

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
 Data File : VD072635.D  
 Acq On : 19 Apr 2022 20:07  
 Operator : VA/SY  
 Sample : N2444-05  
 Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4D

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Title : SW846 8260

Signal : TIC: VD072635.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         | 7.026       | 858           | 868         | 885          | rVB      | 750285         | 2232193       | 2.20%           | 0.109%        |
| 2         | 7.979       | 1022          | 1030        | 1038         | rVV2     | 2046649        | 4886529       | 4.82%           | 0.239%        |
| 3         | 8.061       | 1038          | 1044        | 1055         | rVB      | 1101698        | 2713045       | 2.68%           | 0.133%        |
| 4         | 8.185       | 1055          | 1065        | 1071         | rBV      | 1383205        | 3263677       | 3.22%           | 0.160%        |
| 5         | 8.455       | 1101          | 1111        | 1117         | rBV2     | 1813353        | 4707736       | 4.65%           | 0.230%        |
| 6         | 8.526       | 1117          | 1123        | 1129         | rVV2     | 1664544        | 4382851       | 4.33%           | 0.214%        |
| 7         | 8.597       | 1129          | 1135        | 1146         | rVB      | 2072570        | 4711869       | 4.65%           | 0.230%        |
| 8         | 8.861       | 1170          | 1180        | 1189         | rBV      | 956750         | 1996590       | 1.97%           | 0.098%        |
| 9         | 9.349       | 1247          | 1263        | 1269         | rBV      | 18539184       | 45330795      | 44.76%          | 2.216%        |
| 10        | 9.402       | 1269          | 1272        | 1280         | rVB      | 2428354        | 4285238       | 4.23%           | 0.210%        |
| 11        | 9.532       | 1288          | 1294        | 1300         | rBV      | 1645932        | 2949150       | 2.91%           | 0.144%        |
| 12        | 9.626       | 1300          | 1310        | 1318         | rVB2     | 3589234        | 8599911       | 8.49%           | 0.420%        |
| 13        | 9.767       | 1318          | 1334        | 1346         | rBV2     | 5646944        | 11810418      | 11.66%          | 0.577%        |
| 14        | 9.908       | 1346          | 1358        | 1363         | rBV      | 3161203        | 6807561       | 6.72%           | 0.333%        |
| 15        | 9.961       | 1363          | 1367        | 1372         | rVV4     | 1018015        | 1774653       | 1.75%           | 0.087%        |
| 16        | 10.091      | 1382          | 1389        | 1394         | rBV2     | 3769968        | 8344258       | 8.24%           | 0.408%        |
| 17        | 10.138      | 1394          | 1397        | 1405         | rVB      | 2722707        | 4962502       | 4.90%           | 0.243%        |
| 18        | 10.255      | 1405          | 1417        | 1423         | rBV4     | 1715636        | 5326178       | 5.26%           | 0.260%        |
| 19        | 10.332      | 1423          | 1430        | 1434         | rBV      | 21595543       | 41844026      | 41.32%          | 2.046%        |
| 20        | 10.373      | 1434          | 1437        | 1443         | rVB      | 9259872        | 14352192      | 14.17%          | 0.702%        |
| 21        | 10.455      | 1443          | 1451        | 1454         | rBV      | 2798386        | 5134173       | 5.07%           | 0.251%        |
| 22        | 10.502      | 1454          | 1459        | 1469         | rVB3     | 7691961        | 20703373      | 20.44%          | 1.012%        |
| 23        | 10.632      | 1469          | 1481        | 1483         | rBV2     | 3018108        | 6314500       | 6.23%           | 0.309%        |
| 24        | 10.673      | 1483          | 1488        | 1496         | rVB      | 14157283       | 26532430      | 26.20%          | 1.297%        |
| 25        | 10.773      | 1496          | 1505        | 1509         | rBV2     | 8545373        | 18353935      | 18.12%          | 0.897%        |
| 26        | 10.808      | 1509          | 1511        | 1515         | rVV2     | 2138830        | 2966211       | 2.93%           | 0.145%        |
| 27        | 10.855      | 1515          | 1519        | 1525         | rVB      | 6088979        | 10266456      | 10.14%          | 0.502%        |
| 28        | 10.949      | 1525          | 1535        | 1541         | rBV      | 16356099       | 29608637      | 29.24%          | 1.448%        |
| 29        | 11.049      | 1541          | 1552        | 1560         | rBV      | 11056165       | 26416178      | 26.08%          | 1.292%        |
| 30        | 11.120      | 1560          | 1564        | 1567         | rVV2     | 6373091        | 10708150      | 10.57%          | 0.524%        |
| 31        | 11.185      | 1567          | 1575        | 1580         | rVV      | 21658845       | 46527833      | 45.94%          | 2.275%        |
| 32        | 11.243      | 1580          | 1585        | 1590         | rVV      | 30705584       | 57495115      | 56.77%          | 2.811%        |
| 33        | 11.291      | 1590          | 1593        | 1597         | rVV      | 5502997        | 8809924       | 8.70%           | 0.431%        |
| 34        | 11.349      | 1597          | 1603        | 1607         | rVV2     | 16534218       | 30666640      | 30.28%          | 1.499%        |
| 35        | 11.414      | 1607          | 1614        | 1615         | rVV3     | 7344625        | 18218313      | 17.99%          | 0.891%        |
| 36        | 11.443      | 1615          | 1619        | 1627         | rVB      | 15893362       | 30023008      | 29.64%          | 1.468%        |

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 MSVOA\_D  
 ClientSampleId :  
 SB-4D

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |           |         |        |
|----|--------|------|------|------|------|----------|-----------|---------|--------|
| 37 | 11.520 | 1627 | 1632 | 1637 | rBV  | 10908726 | 18922743  | 18.68%  | 0.925% |
| 38 | 11.673 | 1654 | 1658 | 1662 | rBV  | 1854892  | 2798859   | 2.76%   | 0.137% |
| 39 | 11.732 | 1662 | 1668 | 1671 | rVV2 | 3471144  | 6313275   | 6.23%   | 0.309% |
| 40 | 11.773 | 1671 | 1675 | 1678 | rVV  | 8511581  | 13304600  | 13.14%  | 0.650% |
| 41 | 11.820 | 1678 | 1683 | 1688 | rVV5 | 10151491 | 22537342  | 22.25%  | 1.102% |
| 42 | 11.885 | 1688 | 1694 | 1698 | rVV  | 23145750 | 46142204  | 45.56%  | 2.256% |
| 43 | 11.926 | 1698 | 1701 | 1706 | rVB2 | 16306207 | 25499126  | 25.18%  | 1.247% |
| 44 | 11.985 | 1706 | 1711 | 1715 | rBV2 | 4260923  | 8405385   | 8.30%   | 0.411% |
| 45 | 12.073 | 1718 | 1726 | 1731 | rVB3 | 7345669  | 16567922  | 16.36%  | 0.810% |
| 46 | 12.149 | 1731 | 1739 | 1745 | rBV3 | 28756972 | 68918319  | 68.05%  | 3.370% |
| 47 | 12.202 | 1745 | 1748 | 1751 | rVV2 | 7544733  | 12564677  | 12.41%  | 0.614% |
| 48 | 12.267 | 1751 | 1759 | 1763 | rVV  | 31345760 | 57786861  | 57.06%  | 2.825% |
| 49 | 12.349 | 1763 | 1773 | 1775 | rVV3 | 29164641 | 68186883  | 67.33%  | 3.334% |
| 50 | 12.385 | 1775 | 1779 | 1789 | rVV4 | 34615623 | 101277075 | 100.00% | 4.952% |
| 51 | 12.467 | 1789 | 1793 | 1797 | rVV3 | 14996790 | 33727520  | 33.30%  | 1.649% |
| 52 | 12.514 | 1798 | 1801 | 1804 | rVV3 | 16309703 | 29103132  | 28.74%  | 1.423% |
| 53 | 12.549 | 1804 | 1807 | 1814 | rVB3 | 17412582 | 30430070  | 30.05%  | 1.488% |
| 54 | 12.626 | 1814 | 1820 | 1825 | rVB4 | 8562980  | 18719830  | 18.48%  | 0.915% |
| 55 | 12.708 | 1825 | 1834 | 1839 | rBV4 | 11370160 | 30507471  | 30.12%  | 1.492% |
| 56 | 12.790 | 1839 | 1848 | 1855 | rVB4 | 33626017 | 79474850  | 78.47%  | 3.886% |
| 57 | 12.867 | 1855 | 1861 | 1866 | rBV3 | 11903264 | 27898613  | 27.55%  | 1.364% |
| 58 | 12.949 | 1867 | 1875 | 1880 | rVV4 | 30330262 | 84995795  | 83.92%  | 4.156% |
| 59 | 13.002 | 1881 | 1884 | 1889 | rVB3 | 16544300 | 25118284  | 24.80%  | 1.228% |
| 60 | 13.090 | 1894 | 1899 | 1903 | rBV2 | 13294068 | 20198001  | 19.94%  | 0.988% |
| 61 | 13.138 | 1903 | 1907 | 1910 | rBV2 | 9208013  | 16542728  | 16.33%  | 0.809% |
| 62 | 13.179 | 1910 | 1914 | 1921 | rVB2 | 26893947 | 44629213  | 44.07%  | 2.182% |
| 63 | 13.273 | 1927 | 1930 | 1932 | rBV2 | 2901827  | 3594368   | 3.55%   | 0.176% |
| 64 | 13.302 | 1932 | 1935 | 1939 | rVV  | 8348108  | 11010374  | 10.87%  | 0.538% |
| 65 | 13.355 | 1940 | 1944 | 1947 | rVV2 | 7452083  | 11886076  | 11.74%  | 0.581% |
| 66 | 13.390 | 1947 | 1950 | 1954 | rVB  | 10211906 | 13231144  | 13.06%  | 0.647% |
| 67 | 13.461 | 1954 | 1962 | 1965 | rBV3 | 22955946 | 47846907  | 47.24%  | 2.339% |
| 68 | 13.720 | 1998 | 2006 | 2010 | rBV6 | 12475301 | 30295261  | 29.91%  | 1.481% |
| 69 | 13.767 | 2011 | 2014 | 2018 | rVB  | 8719658  | 12348649  | 12.19%  | 0.604% |
| 70 | 13.832 | 2018 | 2025 | 2029 | rBV2 | 7851532  | 15463473  | 15.27%  | 0.756% |
| 71 | 13.885 | 2029 | 2034 | 2039 | rBV2 | 28751150 | 53305297  | 52.63%  | 2.606% |
| 72 | 13.932 | 2039 | 2042 | 2046 | rVB2 | 8097536  | 10905391  | 10.77%  | 0.533% |
| 73 | 13.990 | 2047 | 2052 | 2055 | rBV4 | 7828952  | 13288333  | 13.12%  | 0.650% |
| 74 | 14.102 | 2067 | 2071 | 2076 | rVB  | 17633196 | 27010733  | 26.67%  | 1.321% |
| 75 | 14.143 | 2076 | 2078 | 2084 | rVB2 | 7586913  | 11404164  | 11.26%  | 0.558% |
| 76 | 14.214 | 2085 | 2090 | 2096 | rVB3 | 13055065 | 23162239  | 22.87%  | 1.132% |

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 Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4D

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Title : SW846 8260

|     |        |      |      |      |      |          |          |        |        |
|-----|--------|------|------|------|------|----------|----------|--------|--------|
| 77  | 14.273 | 2096 | 2100 | 2106 | rBV4 | 7508765  | 13370096 | 13.20% | 0.654% |
| 78  | 14.332 | 2106 | 2110 | 2112 | rBV3 | 3371885  | 4980585  | 4.92%  | 0.244% |
| 79  | 14.396 | 2115 | 2121 | 2125 | rBV3 | 21446473 | 40705016 | 40.19% | 1.990% |
| 80  | 14.508 | 2136 | 2140 | 2143 | rBV2 | 5242928  | 8327224  | 8.22%  | 0.407% |
| 81  | 14.561 | 2144 | 2149 | 2154 | rVV4 | 11973658 | 21573047 | 21.30% | 1.055% |
| 82  | 14.614 | 2155 | 2158 | 2163 | rVB  | 3295531  | 4694766  | 4.64%  | 0.230% |
| 83  | 14.696 | 2169 | 2172 | 2178 | rVB3 | 5651891  | 8660150  | 8.55%  | 0.423% |
| 84  | 14.749 | 2178 | 2181 | 2185 | rVV3 | 2646249  | 3416985  | 3.37%  | 0.167% |
| 85  | 14.814 | 2185 | 2192 | 2196 | rVV3 | 19650816 | 42124445 | 41.59% | 2.060% |
| 86  | 14.861 | 2196 | 2200 | 2207 | rVB4 | 15420511 | 31769225 | 31.37% | 1.553% |
| 87  | 15.079 | 2233 | 2237 | 2241 | rVB3 | 8356095  | 13877439 | 13.70% | 0.679% |
| 88  | 15.126 | 2241 | 2245 | 2250 | rVV2 | 2943772  | 5581874  | 5.51%  | 0.273% |
| 89  | 15.190 | 2251 | 2256 | 2262 | rVB2 | 6793790  | 14881740 | 14.69% | 0.728% |
| 90  | 15.349 | 2278 | 2283 | 2290 | rVB  | 11351093 | 19897719 | 19.65% | 0.973% |
| 91  | 15.437 | 2291 | 2298 | 2303 | rBV4 | 5513141  | 13223076 | 13.06% | 0.647% |
| 92  | 15.490 | 2304 | 2307 | 2310 | rBV3 | 2121256  | 3070594  | 3.03%  | 0.150% |
| 93  | 15.684 | 2332 | 2340 | 2347 | rBV2 | 4876848  | 11514347 | 11.37% | 0.563% |
| 94  | 15.761 | 2348 | 2353 | 2360 | rVB6 | 3384177  | 6785591  | 6.70%  | 0.332% |
| 95  | 15.890 | 2371 | 2375 | 2385 | rVB2 | 4948796  | 9461554  | 9.34%  | 0.463% |
| 96  | 15.979 | 2387 | 2390 | 2396 | rVB5 | 1604066  | 2670784  | 2.64%  | 0.131% |
| 97  | 16.208 | 2423 | 2429 | 2434 | rBV3 | 2615025  | 5566928  | 5.50%  | 0.272% |
| 98  | 16.326 | 2445 | 2449 | 2454 | rVV  | 1070590  | 1797685  | 1.78%  | 0.088% |
| 99  | 16.408 | 2458 | 2463 | 2470 | rVB2 | 2518309  | 5534977  | 5.47%  | 0.271% |
| 100 | 16.679 | 2501 | 2509 | 2523 | rVB  | 8875299  | 22453914 | 22.17% | 1.098% |

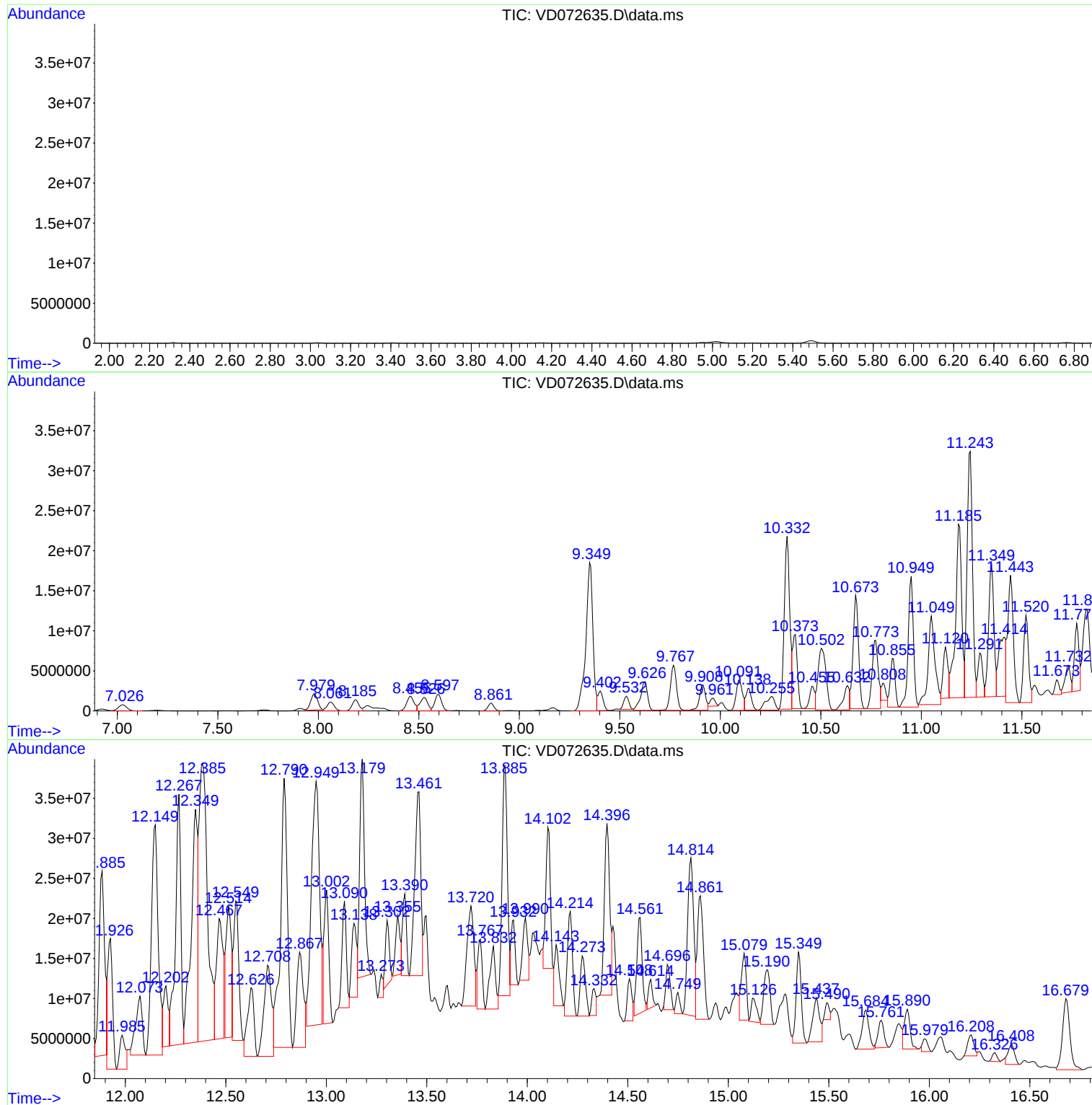
Sum of corrected areas: 2045289196

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Instrument :  
MSVOA\_D  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
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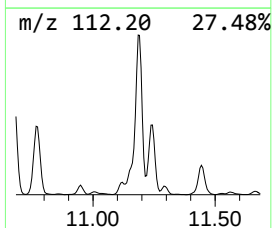
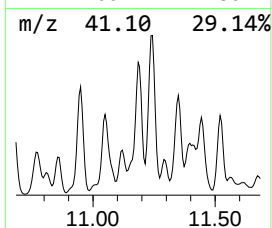
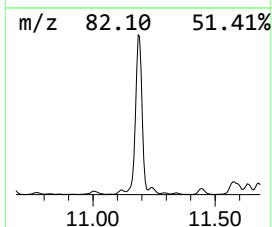
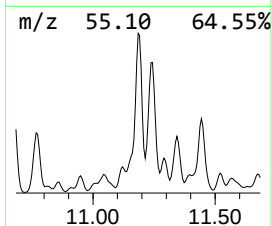
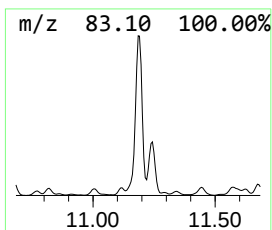
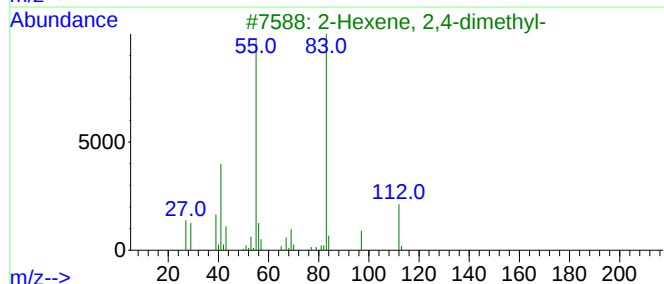
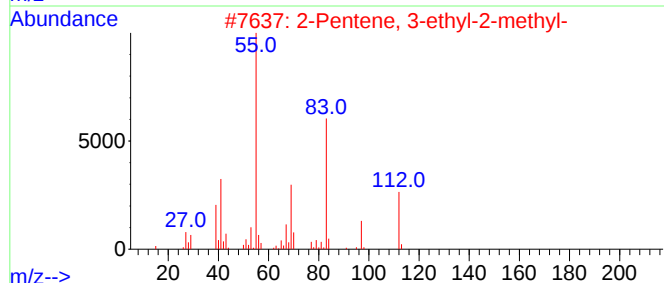
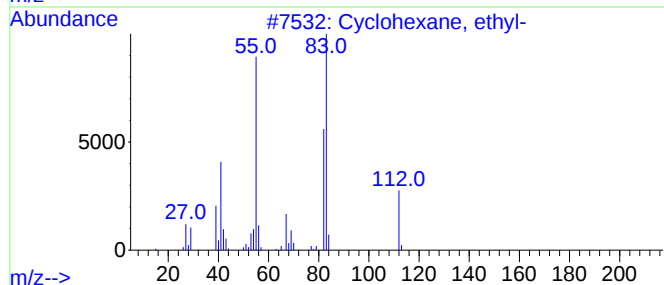
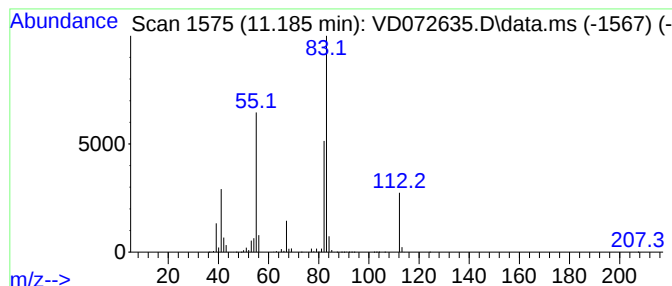
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Cyclohexane, ethyl- Concentration Rank 6

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.185 | 831.19 ug/l | 46527800 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, ethyl-           | 112 | C8H16   | 001678-91-7 | 91   |
| 2    |    |   | 2-Pentene, 3-ethyl-2-methyl-  | 112 | C8H16   | 019780-67-7 | 59   |
| 3    |    |   | 2-Hexene, 2,4-dimethyl-       | 112 | C8H16   | 014255-23-3 | 53   |
| 4    |    |   | 3-Hexene, 3,4-dimethyl-, (Z)- | 112 | C8H16   | 019550-87-9 | 53   |
| 5    |    |   | 2-Hexene, 2,3-dimethyl-       | 112 | C8H16   | 007145-20-2 | 53   |



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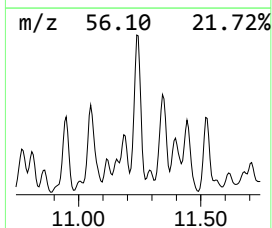
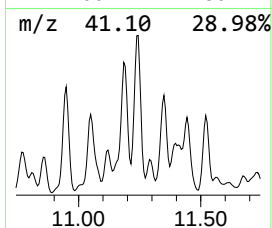
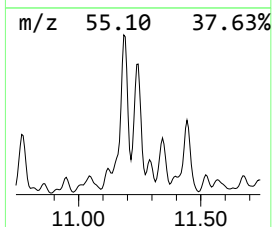
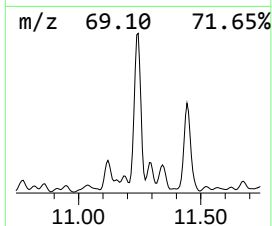
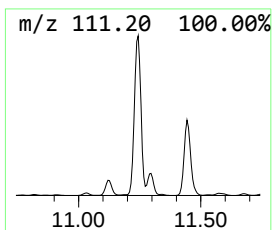
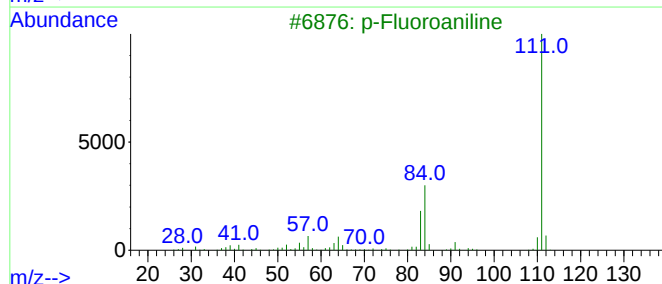
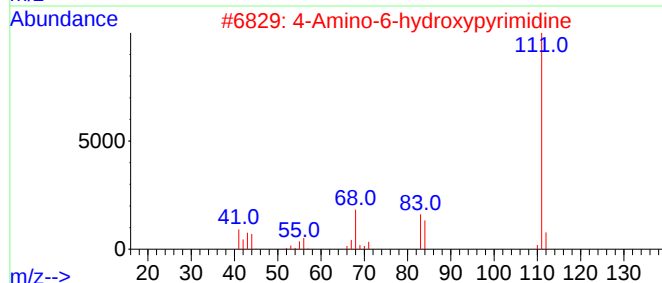
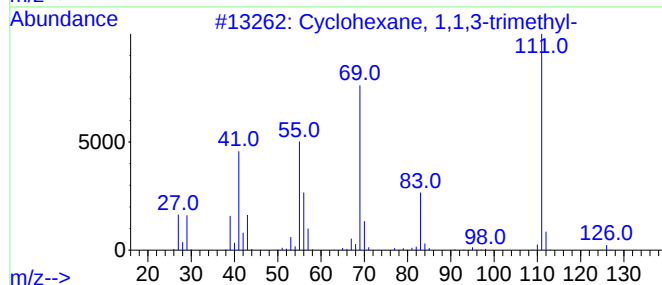
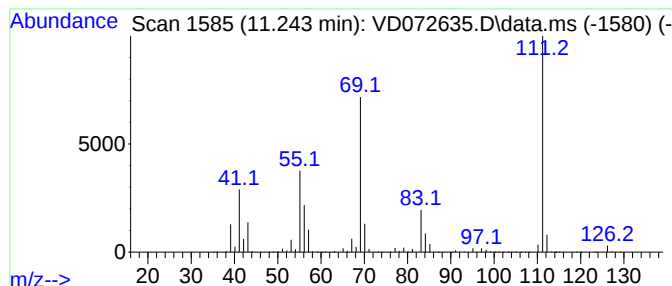
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 5

| R.T.   | EstConc      | Area     | Relative to ISTD | R.T.   |
|--------|--------------|----------|------------------|--------|
| 11.243 | 1027.12 ug/l | 57495100 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18   | 003073-66-3 | 95   |
| 2    |    |   | 4-Amino-6-hydroxypyrimidine   | 111 | C4H5N3O | 001193-22-2 | 53   |
| 3    |    |   | p-Fluoroaniline               | 111 | C6H6FN  | 000371-40-4 | 53   |
| 4    |    |   | Benzenamine, 3-fluoro-        | 111 | C6H6FN  | 000372-19-0 | 53   |
| 5    |    |   | 6-Methyl-hept-2-yn-4-ol       | 126 | C8H14O  | 060018-69-1 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

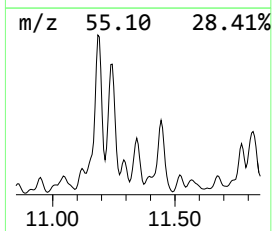
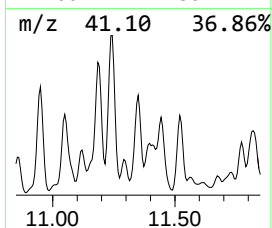
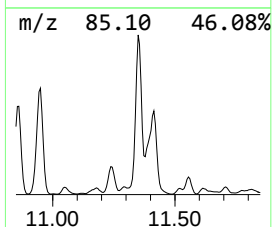
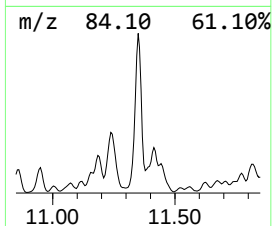
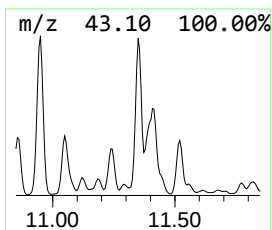
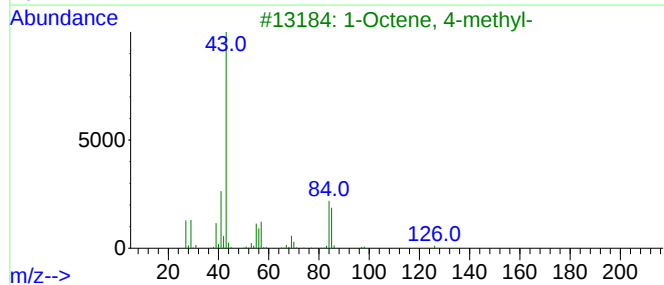
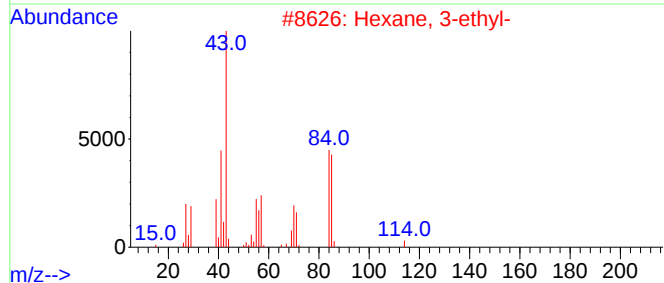
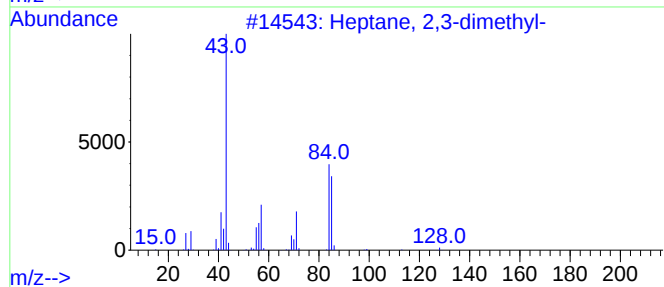
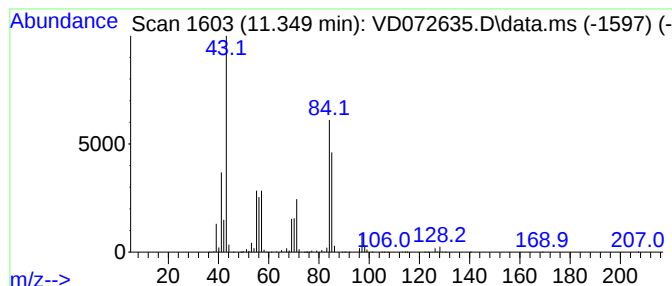
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Heptane, 2,3-dimethyl- Concentration Rank 8

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.349 | 547.84 ug/l | 30666600 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 2,3-dimethyl-   | 128 | C9H20   | 003074-71-3 | 72   |
| 2    |    |   | Hexane, 3-ethyl-         | 114 | C8H18   | 000619-99-8 | 59   |
| 3    |    |   | 1-Octene, 4-methyl-      | 126 | C9H18   | 013151-12-7 | 53   |
| 4    |    |   | Hexyl octyl ether        | 214 | C14H30O | 017071-54-4 | 53   |
| 5    |    |   | Hexane, 2,3,5-trimethyl- | 128 | C9H20   | 001069-53-0 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

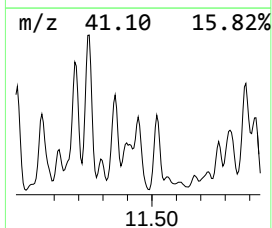
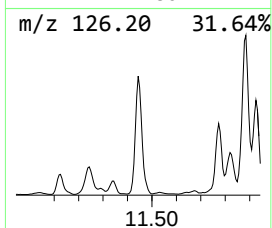
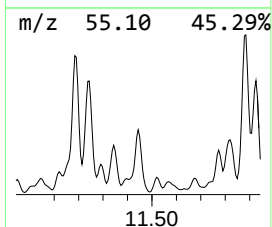
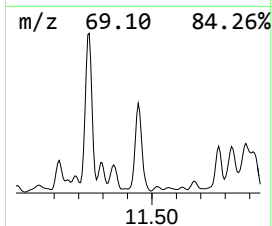
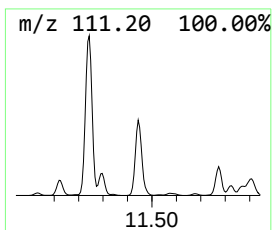
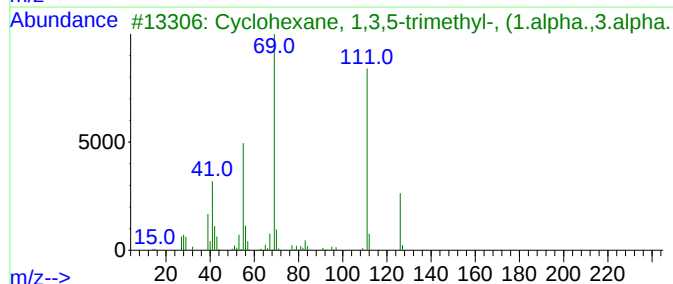
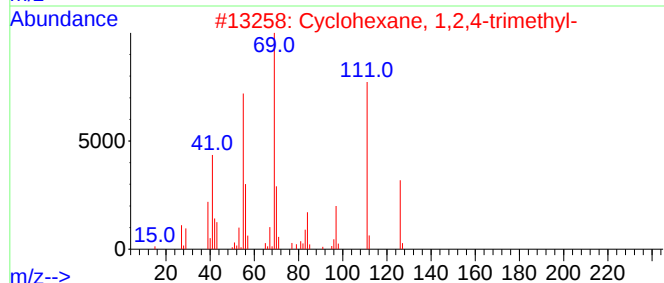
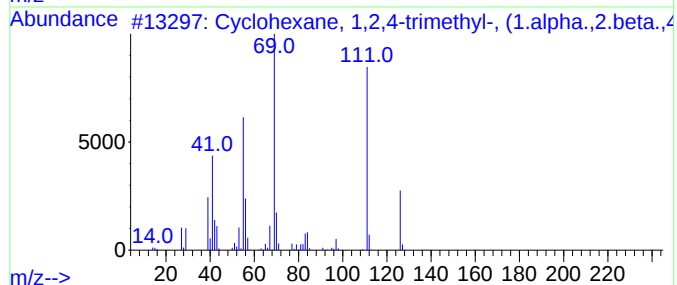
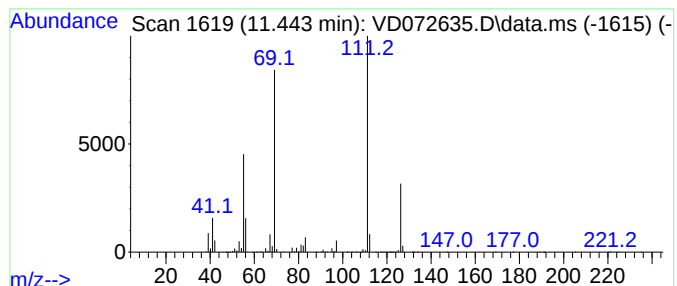
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Peak Number 4 Cyclohexane, 1,2,4-trimethyl... Concentration Rank 10

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.444 | 536.34 ug/l | 30023000 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 91   |
| 2    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 91   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 91   |
| 4    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 91   |
| 5    |    |   | 2-Pyrazoline, 1-isopropyl-5-methyl- | 126 | C7H14N2 | 026964-54-5 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

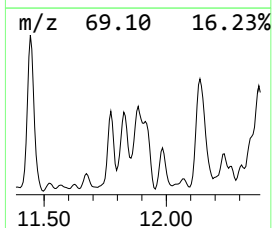
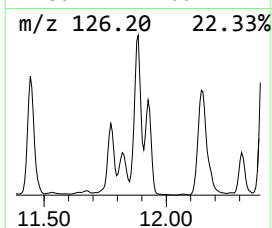
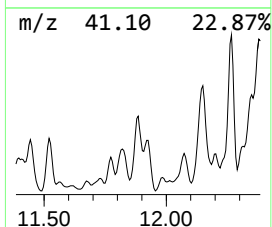
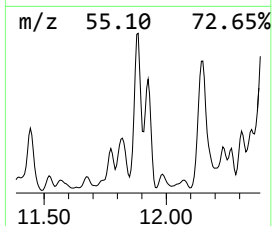
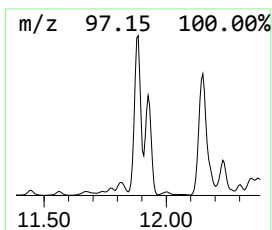
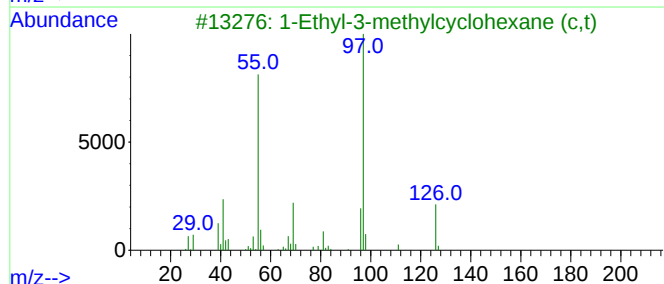
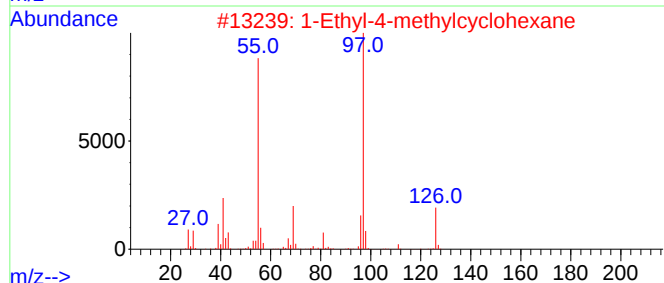
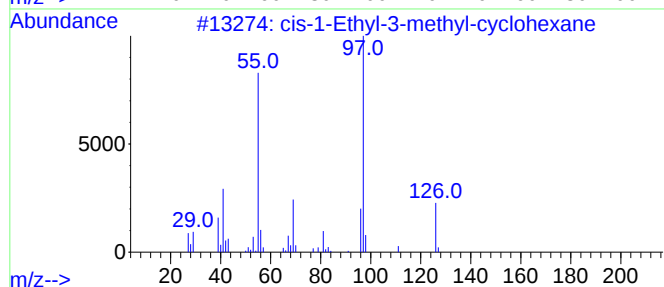
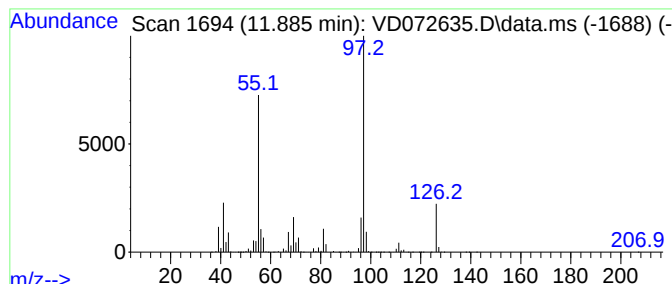
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Peak Number 5 cis-1-Ethyl-3-methyl-cyclohexane Concentration Rank 7

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.885 | 824.30 ug/l | 46142200 | Chlorobenzene-d5 | 11.638 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 94   |
| 2    |      | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 91   |
| 3    |      | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 91   |
| 4    |      | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 87   |
| 5    |      | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

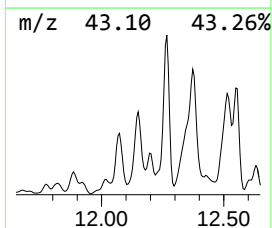
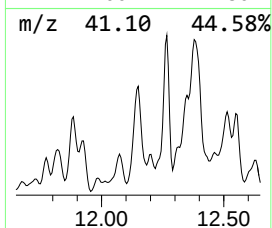
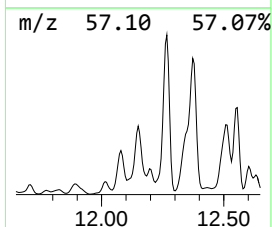
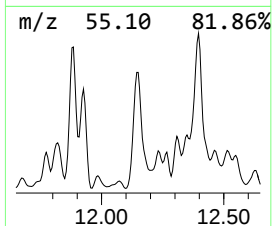
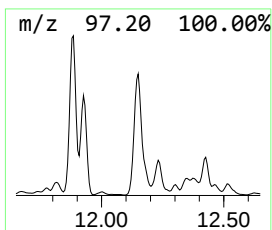
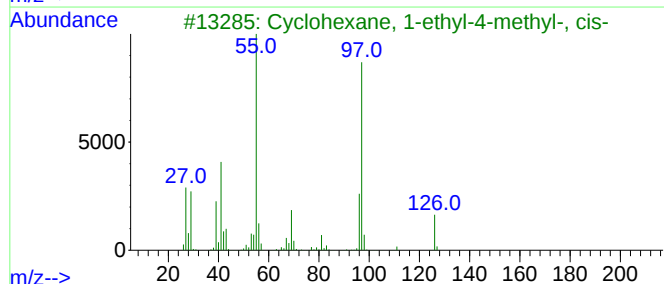
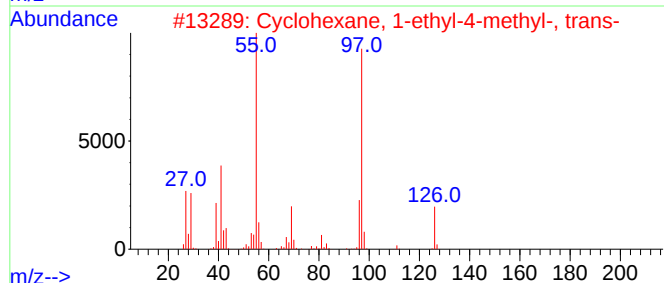
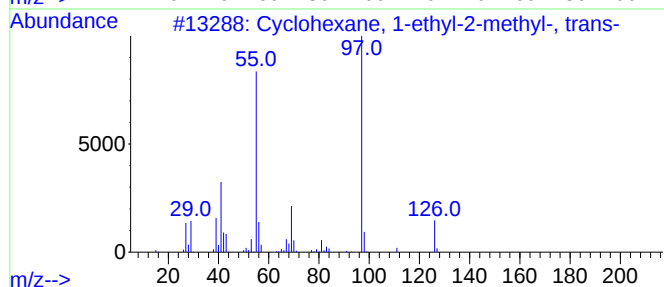
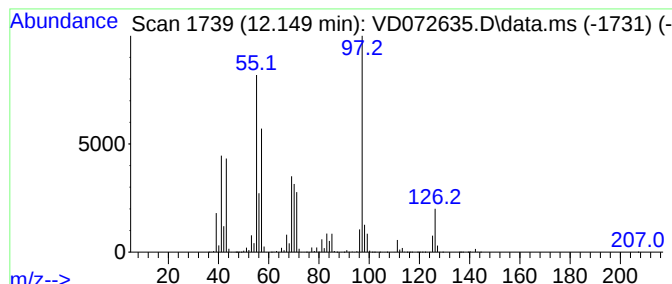
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 2

| R.T.   | EstConc      | Area     | Relative to ISTD | R.T.   |
|--------|--------------|----------|------------------|--------|
| 12.149 | 1231.19 ug/l | 68918300 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 62   |
| 2    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 58   |
| 3    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 58   |
| 4    |    |   | 3,5-Dimethyl-3-heptene              | 126 | C9H18   | 059643-68-4 | 52   |
| 5    |    |   | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

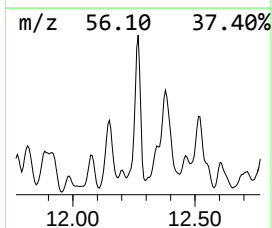
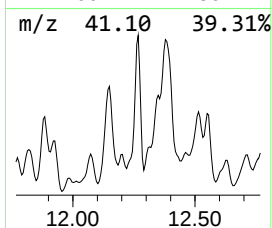
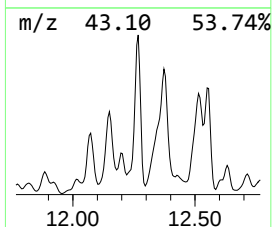
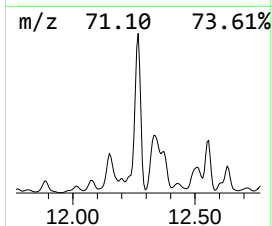
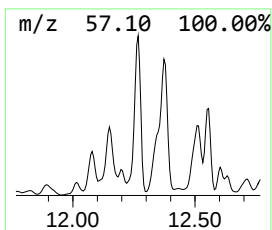
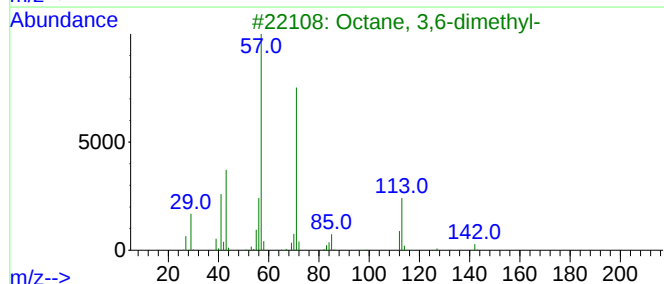
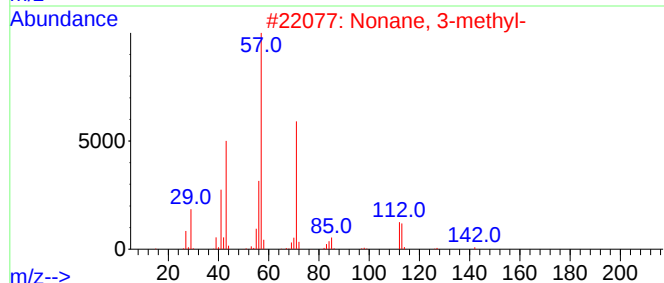
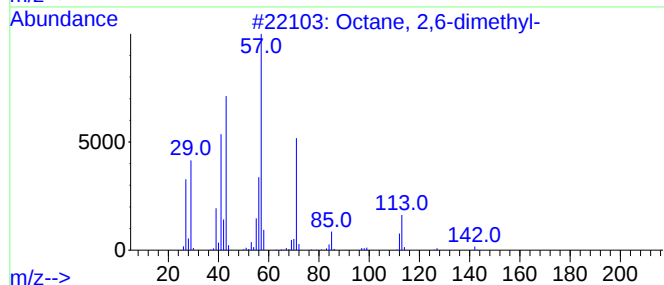
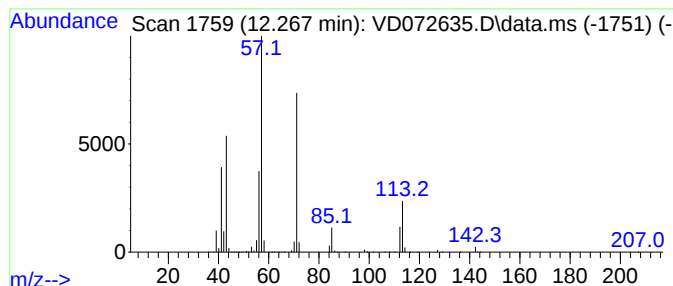
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Quant Title : SW846 8260

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

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Peak Number 7 Octane, 2,6-dimethyl- Concentration Rank 4

| R.T.   | EstConc      | Area     | Relative to ISTD | R.T.   |
|--------|--------------|----------|------------------|--------|
| 12.267 | 1032.33 ug/l | 57786900 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 2,6-dimethyl-   | 142 | C10H22  | 002051-30-1 | 91   |
| 2    |    |   | Nonane, 3-methyl-       | 142 | C10H22  | 005911-04-6 | 90   |
| 3    |    |   | Octane, 3,6-dimethyl-   | 142 | C10H22  | 015869-94-0 | 90   |
| 4    |    |   | Undecane, 6,6-dimethyl- | 184 | C13H28  | 017312-76-4 | 72   |
| 5    |    |   | Butane, 2,2-dimethyl-   | 86  | C6H14   | 000075-83-2 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

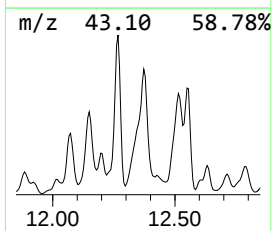
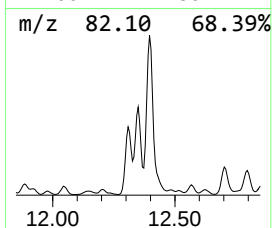
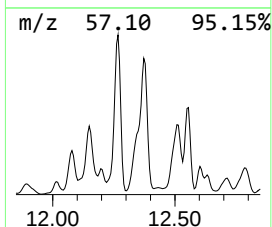
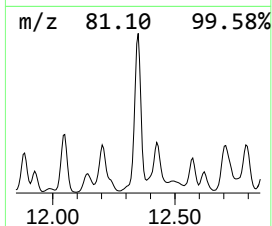
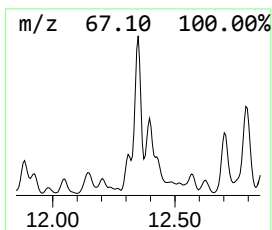
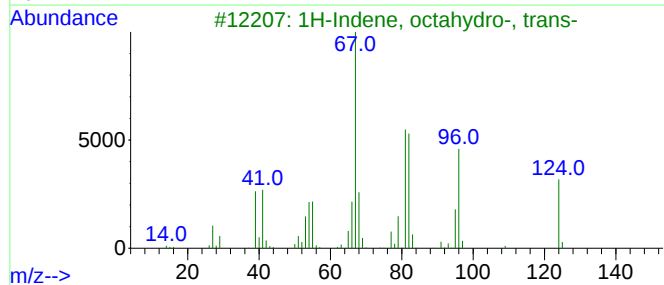
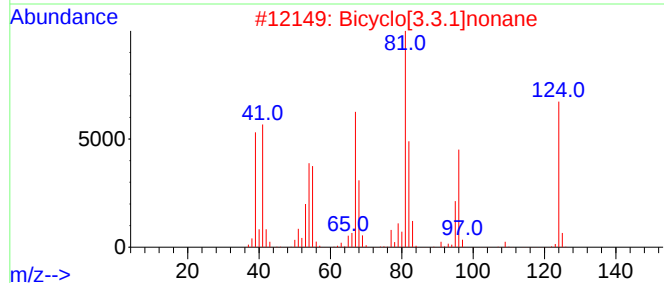
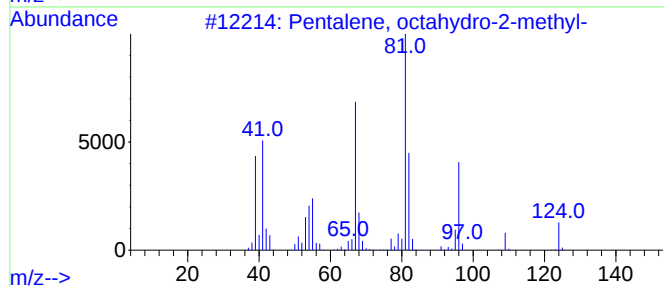
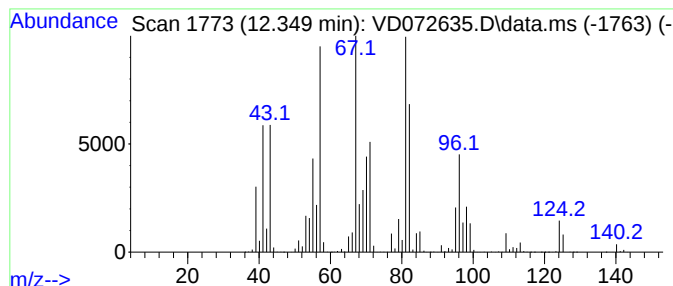
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MSVOA\_D  
ClientSampleId :  
SB-4D

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Pentalene, octahydro-2-methyl- Concentration Rank 3

| R.T.      | EstConc                        | Area     | Relative to ISTD |         | R.T.        |      |
|-----------|--------------------------------|----------|------------------|---------|-------------|------|
| 12.349    | 1218.12 ug/l                   | 68186900 | Chlorobenzene-d5 |         | 11.638      |      |
| Hit# of 5 | Tentative ID                   |          | MW               | MolForm | CAS#        | Qual |
| 1         | Pentalene, octahydro-2-methyl- |          | 124              | C9H16   | 003868-64-2 | 64   |
| 2         | Bicyclo[3.3.1]nonane           |          | 124              | C9H16   | 000280-65-9 | 49   |
| 3         | 1H-Indene, octahydro-, trans-  |          | 124              | C9H16   | 003296-50-2 | 43   |
| 4         | Cyclohexene, 1-methyl-         |          | 96               | C7H12   | 000591-49-1 | 38   |
| 5         | 1-Methylcyclooctene            |          | 124              | C9H16   | 000933-11-9 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

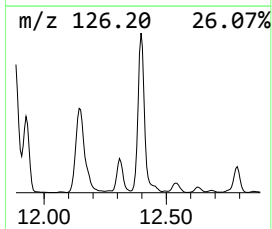
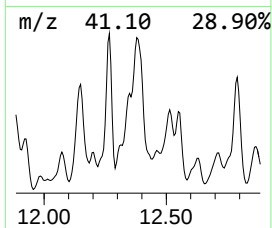
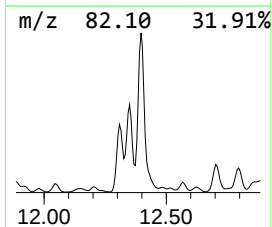
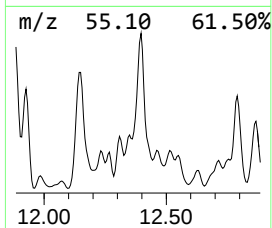
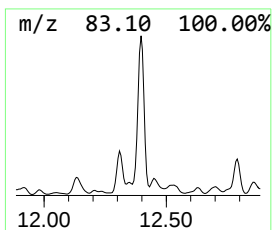
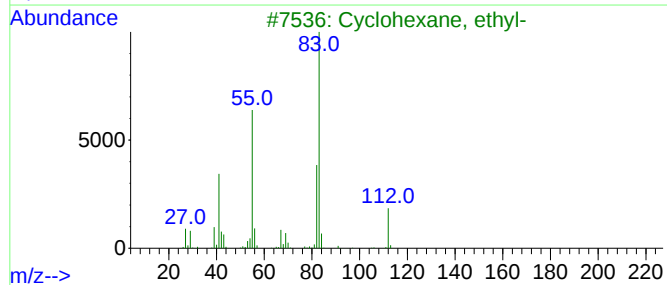
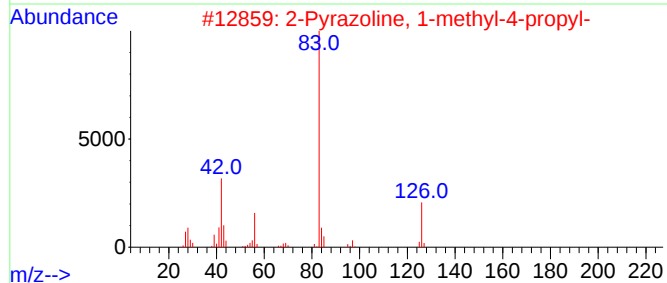
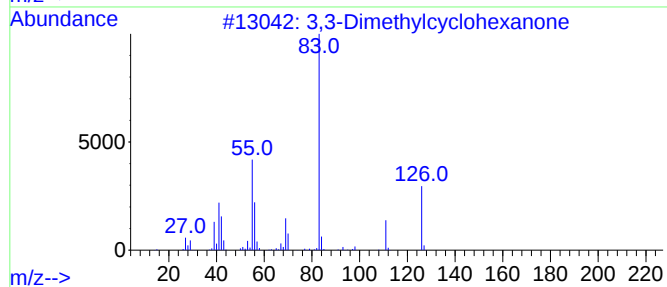
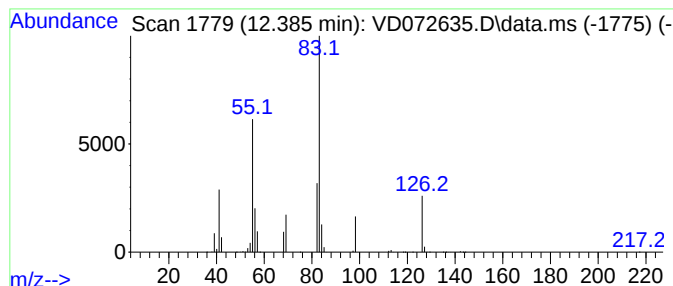
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Quant Title : SW846 8260

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

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Peak Number 9 3,3-Dimethylcyclohexanone Concentration Rank 1

| R.T.   | EstConc      | Area      | Relative to ISTD | R.T.   |
|--------|--------------|-----------|------------------|--------|
| 12.385 | 1809.26 ug/l | 101277000 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 3,3-Dimethylcyclohexanone           | 126 | C8H14O   | 002979-19-3  | 53   |
| 2    |    |   | 2-Pyrazoline, 1-methyl-4-propyl-    | 126 | C7H14N2  | 033063-77-3  | 50   |
| 3    |    |   | Cyclohexane, ethyl-                 | 112 | C8H16    | 001678-91-7  | 49   |
| 4    |    |   | 1-Butene, 2,3,3-trimethyl-          | 98  | C7H14    | 000594-56-9  | 49   |
| 5    |    |   | Oxalic acid, cyclohexyl octyl ester | 284 | C16H28O4 | 1000309-31-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

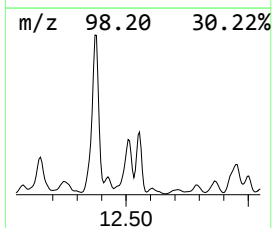
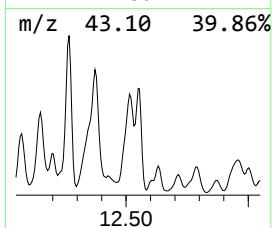
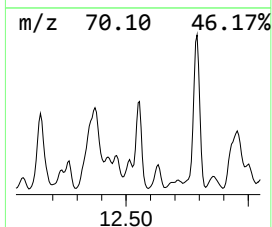
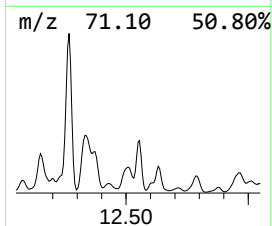
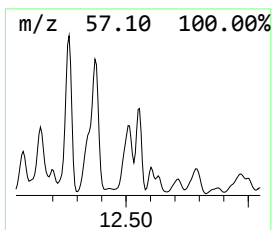
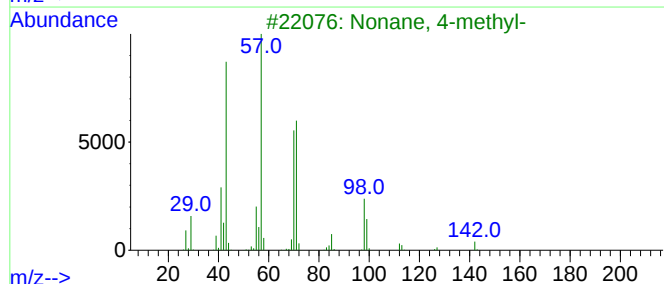
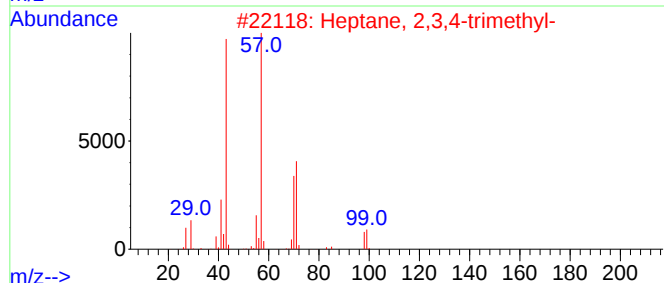
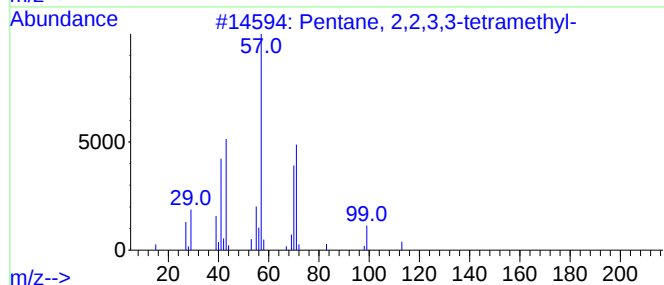
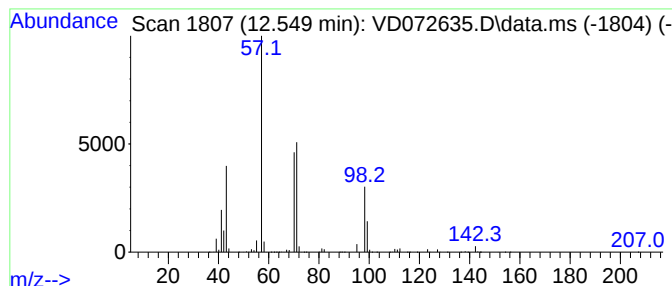
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

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Peak Number 10 Pentane, 2,2,3,3-tetramethyl- Concentration Rank 9

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 12.549 | 543.62 ug/l | 30430100 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 64   |
| 2    |    |   | Heptane, 2,3,4-trimethyl-     | 142 | C10H22  | 052896-95-4 | 64   |
| 3    |    |   | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 56   |
| 4    |    |   | Octane, 3,5-dimethyl-         | 142 | C10H22  | 015869-93-9 | 43   |
| 5    |    |   | Decane, 2,5,9-trimethyl-      | 184 | C13H28  | 062108-22-9 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041922\  
Data File : VD072635.D  
Acq On : 19 Apr 2022 20:07  
Operator : VA/SY  
Sample : N2444-05  
Misc : 4.44G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4D

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name   | RT     | EstConc | Units | Response  | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|-----------|-----------------------|--------|---------|------|
|                    |        |         |       |           | #                     | RT     | Resp    | Conc |
| Cyclohexane, et... | 11.185 | 831.2   | ug/l  | 46527800  | 3                     | 11.638 | 2798860 | 50.0 |
| Cyclohexane, 1,... | 11.243 | 1027.1  | ug/l  | 57495100  | 3                     | 11.638 | 2798860 | 50.0 |
| Heptane, 2,3-di... | 11.349 | 547.8   | ug/l  | 30666600  | 3                     | 11.638 | 2798860 | 50.0 |
| Cyclohexane, 1,... | 11.444 | 536.3   | ug/l  | 30023000  | 3                     | 11.638 | 2798860 | 50.0 |
| cis-1-Ethyl-3-m... | 11.885 | 824.3   | ug/l  | 46142200  | 3                     | 11.638 | 2798860 | 50.0 |
| Cyclohexane, 1-... | 12.149 | 1231.2  | ug/l  | 68918300  | 3                     | 11.638 | 2798860 | 50.0 |
| Octane, 2,6-dim... | 12.267 | 1032.3  | ug/l  | 57786900  | 3                     | 11.638 | 2798860 | 50.0 |
| Pentalene, octa... | 12.349 | 1218.1  | ug/l  | 68186900  | 3                     | 11.638 | 2798860 | 50.0 |
| 3,3-Dimethylcyc... | 12.385 | 1809.3  | ug/l  | 101277000 | 3                     | 11.638 | 2798860 | 50.0 |
| Pentane, 2,2,3,... | 12.549 | 543.6   | ug/l  | 30430100  | 3                     | 11.638 | 2798860 | 50.0 |