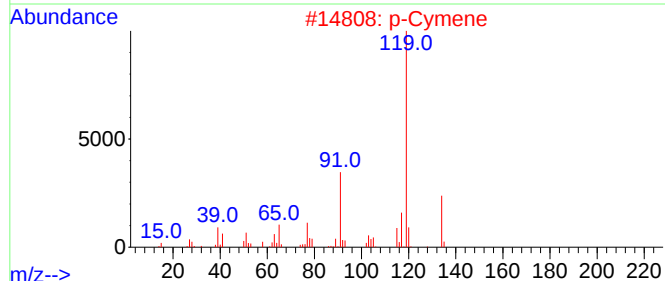
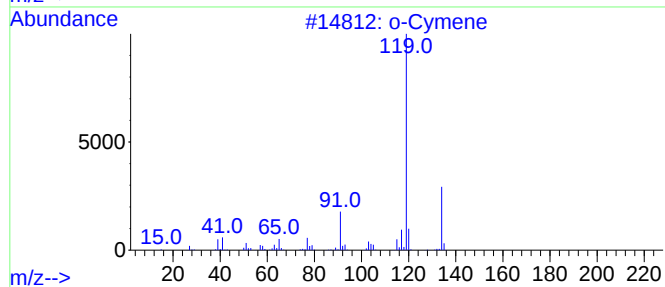
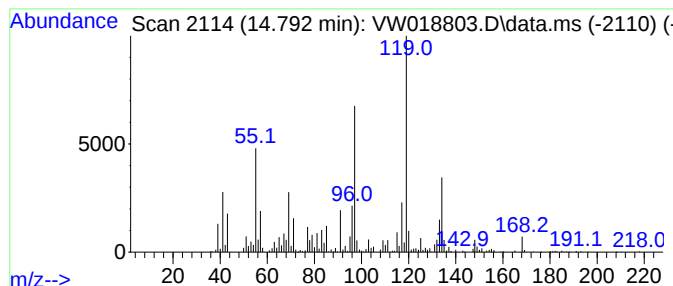
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 26 o-Cymene Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.792 | 20.16 ug/L | 314635 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 55   |
| 2    |    |   | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 53   |
| 3    |    |   | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 50   |
| 4    |    |   | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 50   |
| 5    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

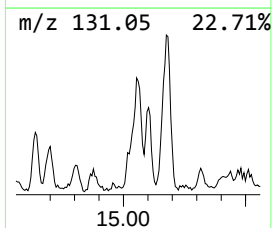
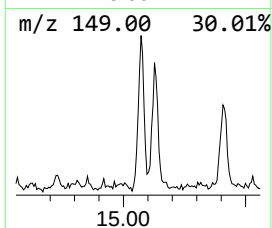
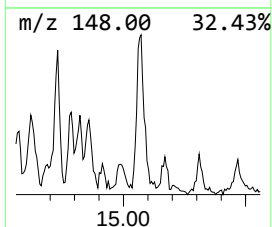
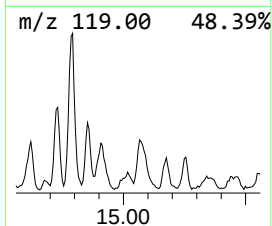
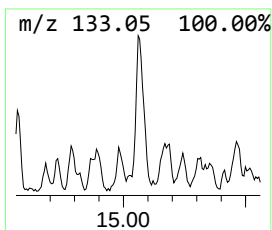
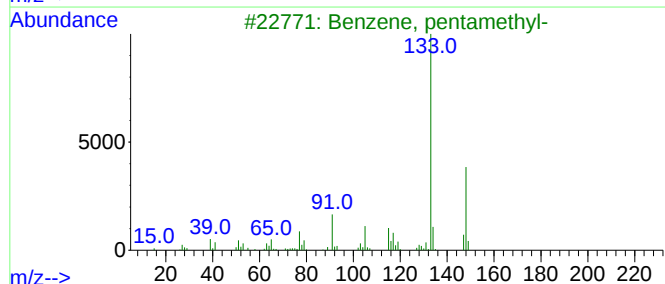
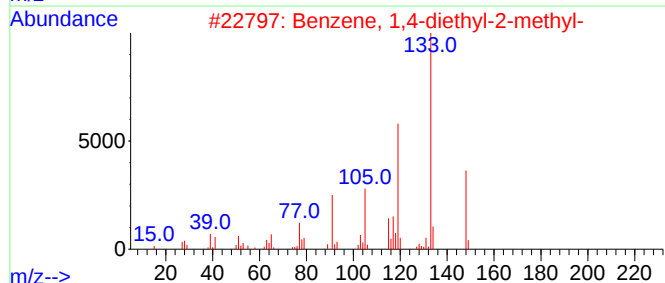
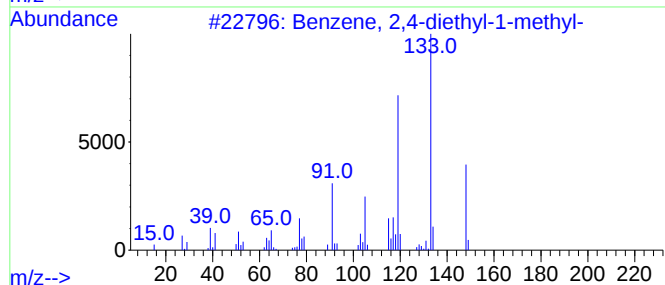
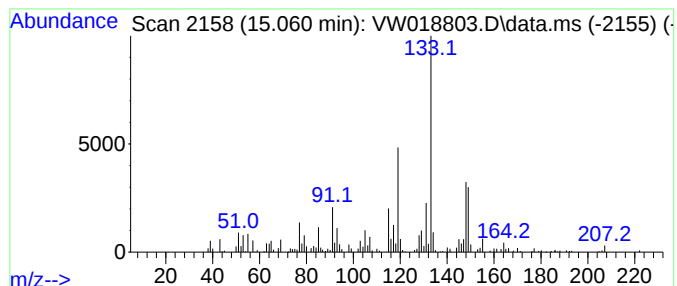
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 27 Benzene, 2,4-diethyl-1-methyl- Concentration Rank 17

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.060 | 8.55 ug/L | 133395 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2,4-diethyl-1-methyl-      | 148 | C11H16  | 001758-85-6 | 70   |
| 2    |    |   | Benzene, 1,4-diethyl-2-methyl-      | 148 | C11H16  | 013632-94-5 | 62   |
| 3    |    |   | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 55   |
| 4    |    |   | Benzene, 1-ethyl-2,4,5-trimethyl-   | 148 | C11H16  | 017851-27-3 | 47   |
| 5    |    |   | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

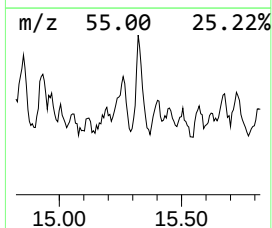
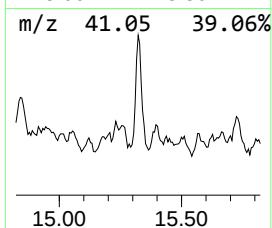
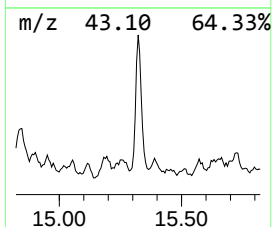
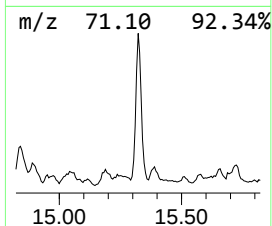
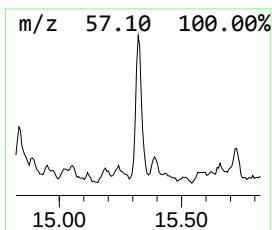
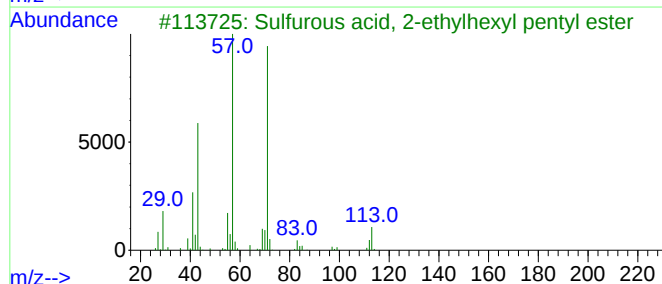
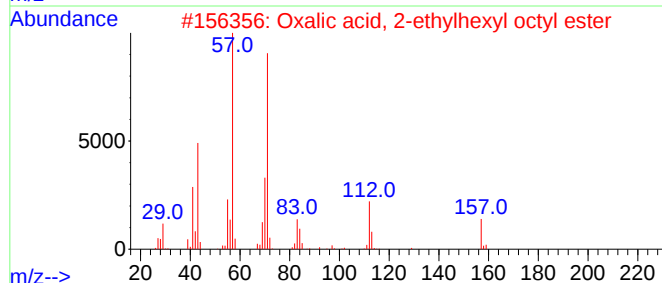
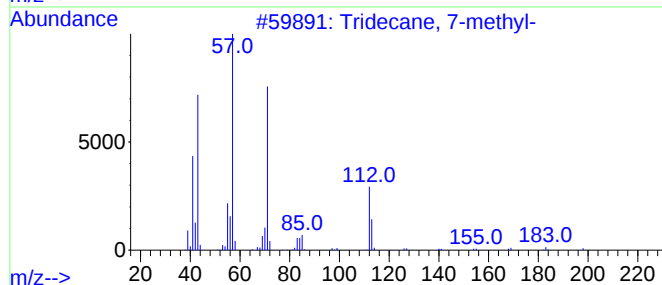
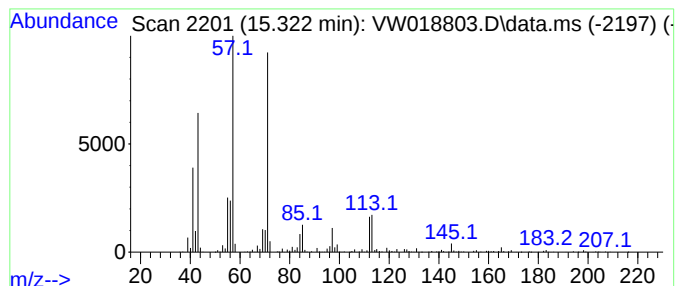
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.322 | 27.30 ug/L | 426081 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Tridecane, 7-methyl-                | 198 | C14H30    | 026730-14-3  | 76   |
| 2    |    |   | Oxalic acid, 2-ethylhexyl octyl ... | 314 | C18H34O4  | 1000309-39-1 | 59   |
| 3    |    |   | Sulfurous acid, 2-ethylhexyl pen... | 264 | C13H28O3S | 1000309-18-9 | 59   |
| 4    |    |   | Octane, 3-ethyl-                    | 142 | C10H22    | 005881-17-4  | 58   |
| 5    |    |   | Butane, 2,2-dimethyl-               | 86  | C6H14     | 000075-83-2  | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
Data File : VW018803.D  
Acq On : 27 Apr 2021 15:09  
Operator : SY/VA  
Sample : M2177-04  
Misc : 5.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG581

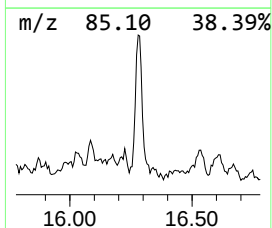
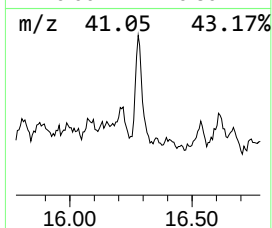
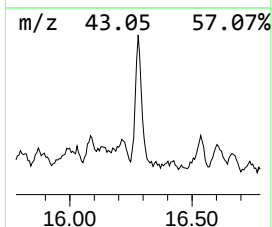
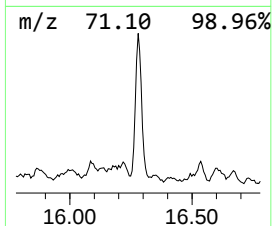
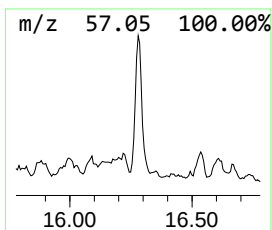
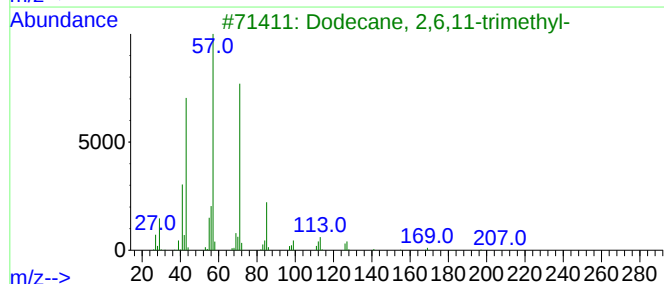
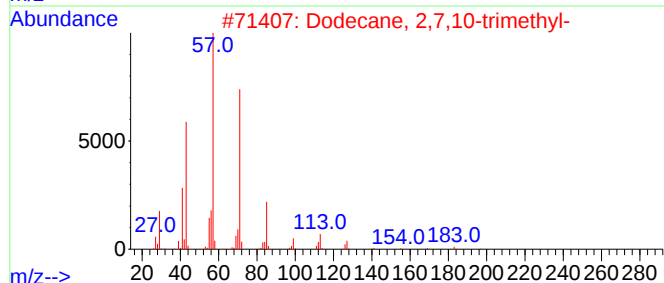
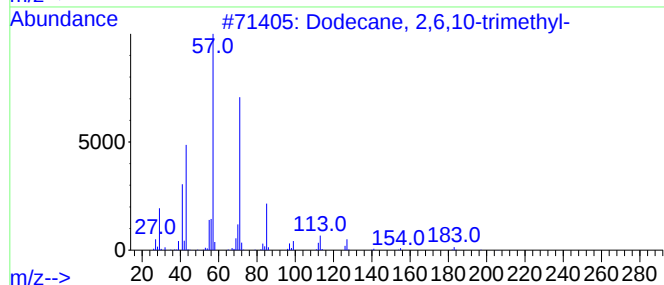
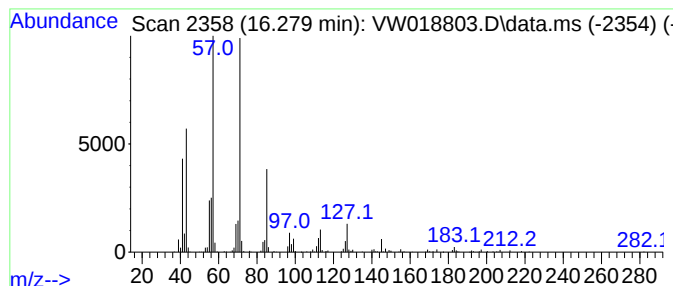
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.279 | 21.14 ug/L | 329952 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------------|-----|---------|-------------|------|
| 1    |      | Dodecane, 2,6,10-trimethyl- | 212 | C15H32  | 003891-98-3 | 80   |
| 2    |      | Dodecane, 2,7,10-trimethyl- | 212 | C15H32  | 074645-98-0 | 80   |
| 3    |      | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 80   |
| 4    |      | Nonane, 3-methyl-5-propyl-  | 184 | C13H28  | 031081-18-2 | 80   |
| 5    |      | Dodecane, 4-methyl-         | 184 | C13H28  | 006117-97-1 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042721\  
 Data File : VW018803.D  
 Acq On : 27 Apr 2021 15:09  
 Operator : SY/VA  
 Sample : M2177-04  
 Misc : 5.40G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG581

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM041421SMA.M  
 Quant Title : SFAM01.0

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Dimethyl ether     | 2.160  | 2.3     | ug/L  | 50232    | 1                     | 8.842  | 559070 | 25.0 |
| (DEL) Alkane: C... | 11.232 | 1.8     | ug/L  | 42142    | 2                     | 11.634 | 594115 | 25.0 |
| (DEL) Alkane: C... | 11.433 | 1.9     | ug/L  | 44980    | 2                     | 11.634 | 594115 | 25.0 |
| (DEL) Alkane: C... | 11.872 | 2.0     | ug/L  | 46792    | 2                     | 11.634 | 594115 | 25.0 |
| (DEL) Alkane: S... | 12.250 | 6.6     | ug/L  | 157848   | 2                     | 11.634 | 594115 | 25.0 |
| (DEL) Alkane: S... | 12.359 | 14.5    | ug/L  | 345030   | 2                     | 11.634 | 594115 | 25.0 |
| (DEL) Alkane: C... | 12.780 | 10.8    | ug/L  | 168631   | 3                     | 13.554 | 390210 | 25.0 |
| Glycine, furan-... | 12.865 | 10.4    | ug/L  | 161773   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: C... | 13.079 | 8.7     | ug/L  | 135932   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 13.341 | 10.8    | ug/L  | 168672   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: C... | 13.445 | 26.5    | ug/L  | 413849   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 13.481 | 8.7     | ug/L  | 136415   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 13.695 | 12.5    | ug/L  | 195360   | 3                     | 13.554 | 390210 | 25.0 |
| Sulfurous acid,... | 13.920 | 9.5     | ug/L  | 147981   | 3                     | 13.554 | 390210 | 25.0 |
| unknown-02         | 13.975 | 6.2     | ug/L  | 96752    | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 14.042 | 3.0     | ug/L  | 46190    | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 14.194 | 16.4    | ug/L  | 255898   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 14.261 | 17.5    | ug/L  | 273720   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 14.316 | 7.0     | ug/L  | 108405   | 3                     | 13.554 | 390210 | 25.0 |
| unknown-03         | 14.383 | 29.8    | ug/L  | 465062   | 3                     | 13.554 | 390210 | 25.0 |
| 1-Methyldecahyd... | 14.542 | 12.5    | ug/L  | 195541   | 3                     | 13.554 | 390210 | 25.0 |
| unknown-04         | 14.737 | 7.1     | ug/L  | 110348   | 3                     | 13.554 | 390210 | 25.0 |
| o-Cymene           | 14.792 | 20.2    | ug/L  | 314635   | 3                     | 13.554 | 390210 | 25.0 |
| Benzene, 2,4-di... | 15.060 | 8.6     | ug/L  | 133395   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 15.322 | 27.3    | ug/L  | 426081   | 3                     | 13.554 | 390210 | 25.0 |
| (DEL) Alkane: S... | 16.279 | 21.1    | ug/L  | 329952   | 3                     | 13.554 | 390210 | 25.0 |