

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
 Data File : VW021472.D  
 Acq On : 18 Dec 2021 13:29  
 Operator : SY/VA  
 Sample : M5154-16  
 Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BGL96

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Signal : TIC: VW021472.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         | 1.989       | 11            | 14          | 27           | rVB2     | 6418           | 12579         | 1.05%           | 0.083%        |
| 2         | 2.348       | 67            | 73          | 82           | rVB      | 53582          | 85921         | 7.15%           | 0.568%        |
| 3         | 2.495       | 92            | 97          | 109          | rBV      | 6170           | 12409         | 1.03%           | 0.082%        |
| 4         | 2.647       | 118           | 122         | 123          | rBV3     | 493            | 657           | 0.05%           | 0.004%        |
| 5         | 2.763       | 139           | 141         | 145          | rBV2     | 248            | 301           | 0.03%           | 0.002%        |
| 6         | 2.806       | 145           | 148         | 153          | rVV3     | 556            | 842           | 0.07%           | 0.006%        |
| 7         | 2.885       | 153           | 161         | 171          | rVV      | 25313          | 53073         | 4.42%           | 0.351%        |
| 8         | 3.385       | 238           | 243         | 251          | rVV2     | 651            | 1261          | 0.10%           | 0.008%        |
| 9         | 3.726       | 292           | 299         | 304          | rVB3     | 260            | 647           | 0.05%           | 0.004%        |
| 10        | 4.013       | 334           | 346         | 358          | rBV      | 73723          | 213352        | 17.75%          | 1.410%        |
| 11        | 4.123       | 359           | 364         | 375          | rVB      | 5696           | 14547         | 1.21%           | 0.096%        |
| 12        | 4.263       | 386           | 387         | 390          | rVB2     | 225            | 165           | 0.01%           | 0.001%        |
| 13        | 4.379       | 397           | 406         | 420          | rBB      | 1796           | 5331          | 0.44%           | 0.035%        |
| 14        | 4.683       | 454           | 456         | 458          | rBV      | 166            | 152           | 0.01%           | 0.001%        |
| 15        | 4.836       | 480           | 481         | 484          | rVV      | 140            | 140           | 0.01%           | 0.001%        |
| 16        | 4.915       | 484           | 494         | 504          | rVB3     | 3923           | 12908         | 1.07%           | 0.085%        |
| 17        | 5.269       | 549           | 552         | 555          | rBV2     | 128            | 215           | 0.02%           | 0.001%        |
| 18        | 5.500       | 587           | 590         | 591          | rVB      | 181            | 170           | 0.01%           | 0.001%        |
| 19        | 5.787       | 627           | 637         | 649          | rBB5     | 2338           | 7666          | 0.64%           | 0.051%        |
| 20        | 5.927       | 651           | 660         | 663          | rBV4     | 734            | 1729          | 0.14%           | 0.011%        |
| 21        | 6.250       | 708           | 713         | 715          | rBB      | 138            | 212           | 0.02%           | 0.001%        |
| 22        | 6.616       | 771           | 773         | 775          | rBV      | 157            | 151           | 0.01%           | 0.001%        |
| 23        | 6.714       | 783           | 789         | 795          | rVB4     | 497            | 1025          | 0.09%           | 0.007%        |
| 24        | 6.903       | 806           | 820         | 832          | rBV4     | 4172           | 15735         | 1.31%           | 0.104%        |
| 25        | 7.079       | 840           | 849         | 859          | rBV      | 14449          | 41419         | 3.45%           | 0.274%        |
| 26        | 7.421       | 903           | 905         | 910          | rBV      | 116            | 203           | 0.02%           | 0.001%        |
| 27        | 7.561       | 926           | 928         | 930          | rVB      | 148            | 144           | 0.01%           | 0.001%        |
| 28        | 7.646       | 930           | 942         | 955          | rBB      | 98462          | 244523        | 20.34%          | 1.616%        |
| 29        | 7.811       | 966           | 969         | 972          | rBB      | 116            | 139           | 0.01%           | 0.001%        |
| 30        | 7.854       | 973           | 976         | 977          | rBV      | 139            | 140           | 0.01%           | 0.001%        |
| 31        | 7.921       | 977           | 987         | 997          | rVB      | 24365          | 56644         | 4.71%           | 0.374%        |
| 32        | 8.030       | 997           | 1005        | 1015         | rBV2     | 3485           | 8680          | 0.72%           | 0.057%        |
| 33        | 8.158       | 1017          | 1026        | 1035         | rVB      | 32268          | 75014         | 6.24%           | 0.496%        |
| 34        | 8.274       | 1035          | 1045        | 1060         | rBV2     | 205097         | 587763        | 48.90%          | 3.884%        |
| 35        | 8.421       | 1064          | 1069        | 1070         | rVV4     | 2204           | 3948          | 0.33%           | 0.026%        |
| 36        | 8.475       | 1071          | 1078        | 1089         | rVB      | 35286          | 88276         | 7.34%           | 0.583%        |

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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 8.695  | 1110 | 1114 | 1115 | rBV2 | 675    | 844    | 0.07%  | 0.006% |
| 38 | 8.841  | 1128 | 1138 | 1151 | rBV  | 214300 | 418713 | 34.84% | 2.767% |
| 39 | 8.939  | 1152 | 1154 | 1156 | rVB  | 221    | 195    | 0.02%  | 0.001% |
| 40 | 9.067  | 1167 | 1175 | 1181 | rBV2 | 3780   | 8387   | 0.70%  | 0.055% |
| 41 | 9.146  | 1181 | 1188 | 1195 | rVB2 | 6198   | 12480  | 1.04%  | 0.082% |
| 42 | 9.219  | 1195 | 1200 | 1201 | rBV2 | 363    | 430    | 0.04%  | 0.003% |
| 43 | 9.274  | 1201 | 1209 | 1215 | rBV  | 130758 | 273101 | 22.72% | 1.804% |
| 44 | 9.329  | 1215 | 1218 | 1222 | rVB  | 20420  | 29236  | 2.43%  | 0.193% |
| 45 | 9.384  | 1222 | 1227 | 1236 | rVB2 | 32200  | 64015  | 5.33%  | 0.423% |
| 46 | 9.469  | 1236 | 1241 | 1247 | rVB2 | 3379   | 6569   | 0.55%  | 0.043% |
| 47 | 9.609  | 1251 | 1264 | 1271 | rVB3 | 13614  | 41803  | 3.48%  | 0.276% |
| 48 | 9.664  | 1271 | 1273 | 1277 | rBV3 | 573    | 849    | 0.07%  | 0.006% |
| 49 | 9.756  | 1279 | 1288 | 1302 | rVB  | 35877  | 74765  | 6.22%  | 0.494% |
| 50 | 9.896  | 1302 | 1311 | 1317 | rBV  | 56379  | 116702 | 9.71%  | 0.771% |
| 51 | 9.987  | 1321 | 1326 | 1330 | rBV  | 33320  | 58329  | 4.85%  | 0.385% |
| 52 | 10.036 | 1330 | 1334 | 1339 | rVB  | 61777  | 90401  | 7.52%  | 0.597% |
| 53 | 10.097 | 1339 | 1344 | 1347 | rBV3 | 19420  | 35386  | 2.94%  | 0.234% |
| 54 | 10.250 | 1357 | 1369 | 1374 | rBV2 | 29370  | 63077  | 5.25%  | 0.417% |
| 55 | 10.323 | 1374 | 1381 | 1396 | rBV  | 373702 | 722007 | 60.07% | 4.771% |
| 56 | 10.445 | 1396 | 1401 | 1404 | rBV2 | 14061  | 24254  | 2.02%  | 0.160% |
| 57 | 10.487 | 1404 | 1408 | 1418 | rVB6 | 16679  | 50519  | 4.20%  | 0.334% |
| 58 | 10.579 | 1418 | 1423 | 1432 | rBV  | 51717  | 94215  | 7.84%  | 0.623% |
| 59 | 10.664 | 1432 | 1437 | 1443 | rBV  | 32749  | 54723  | 4.55%  | 0.362% |
| 60 | 10.762 | 1444 | 1453 | 1457 | rBV5 | 30184  | 78130  | 6.50%  | 0.516% |
| 61 | 10.847 | 1463 | 1467 | 1472 | rVB2 | 39385  | 68084  | 5.66%  | 0.450% |
| 62 | 10.926 | 1472 | 1480 | 1486 | rBV4 | 96728  | 238079 | 19.81% | 1.573% |
| 63 | 10.993 | 1488 | 1491 | 1494 | rVV  | 32568  | 52703  | 4.39%  | 0.348% |
| 64 | 11.030 | 1494 | 1497 | 1501 | rVB3 | 46330  | 70570  | 5.87%  | 0.466% |
| 65 | 11.109 | 1506 | 1510 | 1514 | rBV  | 58979  | 100040 | 8.32%  | 0.661% |
| 66 | 11.176 | 1517 | 1521 | 1526 | rBV  | 85145  | 139666 | 11.62% | 0.923% |
| 67 | 11.231 | 1526 | 1530 | 1534 | rVV  | 68050  | 105827 | 8.81%  | 0.699% |
| 68 | 11.335 | 1544 | 1547 | 1551 | rBV2 | 58076  | 78969  | 6.57%  | 0.522% |
| 69 | 11.432 | 1560 | 1563 | 1571 | rVB2 | 116264 | 234114 | 19.48% | 1.547% |
| 70 | 11.511 | 1571 | 1576 | 1586 | rVB3 | 48488  | 110453 | 9.19%  | 0.730% |
| 71 | 11.627 | 1589 | 1595 | 1603 | rBV  | 311873 | 552148 | 45.94% | 3.648% |
| 72 | 11.761 | 1612 | 1617 | 1621 | rBV  | 88655  | 143297 | 11.92% | 0.947% |
| 73 | 11.816 | 1621 | 1626 | 1630 | rVV4 | 97058  | 194569 | 16.19% | 1.286% |
| 74 | 11.871 | 1630 | 1635 | 1639 | rVV  | 289896 | 529446 | 44.05% | 3.498% |
| 75 | 11.914 | 1639 | 1642 | 1648 | rVB  | 152689 | 249021 | 20.72% | 1.645% |
| 76 | 11.981 | 1648 | 1653 | 1654 | rBV3 | 16039  | 27690  | 2.30%  | 0.183% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BGL96

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

|     |        |      |      |      |      |        |         |         |        |
|-----|--------|------|------|------|------|--------|---------|---------|--------|
| 77  | 12.060 | 1659 | 1666 | 1671 | rVB3 | 70204  | 156995  | 13.06%  | 1.037% |
| 78  | 12.133 | 1671 | 1678 | 1690 | rBV2 | 336763 | 951601  | 79.18%  | 6.288% |
| 79  | 12.249 | 1694 | 1697 | 1701 | rVB  | 206596 | 282945  | 23.54%  | 1.870% |
| 80  | 12.304 | 1701 | 1706 | 1707 | rBV2 | 122854 | 175953  | 14.64%  | 1.163% |
| 81  | 12.383 | 1716 | 1719 | 1723 | rVB  | 225091 | 294310  | 24.49%  | 1.945% |
| 82  | 12.694 | 1762 | 1770 | 1775 | rBV4 | 228364 | 531011  | 44.18%  | 3.509% |
| 83  | 12.780 | 1780 | 1784 | 1790 | rVB2 | 239839 | 432985  | 36.03%  | 2.861% |
| 84  | 12.859 | 1790 | 1797 | 1800 | rBV3 | 163691 | 368466  | 30.66%  | 2.435% |
| 85  | 12.987 | 1816 | 1818 | 1824 | rVB2 | 161848 | 234259  | 19.49%  | 1.548% |
| 86  | 13.078 | 1829 | 1833 | 1836 | rVV2 | 136060 | 191777  | 15.96%  | 1.267% |
| 87  | 13.121 | 1837 | 1840 | 1843 | rVV2 | 98826  | 159891  | 13.30%  | 1.056% |
| 88  | 13.164 | 1843 | 1847 | 1855 | rVB3 | 247411 | 468310  | 38.96%  | 3.094% |
| 89  | 13.292 | 1865 | 1868 | 1871 | rBV2 | 99900  | 145737  | 12.13%  | 0.963% |
| 90  | 13.554 | 1906 | 1911 | 1915 | rBV  | 297548 | 490139  | 40.78%  | 3.239% |
| 91  | 13.877 | 1955 | 1964 | 1969 | rBV2 | 493215 | 1201892 | 100.00% | 7.941% |
| 92  | 14.200 | 2013 | 2017 | 2021 | rBV3 | 50727  | 100623  | 8.37%   | 0.665% |
| 93  | 14.261 | 2022 | 2027 | 2033 | rBV5 | 149401 | 301537  | 25.09%  | 1.992% |
| 94  | 14.322 | 2034 | 2037 | 2042 | rVB5 | 89446  | 132795  | 11.05%  | 0.877% |
| 95  | 14.383 | 2042 | 2047 | 2050 | rBV2 | 199968 | 350779  | 29.19%  | 2.318% |
| 96  | 14.639 | 2086 | 2089 | 2094 | rVB  | 79514  | 108891  | 9.06%   | 0.719% |
| 97  | 14.724 | 2100 | 2103 | 2108 | rBV  | 71557  | 113709  | 9.46%   | 0.751% |
| 98  | 15.364 | 2203 | 2208 | 2213 | rVB  | 295059 | 496780  | 41.33%  | 3.282% |
| 99  | 16.431 | 2379 | 2383 | 2403 | rVB3 | 98838  | 350520  | 29.16%  | 2.316% |
| 100 | 16.639 | 2410 | 2417 | 2425 | rBV4 | 135205 | 330900  | 27.53%  | 2.186% |

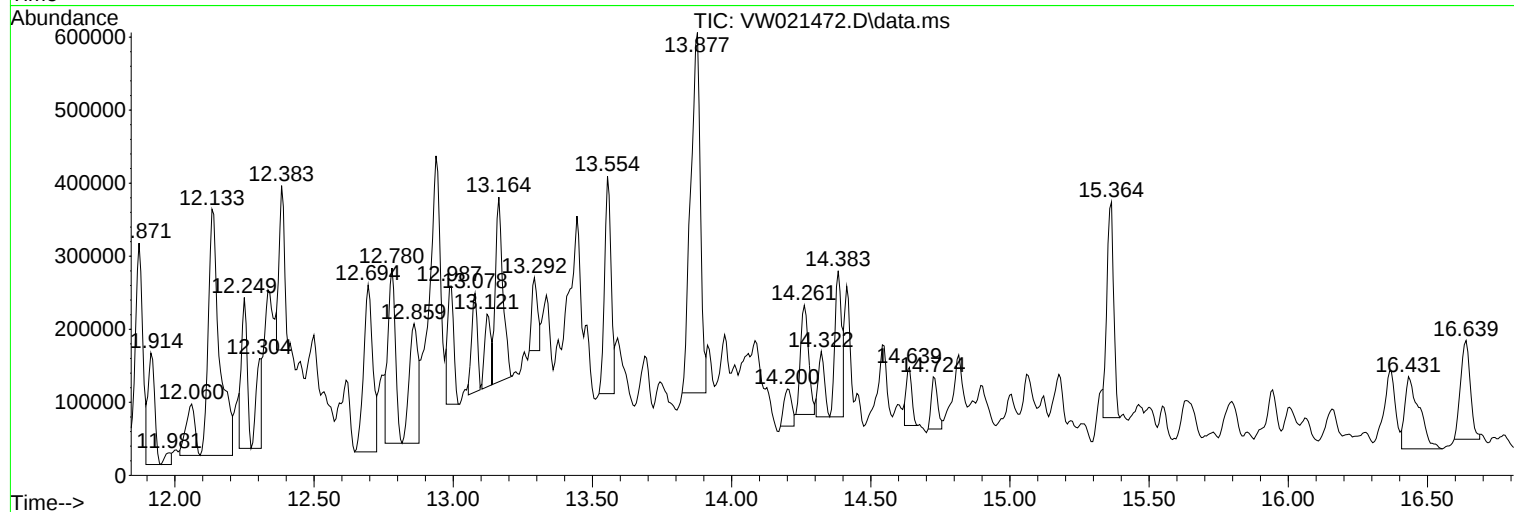
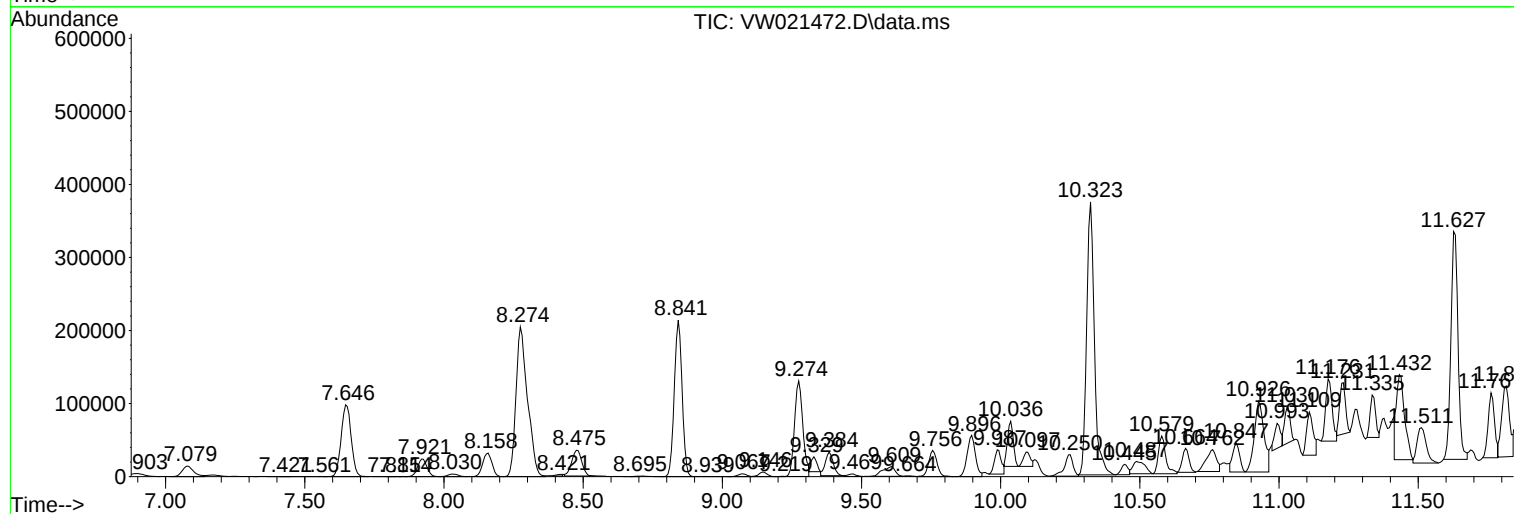
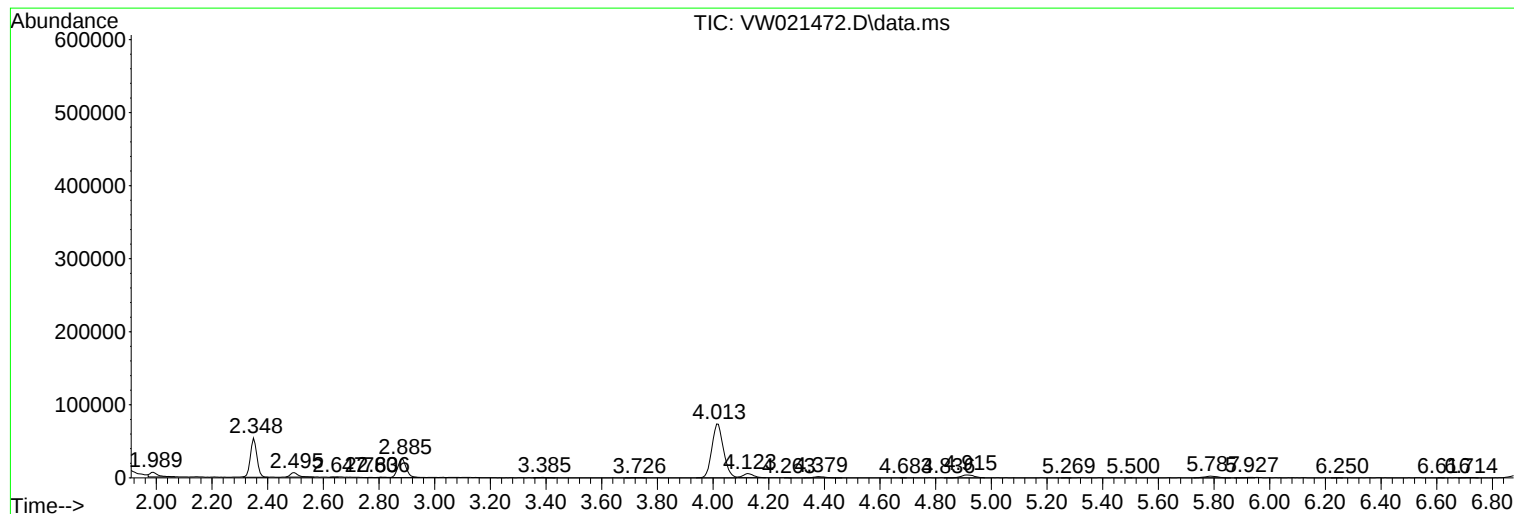
Sum of corrected areas: 15134692

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

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



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

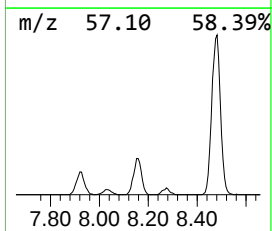
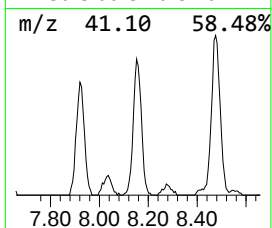
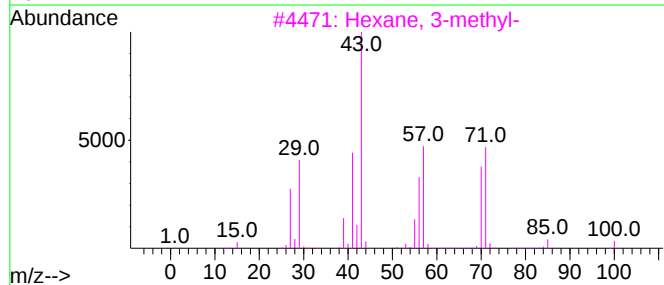
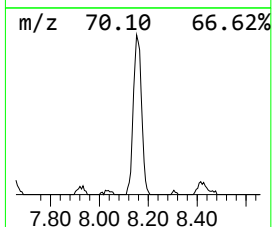
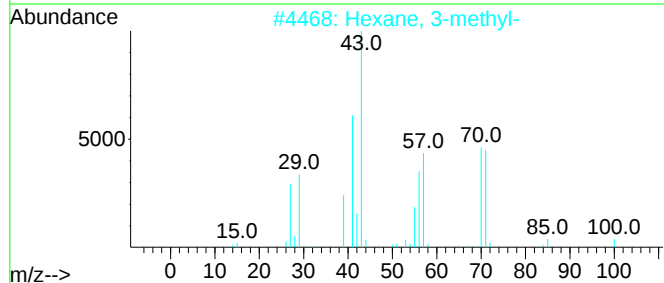
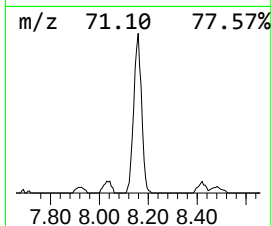
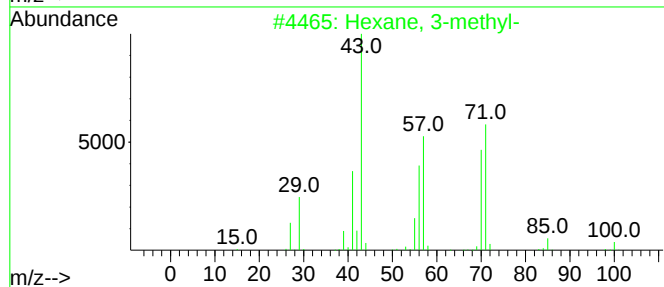
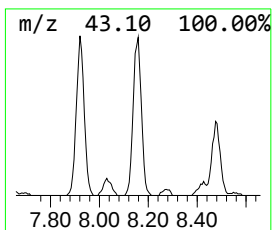
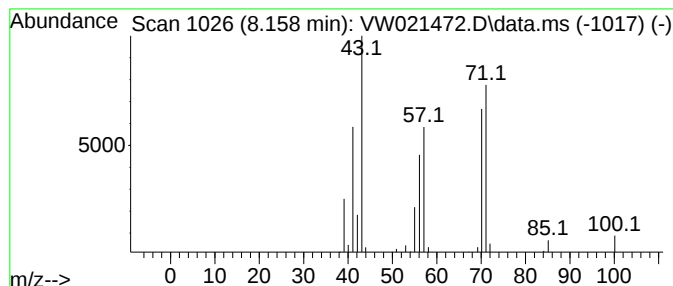
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 8.158 | 4.48 ug/L | 75014 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | Hexane, 3-methyl-        | 100 | C7H16   | 000589-34-4 | 91   |
| 2    |      | Hexane, 3-methyl-        | 100 | C7H16   | 000589-34-4 | 90   |
| 3    |      | Hexane, 3-methyl-        | 100 | C7H16   | 000589-34-4 | 90   |
| 4    |      | Decane, 3,3,4-trimethyl- | 184 | C13H28  | 049622-18-6 | 59   |
| 5    |      | Heptane, 4-methyl-       | 114 | C8H18   | 000589-53-7 | 59   |



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

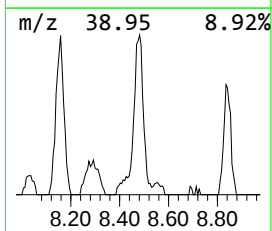
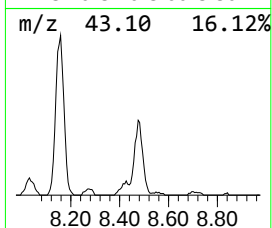
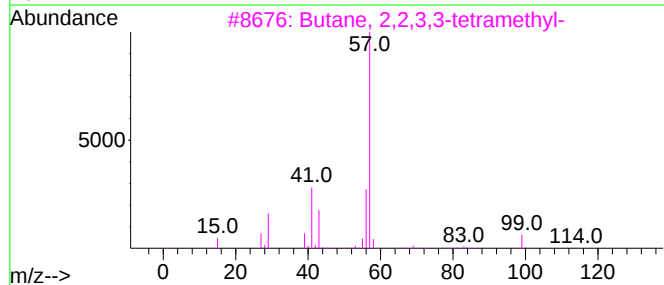
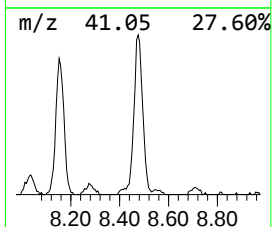
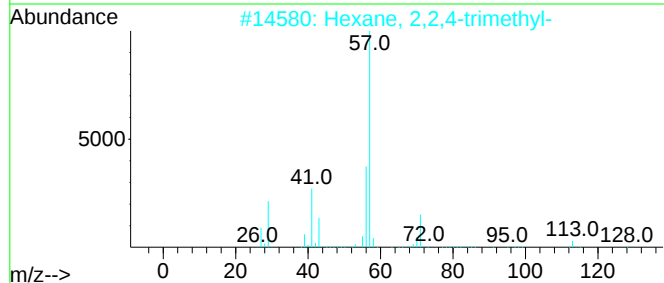
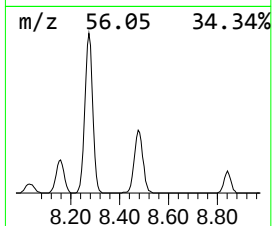
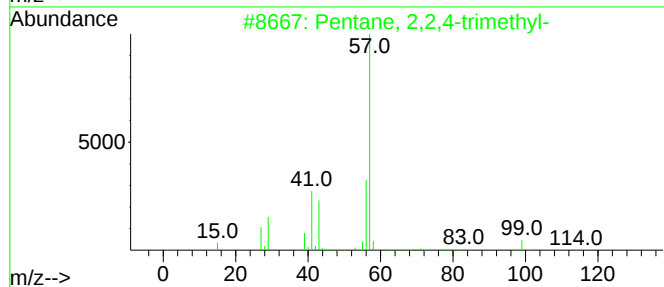
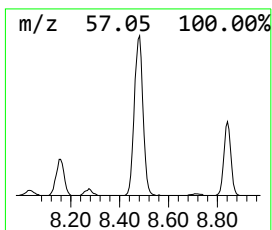
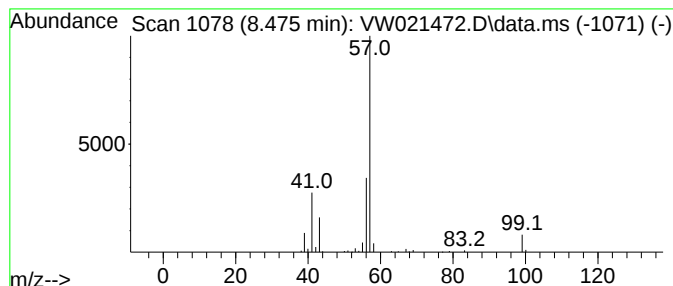
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 25

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 8.475 | 5.27 ug/L | 88276 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,2,4-trimethyl-    | 114 | C8H18   | 000540-84-1 | 72   |
| 2    |    |   | Hexane, 2,2,4-trimethyl-     | 128 | C9H20   | 016747-26-5 | 72   |
| 3    |    |   | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 72   |
| 4    |    |   | Hexane, 2,2-dimethyl-        | 114 | C8H18   | 000590-73-8 | 72   |
| 5    |    |   | Pentane, 2,2,4-trimethyl-    | 114 | C8H18   | 000540-84-1 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

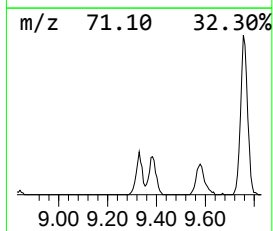
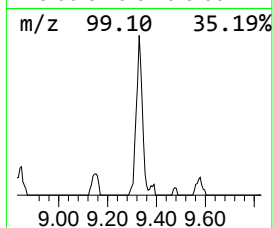
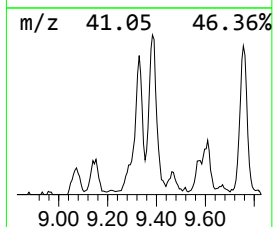
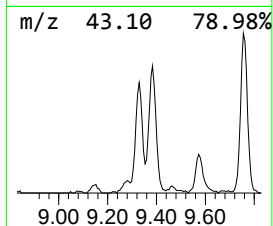
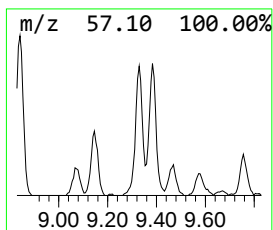
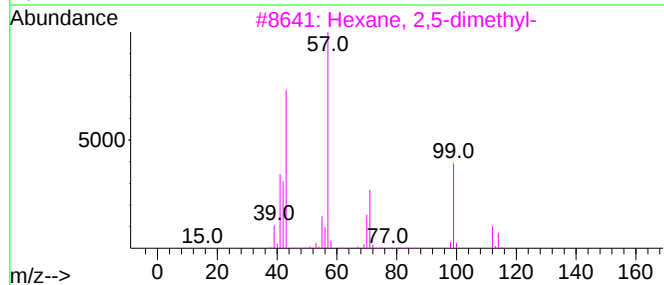
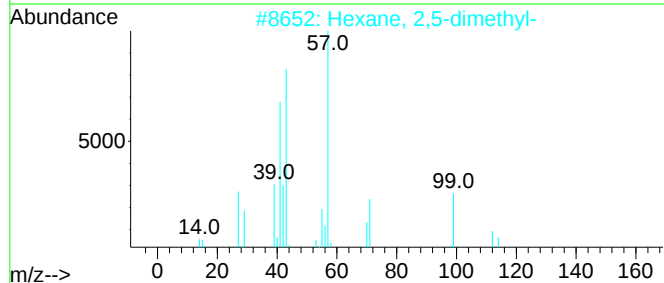
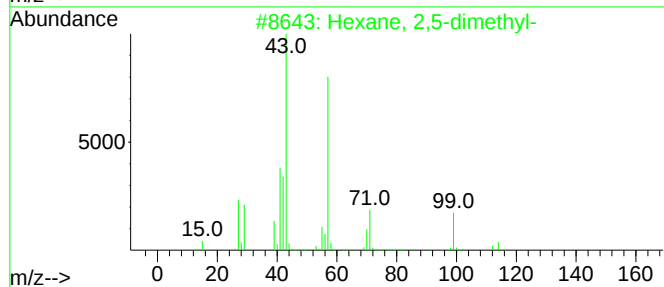
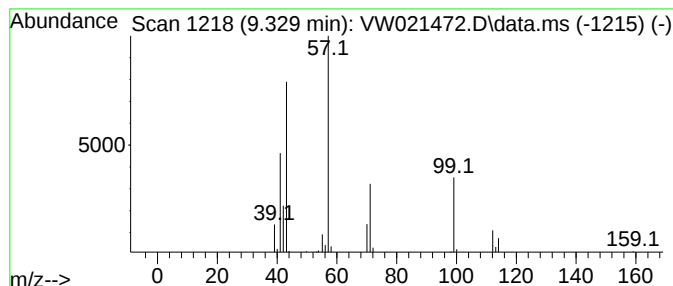
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 44

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 9.329 | 1.75 ug/L | 29236 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2,5-dimethyl-       | 114 | C8H18   | 000592-13-2 | 86   |
| 2    |    |   | Hexane, 2,5-dimethyl-       | 114 | C8H18   | 000592-13-2 | 80   |
| 3    |    |   | Hexane, 2,5-dimethyl-       | 114 | C8H18   | 000592-13-2 | 50   |
| 4    |    |   | Decane, 2,6,7-trimethyl-    | 184 | C13H28  | 062108-25-2 | 50   |
| 5    |    |   | 1-Pyrrolidinecarboxaldehyde | 99  | C5H9NO  | 003760-54-1 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

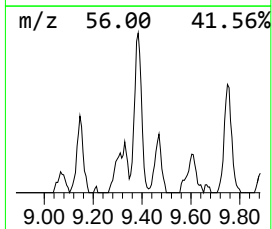
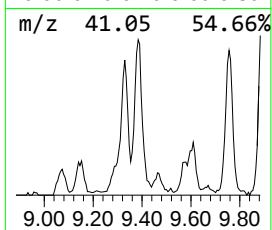
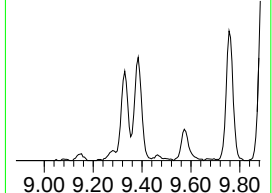
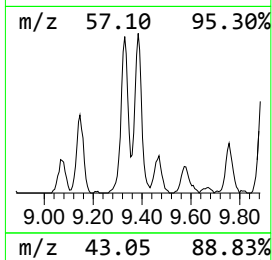
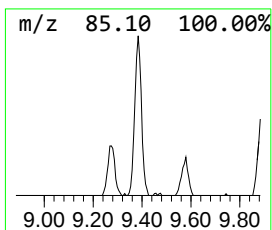
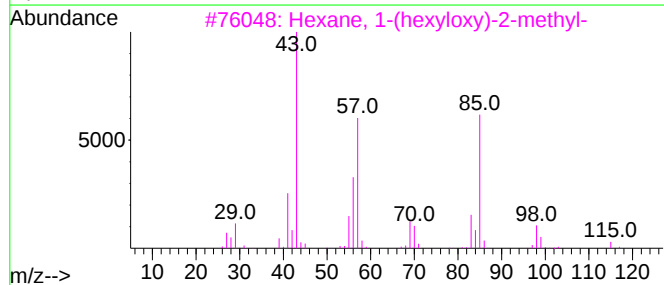
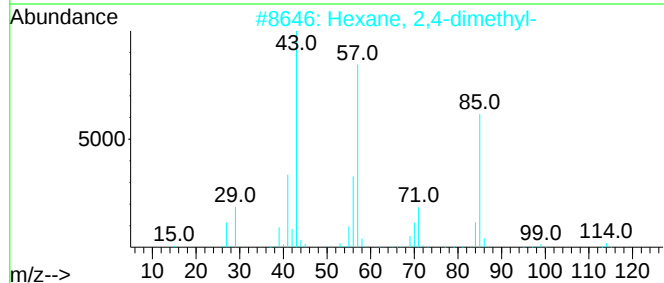
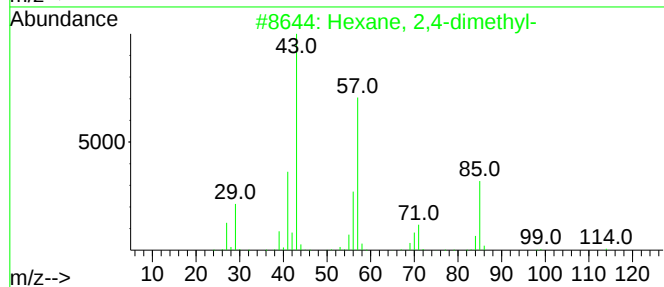
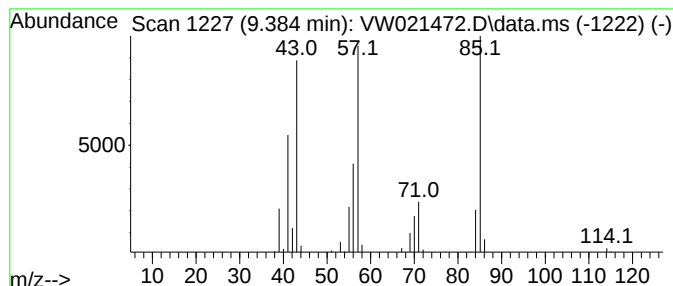
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 9.384 | 3.82 ug/L | 64015 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2,4-dimethyl-          | 114 | C8H18   | 000589-43-5 | 91   |
| 2    |    |   | Hexane, 2,4-dimethyl-          | 114 | C8H18   | 000589-43-5 | 87   |
| 3    |    |   | Hexane, 1-(hexyloxy)-2-methyl- | 200 | C13H28O | 074421-17-3 | 64   |
| 4    |    |   | Hexane, 2,4-dimethyl-          | 114 | C8H18   | 000589-43-5 | 62   |
| 5    |    |   | Heptane, 4,4-dimethyl-         | 128 | C9H20   | 001068-19-5 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

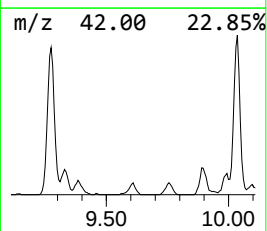
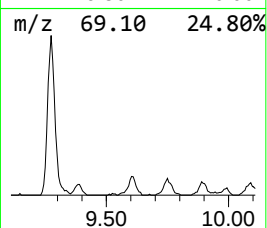
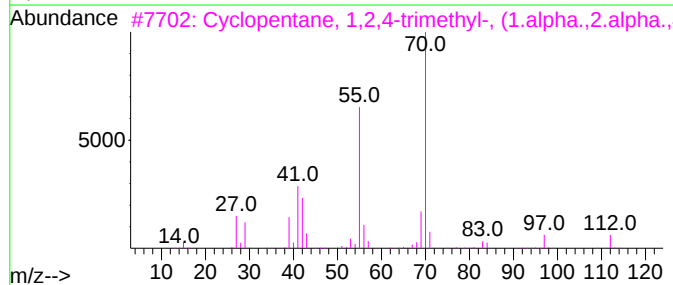
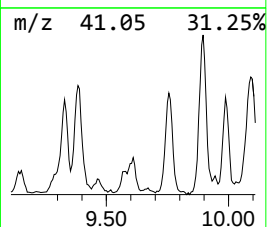
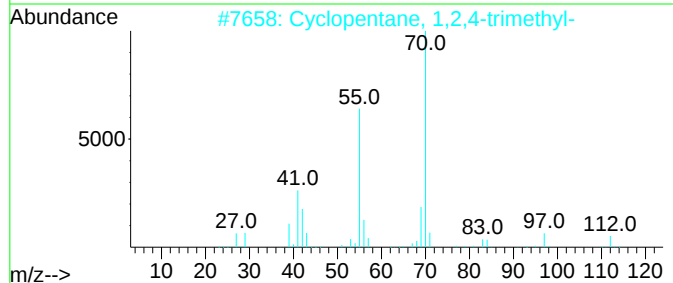
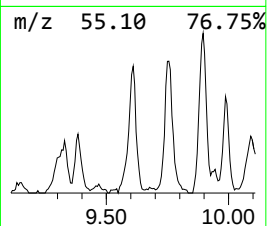
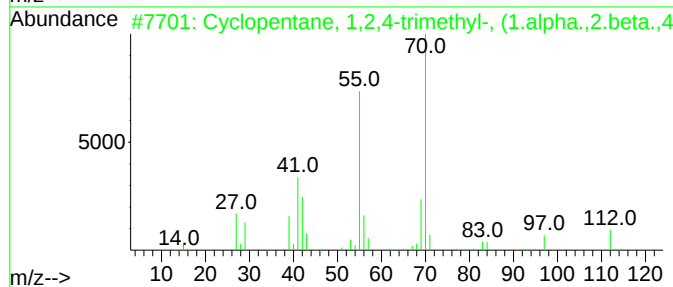
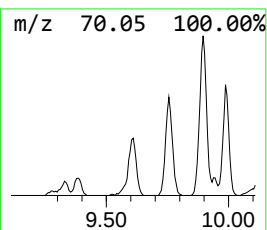
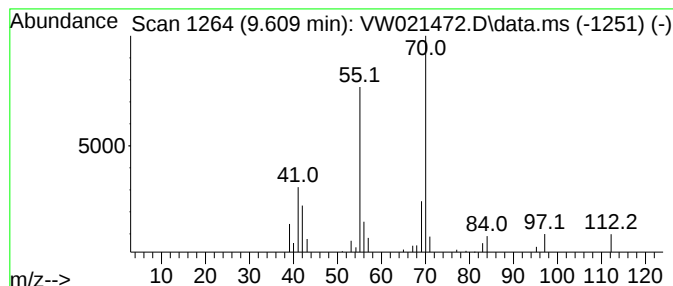
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Quant Title : SFAM01.0

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

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Peak Number 5 (DEL) Alkane: Cyclic9.609 Concentration Rank 39

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 9.609 | 2.50 ug/L | 41803 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16   | 016883-48-0 | 91   |
| 2    |    |   | Cyclopentane, 1,2,4-trimethyl-      | 112 | C8H16   | 002815-58-9 | 91   |
| 3    |    |   | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16   | 004850-28-6 | 91   |
| 4    |    |   | Cyclopentane, 1,2,4-trimethyl-      | 112 | C8H16   | 002815-58-9 | 91   |
| 5    |    |   | Heptane, 3-methylene-               | 112 | C8H16   | 001632-16-2 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

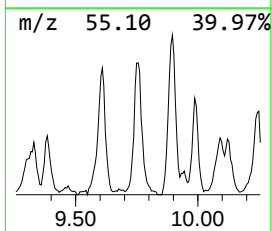
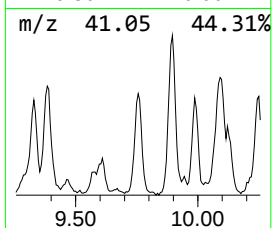
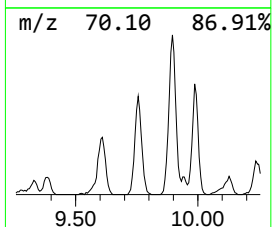
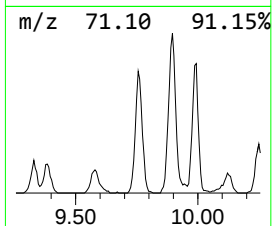
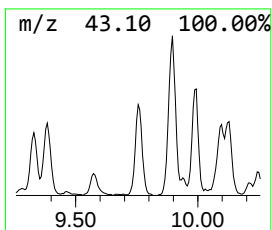
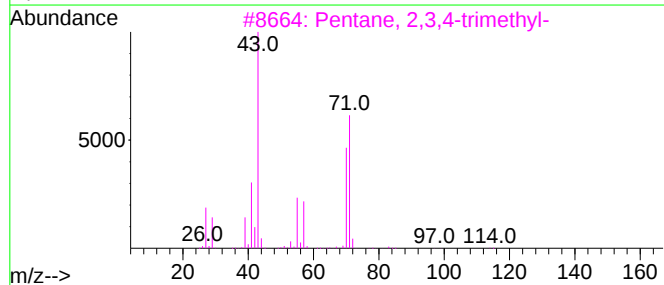
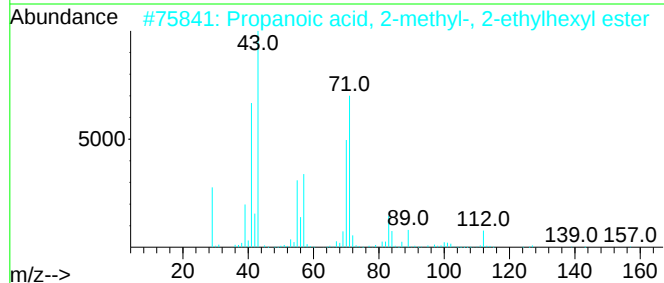
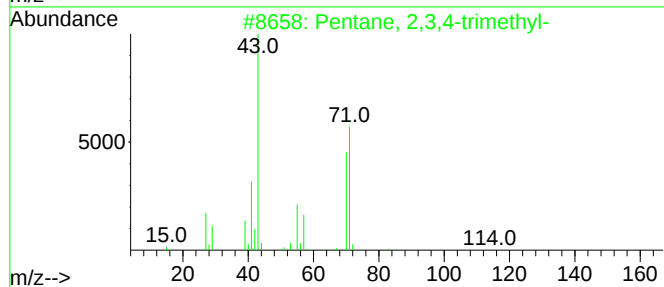
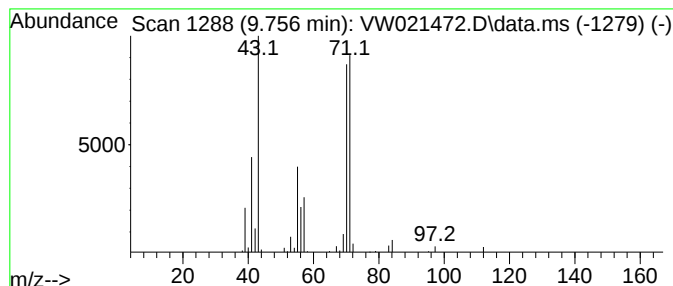
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Quant Title : SFAM01.0

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

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 31

| R.T.      | EstConc                             | Area  | Relative to ISTD    | R.T.        |      |
|-----------|-------------------------------------|-------|---------------------|-------------|------|
| 9.756     | 4.46 ug/L                           | 74765 | 1,4-Difluorobenzene | 8.841       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm             | CAS#        | Qual |
| 1         | Pentane, 2,3,4-trimethyl-           | 114   | C8H18               | 000565-75-3 | 72   |
| 2         | Propanoic acid, 2-methyl-, 2-eth... | 200   | C12H24O2            | 035061-61-1 | 64   |
| 3         | Pentane, 2,3,4-trimethyl-           | 114   | C8H18               | 000565-75-3 | 56   |
| 4         | Heptane, 4-methyl-                  | 114   | C8H18               | 000589-53-7 | 56   |
| 5         | Decane, 3,3,4-trimethyl-            | 184   | C13H28              | 049622-18-6 | 56   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

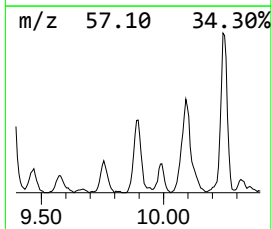
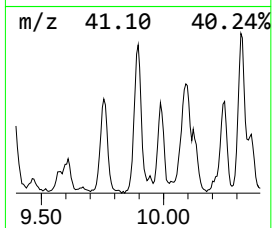
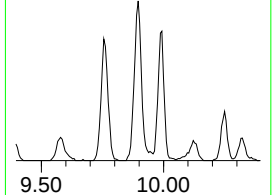
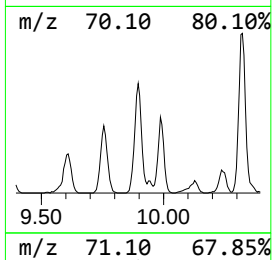
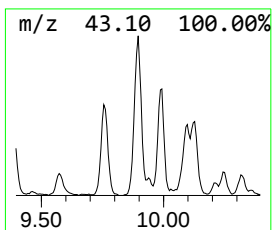
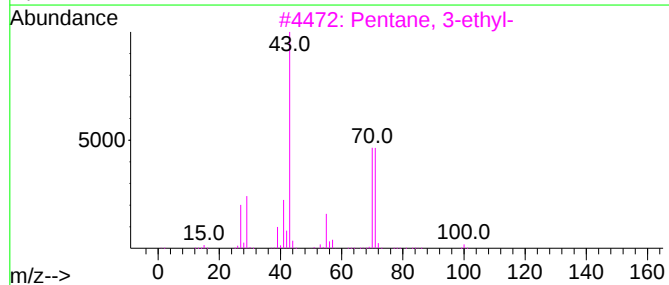
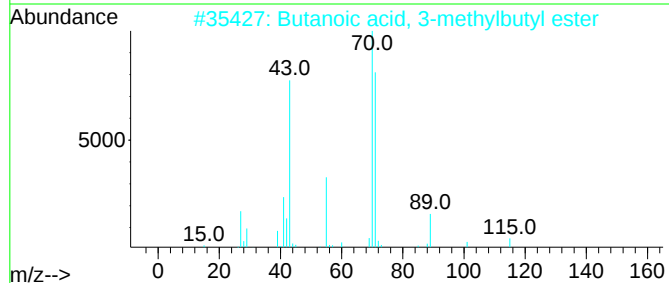
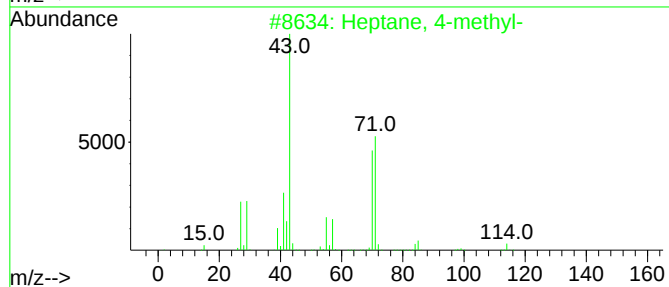
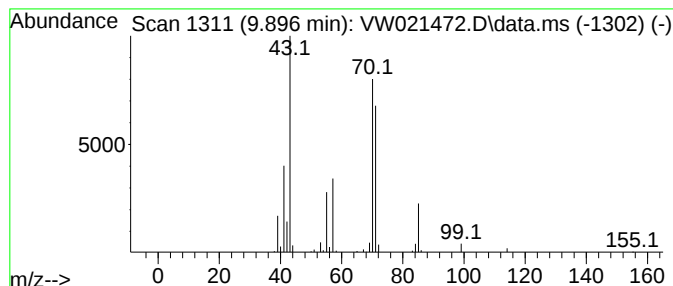
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 9.896 | 6.97 ug/L | 116702 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 4-methyl-                 | 114 | C8H18   | 000589-53-7 | 72   |
| 2    |    |   | Butanoic acid, 3-methylbutyl ester | 158 | C9H18O2 | 000106-27-4 | 64   |
| 3    |    |   | Pentane, 3-ethyl-                  | 100 | C7H16   | 000617-78-7 | 64   |
| 4    |    |   | Hexane, 2,3-dimethyl-              | 114 | C8H18   | 000584-94-1 | 64   |
| 5    |    |   | Diisooamyl ether                   | 158 | C10H22O | 000544-01-4 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

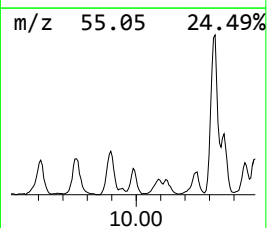
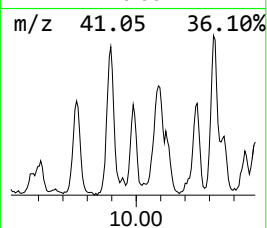
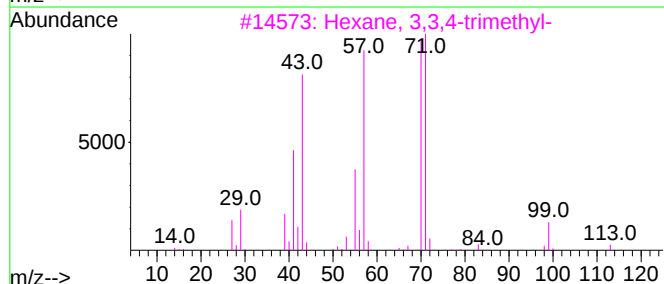
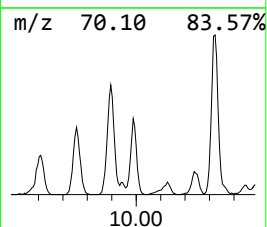
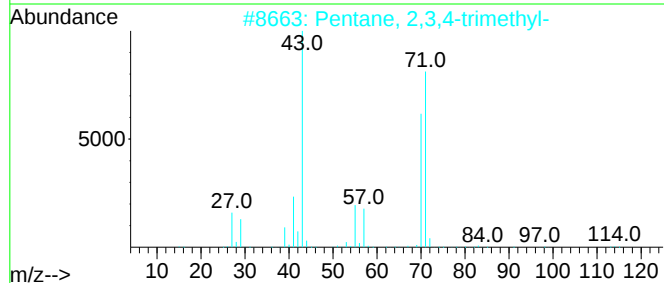
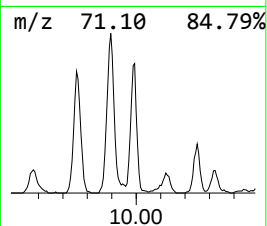
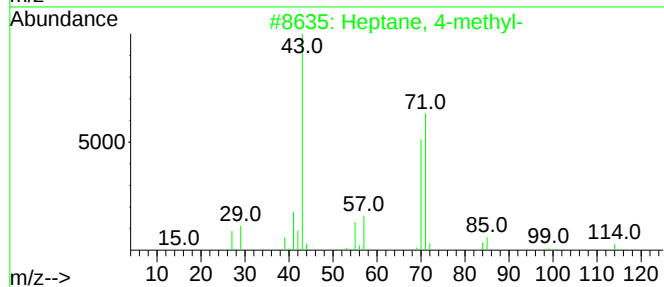
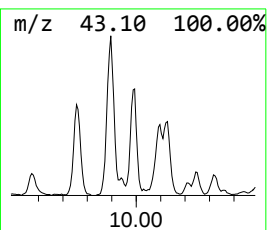
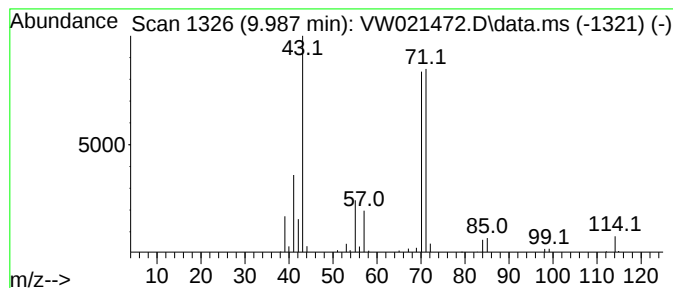
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 35

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 9.987 | 3.48 ug/L | 58329 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 80   |
| 2    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 78   |
| 3    |    |   | Hexane, 3,3,4-trimethyl-  | 128 | C9H20   | 016747-31-2 | 78   |
| 4    |    |   | Diisooamyl ether          | 158 | C10H22O | 000544-01-4 | 78   |
| 5    |    |   | Hexane, 2,3-dimethyl-     | 114 | C8H18   | 000584-94-1 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

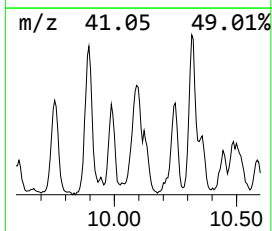
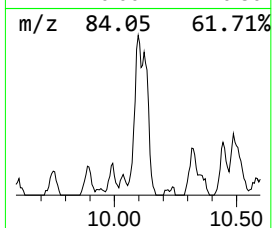
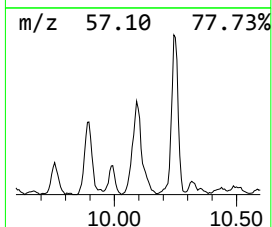
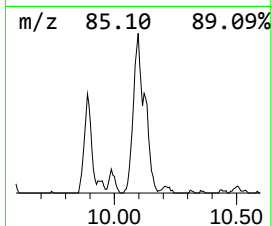
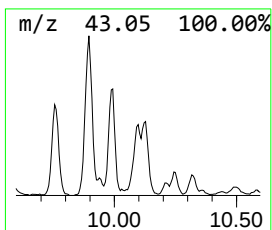
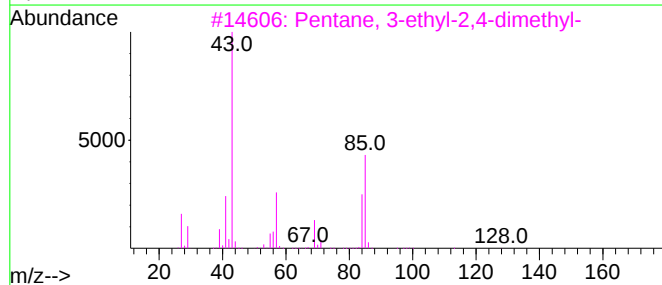
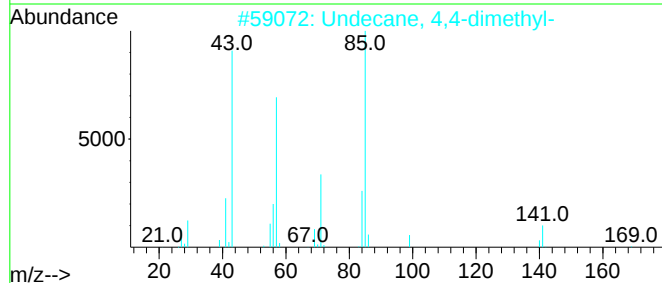
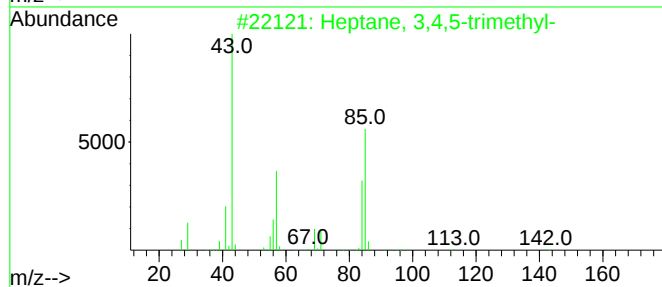
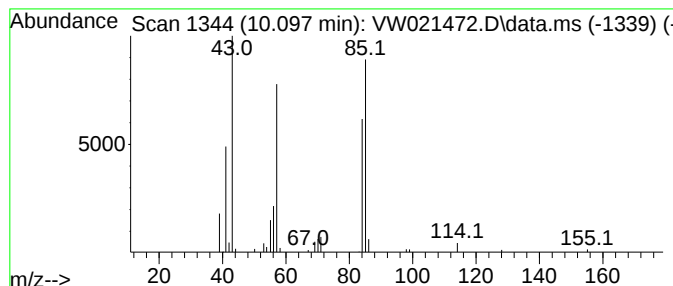
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T.   | EstConc   | Area  | Relative to ISTD    | R.T.  |
|--------|-----------|-------|---------------------|-------|
| 10.097 | 2.11 ug/L | 35386 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 3,4,5-trimethyl-      | 142 | C10H22  | 020278-89-1 | 78   |
| 2    |    |   | Undecane, 4,4-dimethyl-        | 184 | C13H28  | 017312-68-4 | 64   |
| 3    |    |   | Pentane, 3-ethyl-2,4-dimethyl- | 128 | C9H20   | 001068-87-7 | 64   |
| 4    |    |   | Heptane, 4,4-dimethyl-         | 128 | C9H20   | 001068-19-5 | 64   |
| 5    |    |   | Pentane, 2,3,3,4-tetramethyl-  | 128 | C9H20   | 016747-38-9 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

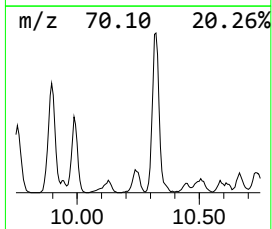
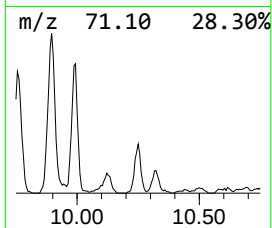
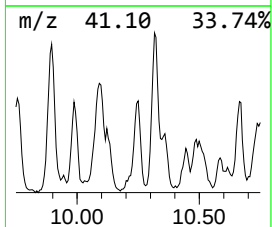
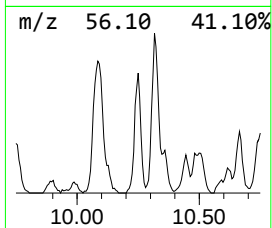
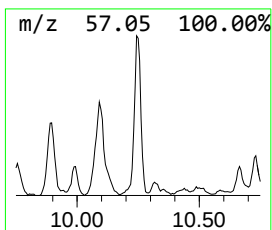
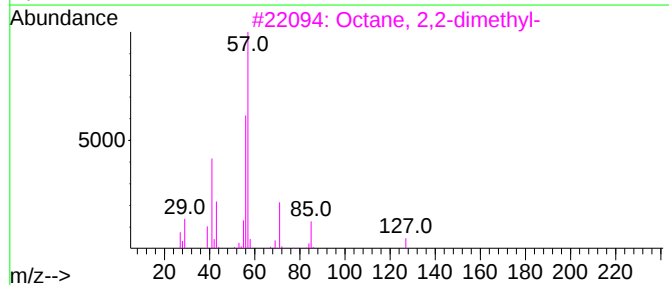
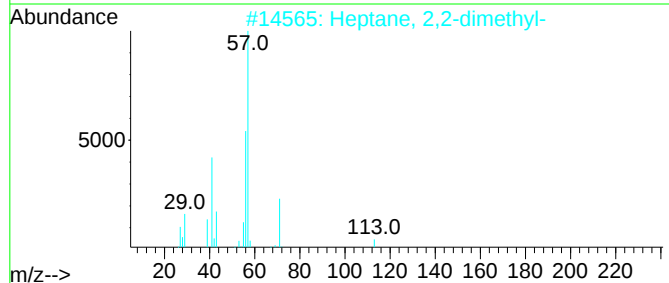
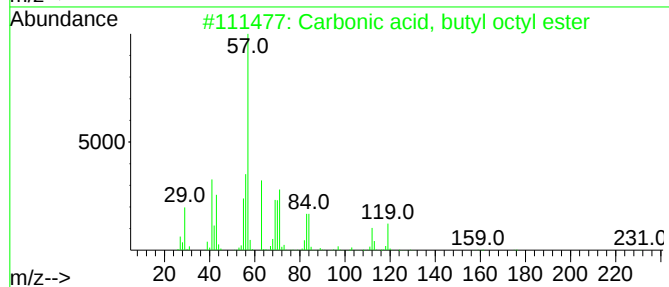
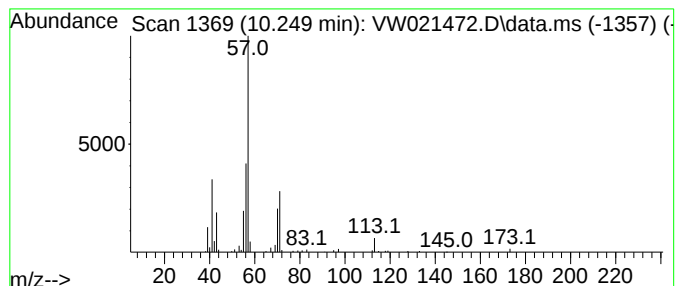
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Carbonic acid, butyl octyl ... Concentration Rank 38

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 10.249 | 2.86 ug/L | 63077 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#         | Qual |
|------|----|---|----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Carbonic acid, butyl octyl ester | 230 | C13H26O3 | 1010314-63-5 | 64   |
| 2    |    |   | Heptane, 2,2-dimethyl-           | 128 | C9H20    | 001071-26-7  | 59   |
| 3    |    |   | Octane, 2,2-dimethyl-            | 142 | C10H22   | 015869-87-1  | 50   |
| 4    |    |   | Hexane, 2,2,5,5-tetramethyl-     | 142 | C10H22   | 001071-81-4  | 47   |
| 5    |    |   | Hexane, 2,2,5-trimethyl-         | 128 | C9H20    | 003522-94-9  | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

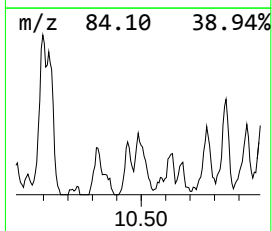
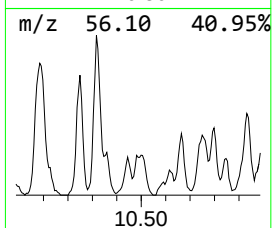
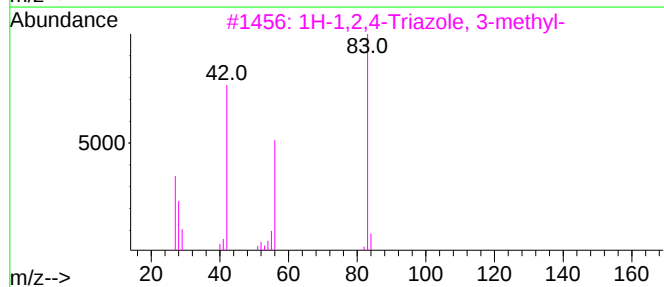
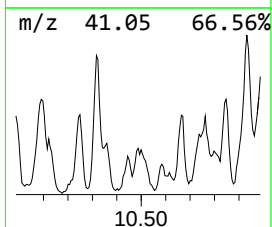
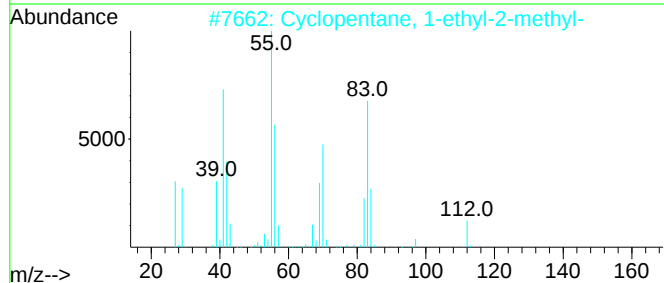
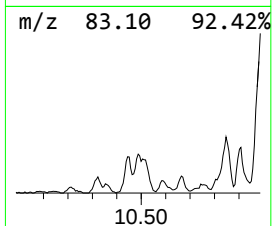
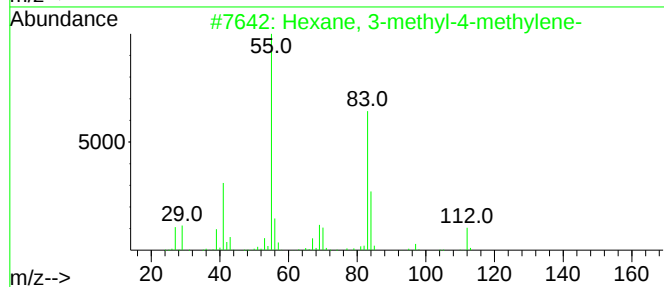
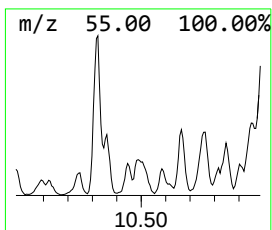
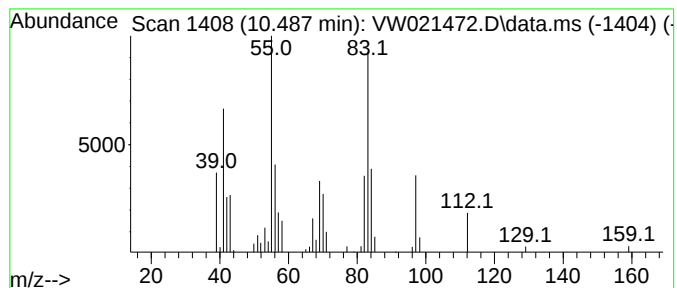
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 42

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 10.487 | 2.29 ug/L | 50519 | Chlorobenzene-d5 | 11.627 |

| Hit# | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|---|-------------------------------------|-----|---------|-------------|------|
| 1    |   | Hexane, 3-methyl-4-methylene-       | 112 | C8H16   | 003404-67-9 | 52   |
| 2    |   | Cyclopentane, 1-ethyl-2-methyl-     | 112 | C8H16   | 003726-46-3 | 46   |
| 3    |   | 1H-1,2,4-Triazole, 3-methyl-        | 83  | C3H5N3  | 007170-01-6 | 46   |
| 4    |   | Cyclopentane, 1-ethyl-2-methyl-,... | 112 | C8H16   | 000930-89-2 | 46   |
| 5    |   | 3-Heptene, 3-methyl-                | 112 | C8H16   | 007300-03-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

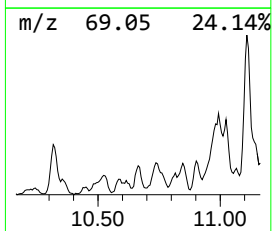
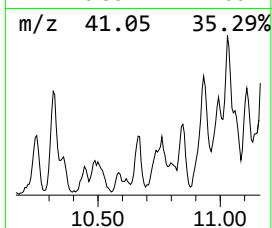
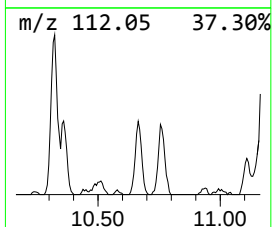
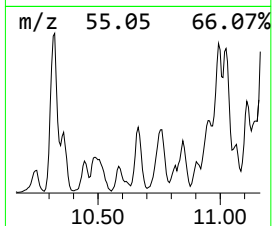
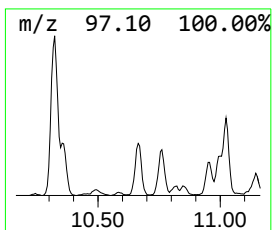
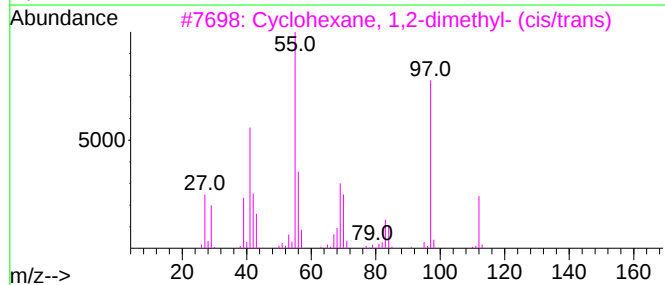
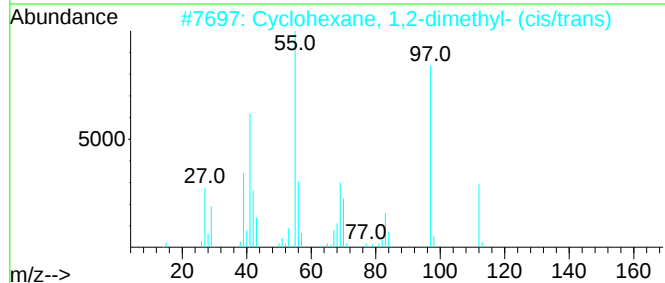
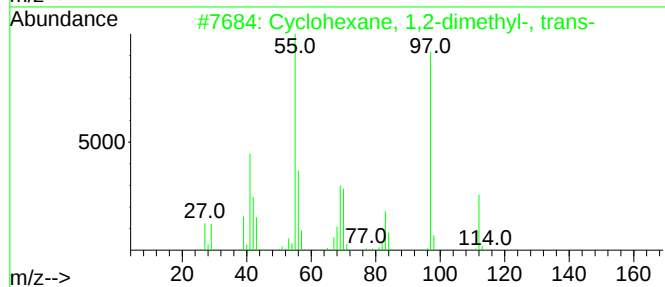
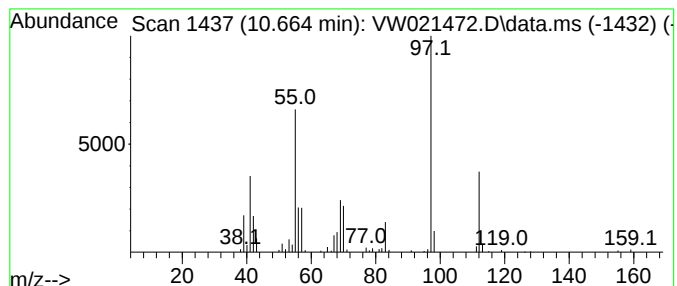
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Quant Title : SFAM01.0

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

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Peak Number 13 (DEL) Alkane: Cyclic10.664 Concentration Rank 40

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 10.664 | 2.48 ug/L | 54723 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 91   |
| 2    |    |   | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 91   |
| 3    |    |   | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 91   |
| 4    |    |   | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 91   |
| 5    |    |   | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

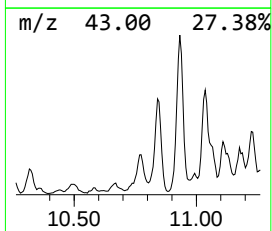
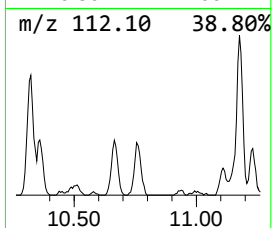
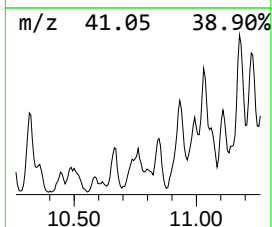
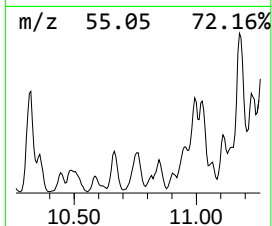
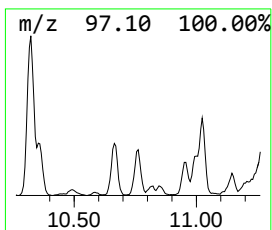
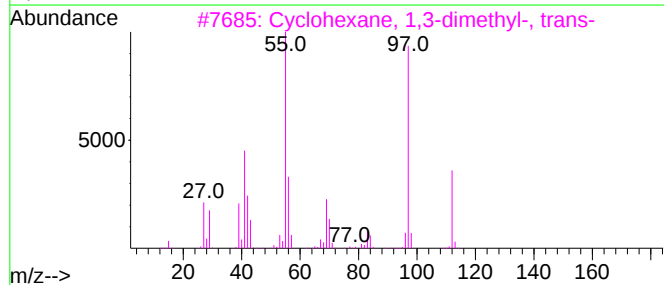
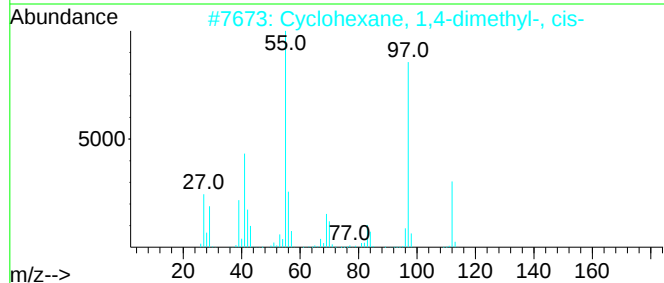
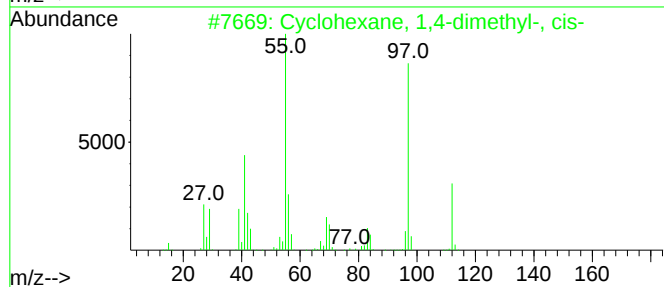
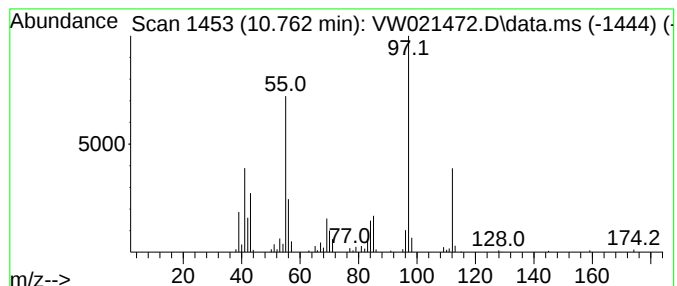
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Quant Title : SFAM01.0

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

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Peak Number 14 (DEL) Alkane: Cyclic10.762 Concentration Rank 34

| R.T.      | EstConc                            | Area  | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|-------|------------------|-------------|------|
| 10.762    | 3.54 ug/L                          | 78130 | Chlorobenzene-d5 | 11.627      |      |
| Hit# of 5 | Tentative ID                       | MW    | MolForm          | CAS#        | Qual |
| 1         | Cyclohexane, 1,4-dimethyl-, cis-   | 112   | C8H16            | 000624-29-3 | 91   |
| 2         | Cyclohexane, 1,4-dimethyl-, cis-   | 112   | C8H16            | 000624-29-3 | 91   |
| 3         | Cyclohexane, 1,3-dimethyl-, trans- | 112   | C8H16            | 002207-03-6 | 90   |
| 4         | Cyclohexane, 1,3-dimethyl-, trans- | 112   | C8H16            | 002207-03-6 | 90   |
| 5         | Cyclohexane, 1,3-dimethyl-, trans- | 112   | C8H16            | 002207-03-6 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

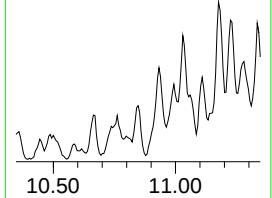
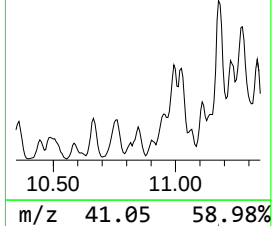
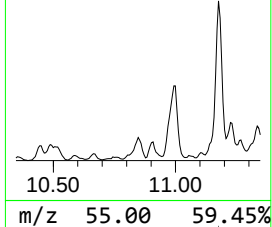
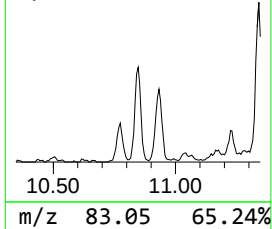
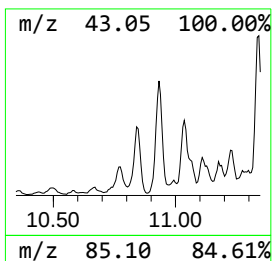
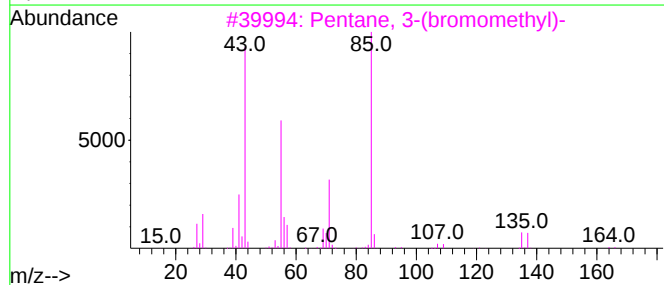
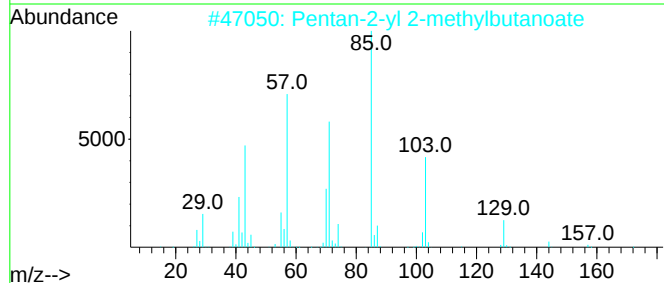
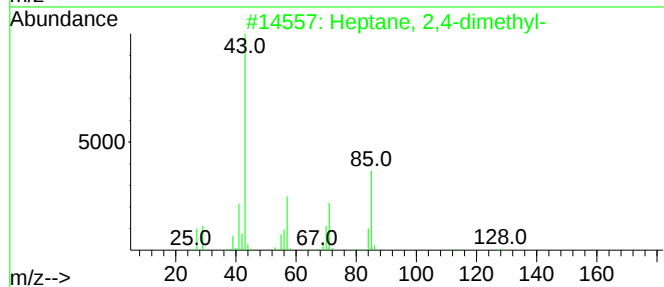
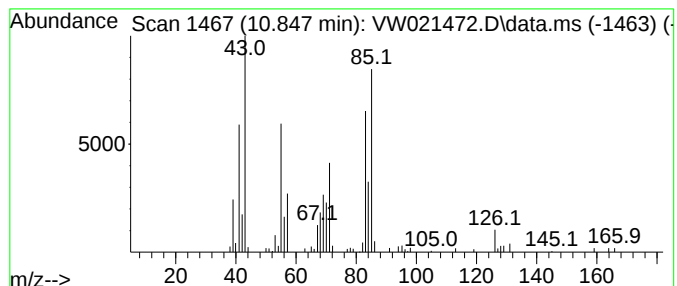
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 10.847 | 3.08 ug/L | 68084 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Heptane, 2,4-dimethyl-              | 128 | C9H20    | 002213-23-2  | 50   |
| 2    |    |   | Pentan-2-yl 2-methylbutanoate       | 172 | C10H20O2 | 1000372-71-7 | 47   |
| 3    |    |   | Pentane, 3-(bromomethyl)-           | 164 | C6H13Br  | 003814-34-4  | 38   |
| 4    |    |   | 2-Butyl-1,2-oxaborolane             | 126 | C7H15BO  | 005357-13-1  | 38   |
| 5    |    |   | 1,2,4,3,5-Trioxadiborolane, 3,5-... | 100 | C2H6B2O3 | 031083-12-2  | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

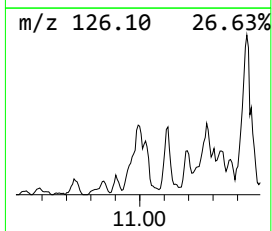
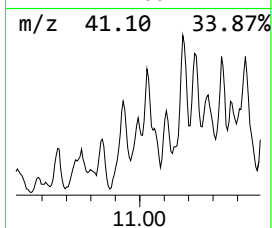
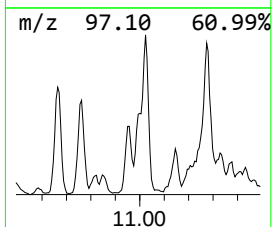
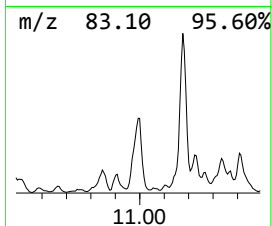
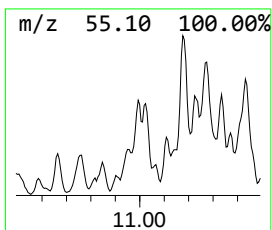
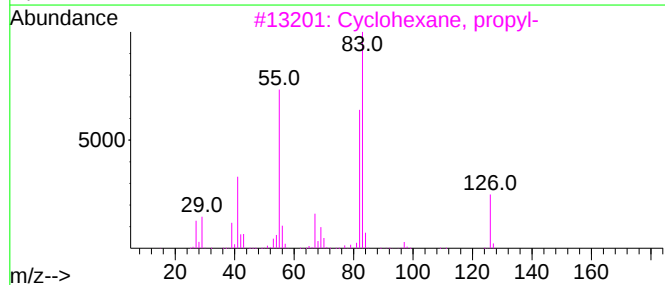
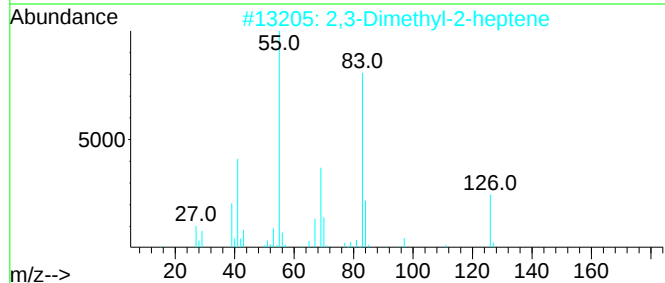
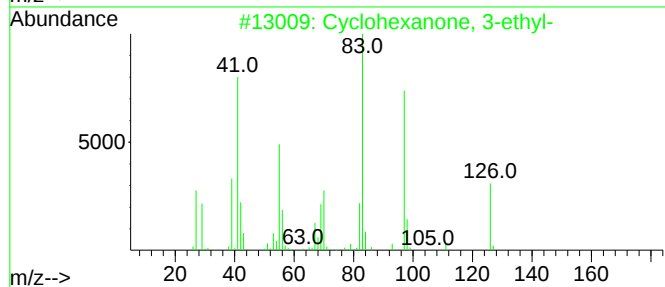
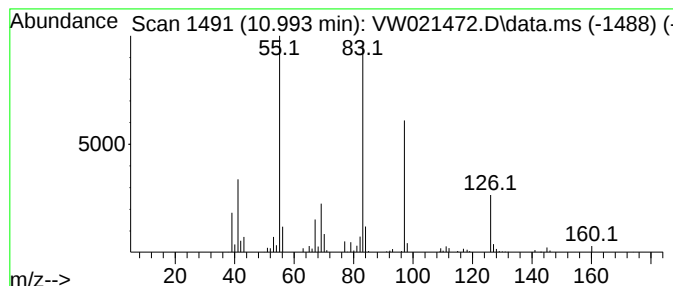
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Quant Title : SFAM01.0

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

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Peak Number 16 Cyclohexanone, 3-ethyl- Concentration Rank 41

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 10.993 | 2.39 ug/L | 52703 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexanone, 3-ethyl-        | 126 | C8H14O  | 022461-89-8 | 80   |
| 2    |    |   | 2,3-Dimethyl-2-heptene         | 126 | C9H18   | 003074-64-4 | 59   |
| 3    |    |   | Cyclohexane, propyl-           | 126 | C9H18   | 001678-92-8 | 58   |
| 4    |    |   | 2-Pentene, 4,4-dimethyl-, (E)- | 98  | C7H14   | 000690-08-4 | 50   |
| 5    |    |   | 3-Hexene, 2,4-dimethyl-        | 112 | C8H16   | 082085-14-1 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

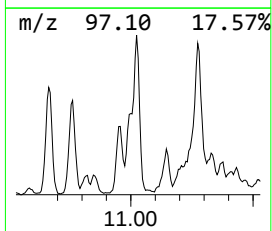
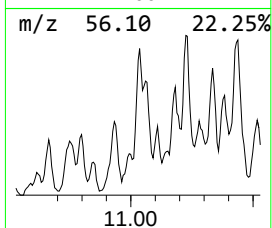
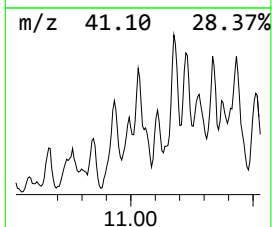
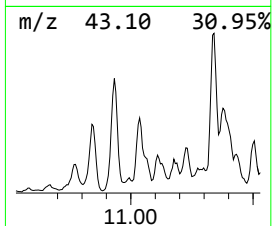
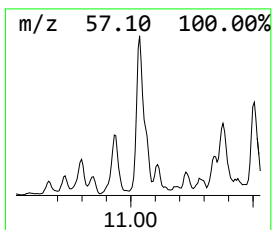
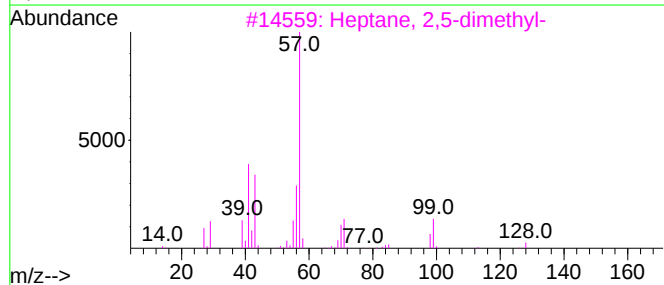
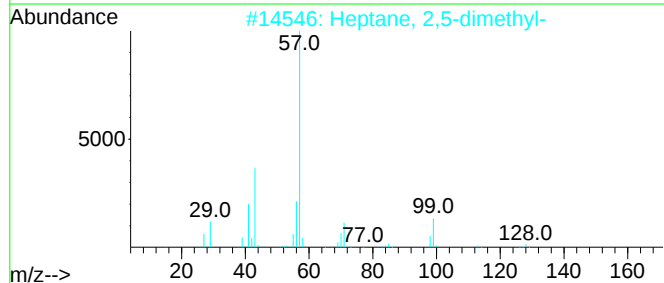
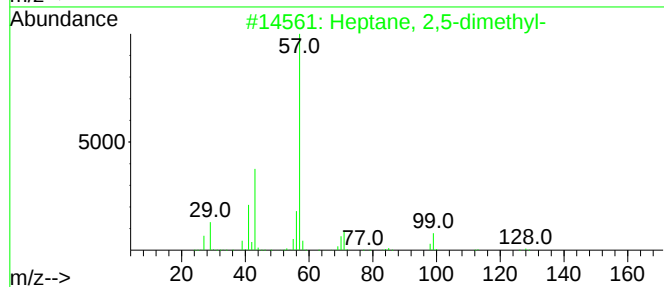
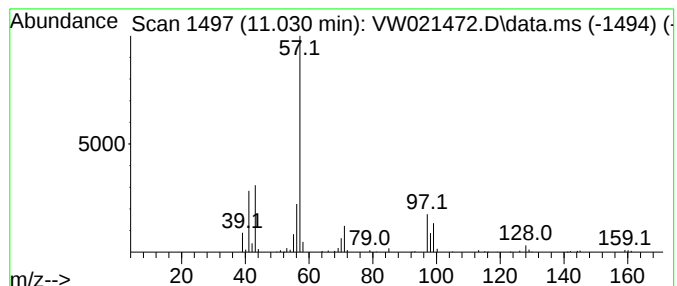
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TIC Integration Parameters: LSCINT.P

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Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.030 | 3.20 ug/L | 70570 | Chlorobenzene-d5 | 11.627 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Heptane, 2,5-dimethyl-  | 128 | C9H20   | 002216-30-0 | 74   |
| 2    |      | Heptane, 2,5-dimethyl-  | 128 | C9H20   | 002216-30-0 | 64   |
| 3    |      | Heptane, 2,5-dimethyl-  | 128 | C9H20   | 002216-30-0 | 64   |
| 4    |      | 1-Hexene, 5,5-dimethyl- | 112 | C8H16   | 007116-86-1 | 53   |
| 5    |      | Octane, 3-methyl-       | 128 | C9H20   | 002216-33-3 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

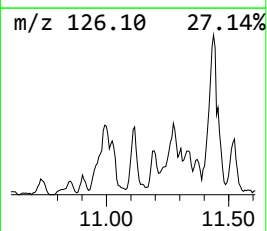
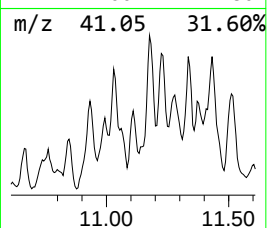
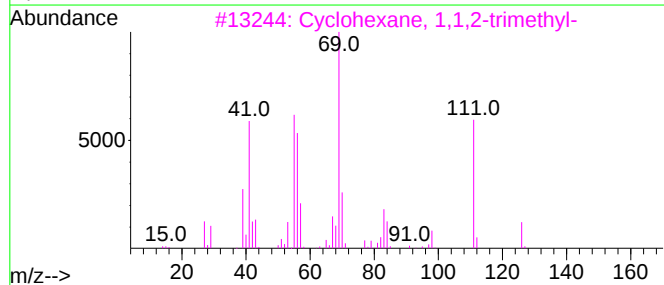
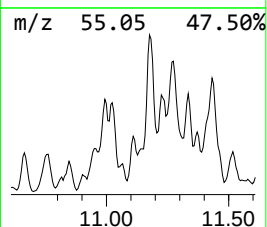
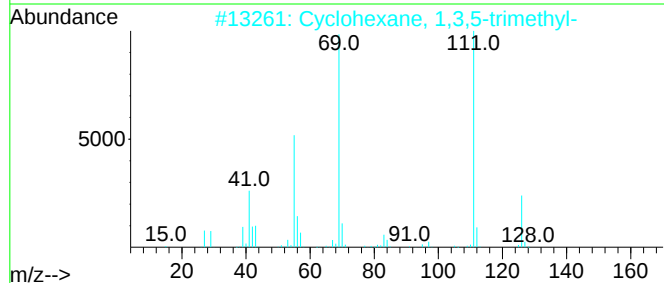
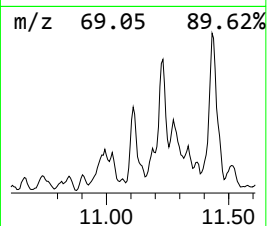
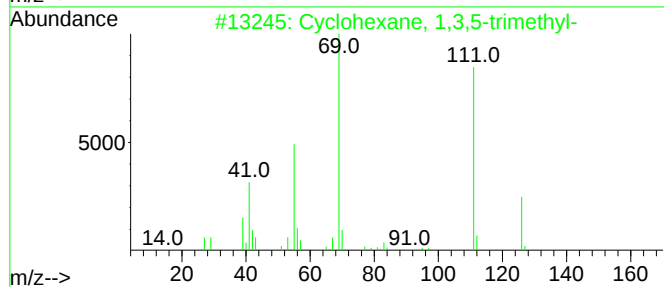
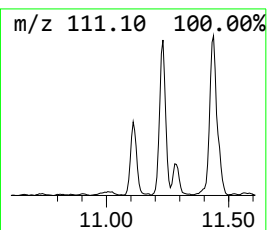
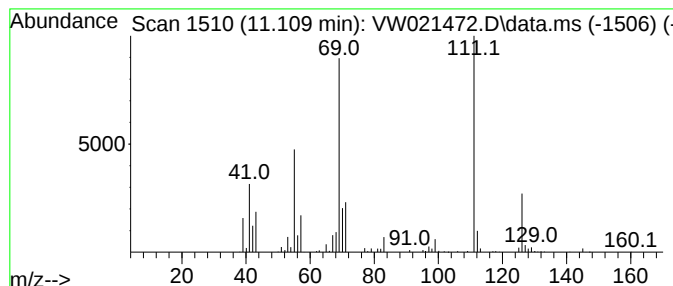
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Quant Title : SFAM01.0

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

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Peak Number 18 (DEL) Alkane: Cyclic11.109 Concentration Rank 29

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.109 | 4.53 ug/L | 100040 | Chlorobenzene-d5 | 11.627 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 81   |
| 2    |      | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 81   |
| 3    |      | Cyclohexane, 1,1,2-trimethyl-       | 126 | C9H18   | 007094-26-0 | 72   |
| 4    |      | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 72   |
| 5    |      | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

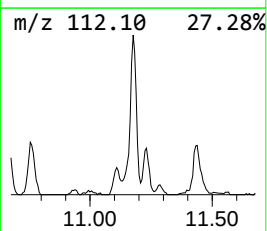
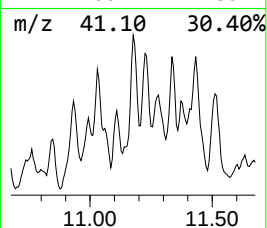
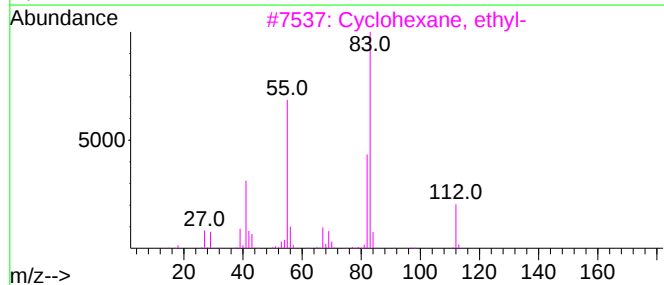
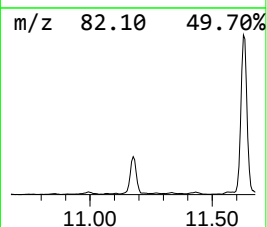
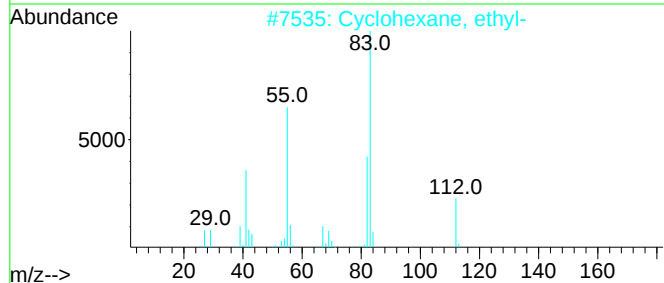
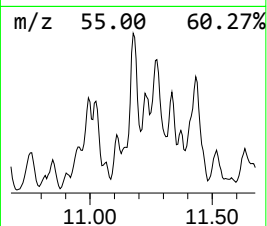
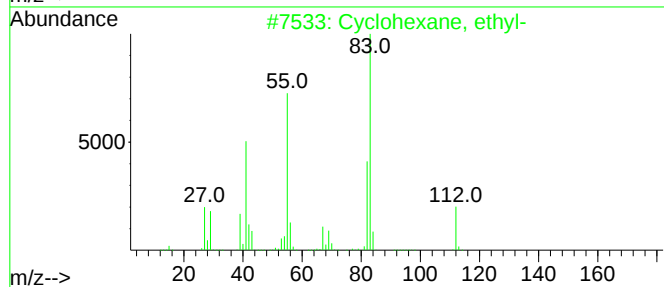
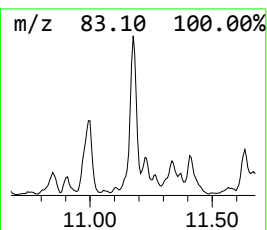
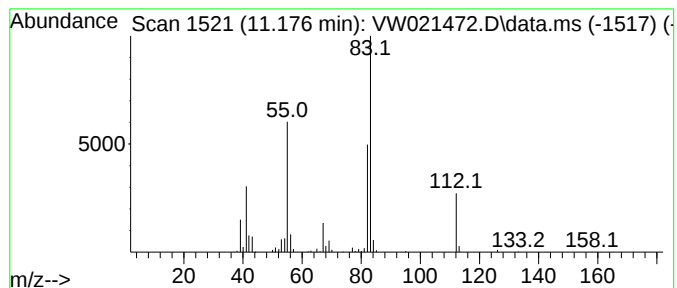
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TIC Integration Parameters: LSCINT.P

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Peak Number 19 (DEL) Alkane: Cyclic11.176 Concentration Rank 21

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.176 | 6.32 ug/L | 139666 | Chlorobenzene-d5 | 11.627 |

| Hit# | of 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|------|---------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, ethyl- | 112 | C8H16   | 001678-91-7 | 87   |
| 2    |      | Cyclohexane, ethyl- | 112 | C8H16   | 001678-91-7 | 87   |
| 3    |      | Cyclohexane, ethyl- | 112 | C8H16   | 001678-91-7 | 87   |
| 4    |      | Cyclohexane, ethyl- | 112 | C8H16   | 001678-91-7 | 83   |
| 5    |      | Cyclohexane, ethyl- | 112 | C8H16   | 001678-91-7 | 68   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

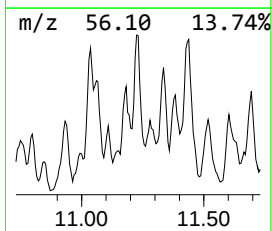
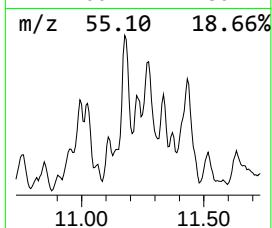
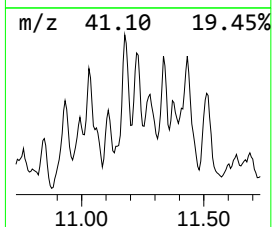
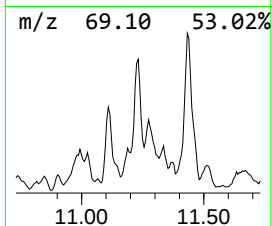
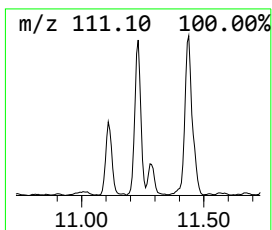
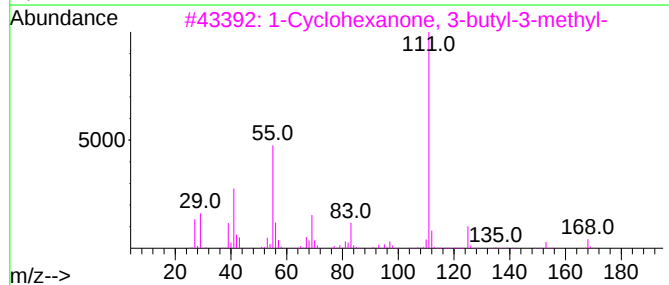
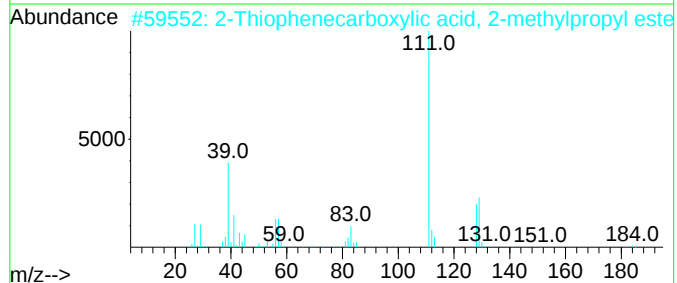
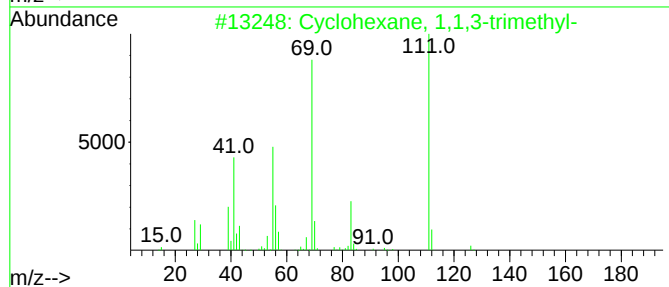
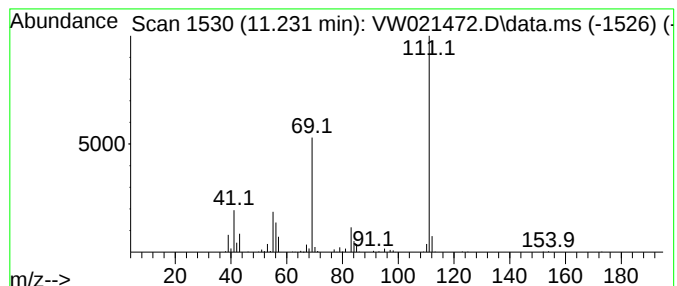
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Quant Title : SFAM01.0

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

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Peak Number 20 (DEL) Alkane: Cyclic11.231 Concentration Rank 28

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.231 | 4.79 ug/L | 105827 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18      | 003073-66-3  | 72   |
| 2    |    |   | 2-Thiophenecarboxylic acid, 2-me... | 184 | C9H12O2S   | 116529-98-7  | 72   |
| 3    |    |   | 1-Cyclohexanone, 3-butyl-3-methyl-  | 168 | C11H20O    | 051756-29-7  | 64   |
| 4    |    |   | 1-Aminocyclopropanecarboxylic ac... | 212 | C11H20N2O2 | 1000375-50-9 | 59   |
| 5    |    |   | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18      | 003073-66-3  | 56   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

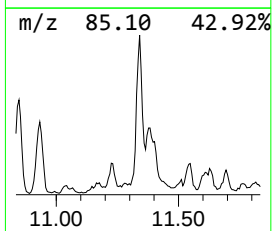
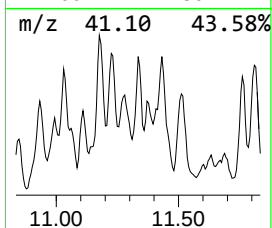
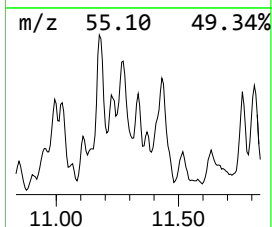
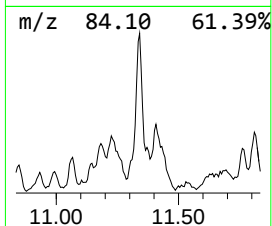
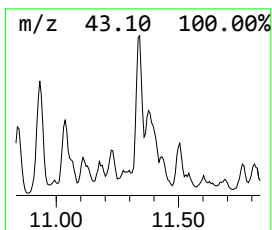
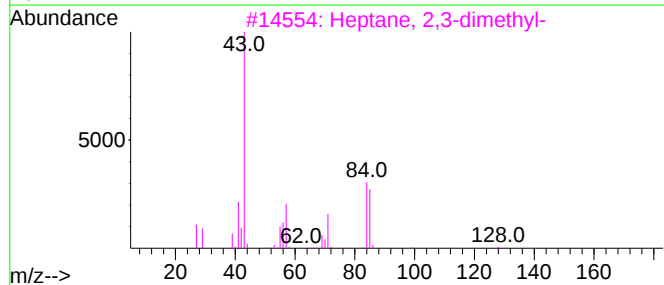
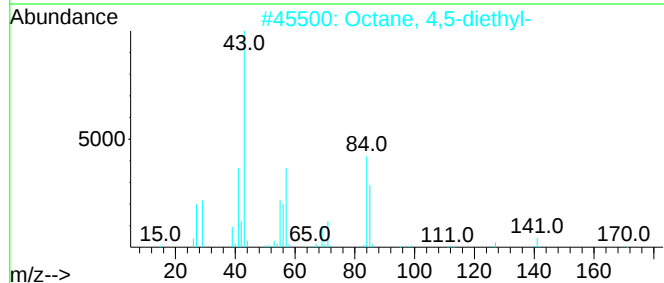
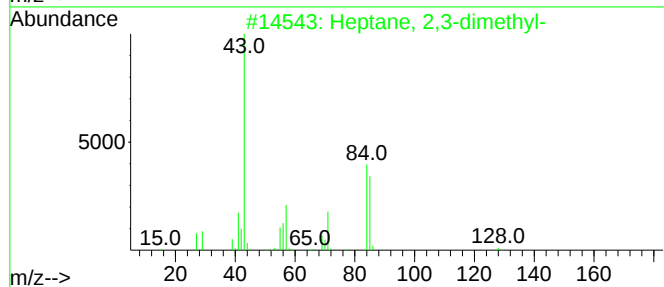
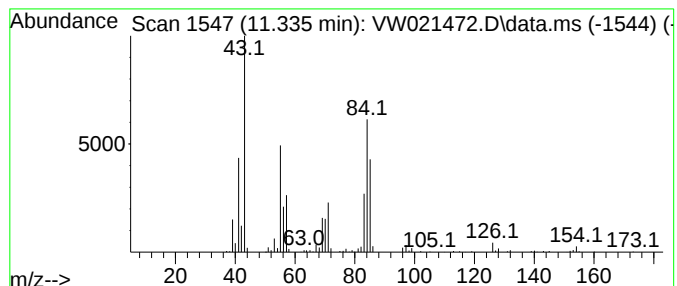
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Quant Title : SFAM01.0

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

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Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T.      | EstConc                | Area  | Relative to ISTD |         | R.T.        |      |
|-----------|------------------------|-------|------------------|---------|-------------|------|
| 11.335    | 3.58 ug/L              | 78969 | Chlorobenzene-d5 |         | 11.627      |      |
| Hit# of 5 | Tentative ID           |       | MW               | MolForm | CAS#        | Qual |
| 1         | Heptane, 2,3-dimethyl- |       | 128              | C9H20   | 003074-71-3 | 62   |
| 2         | Octane, 4,5-diethyl-   |       | 170              | C12H26  | 001636-41-5 | 59   |
| 3         | Heptane, 2,3-dimethyl- |       | 128              | C9H20   | 003074-71-3 | 53   |
| 4         | Heptane, 2,3-dimethyl- |       | 128              | C9H20   | 003074-71-3 | 53   |
| 5         | 1-Octene, 4-methyl-    |       | 126              | C9H18   | 013151-12-7 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

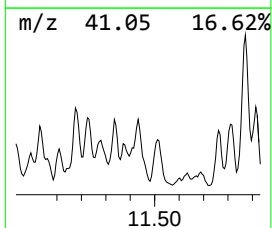
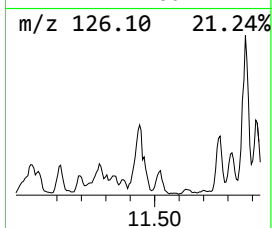
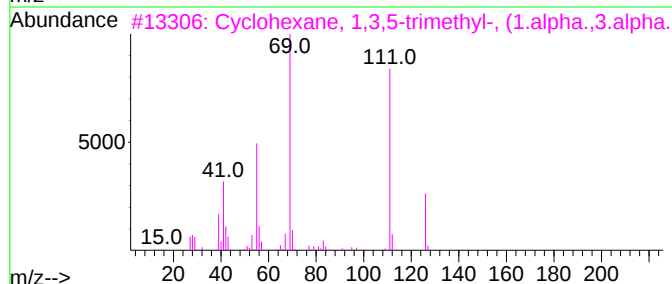
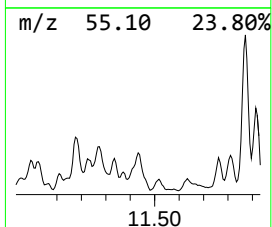
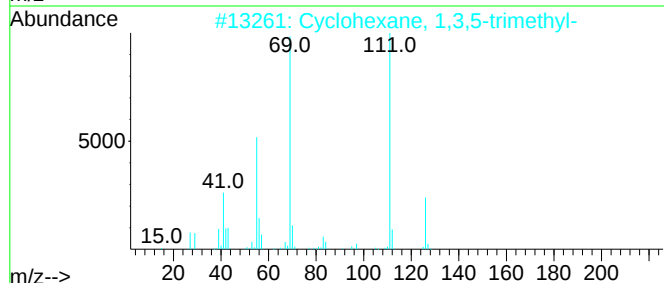
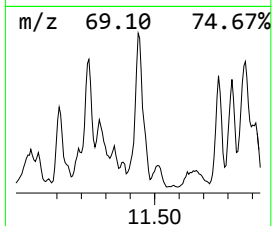
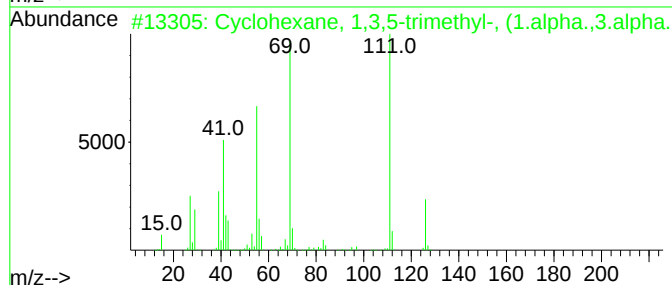
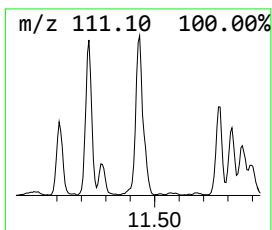
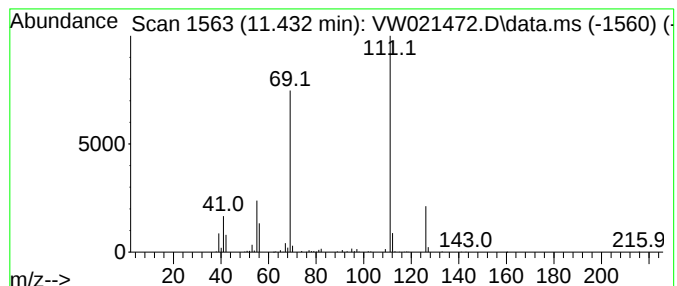
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Cyclic11.432 Concentration Rank 13

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 11.432 | 10.60 ug/L | 234114 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 90   |
| 2    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 90   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 83   |
| 4    |    |   | 5-Methyl-(E)-2-hepten-4-one         | 126 | C8H14O  | 102322-83-8 | 78   |
| 5    |    |   | 2-Pyrazoline, 1-isopropyl-5-methyl- | 126 | C7H14N2 | 026964-54-5 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

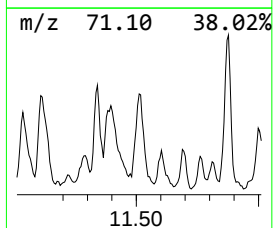
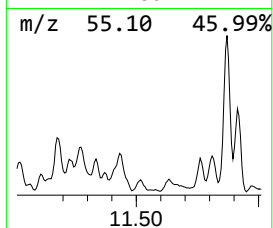
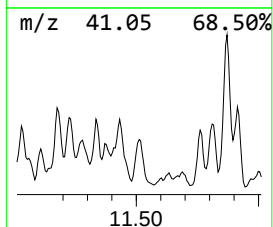
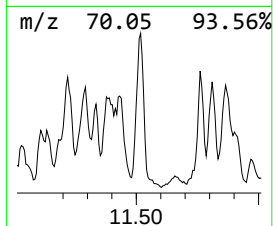
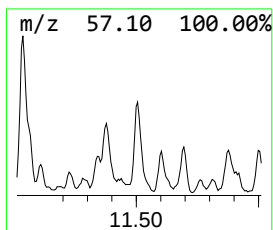
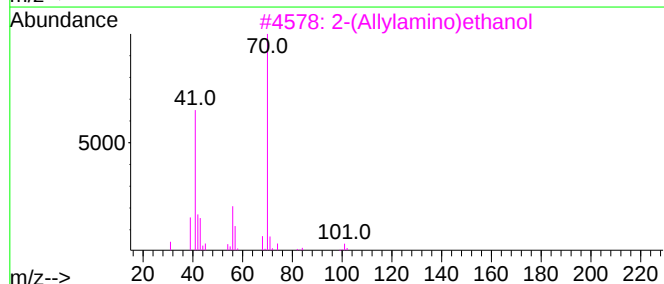
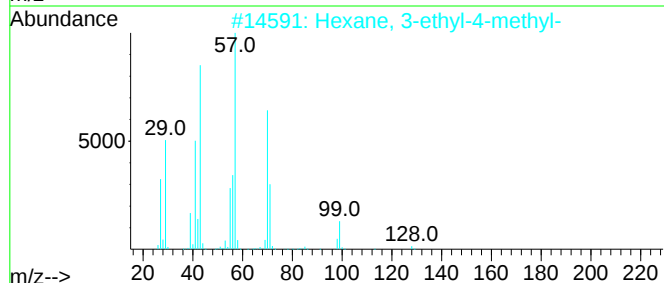
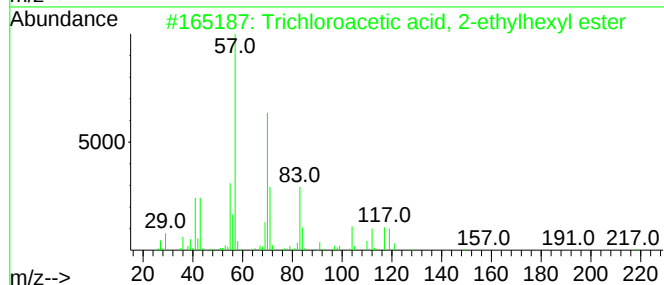
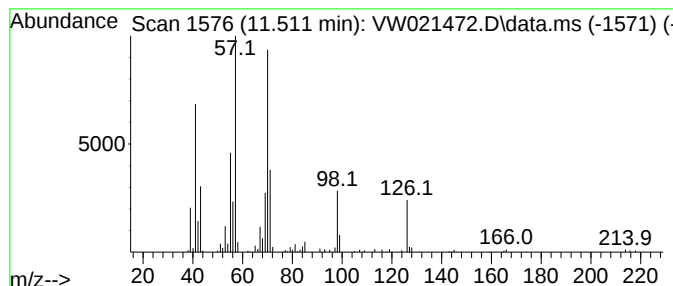
Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

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

\*\*\*\*\*  
Peak Number 23 Trichloroacetic acid, 2-eth... Concentration Rank 27

| R.T.      | EstConc                             | Area   | Relative to ISTD |             |              | R.T.   |
|-----------|-------------------------------------|--------|------------------|-------------|--------------|--------|
| 11.512    | 5.00 ug/L                           | 110453 | Chlorobenzene-d5 |             |              | 11.627 |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm     | CAS#         | Qual   |
| 1         | Trichloroacetic acid, 2-ethylhex... |        | 274              | C10H17Cl3O2 | 016397-79-8  | 53     |
| 2         | Hexane, 3-ethyl-4-methyl-           |        | 128              | C9H20       | 003074-77-9  | 47     |
| 3         | 2-(Allylamino)ethanol               |        | 101              | C5H11NO     | 002424-00-2  | 43     |
| 4         | 2-Ethyl-1-hexanol, heptafluorobu... |        | 326              | C12H17F7O2  | 1000365-16-0 | 38     |
| 5         | 1-Amino-3-methyl-2-butene           |        | 85               | C5H11N      | 013822-06-5  | 38     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

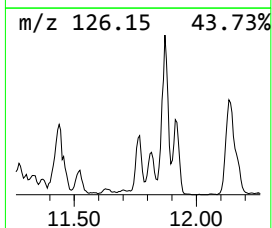
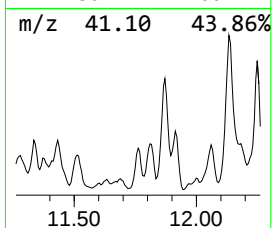
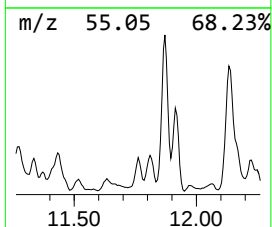
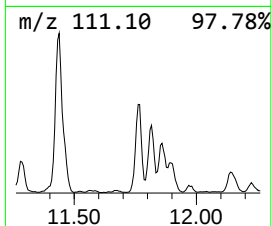
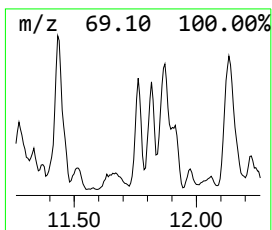
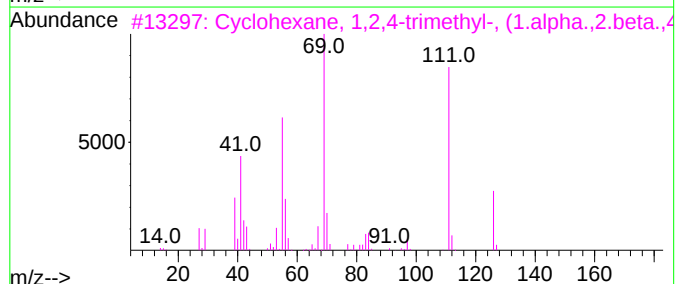
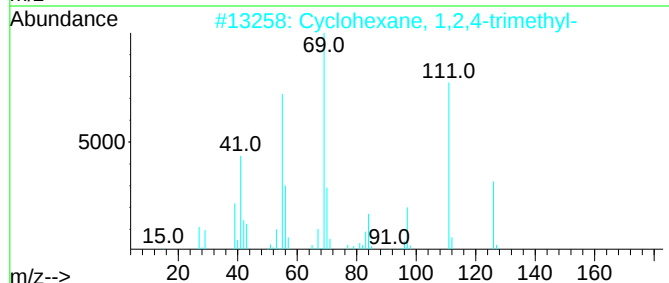
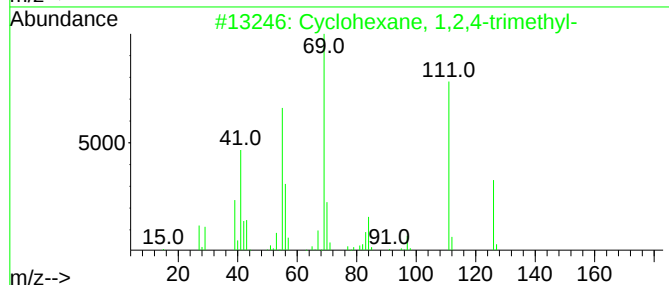
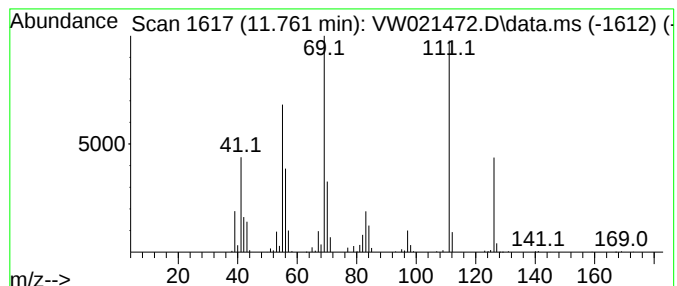
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 24 (DEL) Alkane: 11.761 Concentration Rank 20

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.761 | 6.49 ug/L | 143297 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-        | 126 | C9H18   | 002234-75-5 | 93   |
| 2    |    |   | Cyclohexane, 1,2,4-trimethyl-        | 126 | C9H18   | 002234-75-5 | 93   |
| 3    |    |   | Cyclohexane, 1,2,4-trimethyl-, (...) | 126 | C9H18   | 007667-60-9 | 91   |
| 4    |    |   | Cyclohexane, 1,1,2-trimethyl-        | 126 | C9H18   | 007094-26-0 | 91   |
| 5    |    |   | Cyclohexane, 1,2,4-trimethyl-        | 126 | C9H18   | 002234-75-5 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

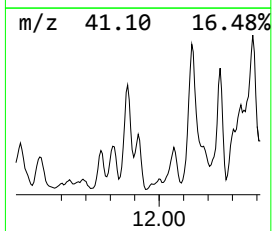
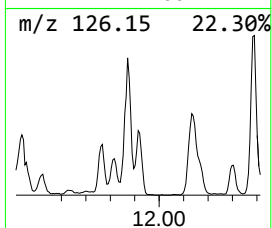
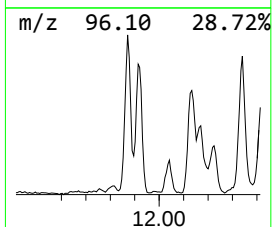
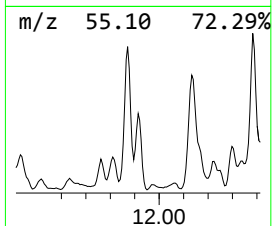
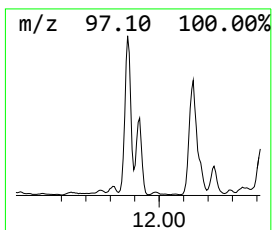
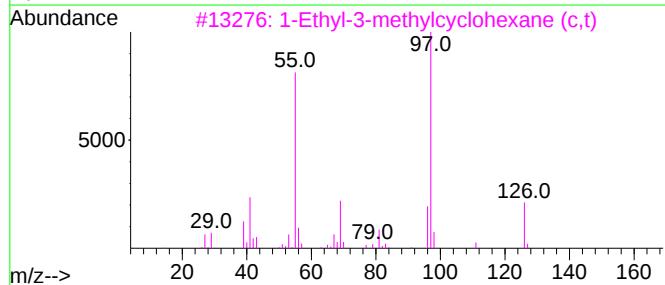
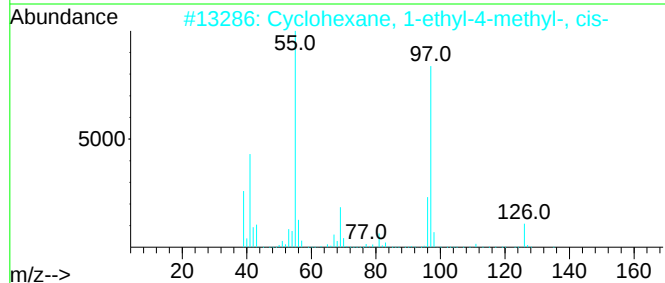
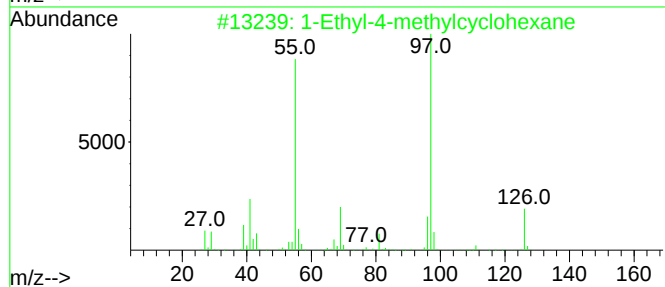
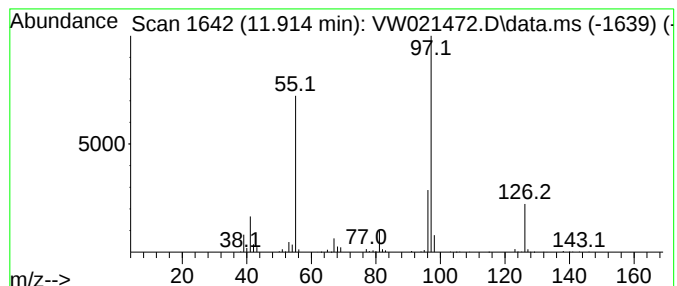
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Quant Title : SFAM01.0

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

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Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.   | EstConc    | Area                                | Relative to ISTD | R.T.            |
|--------|------------|-------------------------------------|------------------|-----------------|
| 11.914 | 11.28 ug/L | 249021                              | Chlorobenzene-d5 | 11.627          |
| Hit#   | of 5       | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1      |            | 1-Ethyl-4-methylcyclohexane         | 126 C9H18        | 003728-56-1 86  |
| 2      |            | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 C9H18        | 004926-78-7 78  |
| 3      |            | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 C9H18        | 003728-55-0 72  |
| 4      |            | Oxalic acid, cyclohexylmethyl is... | 270 C15H26O4     | 1000309-68-3 72 |
| 5      |            | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 C9H18        | 004926-78-7 72  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

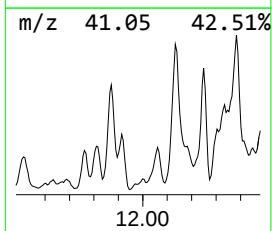
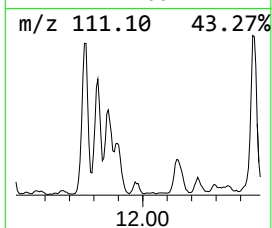
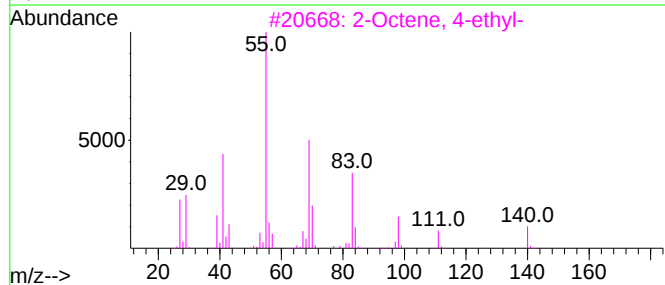
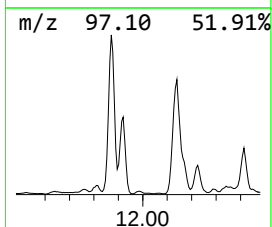
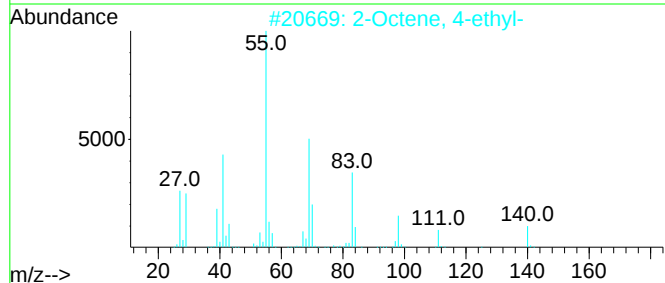
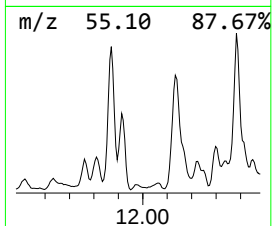
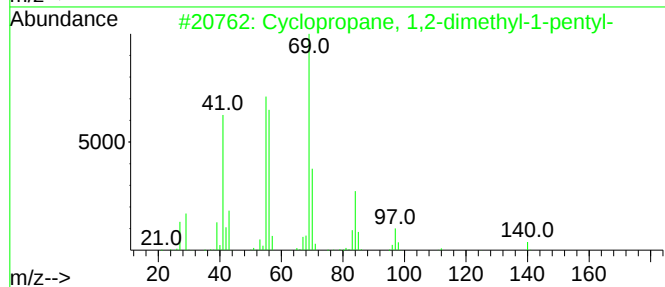
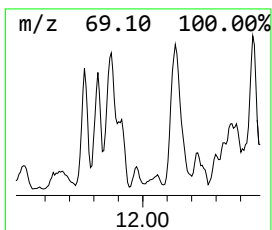
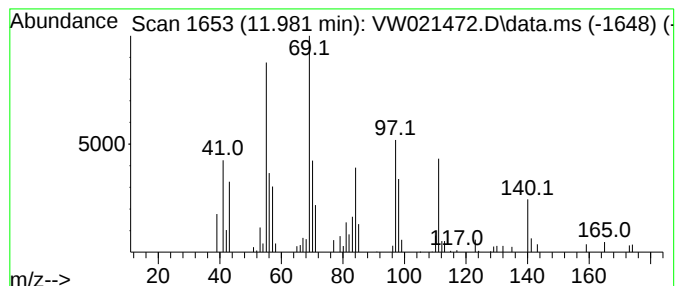
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 26 (DEL) Alkane: Cyclic11.981 Concentration Rank 45

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.981 | 1.25 ug/L | 27690 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopropane, 1,2-dimethyl-1-pen... | 140 | C10H20  | 062238-04-4 | 52   |
| 2    |    |   | 2-Octene, 4-ethyl-                  | 140 | C10H20  | 053966-52-2 | 50   |
| 3    |    |   | 2-Octene, 4-ethyl-                  | 140 | C10H20  | 053966-52-2 | 50   |
| 4    |    |   | Cyclopentanone, 2-methyl-3-(1-me... | 140 | C9H16O  | 054549-81-4 | 47   |
| 5    |    |   | Pentane, 3-methylene-               | 84  | C6H12   | 000760-21-4 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

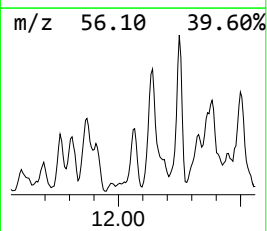
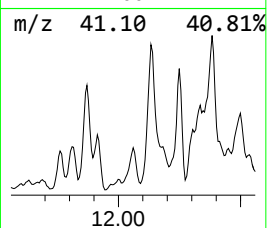
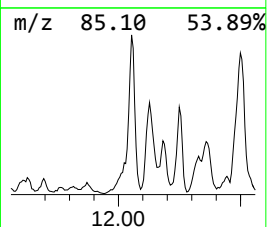
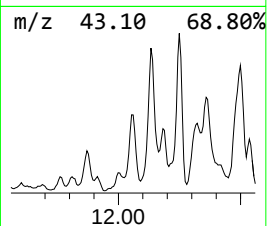
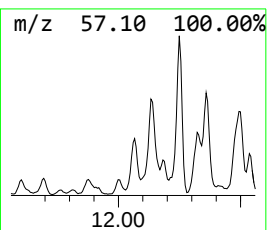
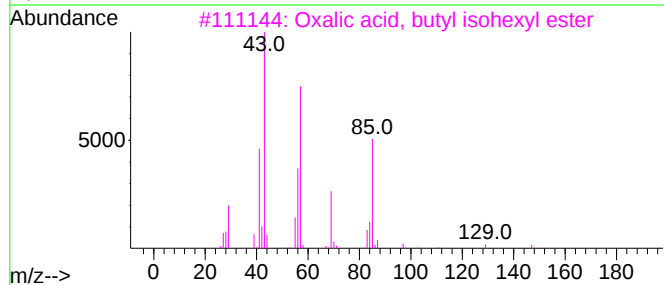
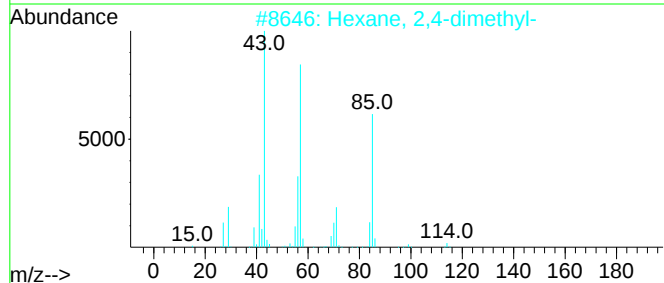
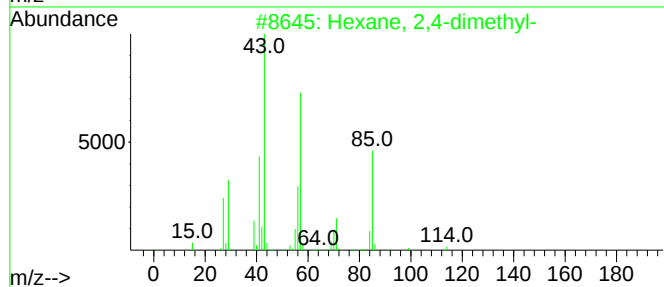
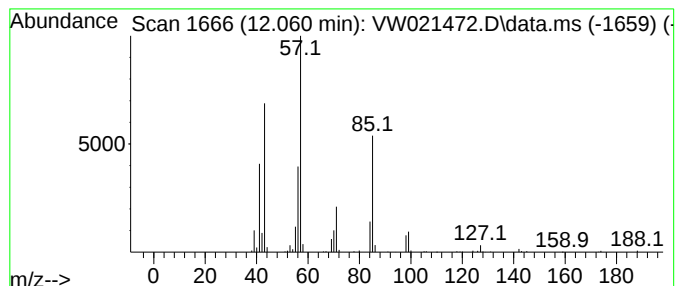
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.060 | 7.11 ug/L | 156995 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Hexane, 2,4-dimethyl-             | 114 | C8H18    | 000589-43-5  | 80   |
| 2    |    |   | Hexane, 2,4-dimethyl-             | 114 | C8H18    | 000589-43-5  | 64   |
| 3    |    |   | Oxalic acid, butyl isohexyl ester | 230 | C12H22O4 | 1000309-32-7 | 53   |
| 4    |    |   | Tetradecane                       | 198 | C14H30   | 000629-59-4  | 50   |
| 5    |    |   | Nonane                            | 128 | C9H20    | 000111-84-2  | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

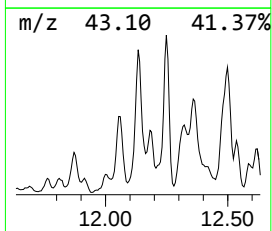
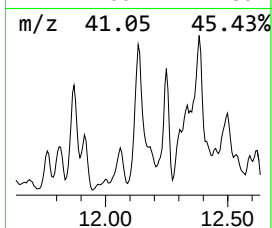
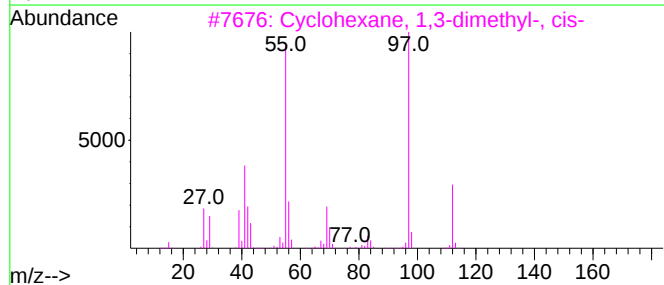
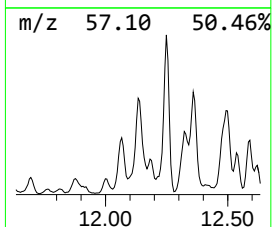
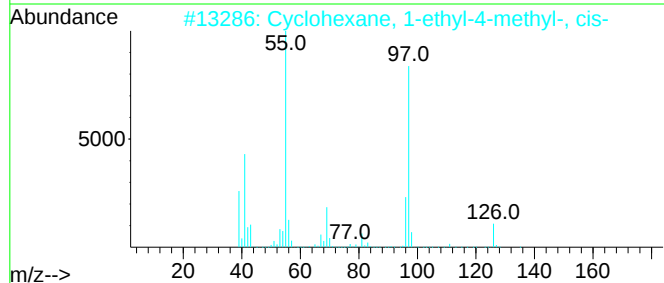
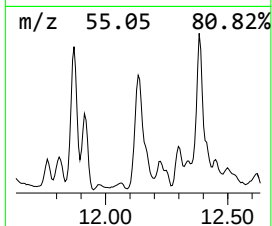
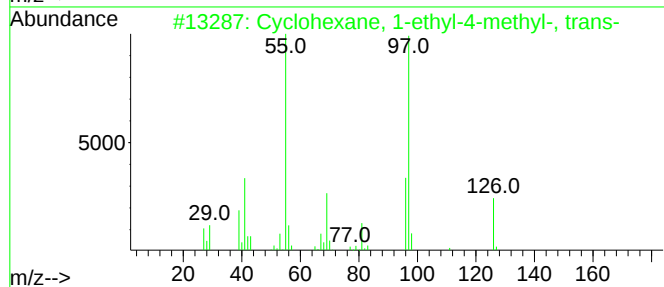
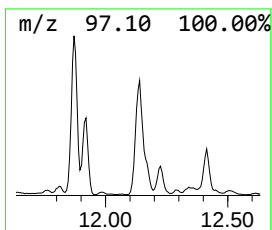
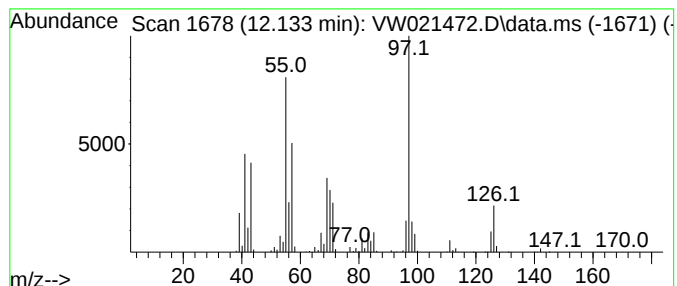
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 28 (DEL) Alkane: Cyclic12.133 Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.133 | 43.09 ug/L | 951601 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 52   |
| 2    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 52   |
| 3    |    |   | Cyclohexane, 1,3-dimethyl-, cis-    | 112 | C8H16   | 000638-04-0 | 50   |
| 4    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 50   |
| 5    |    |   | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

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

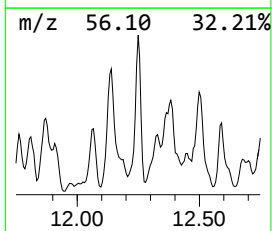
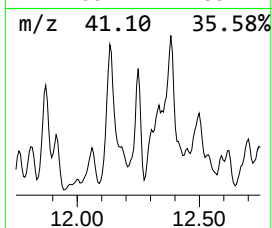
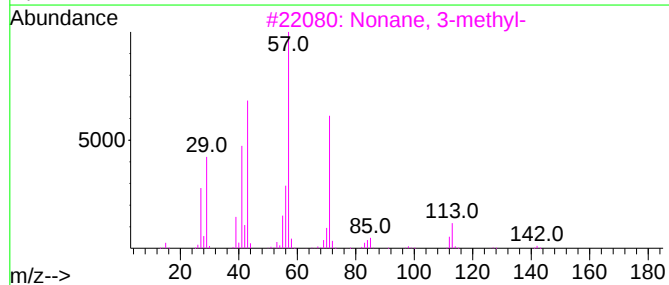
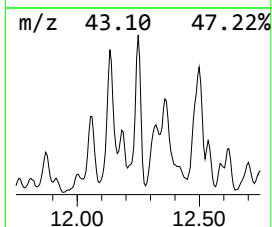
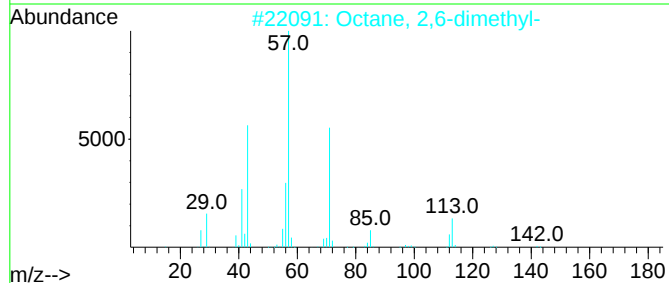
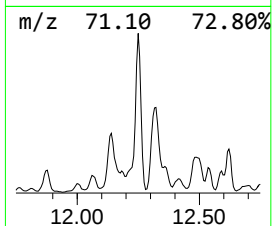
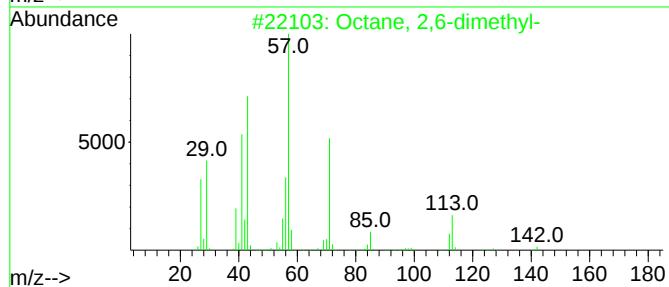
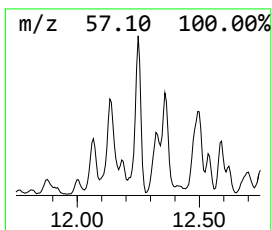
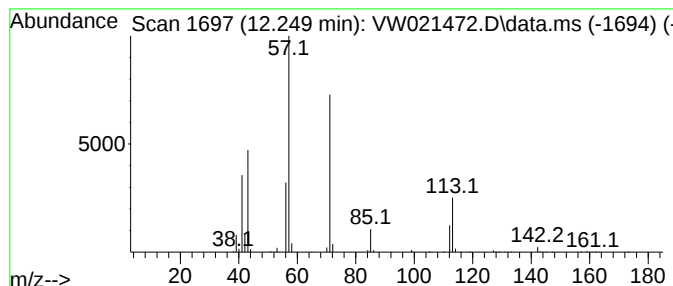
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Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.249 | 12.81 ug/L | 282945 | Chlorobenzene-d5 | 11.627 |

| Hit# | of 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------|-----|---------|-------------|------|
| 1    |      | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 2    |      | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 3    |      | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 90   |
| 4    |      | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 87   |
| 5    |      | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 83   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

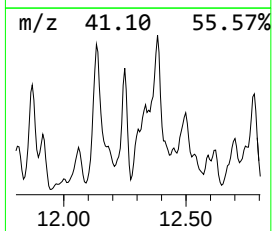
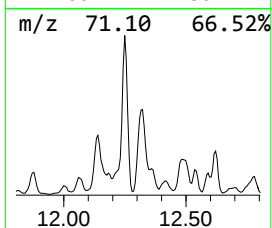
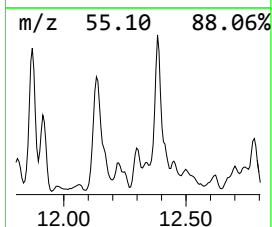
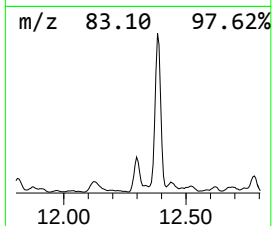
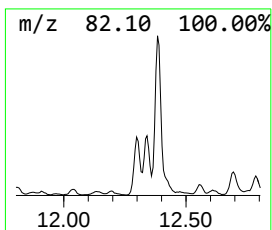
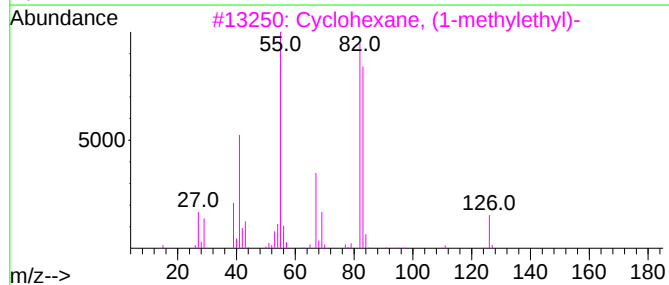
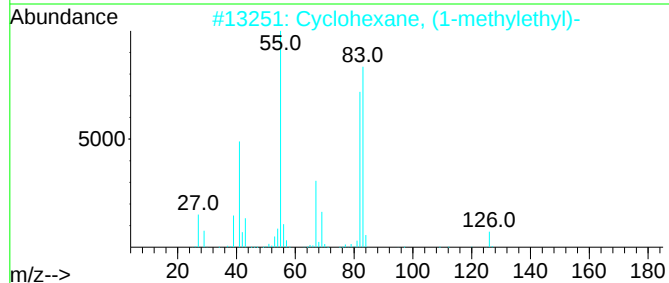
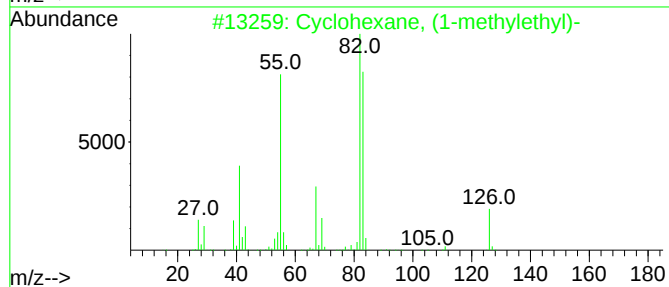
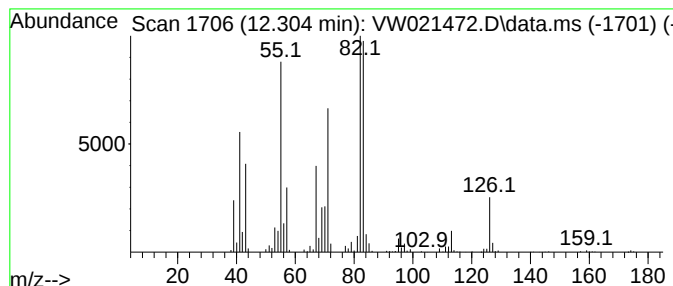
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 30 (DEL) Alkane: Cyclic12.304 Concentration Rank 16

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.304 | 7.97 ug/L | 175953 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 94   |
| 2    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 76   |
| 3    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 76   |
| 4    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 70   |
| 5    |    |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

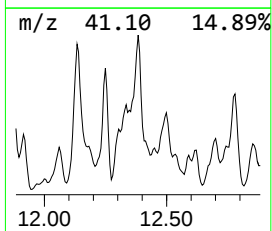
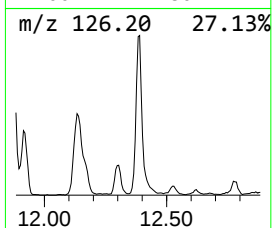
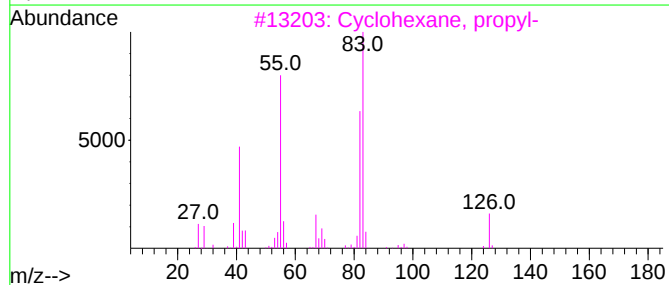
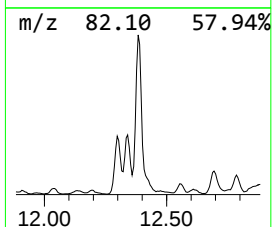
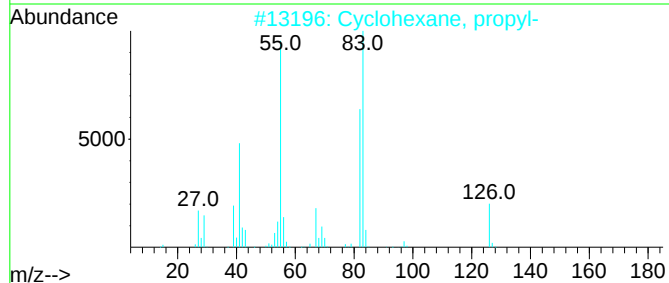
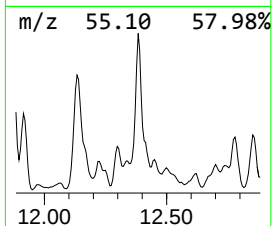
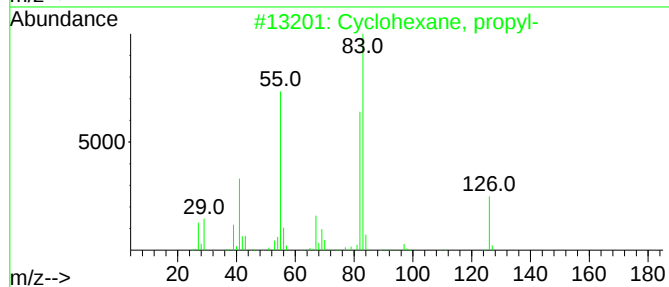
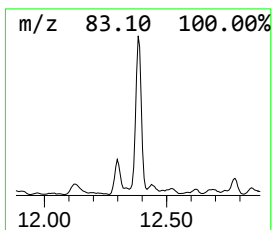
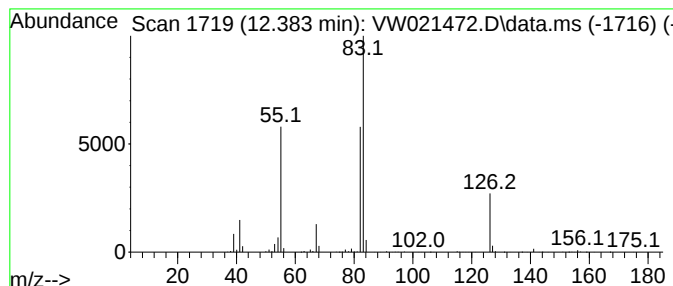
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Quant Title : SFAM01.0

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

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Peak Number 31 (DEL) Alkane: Cyclic12.383 Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.383 | 13.33 ug/L | 294310 | Chlorobenzene-d5 | 11.627 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, propyl- | 126 | C9H18   | 001678-92-8 | 91   |
| 2    |    |   | Cyclohexane, propyl- | 126 | C9H18   | 001678-92-8 | 83   |
| 3    |    |   | Cyclohexane, propyl- | 126 | C9H18   | 001678-92-8 | 83   |
| 4    |    |   | Cyclohexane, propyl- | 126 | C9H18   | 001678-92-8 | 83   |
| 5    |    |   | Cyclohexane, propyl- | 126 | C9H18   | 001678-92-8 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

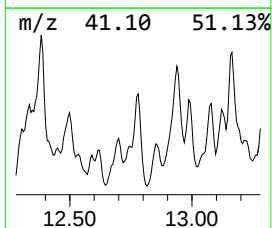
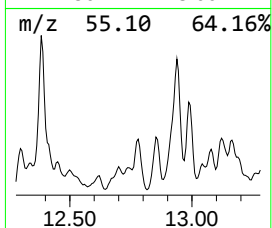
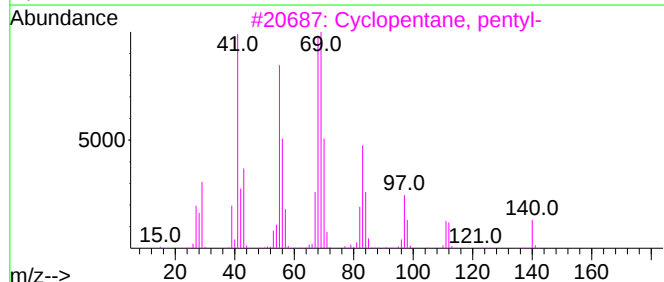
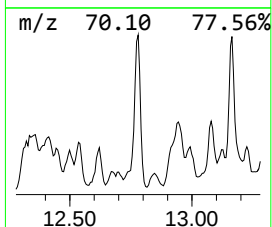
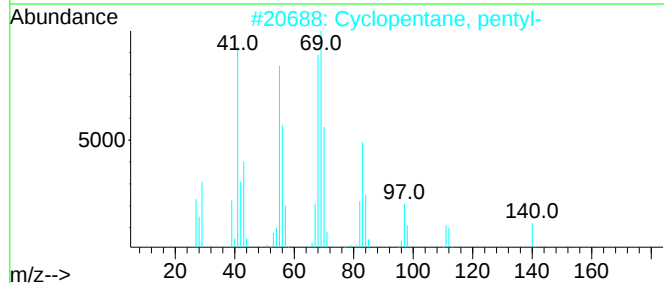
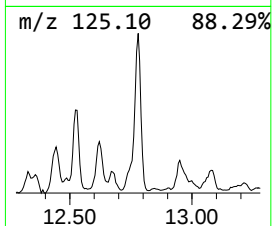
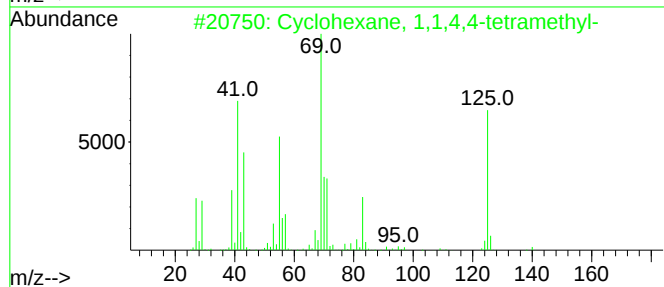
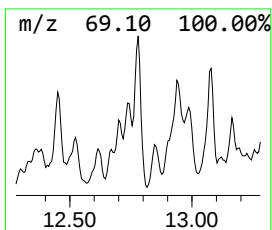
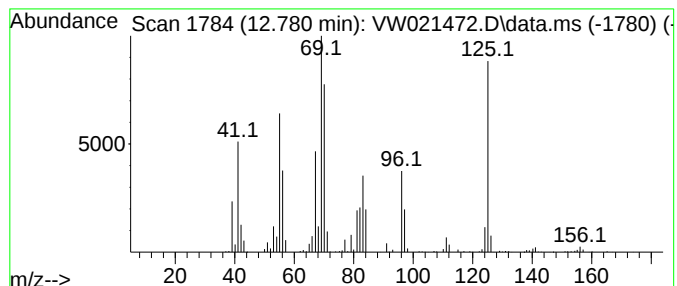
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 32 (DEL) Alkane: Cyclic12.780 Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.780 | 22.08 ug/L | 432985 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,4,4-tetramethyl-   | 140 | C10H20  | 002223-52-1 | 46   |
| 2    |    |   | Cyclopentane, pentyl-               | 140 | C10H20  | 003741-00-2 | 45   |
| 3    |    |   | Cyclopentane, pentyl-               | 140 | C10H20  | 003741-00-2 | 41   |
| 4    |    |   | Cyclopentane, 1,1,3,4-tetramethy... | 126 | C9H18   | 053907-60-1 | 38   |
| 5    |    |   | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20  | 050876-31-8 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

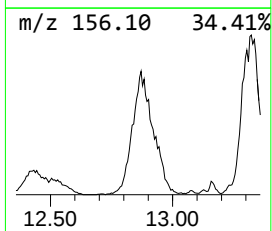
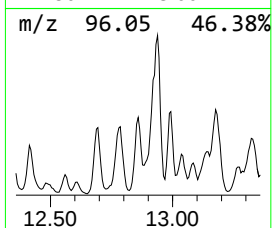
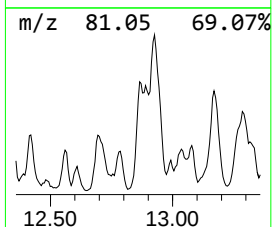
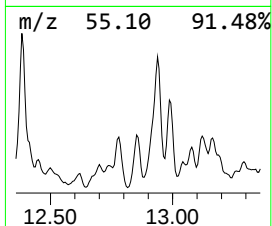
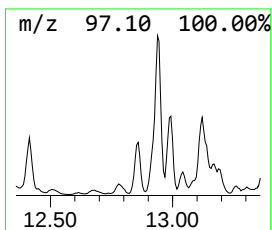
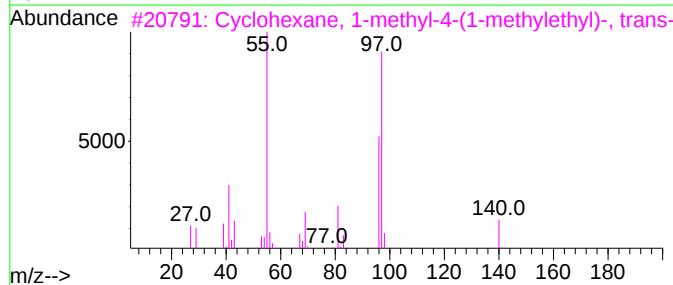
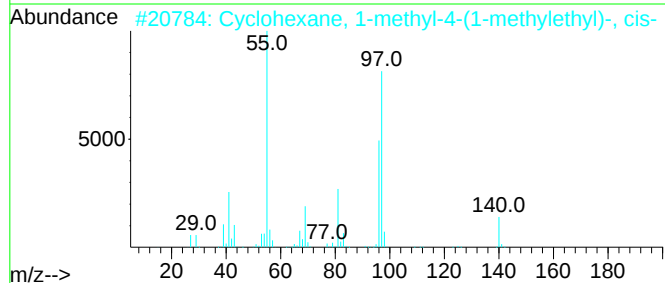
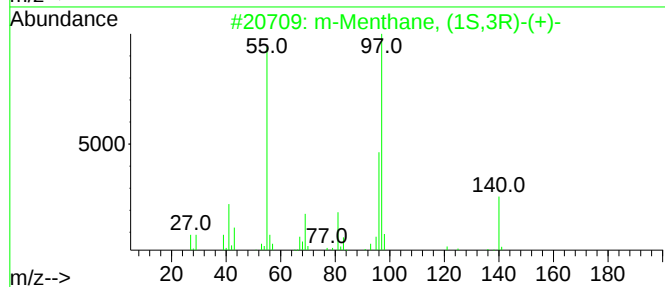
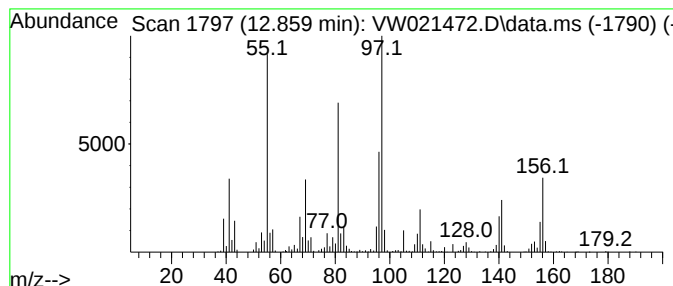
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.859 | 18.79 ug/L | 368466 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | m-Menthane, (1S,3R)-(+)-            | 140 | C10H20  | 013837-66-6 | 58   |
| 2    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 58   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 58   |
| 4    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 58   |
| 5    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

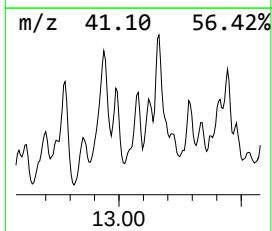
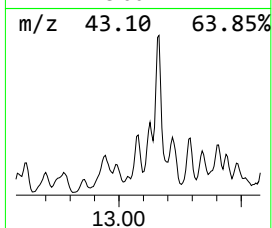
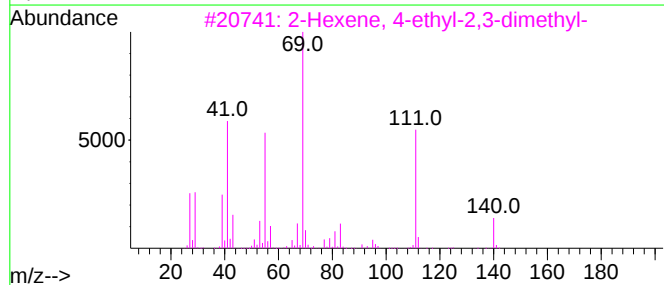
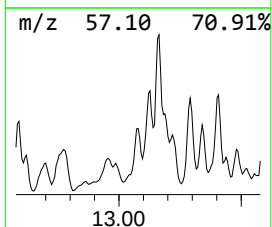
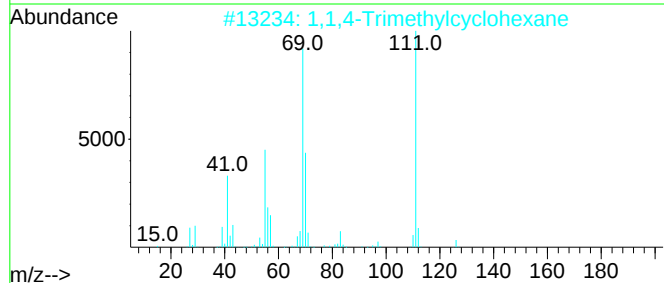
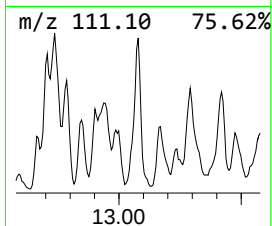
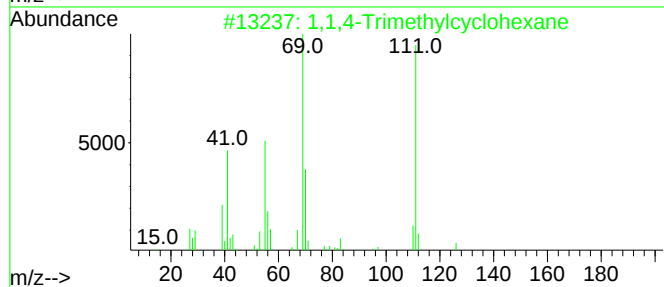
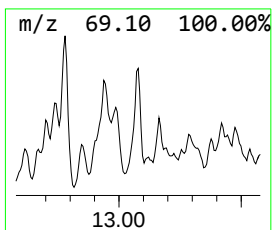
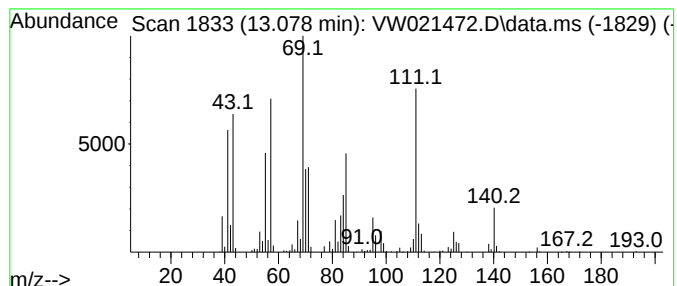
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.078 | 9.78 ug/L | 191777 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|------|-------------------------------------|-----|---------|--------------|------|
| 1    |      | 1,1,4-Trimethylcyclohexane          | 126 | C9H18   | 007094-27-1  | 49   |
| 2    |      | 1,1,4-Trimethylcyclohexane          | 126 | C9H18   | 007094-27-1  | 49   |
| 3    |      | 2-Hexene, 4-ethyl-2,3-dimethyl-     | 140 | C10H20  | 1000149-19-7 | 46   |
| 4    |      | Trans-1,4-diethylcyclohexane        | 140 | C10H20  | 013990-93-7  | 46   |
| 5    |      | Cyclopentanone, 2-methyl-3-(1-me... | 140 | C9H16O  | 054549-81-4  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

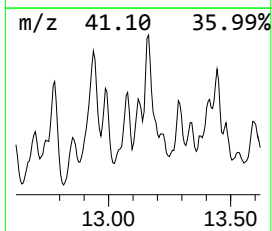
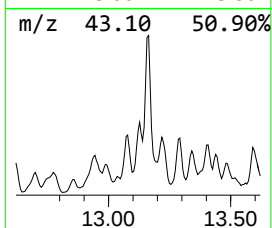
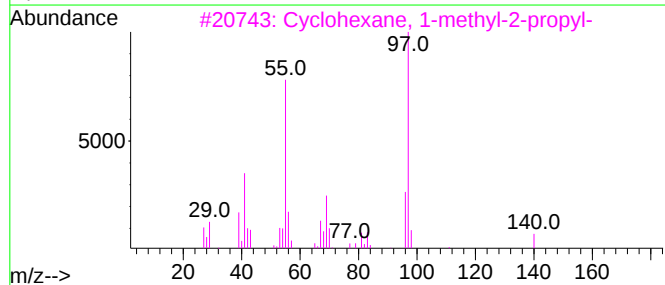
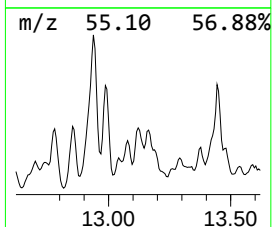
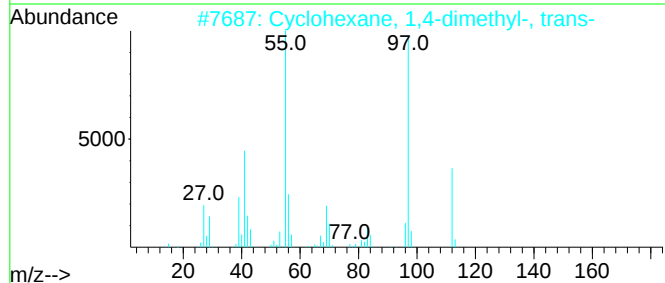
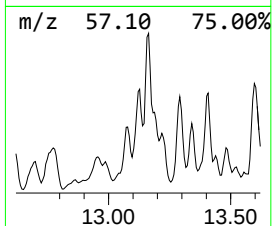
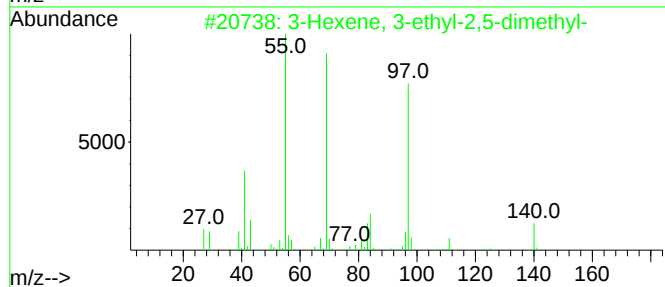
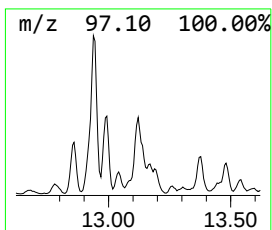
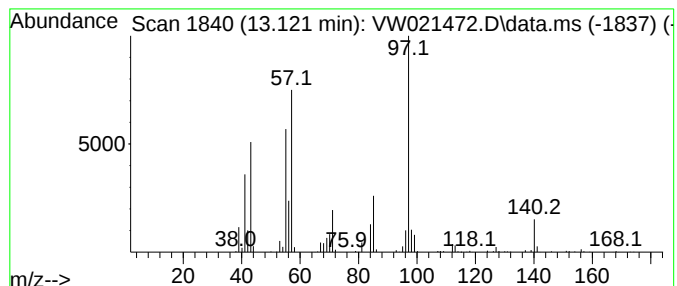
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TIC Integration Parameters: LSCINT.P

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Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.121 | 8.16 ug/L | 159891 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------------|-----|---------|-------------|------|
| 1    |      | 3-Hexene, 3-ethyl-2,5-dimethyl-    | 140 | C10H20  | 062338-08-3 | 46   |
| 2    |      | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16   | 002207-04-7 | 43   |
| 3    |      | Cyclohexane, 1-methyl-2-propyl-    | 140 | C10H20  | 004291-79-6 | 43   |
| 4    |      | Cyclohexane, 1,4-dimethyl-         | 112 | C8H16   | 000589-90-2 | 43   |
| 5    |      | Cyclohexane, 1,1-dimethyl-         | 112 | C8H16   | 000590-66-9 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

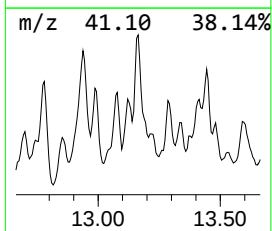
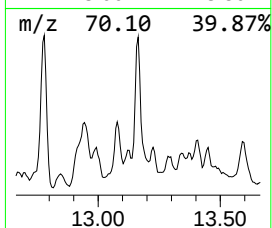
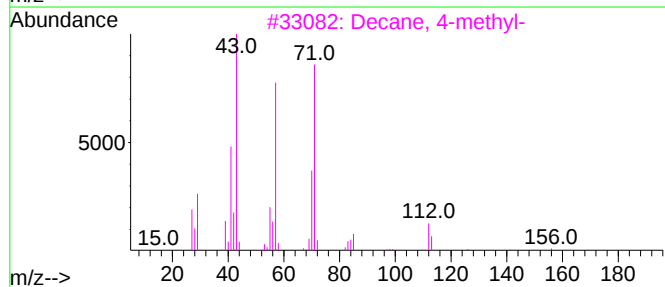
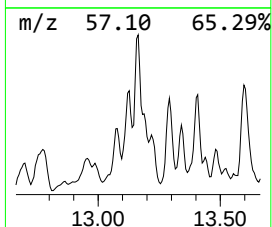
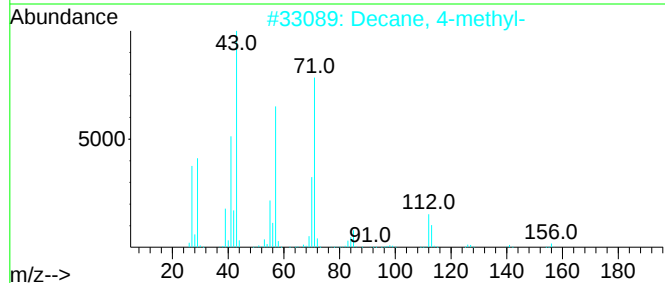
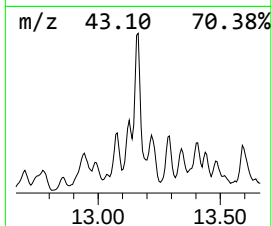
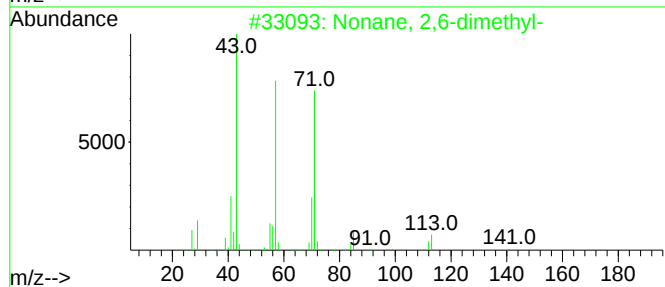
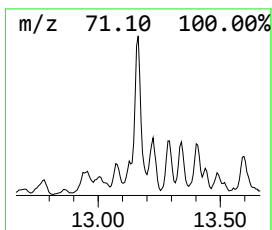
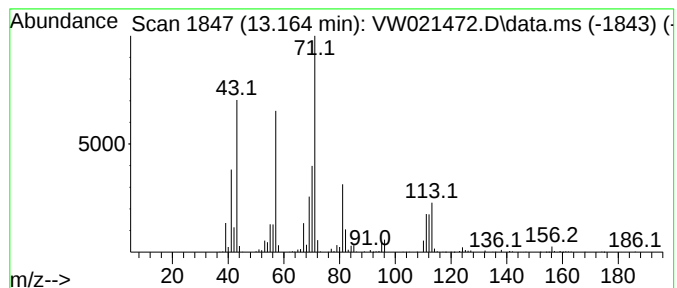
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 36 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.164 | 23.89 ug/L | 468310 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Nonane, 2,6-dimethyl-               | 156 | C11H24   | 017302-28-2  | 83   |
| 2    |    |   | Decane, 4-methyl-                   | 156 | C11H24   | 002847-72-5  | 64   |
| 3    |    |   | Decane, 4-methyl-                   | 156 | C11H24   | 002847-72-5  | 64   |
| 4    |    |   | Octane, 3-ethyl-                    | 142 | C10H22   | 005881-17-4  | 59   |
| 5    |    |   | 2-Propyl-1-pentanol, 2-methylpro... | 200 | C12H24O2 | 1000447-36-4 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

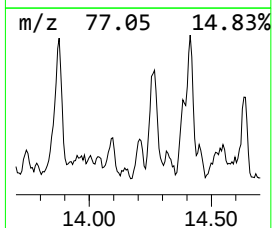
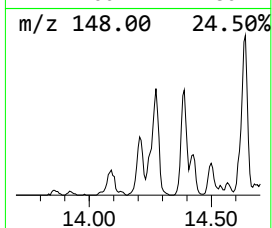
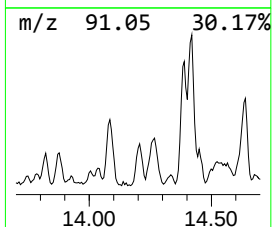
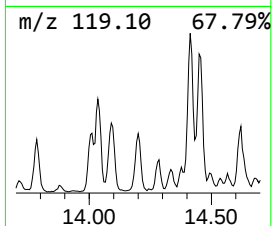
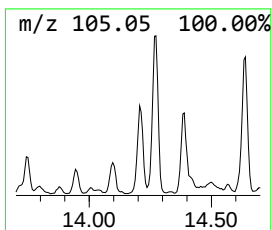
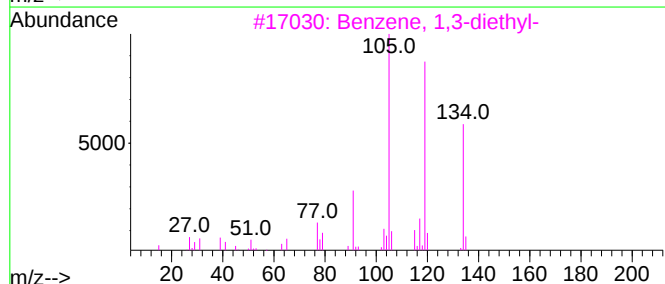
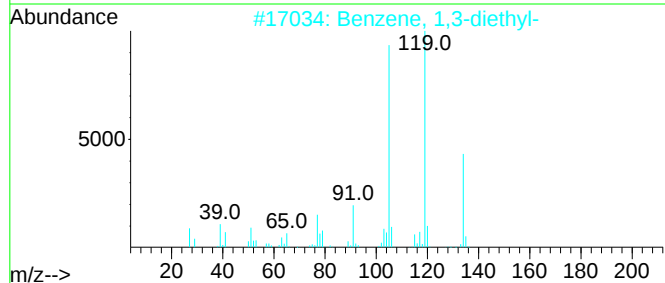
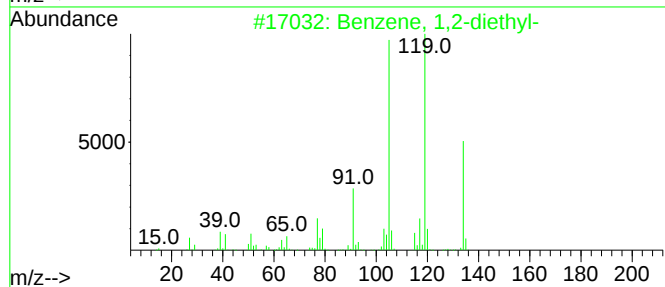
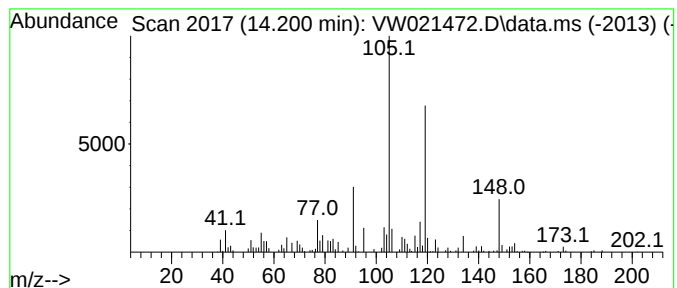
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Quant Title : SFAM01.0

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

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Peak Number 37 Benzene, 1,2-diethyl- Concentration Rank 26

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.200 | 5.13 ug/L | 100623 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 70   |
| 2    |    |   | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 58   |
| 3    |    |   | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 58   |
| 4    |    |   | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16  | 002050-24-0 | 58   |
| 5    |    |   | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

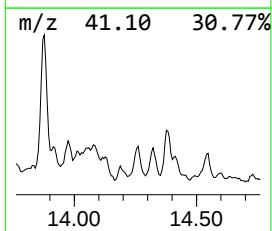
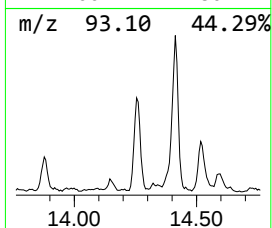
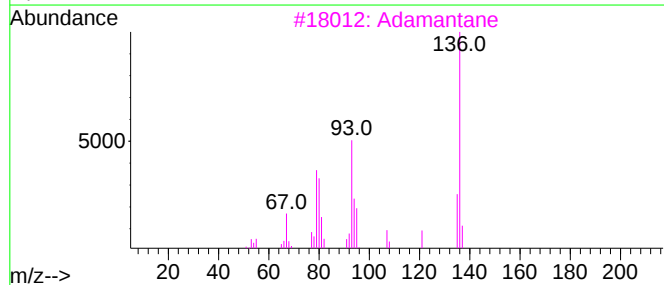
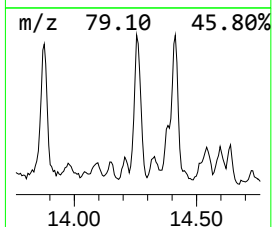
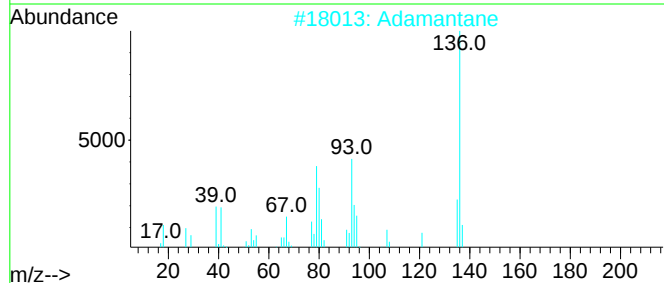
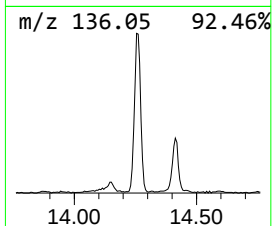
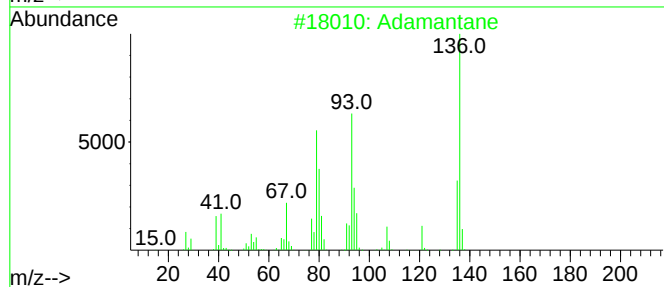
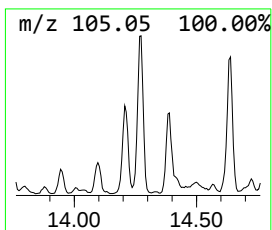
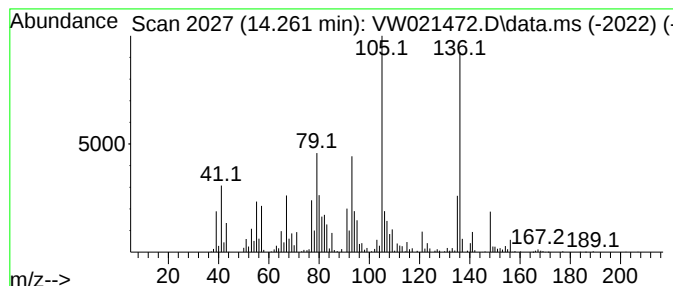
Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

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

\*\*\*\*\*  
Peak Number 38 Adamantane Concentration Rank 9

| R.T.      | EstConc      | Area   | Relative to ISTD       |         | R.T.        |      |
|-----------|--------------|--------|------------------------|---------|-------------|------|
| 14.261    | 15.38 ug/L   | 301537 | 1,4-Dichlorobenzene-d4 |         | 13.554      |      |
| Hit# of 5 | Tentative ID |        | MW                     | MolForm | CAS#        | Qual |
| 1         | Adamantane   |        | 136                    | C10H16  | 000281-23-2 | 95   |
| 2         | Adamantane   |        | 136                    | C10H16  | 000281-23-2 | 91   |
| 3         | Adamantane   |        | 136                    | C10H16  | 000281-23-2 | 64   |
| 4         | Adamantane   |        | 136                    | C10H16  | 000281-23-2 | 64   |
| 5         | Adamantane   |        | 136                    | C10H16  | 000281-23-2 | 62   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

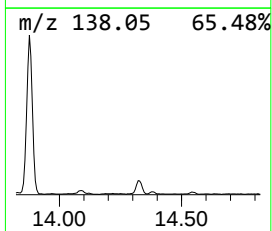
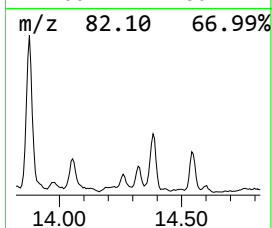
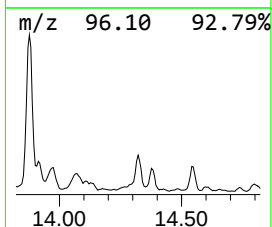
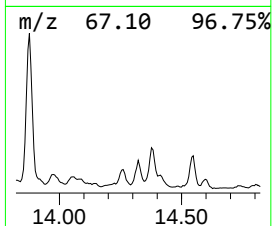
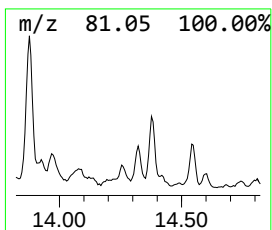
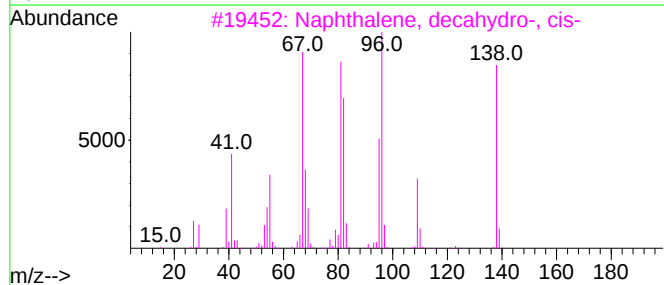
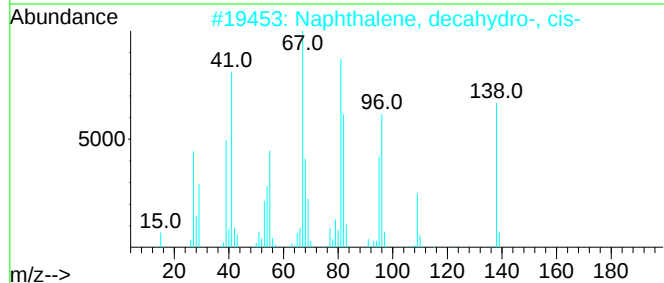
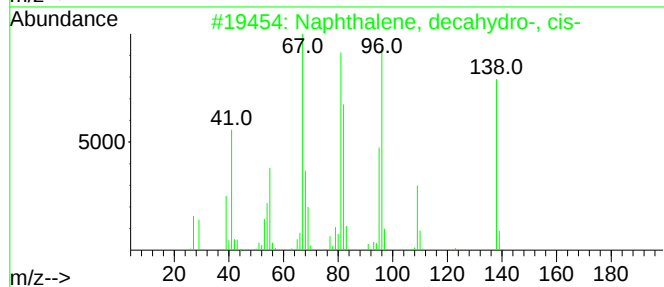
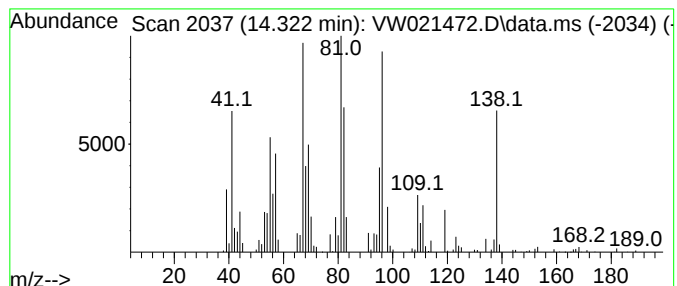
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Quant Title : SFAM01.0

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

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Peak Number 39 Naphthalene, decahydro-, cis- Concentration Rank 19

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.322 | 6.77 ug/L | 132795 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, decahydro-, cis- | 138 | C10H18  | 000493-01-6 | 93   |
| 2    |    |   | Naphthalene, decahydro-, cis- | 138 | C10H18  | 000493-01-6 | 89   |
| 3    |    |   | Naphthalene, decahydro-, cis- | 138 | C10H18  | 000493-01-6 | 86   |
| 4    |    |   | Naphthalene, decahydro-       | 138 | C10H18  | 000091-17-8 | 78   |
| 5    |    |   | Naphthalene, decahydro-       | 138 | C10H18  | 000091-17-8 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

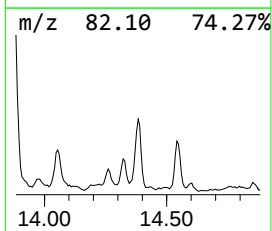
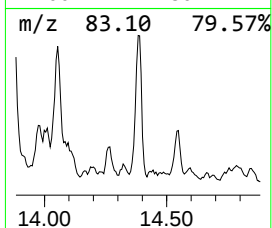
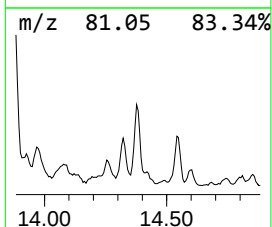
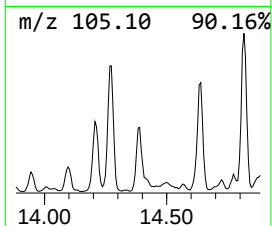
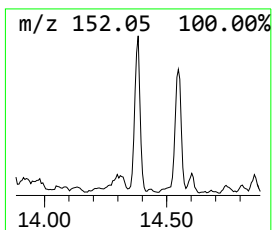
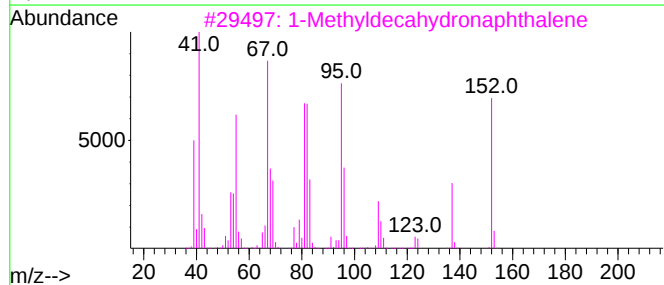
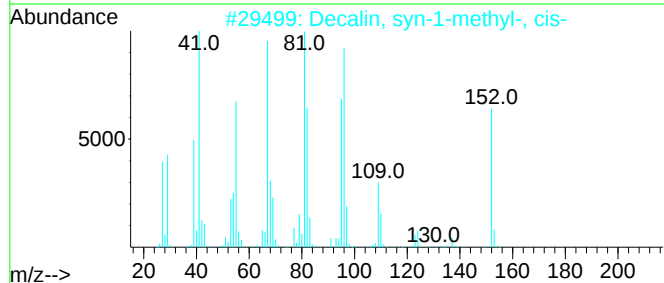
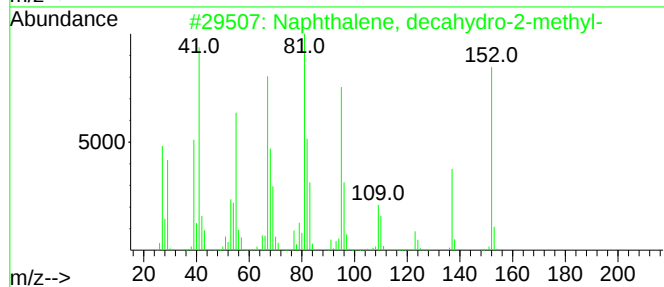
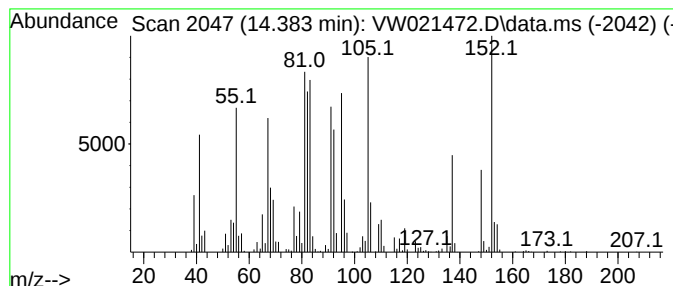
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 40 Naphthalene, decahydro-2-me... Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.383 | 17.89 ug/L | 350779 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 53   |
| 2    |    |   | Decalin, syn-1-methyl-, cis-     | 152 | C11H20  | 1000158-89-1 | 45   |
| 3    |    |   | 1-Methyldecahydronaphthalene     | 152 | C11H20  | 002958-75-0  | 43   |
| 4    |    |   | Furan, 2-hexyl-                  | 152 | C10H16O | 003777-70-6  | 43   |
| 5    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

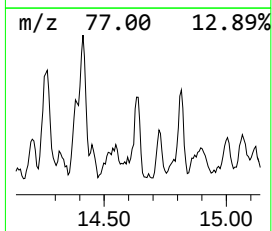
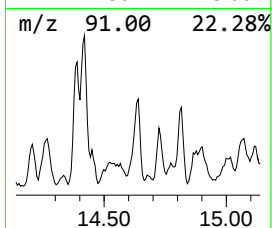
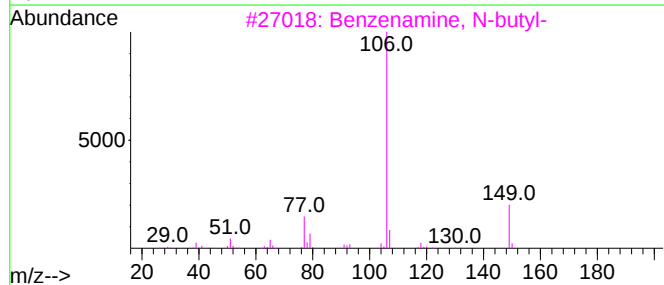
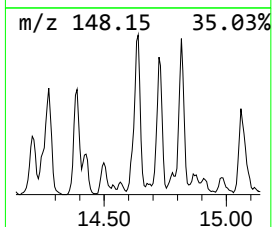
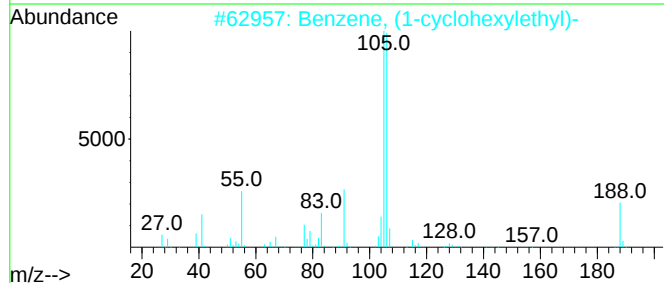
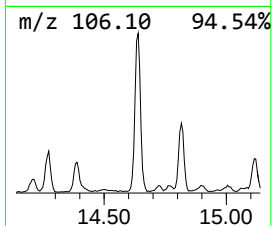
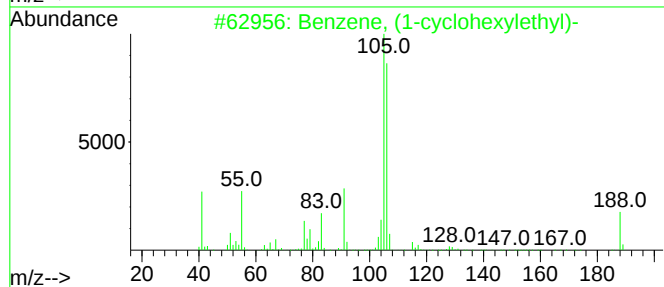
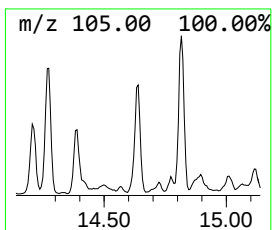
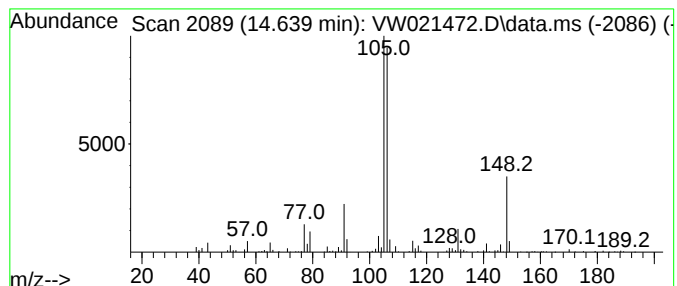
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 41 Benzene, (1-cyclohexylethyl)- Concentration Rank 23

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.639 | 5.55 ug/L | 108891 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, (1-cyclohexylethyl)- | 188 | C14H20  | 004413-16-5 | 58   |
| 2    |    |   | Benzene, (1-cyclohexylethyl)- | 188 | C14H20  | 004413-16-5 | 50   |
| 3    |    |   | Benzenamine, N-butyl-         | 149 | C10H15N | 001126-78-9 | 43   |
| 4    |    |   | Benzenamine, 4-butyl-         | 149 | C10H15N | 000104-13-2 | 43   |
| 5    |    |   | Benzene, (1-cyclohexylethyl)- | 188 | C14H20  | 004413-16-5 | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

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

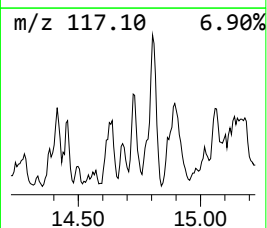
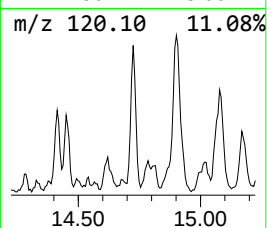
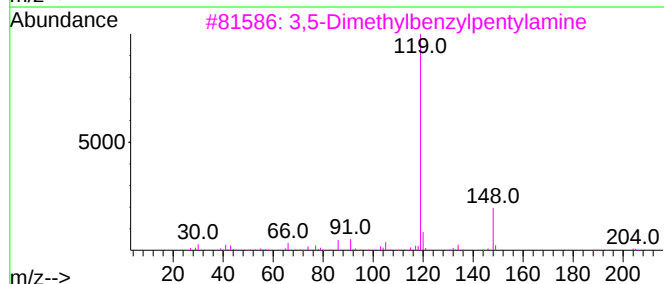
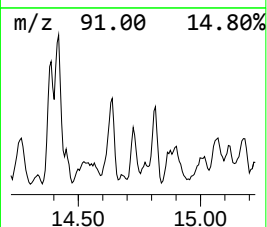
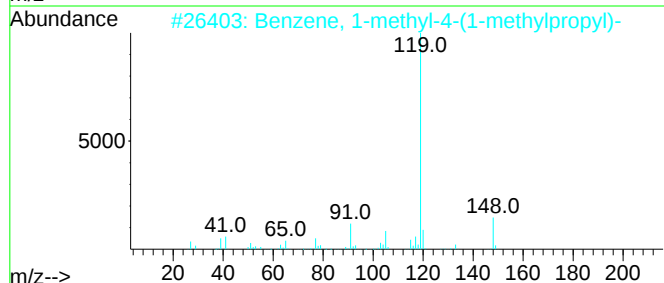
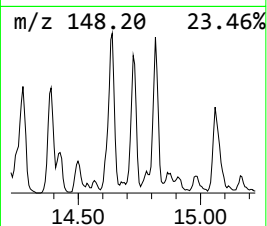
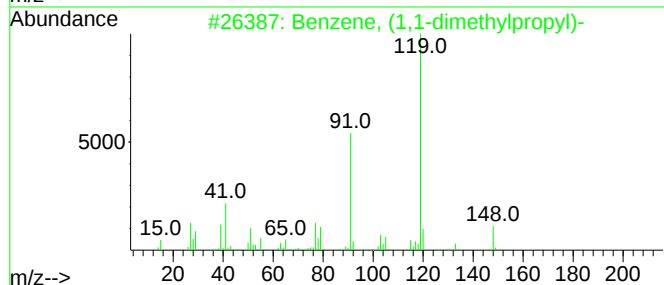
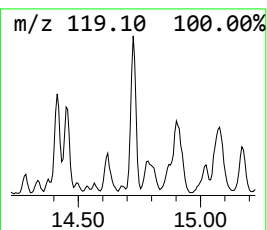
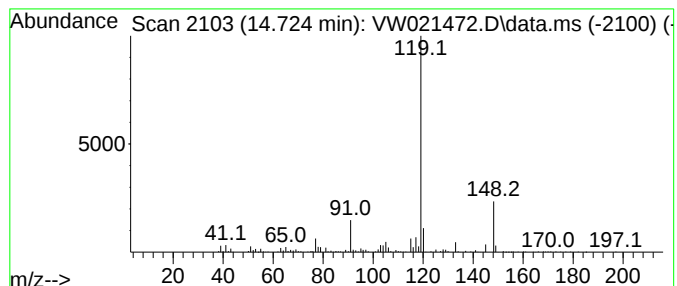
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 42 Benzene, (1,1-dimethylpropyl)- Concentration Rank 22

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.724 | 5.80 ug/L | 113709 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8  | 90   |
| 2    |    |   | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0  | 87   |
| 3    |    |   | 3,5-Dimethylbenzylpentylamine       | 205 | C14H23N | 1000491-60-8 | 72   |
| 4    |    |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8  | 72   |
| 5    |    |   | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7  | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

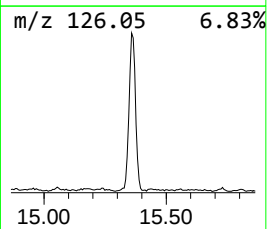
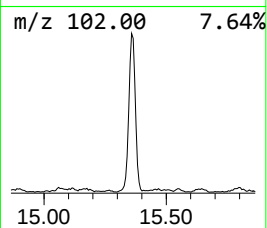
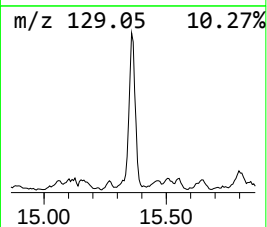
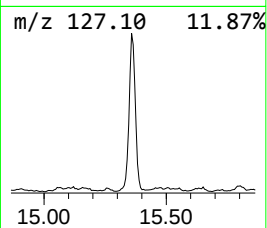
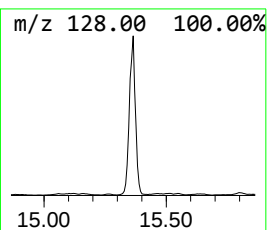
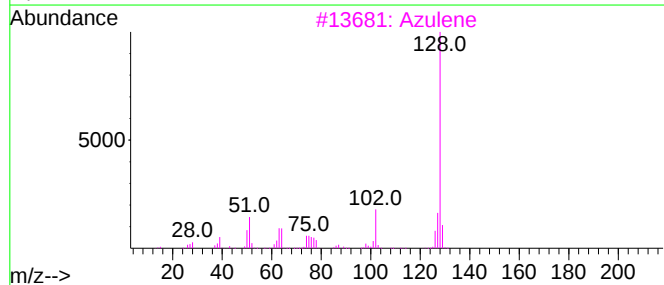
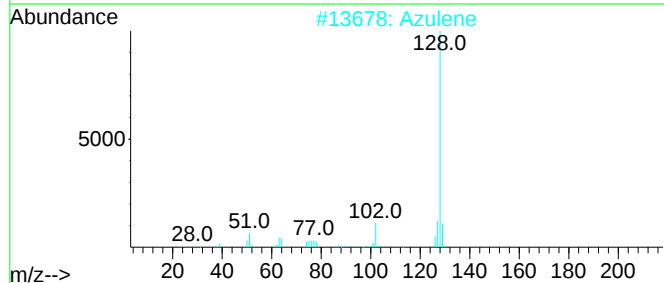
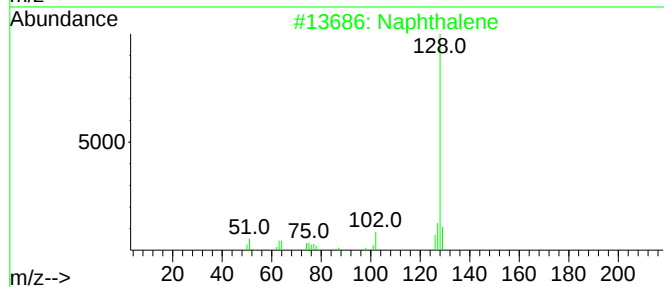
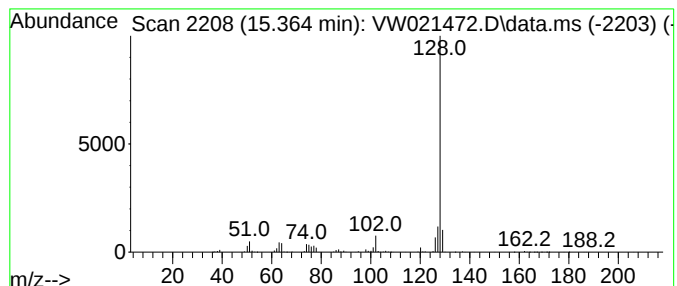
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Quant Title : SFAM01.0

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

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Peak Number 43 Azulene Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.364 | 25.34 ug/L | 496780 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene  | 128 | C10H8   | 000091-20-3 | 95   |
| 2    |    |   | Azulene      | 128 | C10H8   | 000275-51-4 | 93   |
| 3    |    |   | Azulene      | 128 | C10H8   | 000275-51-4 | 91   |
| 4    |    |   | Naphthalene  | 128 | C10H8   | 000091-20-3 | 90   |
| 5    |    |   | Azulene      | 128 | C10H8   | 000275-51-4 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

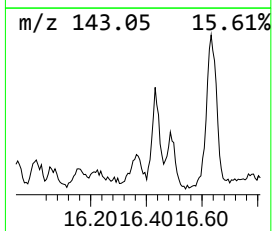
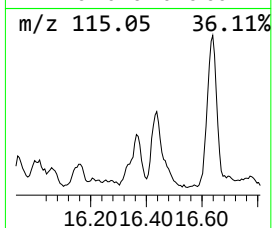
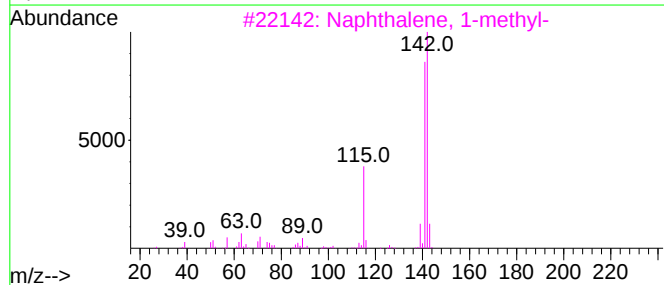
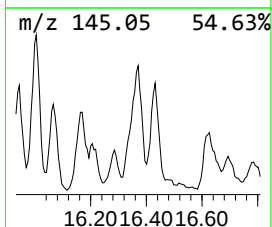
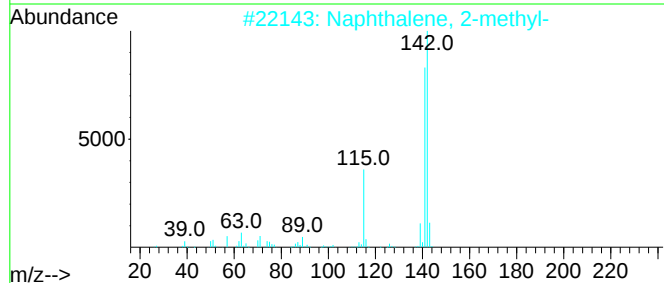
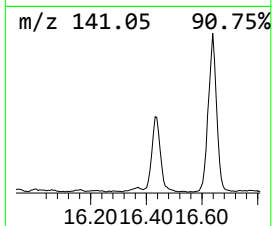
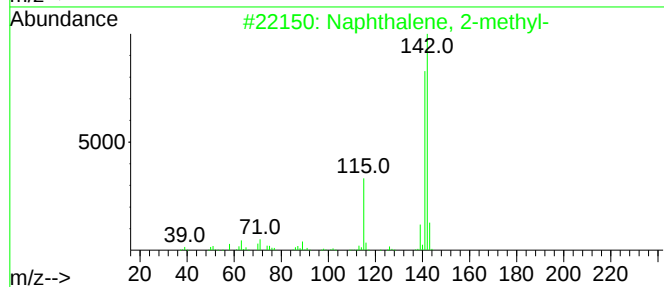
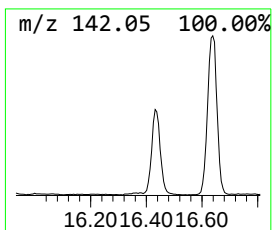
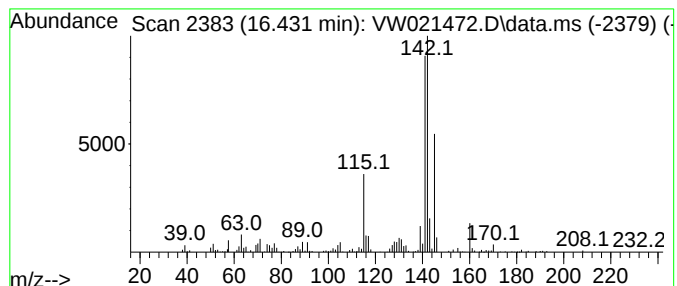
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 44 Benzocycloheptatriene Concentration Rank 7

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.431 | 17.88 ug/L | 350520 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 95   |
| 2    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 93   |
| 3    |    |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 93   |
| 4    |    |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 89   |
| 5    |    |   | Benzocycloheptatriene  | 142 | C11H10  | 000264-09-5 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
Data File : VW021472.D  
Acq On : 18 Dec 2021 13:29  
Operator : SY/VA  
Sample : M5154-16  
Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BGL96

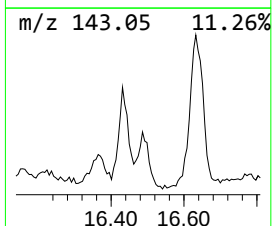
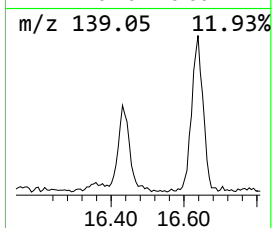
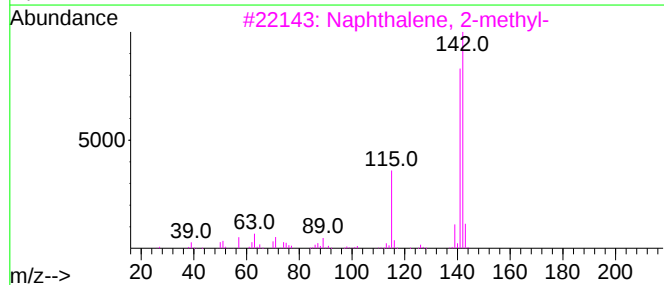
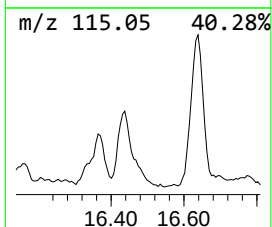
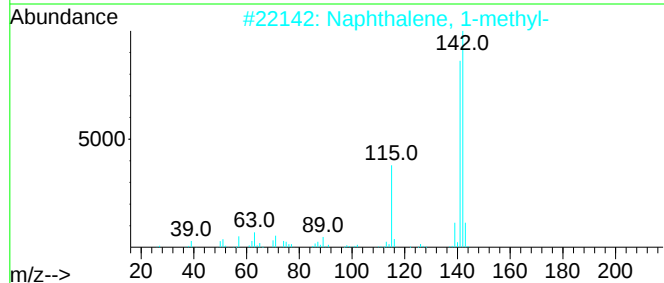
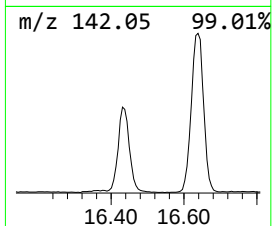
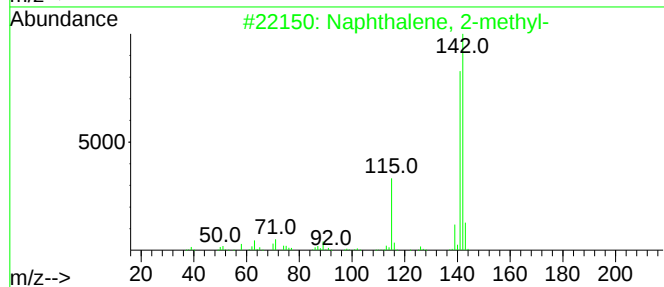
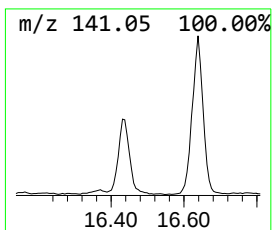
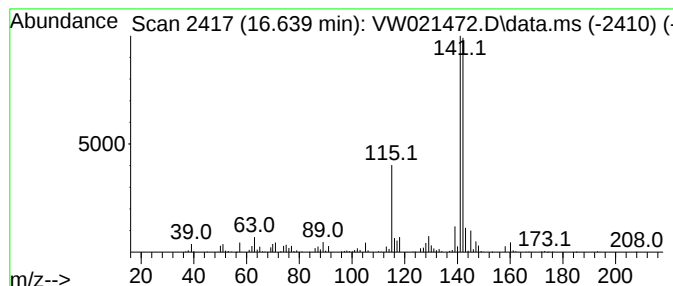
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 45 Bicyclo[4.4.1]undeca-1,3,5,... Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.639 | 16.88 ug/L | 330900 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2    |    |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3    |    |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 4    |    |   | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 91   |
| 5    |    |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121821\  
 Data File : VW021472.D  
 Acq On : 18 Dec 2021 13:29  
 Operator : SY/VA  
 Sample : M5154-16  
 Misc : 7.05g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BGL96

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

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

|                    |        |         |       |          | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
| TIC Top Hit name   | RT     | EstConc | Units | Response | #                     | RT     | Resp   | Conc |
| (DEL) Alkane: S... | 8.158  | 4.5     | ug/L  | 75014    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 8.475  | 5.3     | ug/L  | 88276    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 9.329  | 1.8     | ug/L  | 29236    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 9.384  | 3.8     | ug/L  | 64015    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: C... | 9.609  | 2.5     | ug/L  | 41803    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 9.756  | 4.5     | ug/L  | 74765    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 9.896  | 7.0     | ug/L  | 116702   | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 9.987  | 3.5     | ug/L  | 58329    | 1                     | 8.841  | 418713 | 25.0 |
| (DEL) Alkane: S... | 10.097 | 2.1     | ug/L  | 35386    | 1                     | 8.841  | 418713 | 25.0 |
| Carbonic acid, ... | 10.249 | 2.9     | ug/L  | 63077    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 10.487 | 2.3     | ug/L  | 50519    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 10.664 | 2.5     | ug/L  | 54723    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 10.762 | 3.5     | ug/L  | 78130    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 10.847 | 3.1     | ug/L  | 68084    | 2                     | 11.627 | 552148 | 25.0 |
| Cyclohexanone, ... | 10.993 | 2.4     | ug/L  | 52703    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 11.030 | 3.2     | ug/L  | 70570    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 11.109 | 4.5     | ug/L  | 100040   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 11.176 | 6.3     | ug/L  | 139666   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 11.231 | 4.8     | ug/L  | 105827   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 11.335 | 3.6     | ug/L  | 78969    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 11.432 | 10.6    | ug/L  | 234114   | 2                     | 11.627 | 552148 | 25.0 |
| Trichloroacetic... | 11.512 | 5.0     | ug/L  | 110453   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: 1... | 11.761 | 6.5     | ug/L  | 143297   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 11.914 | 11.3    | ug/L  | 249021   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 11.981 | 1.3     | ug/L  | 27690    | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 12.060 | 7.1     | ug/L  | 156995   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 12.133 | 43.1    | ug/L  | 951601   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: S... | 12.249 | 12.8    | ug/L  | 282945   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 12.304 | 8.0     | ug/L  | 175953   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 12.383 | 13.3    | ug/L  | 294310   | 2                     | 11.627 | 552148 | 25.0 |
| (DEL) Alkane: C... | 12.780 | 22.1    | ug/L  | 432985   | 3                     | 13.554 | 490139 | 25.0 |
| (DEL) Alkane: S... | 12.859 | 18.8    | ug/L  | 368466   | 3                     | 13.554 | 490139 | 25.0 |
| (DEL) Alkane: S... | 13.078 | 9.8     | ug/L  | 191777   | 3                     | 13.554 | 490139 | 25.0 |
| (DEL) Alkane: S... | 13.121 | 8.2     | ug/L  | 159891   | 3                     | 13.554 | 490139 | 25.0 |
| (DEL) Alkane: S... | 13.164 | 23.9    | ug/L  | 468310   | 3                     | 13.554 | 490139 | 25.0 |
| Benzene, 1,2-di... | 14.200 | 5.1     | ug/L  | 100623   | 3                     | 13.554 | 490139 | 25.0 |
| Adamantane         | 14.261 | 15.4    | ug/L  | 301537   | 3                     | 13.554 | 490139 | 25.0 |
| Naphthalene, de... | 14.322 | 6.8     | ug/L  | 132795   | 3                     | 13.554 | 490139 | 25.0 |
| Naphthalene, de... | 14.383 | 17.9    | ug/L  | 350779   | 3                     | 13.554 | 490139 | 25.0 |
| Benzene, (1-cyc... | 14.639 | 5.5     | ug/L  | 108891   | 3                     | 13.554 | 490139 | 25.0 |
| Benzene, (1,1-d... | 14.724 | 5.8     | ug/L  | 113709   | 3                     | 13.554 | 490139 | 25.0 |
| Azulene            | 15.364 | 25.3    | ug/L  | 496780   | 3                     | 13.554 | 490139 | 25.0 |
| Benzocyclohepta... | 16.431 | 17.9    | ug/L  | 350520   | 3                     | 13.554 | 490139 | 25.0 |
| Bicyclo[4.4.1]u... | 16.639 | 16.9    | ug/L  | 330900   | 3                     | 13.554 | 490139 | 25.0 |