

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102225\  
 Data File : VY023552.D  
 Acq On : 22 Oct 2025 15:34  
 Operator : SY/MD  
 Sample : Q3419-04  
 Misc : 5.25g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PR132-S16-119133-20251021

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\_Y\methods\82Y100725S.M  
 Title : SW846 8260

Signal : TIC: VY023552.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         | 1.830       | 13            | 18          | 30           | rVB2     | 92206          | 182484        | 2.19%           | 0.100%        |
| 2         | 2.202       | 71            | 79          | 91           | rBV      | 79183          | 155002        | 1.86%           | 0.085%        |
| 3         | 2.848       | 178           | 185         | 197          | rVB      | 148807         | 329065        | 3.95%           | 0.181%        |
| 4         | 5.141       | 549           | 561         | 578          | rVB4     | 60675          | 225661        | 2.71%           | 0.124%        |
| 5         | 7.640       | 956           | 971         | 976          | rBV      | 633059         | 1570964       | 18.88%          | 0.864%        |
| 6         | 7.713       | 976           | 983         | 991          | rVV      | 1048123        | 2463023       | 29.59%          | 1.354%        |
| 7         | 7.799       | 991           | 997         | 1008         | rVB      | 95450          | 249543        | 3.00%           | 0.137%        |
| 8         | 7.921       | 1008          | 1017        | 1024         | rBV      | 80000          | 199135        | 2.39%           | 0.109%        |
| 9         | 8.067       | 1032          | 1041        | 1053         | rVV      | 522024         | 1141939       | 13.72%          | 0.628%        |
| 10        | 8.195       | 1054          | 1062        | 1070         | rVV3     | 70358          | 180246        | 2.17%           | 0.099%        |
| 11        | 8.341       | 1080          | 1086        | 1098         | rVB      | 109461         | 253253        | 3.04%           | 0.139%        |
| 12        | 8.616       | 1122          | 1131        | 1143         | rBV      | 1580672        | 3133713       | 37.65%          | 1.723%        |
| 13        | 8.933       | 1174          | 1183        | 1192         | rVB2     | 44045          | 109821        | 1.32%           | 0.060%        |
| 14        | 9.085       | 1198          | 1208        | 1209         | rBV3     | 254598         | 489200        | 5.88%           | 0.269%        |
| 15        | 9.115       | 1209          | 1213        | 1218         | rVV2     | 410563         | 847533        | 10.18%          | 0.466%        |
| 16        | 9.170       | 1218          | 1222        | 1231         | rVB      | 285545         | 537727        | 6.46%           | 0.296%        |
| 17        | 9.390       | 1248          | 1258        | 1266         | rVB      | 441732         | 953433        | 11.46%          | 0.524%        |
| 18        | 9.536       | 1275          | 1282        | 1290         | rVB2     | 506375         | 959835        | 11.53%          | 0.528%        |
| 19        | 9.688       | 1301          | 1307        | 1311         | rBV      | 199211         | 359093        | 4.31%           | 0.197%        |
| 20        | 9.731       | 1311          | 1314        | 1321         | rVB2     | 157772         | 277430        | 3.33%           | 0.153%        |
| 21        | 9.865       | 1329          | 1336        | 1341         | rBV      | 273437         | 548579        | 6.59%           | 0.302%        |
| 22        | 9.920       | 1341          | 1345        | 1351         | rVB      | 210084         | 363944        | 4.37%           | 0.200%        |
| 23        | 9.999       | 1351          | 1358        | 1369         | rBV5     | 210552         | 630265        | 7.57%           | 0.346%        |
| 24        | 10.109      | 1369          | 1376        | 1389         | rVB      | 3117260        | 5877328       | 70.62%          | 3.231%        |
| 25        | 10.237      | 1389          | 1397        | 1399         | rBV2     | 116982         | 219244        | 2.63%           | 0.121%        |
| 26        | 10.298      | 1399          | 1407        | 1414         | rVB2     | 459961         | 1174305       | 14.11%          | 0.646%        |
| 27        | 10.414      | 1414          | 1426        | 1429         | rBV      | 659048         | 1266406       | 15.22%          | 0.696%        |
| 28        | 10.451      | 1429          | 1432        | 1439         | rVB      | 499247         | 778433        | 9.35%           | 0.428%        |
| 29        | 10.548      | 1440          | 1448        | 1452         | rBV4     | 312857         | 758297        | 9.11%           | 0.417%        |
| 30        | 10.597      | 1452          | 1456        | 1459         | rVB      | 257727         | 370580        | 4.45%           | 0.204%        |
| 31        | 10.640      | 1459          | 1463        | 1468         | rVB      | 611374         | 957869        | 11.51%          | 0.527%        |
| 32        | 10.731      | 1473          | 1478        | 1484         | rVB      | 2646311        | 4108834       | 49.37%          | 2.259%        |
| 33        | 10.835      | 1484          | 1495        | 1502         | rBV      | 1317701        | 3002661       | 36.08%          | 1.651%        |
| 34        | 10.902      | 1502          | 1506        | 1509         | rBV2     | 401283         | 586837        | 7.05%           | 0.323%        |
| 35        | 10.932      | 1509          | 1511        | 1513         | rVV      | 141151         | 161041        | 1.93%           | 0.089%        |
| 36        | 10.963      | 1513          | 1516        | 1520         | rVV      | 386503         | 528580        | 6.35%           | 0.291%        |

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Sample : Q3419-04  
Misc : 5.25g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PR132-S16-119133-20251021

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 37 | 11.018 | 1520 | 1525 | 1531 | rVV  | 2923322 | 5137181 | 61.73%  | 2.824% |
| 38 | 11.072 | 1531 | 1534 | 1537 | rVB  | 339176  | 406773  | 4.89%   | 0.224% |
| 39 | 11.133 | 1537 | 1544 | 1548 | rBV2 | 1653595 | 3228583 | 38.79%  | 1.775% |
| 40 | 11.176 | 1548 | 1551 | 1555 | rVV2 | 548184  | 924001  | 11.10%  | 0.508% |
| 41 | 11.225 | 1555 | 1559 | 1567 | rVB  | 1314609 | 2396093 | 28.79%  | 1.317% |
| 42 | 11.304 | 1567 | 1572 | 1576 | rBV2 | 607959  | 1040103 | 12.50%  | 0.572% |
| 43 | 11.347 | 1576 | 1579 | 1585 | rBV5 | 162535  | 241060  | 2.90%   | 0.133% |
| 44 | 11.420 | 1585 | 1591 | 1595 | rBV  | 2036081 | 3377732 | 40.59%  | 1.857% |
| 45 | 11.456 | 1595 | 1597 | 1601 | rVB  | 317105  | 366305  | 4.40%   | 0.201% |
| 46 | 11.554 | 1608 | 1613 | 1616 | rBV  | 740807  | 1068264 | 12.84%  | 0.587% |
| 47 | 11.603 | 1616 | 1621 | 1626 | rBV4 | 908343  | 1737523 | 20.88%  | 0.955% |
| 48 | 11.664 | 1626 | 1631 | 1635 | rBV  | 1455590 | 2490183 | 29.92%  | 1.369% |
| 49 | 11.706 | 1635 | 1638 | 1643 | rVB2 | 1281279 | 2016848 | 24.23%  | 1.109% |
| 50 | 11.767 | 1643 | 1648 | 1652 | rBV  | 841922  | 1549442 | 18.62%  | 0.852% |
| 51 | 11.859 | 1659 | 1663 | 1668 | rVB2 | 731117  | 1105829 | 13.29%  | 0.608% |
| 52 | 11.932 | 1668 | 1675 | 1681 | rBV4 | 2415026 | 5454095 | 65.53%  | 2.998% |
| 53 | 11.987 | 1681 | 1684 | 1686 | rVV3 | 641991  | 903917  | 10.86%  | 0.497% |
| 54 | 12.017 | 1686 | 1689 | 1690 | rVV  | 736012  | 906834  | 10.90%  | 0.498% |
| 55 | 12.054 | 1690 | 1695 | 1699 | rVV  | 4699514 | 7275143 | 87.41%  | 3.999% |
| 56 | 12.127 | 1699 | 1707 | 1709 | rVV3 | 2330471 | 4409456 | 52.98%  | 2.424% |
| 57 | 12.164 | 1709 | 1713 | 1719 | rVV3 | 4075813 | 8322563 | 100.00% | 4.575% |
| 58 | 12.249 | 1723 | 1727 | 1730 | rVV3 | 955475  | 1916424 | 23.03%  | 1.053% |
| 59 | 12.298 | 1730 | 1735 | 1742 | rVB6 | 1803983 | 4076078 | 48.98%  | 2.241% |
| 60 | 12.408 | 1748 | 1753 | 1759 | rBV3 | 2164101 | 3822644 | 45.93%  | 2.101% |
| 61 | 12.499 | 1759 | 1768 | 1771 | rBV5 | 800933  | 2049195 | 24.62%  | 1.126% |
| 62 | 12.566 | 1775 | 1779 | 1786 | rVB2 | 2704128 | 4858591 | 58.38%  | 2.671% |
| 63 | 12.651 | 1786 | 1793 | 1798 | rBV5 | 1331338 | 3206272 | 38.53%  | 1.763% |
| 64 | 12.731 | 1798 | 1806 | 1811 | rVV3 | 2593470 | 7030116 | 84.47%  | 3.865% |
| 65 | 12.785 | 1812 | 1815 | 1820 | rVB3 | 1556823 | 2418197 | 29.06%  | 1.329% |
| 66 | 12.877 | 1820 | 1830 | 1833 | rBV4 | 1390315 | 2952566 | 35.48%  | 1.623% |
| 67 | 12.932 | 1833 | 1839 | 1841 | rBV3 | 844778  | 1611722 | 19.37%  | 0.886% |
| 68 | 12.968 | 1841 | 1845 | 1851 | rVB  | 3434058 | 5347034 | 64.25%  | 2.939% |
| 69 | 13.029 | 1851 | 1855 | 1857 | rBV3 | 456441  | 665868  | 8.00%   | 0.366% |
| 70 | 13.090 | 1862 | 1865 | 1870 | rVB2 | 798266  | 1161825 | 13.96%  | 0.639% |
| 71 | 13.145 | 1870 | 1874 | 1877 | rBV  | 1180082 | 1654722 | 19.88%  | 0.910% |
| 72 | 13.243 | 1882 | 1890 | 1894 | rBV3 | 2554978 | 5427781 | 65.22%  | 2.984% |
| 73 | 13.346 | 1902 | 1907 | 1913 | rBV  | 1654788 | 2745425 | 32.99%  | 1.509% |
| 74 | 13.493 | 1926 | 1931 | 1934 | rBV3 | 813786  | 1199974 | 14.42%  | 0.660% |
| 75 | 13.529 | 1934 | 1937 | 1945 | rVB8 | 501831  | 938719  | 11.28%  | 0.516% |
| 76 | 13.621 | 1945 | 1952 | 1953 | rBV4 | 370360  | 832640  | 10.00%  | 0.458% |

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 Sample : Q3419-04  
 Misc : 5.25g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PR132-S16-119133-20251021

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\_Y\methods\82Y100725S.M  
 Title : SW846 8260

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 13.669 | 1954 | 1960 | 1965 | rBV5 | 1965197 | 3913741 | 47.03% | 2.151% |
| 78  | 13.718 | 1965 | 1968 | 1972 | rVB2 | 864375  | 1126433 | 13.53% | 0.619% |
| 79  | 13.779 | 1975 | 1978 | 1984 | rVV7 | 479725  | 908602  | 10.92% | 0.499% |
| 80  | 13.840 | 1984 | 1988 | 1993 | rVV5 | 793267  | 1382577 | 16.61% | 0.760% |
| 81  | 13.938 | 2001 | 2004 | 2009 | rVB  | 1206323 | 1586494 | 19.06% | 0.872% |
| 82  | 13.999 | 2010 | 2014 | 2019 | rVB5 | 530014  | 776154  | 9.33%  | 0.427% |
| 83  | 14.066 | 2020 | 2025 | 2030 | rVB4 | 823042  | 1458657 | 17.53% | 0.802% |
| 84  | 14.121 | 2031 | 2034 | 2037 | rVB5 | 416519  | 514021  | 6.18%  | 0.283% |
| 85  | 14.182 | 2037 | 2044 | 2050 | rBV5 | 2077886 | 4700218 | 56.48% | 2.584% |
| 86  | 14.340 | 2066 | 2070 | 2074 | rBV2 | 1160242 | 1590328 | 19.11% | 0.874% |
| 87  | 14.468 | 2088 | 2091 | 2094 | rBV3 | 265685  | 385600  | 4.63%  | 0.212% |
| 88  | 14.535 | 2099 | 2102 | 2105 | rBV4 | 491924  | 740551  | 8.90%  | 0.407% |
| 89  | 14.602 | 2109 | 2113 | 2117 | rVV2 | 1091823 | 1924988 | 23.13% | 1.058% |
| 90  | 14.651 | 2117 | 2121 | 2128 | rVB  | 2862466 | 4436333 | 53.30% | 2.439% |
| 91  | 14.724 | 2131 | 2133 | 2137 | rVB5 | 443651  | 528508  | 6.35%  | 0.291% |
| 92  | 14.767 | 2137 | 2140 | 2142 | rBV2 | 285614  | 344037  | 4.13%  | 0.189% |
| 93  | 14.858 | 2152 | 2155 | 2159 | rVB3 | 632367  | 890744  | 10.70% | 0.490% |
| 94  | 15.127 | 2194 | 2199 | 2205 | rBV  | 2363686 | 3588405 | 43.12% | 1.973% |
| 95  | 15.352 | 2232 | 2236 | 2242 | rBV7 | 379381  | 882241  | 10.60% | 0.485% |
| 96  | 15.413 | 2243 | 2246 | 2248 | rBV4 | 308947  | 438942  | 5.27%  | 0.241% |
| 97  | 15.511 | 2257 | 2262 | 2268 | rVB2 | 1307890 | 2348412 | 28.22% | 1.291% |
| 98  | 15.974 | 2335 | 2338 | 2345 | rVB2 | 359673  | 777026  | 9.34%  | 0.427% |
| 99  | 16.047 | 2346 | 2350 | 2357 | rVB  | 1076998 | 1828741 | 21.97% | 1.005% |
| 100 | 16.358 | 2397 | 2401 | 2407 | rBV4 | 324671  | 616010  | 7.40%  | 0.339% |

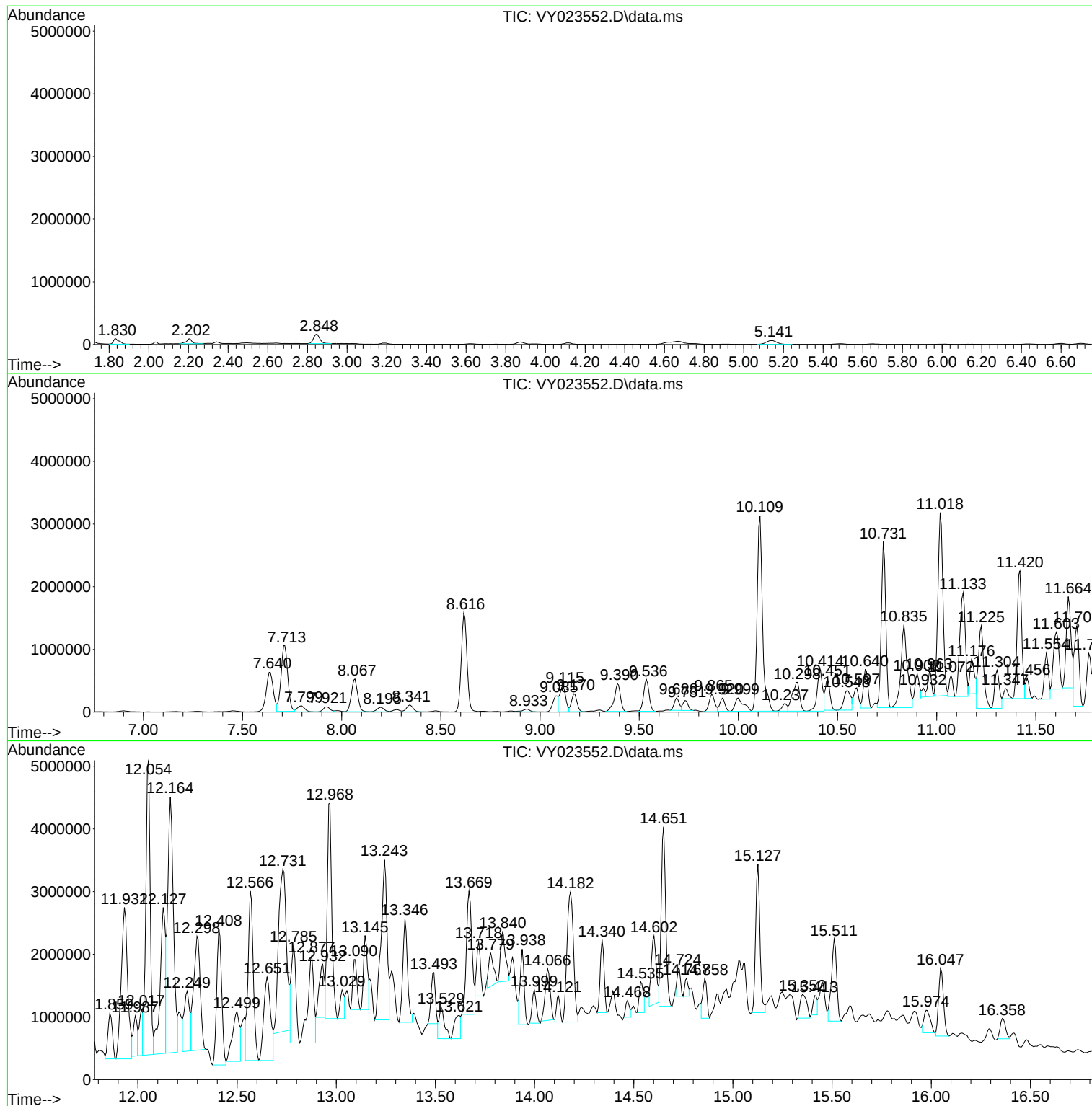
Sum of corrected areas: 181912787

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102225\  
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Instrument :  
MSVOA\_Y  
ClientSampleId :  
PR132-S16-119133-20251021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102225\  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
PR132-S16-119133-20251021

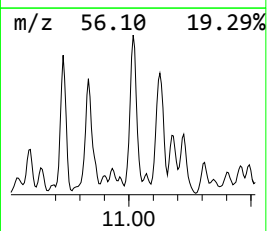
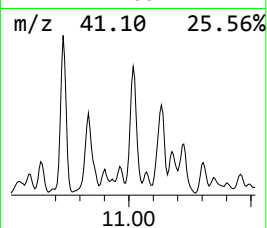
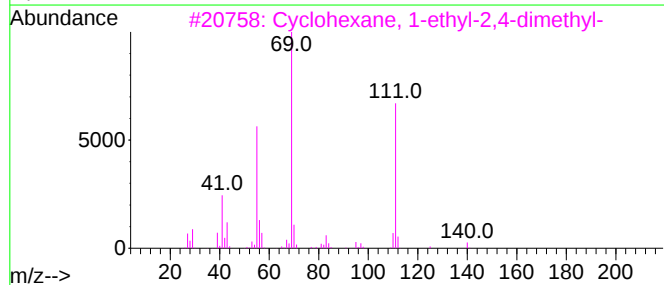
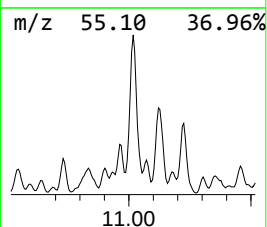
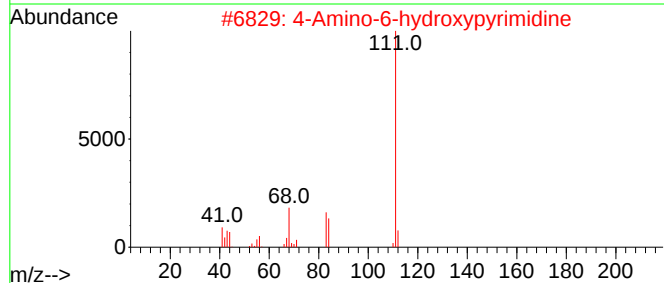
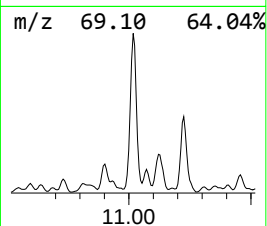
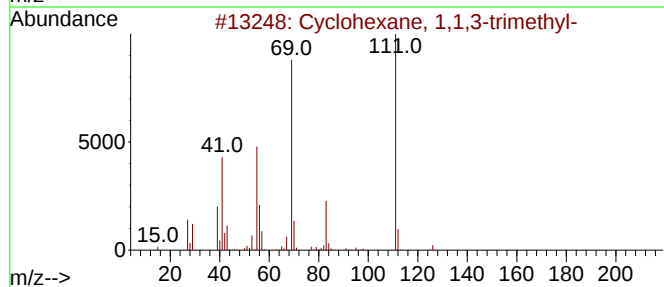
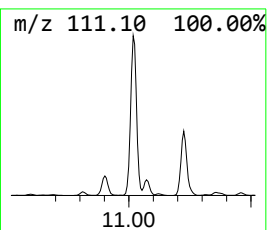
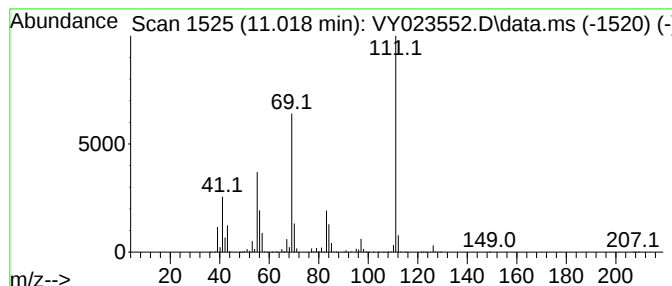
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 10

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 11.018 | 76.04 ug/l | 5137180 | Chlorobenzene-d5 | 11.420 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-      | 126 | C9H18   | 003073-66-3 | 94   |
| 2    |    |   | 4-Amino-6-hydroxypyrimidine        | 111 | C4H5N3O | 001193-22-2 | 64   |
| 3    |    |   | Cyclohexane, 1-ethyl-2,4-dimethyl- | 140 | C10H20  | 061142-69-6 | 53   |
| 4    |    |   | Benzenamine, 2-fluoro-             | 111 | C6H6FN  | 000348-54-9 | 52   |
| 5    |    |   | Cyclohexane, 1,3,5-trimethyl-      | 126 | C9H18   | 001839-63-0 | 50   |



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ALS Vial : 12 Sample Multiplier: 1

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MSVOA\_Y  
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PR132-S16-119133-20251021

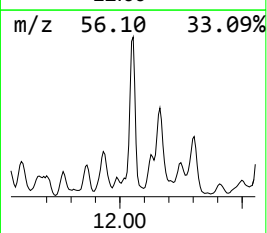
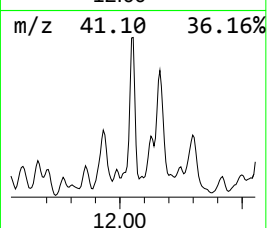
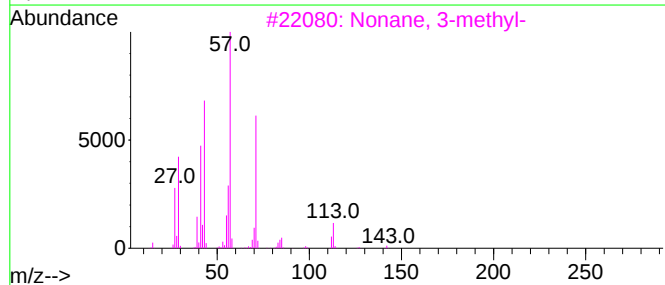
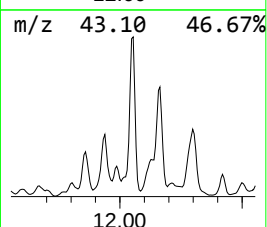
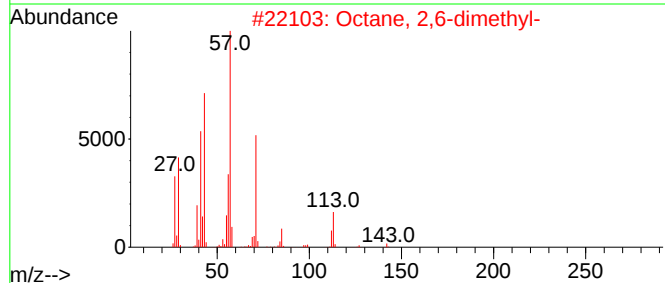
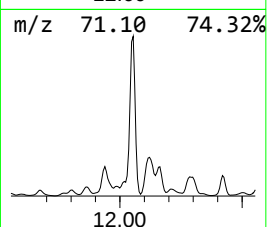
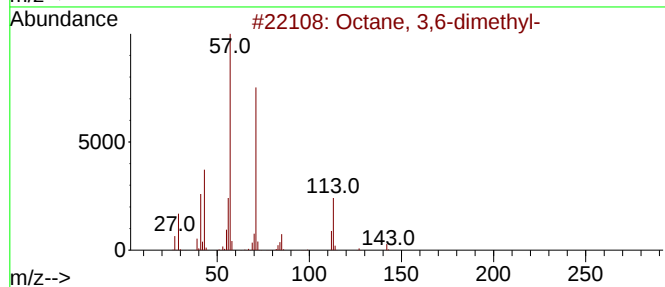
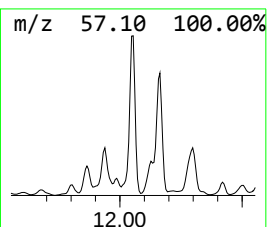
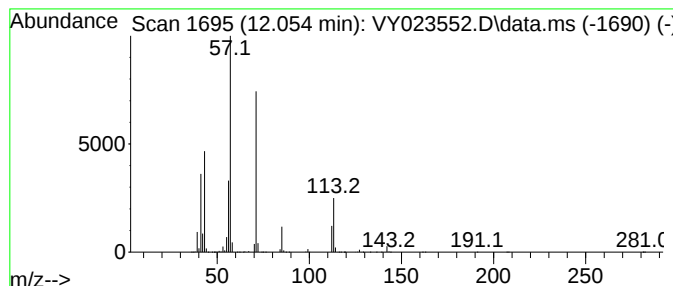
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Octane, 3,6-dimethyl- Concentration Rank 3

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 12.054 | 107.69 ug/l | 7275140 | Chlorobenzene-d5 | 11.420 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 91   |
| 2    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 91   |
| 3    |    |   | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 91   |
| 4    |    |   | Undecane, 6,6-dimethyl-             | 184 | C13H28    | 017312-76-4  | 80   |
| 5    |    |   | Sulfurous acid, di(2-ethylhexyl)... | 306 | C16H34O3S | 1000309-19-1 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102225\  
Data File : VY023552.D  
Acq On : 22 Oct 2025 15:34  
Operator : SY/MD  
Sample : Q3419-04  
Misc : 5.25g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PR132-S16-119133-20251021

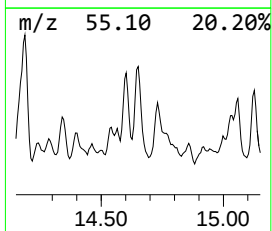
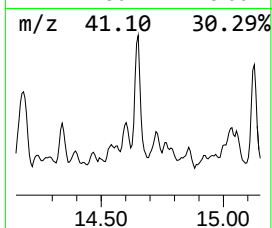
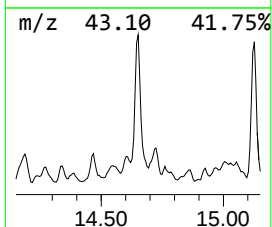
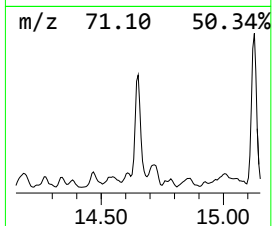
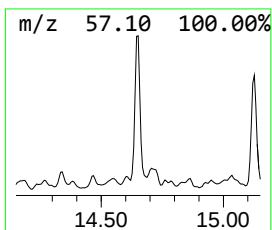
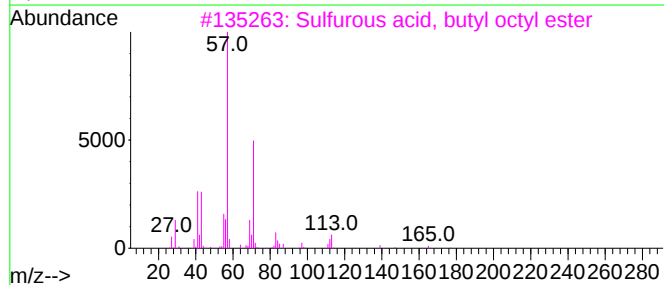
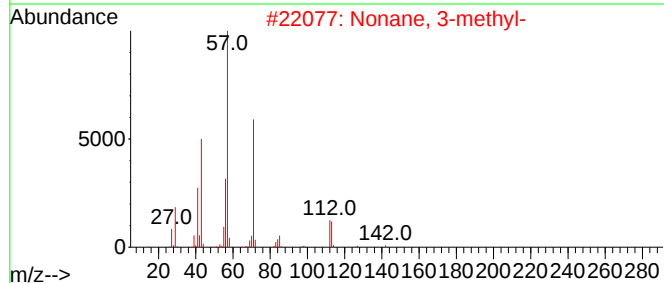
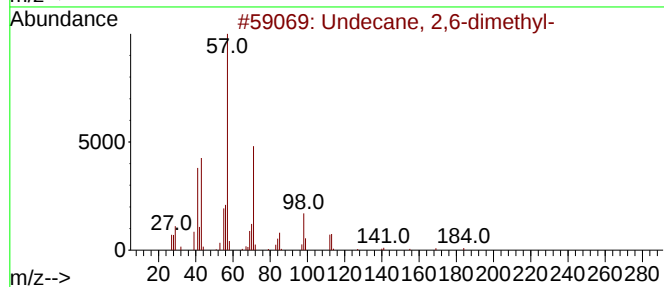
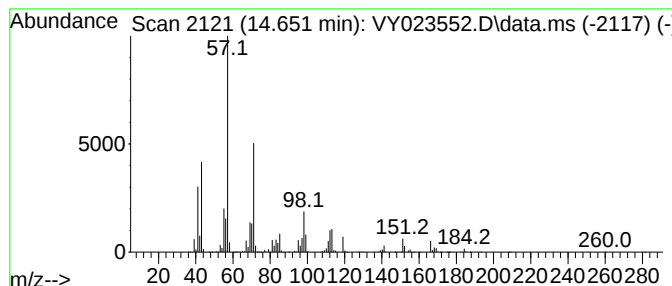
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Quant Title : SW846 8260

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

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Peak Number 10 Undecane, 2,6-dimethyl- Concentration Rank 8

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.651 | 80.80 ug/l | 4436330 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Undecane, 2,6-dimethyl-             | 184 | C13H28    | 017301-23-4  | 94   |
| 2    |    |   | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 70   |
| 3    |    |   | Sulfurous acid, butyl octyl ester   | 250 | C12H26O3S | 1000309-17-5 | 59   |
| 4    |    |   | Undecane, 2,5-dimethyl-             | 184 | C13H28    | 017301-22-3  | 55   |
| 5    |    |   | Sulfurous acid, di(2-ethylhexyl)... | 306 | C16H34O3S | 1000309-19-1 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102225\  
Data File : VY023552.D  
Acq On : 22 Oct 2025 15:34  
Operator : SY/MD  
Sample : Q3419-04  
Misc : 5.25g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PR132-S16-119133-20251021

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Cyclohexane, 1,... | 11.018 | 76.0    | ug/l  | 5137180  | 3                     | 11.420 | 3377730 | 50.0 |
| Octane, 3,6-dim... | 12.054 | 107.7   | ug/l  | 7275140  | 3                     | 11.420 | 3377730 | 50.0 |
| Undecane, 2,6-d... | 14.651 | 80.8    | ug/l  | 4436330  | 4                     | 13.346 | 2745430 | 50.0 |