

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
 Data File : VY005538.D  
 Acq On : 04 Aug 2021 15:24  
 Operator : SY/MD  
 Sample : M3281-01  
 Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TWP03

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\82Y080221S.M  
 Title : SW846 8260

Signal : TIC: VY005538.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         | 7.795       | 973           | 980         | 987          | rVV2     | 338746         | 827475        | 1.88%           | 0.154%        |
| 2         | 8.332       | 1062          | 1068        | 1077         | rVB      | 329286         | 839338        | 1.91%           | 0.156%        |
| 3         | 8.697       | 1118          | 1128        | 1139         | rBV      | 371272         | 757598        | 1.72%           | 0.141%        |
| 4         | 9.185       | 1192          | 1208        | 1214         | rBV3     | 1149288        | 2994891       | 6.82%           | 0.556%        |
| 5         | 9.246       | 1214          | 1218        | 1226         | rVB      | 276698         | 518878        | 1.18%           | 0.096%        |
| 6         | 9.466       | 1244          | 1254        | 1262         | rVB2     | 451860         | 1127312       | 2.57%           | 0.209%        |
| 7         | 9.612       | 1271          | 1278        | 1288         | rVB2     | 561153         | 1138712       | 2.59%           | 0.211%        |
| 8         | 9.758       | 1289          | 1302        | 1307         | rBV3     | 461539         | 1114230       | 2.54%           | 0.207%        |
| 9         | 9.941       | 1325          | 1332        | 1337         | rBV      | 607848         | 1273447       | 2.90%           | 0.236%        |
| 10        | 9.996       | 1337          | 1341        | 1348         | rVB      | 367464         | 685196        | 1.56%           | 0.127%        |
| 11        | 10.112      | 1356          | 1360        | 1365         | rVV2     | 272939         | 527402        | 1.20%           | 0.098%        |
| 12        | 10.179      | 1365          | 1371        | 1375         | rVV2     | 2444276        | 4486246       | 10.21%          | 0.833%        |
| 13        | 10.215      | 1375          | 1377        | 1386         | rVB2     | 970653         | 1588683       | 3.62%           | 0.295%        |
| 14        | 10.350      | 1394          | 1399        | 1410         | rVB2     | 978730         | 2654980       | 6.04%           | 0.493%        |
| 15        | 10.484      | 1410          | 1421        | 1423         | rBV3     | 446753         | 952364        | 2.17%           | 0.177%        |
| 16        | 10.526      | 1423          | 1428        | 1436         | rVB      | 2142376        | 3752071       | 8.54%           | 0.697%        |
| 17        | 10.624      | 1436          | 1444        | 1449         | rBV3     | 1218462        | 2934241       | 6.68%           | 0.545%        |
| 18        | 10.667      | 1449          | 1451        | 1455         | rVV2     | 628024         | 896502        | 2.04%           | 0.166%        |
| 19        | 10.715      | 1455          | 1459        | 1464         | rVB      | 1010835        | 1530002       | 3.48%           | 0.284%        |
| 20        | 10.807      | 1469          | 1474        | 1480         | rVB      | 1468467        | 2514386       | 5.72%           | 0.467%        |
| 21        | 10.910      | 1480          | 1491        | 1498         | rBV      | 2194710        | 4995574       | 11.37%          | 0.927%        |
| 22        | 10.977      | 1498          | 1502        | 1505         | rBV2     | 868328         | 1448485       | 3.30%           | 0.269%        |
| 23        | 11.038      | 1508          | 1512        | 1516         | rVB      | 2222140        | 3226783       | 7.35%           | 0.599%        |
| 24        | 11.093      | 1516          | 1521        | 1526         | rVB      | 4097920        | 6697921       | 15.25%          | 1.243%        |
| 25        | 11.148      | 1526          | 1530        | 1534         | rVB      | 1073298        | 1462042       | 3.33%           | 0.271%        |
| 26        | 11.209      | 1534          | 1540        | 1544         | rBV3     | 1907909        | 3401359       | 7.74%           | 0.631%        |
| 27        | 11.252      | 1544          | 1547        | 1551         | rVB      | 1032863        | 1309855       | 2.98%           | 0.243%        |
| 28        | 11.301      | 1551          | 1555        | 1563         | rVB      | 2612967        | 4591930       | 10.45%          | 0.852%        |
| 29        | 11.380      | 1563          | 1568        | 1572         | rBV2     | 1031744        | 1809301       | 4.12%           | 0.336%        |
| 30        | 11.490      | 1581          | 1586        | 1590         | rBV3     | 561100         | 1038994       | 2.37%           | 0.193%        |
| 31        | 11.581      | 1596          | 1601        | 1605         | rBV2     | 681286         | 1214765       | 2.77%           | 0.226%        |
| 32        | 11.630      | 1605          | 1609        | 1613         | rBV      | 1300301        | 1779764       | 4.05%           | 0.330%        |
| 33        | 11.685      | 1613          | 1618        | 1622         | rBV5     | 1303970        | 2636772       | 6.00%           | 0.489%        |
| 34        | 11.740      | 1622          | 1627        | 1631         | rBV      | 3863531        | 6696616       | 15.24%          | 1.243%        |
| 35        | 11.782      | 1631          | 1634        | 1639         | rVB      | 2807098        | 4499335       | 10.24%          | 0.835%        |
| 36        | 11.843      | 1639          | 1644        | 1647         | rBV3     | 693338         | 1254076       | 2.85%           | 0.233%        |

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 Sample : M3281-01  
 Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TWP03

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\82Y080221S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |         |        |
|----|--------|------|------|------|------|----------|----------|---------|--------|
| 37 | 11.904 | 1647 | 1654 | 1656 | rBV2 | 919140   | 1677279  | 3.82%   | 0.311% |
| 38 | 11.935 | 1656 | 1659 | 1664 | rVB2 | 1156338  | 1773345  | 4.04%   | 0.329% |
| 39 | 12.008 | 1664 | 1671 | 1677 | rBV4 | 5256719  | 12896967 | 29.36%  | 2.394% |
| 40 | 12.063 | 1677 | 1680 | 1683 | rVB  | 924665   | 888390   | 2.02%   | 0.165% |
| 41 | 12.130 | 1687 | 1691 | 1694 | rVB  | 3759608  | 4882002  | 11.11%  | 0.906% |
| 42 | 12.172 | 1694 | 1698 | 1699 | rBV2 | 1204076  | 1557909  | 3.55%   | 0.289% |
| 43 | 12.209 | 1699 | 1704 | 1706 | rBV2 | 4706986  | 7290919  | 16.60%  | 1.353% |
| 44 | 12.246 | 1706 | 1710 | 1715 | rVB3 | 5318862  | 9803137  | 22.32%  | 1.820% |
| 45 | 12.380 | 1727 | 1732 | 1737 | rVB3 | 3152112  | 6188321  | 14.09%  | 1.149% |
| 46 | 12.428 | 1737 | 1740 | 1744 | rVB2 | 1256769  | 1909586  | 4.35%   | 0.354% |
| 47 | 12.489 | 1744 | 1750 | 1755 | rVB4 | 2282419  | 4411515  | 10.04%  | 0.819% |
| 48 | 12.575 | 1755 | 1764 | 1768 | rBV6 | 2896446  | 8425294  | 19.18%  | 1.564% |
| 49 | 12.648 | 1772 | 1776 | 1783 | rVB3 | 7440860  | 13919312 | 31.69%  | 2.584% |
| 50 | 12.733 | 1783 | 1790 | 1796 | rBV5 | 3768247  | 10332741 | 23.52%  | 1.918% |
| 51 | 12.813 | 1796 | 1803 | 1808 | rBV3 | 7564591  | 17639389 | 40.16%  | 3.275% |
| 52 | 12.867 | 1808 | 1812 | 1817 | rVB3 | 4746496  | 7961799  | 18.12%  | 1.478% |
| 53 | 12.959 | 1818 | 1827 | 1830 | rBV4 | 4349703  | 8042978  | 18.31%  | 1.493% |
| 54 | 12.995 | 1830 | 1833 | 1834 | rBV  | 1631346  | 1802016  | 4.10%   | 0.335% |
| 55 | 13.044 | 1838 | 1841 | 1848 | rVB8 | 2667614  | 5626005  | 12.81%  | 1.044% |
| 56 | 13.172 | 1858 | 1862 | 1868 | rBV3 | 4015932  | 6881349  | 15.67%  | 1.277% |
| 57 | 13.233 | 1868 | 1872 | 1874 | rBV2 | 2942891  | 4701993  | 10.70%  | 0.873% |
| 58 | 13.325 | 1879 | 1887 | 1891 | rBV2 | 11096459 | 23317289 | 53.08%  | 4.329% |
| 59 | 13.459 | 1906 | 1909 | 1914 | rBV4 | 1286701  | 2336600  | 5.32%   | 0.434% |
| 60 | 13.532 | 1919 | 1921 | 1923 | rBV2 | 885780   | 1118624  | 2.55%   | 0.208% |
| 61 | 13.575 | 1924 | 1928 | 1931 | rBV3 | 2880043  | 4944075  | 11.25%  | 0.918% |
| 62 | 13.697 | 1942 | 1948 | 1951 | rBV6 | 2324834  | 5501171  | 12.52%  | 1.021% |
| 63 | 13.751 | 1952 | 1957 | 1962 | rVV2 | 21522175 | 38016354 | 86.54%  | 7.057% |
| 64 | 13.800 | 1962 | 1965 | 1970 | rVV2 | 6409000  | 9779922  | 22.26%  | 1.816% |
| 65 | 13.861 | 1970 | 1975 | 1983 | rVB6 | 6758367  | 14098620 | 32.09%  | 2.617% |
| 66 | 13.946 | 1983 | 1989 | 1990 | rBV4 | 5314128  | 9632029  | 21.93%  | 1.788% |
| 67 | 13.977 | 1991 | 1994 | 2006 | rVB  | 14274260 | 24568922 | 55.93%  | 4.561% |
| 68 | 14.087 | 2006 | 2012 | 2016 | rBV4 | 8238908  | 13997441 | 31.86%  | 2.598% |
| 69 | 14.148 | 2017 | 2022 | 2028 | rBV5 | 5241366  | 10135378 | 23.07%  | 1.882% |
| 70 | 14.203 | 2028 | 2031 | 2036 | rBV4 | 2984094  | 4577405  | 10.42%  | 0.850% |
| 71 | 14.270 | 2036 | 2042 | 2046 | rBV3 | 21315596 | 43927846 | 100.00% | 8.155% |
| 72 | 14.385 | 2056 | 2061 | 2064 | rBV3 | 3813420  | 7483718  | 17.04%  | 1.389% |
| 73 | 14.428 | 2064 | 2068 | 2073 | rVB3 | 11722783 | 17304532 | 39.39%  | 3.212% |
| 74 | 14.623 | 2097 | 2100 | 2104 | rBV2 | 2540127  | 3462941  | 7.88%   | 0.643% |
| 75 | 14.684 | 2104 | 2110 | 2115 | rVV3 | 12604102 | 25029606 | 56.98%  | 4.647% |
| 76 | 14.739 | 2115 | 2119 | 2125 | rVB3 | 6295145  | 11208202 | 25.52%  | 2.081% |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TWP03

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\82Y080221S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 77 | 14.855 | 2135 | 2138 | 2140 | rBV2 | 1415764 | 2046071 | 4.66%  | 0.380% |
| 78 | 14.885 | 2140 | 2143 | 2146 | rVV3 | 2247343 | 3711400 | 8.45%  | 0.689% |
| 79 | 14.946 | 2150 | 2153 | 2157 | rVB2 | 4727866 | 6749383 | 15.36% | 1.253% |
| 80 | 14.989 | 2157 | 2160 | 2166 | rBV3 | 1602789 | 3386316 | 7.71%  | 0.629% |
| 81 | 15.056 | 2166 | 2171 | 2176 | rVB4 | 3073121 | 6472430 | 14.73% | 1.202% |
| 82 | 15.215 | 2192 | 2197 | 2202 | rVV4 | 1273429 | 2313660 | 5.27%  | 0.430% |
| 83 | 15.294 | 2203 | 2210 | 2215 | rVV5 | 3393018 | 7840578 | 17.85% | 1.456% |
| 84 | 15.373 | 2216 | 2223 | 2232 | rVB6 | 2447440 | 7950364 | 18.10% | 1.476% |
| 85 | 15.532 | 2246 | 2249 | 2256 | rVB3 | 564505  | 995523  | 2.27%  | 0.185% |
| 86 | 15.605 | 2257 | 2261 | 2267 | rVB6 | 737033  | 1492020 | 3.40%  | 0.277% |
| 87 | 15.690 | 2269 | 2275 | 2277 | rBV5 | 433446  | 917603  | 2.09%  | 0.170% |
| 88 | 15.733 | 2278 | 2282 | 2290 | rVB  | 1313465 | 2401412 | 5.47%  | 0.446% |
| 89 | 16.038 | 2327 | 2332 | 2343 | rVB2 | 581316  | 1220505 | 2.78%  | 0.227% |
| 90 | 16.233 | 2359 | 2364 | 2370 | rVB  | 254276  | 507909  | 1.16%  | 0.094% |
| 91 | 16.294 | 2371 | 2374 | 2388 | rVB7 | 139957  | 439295  | 1.00%  | 0.082% |

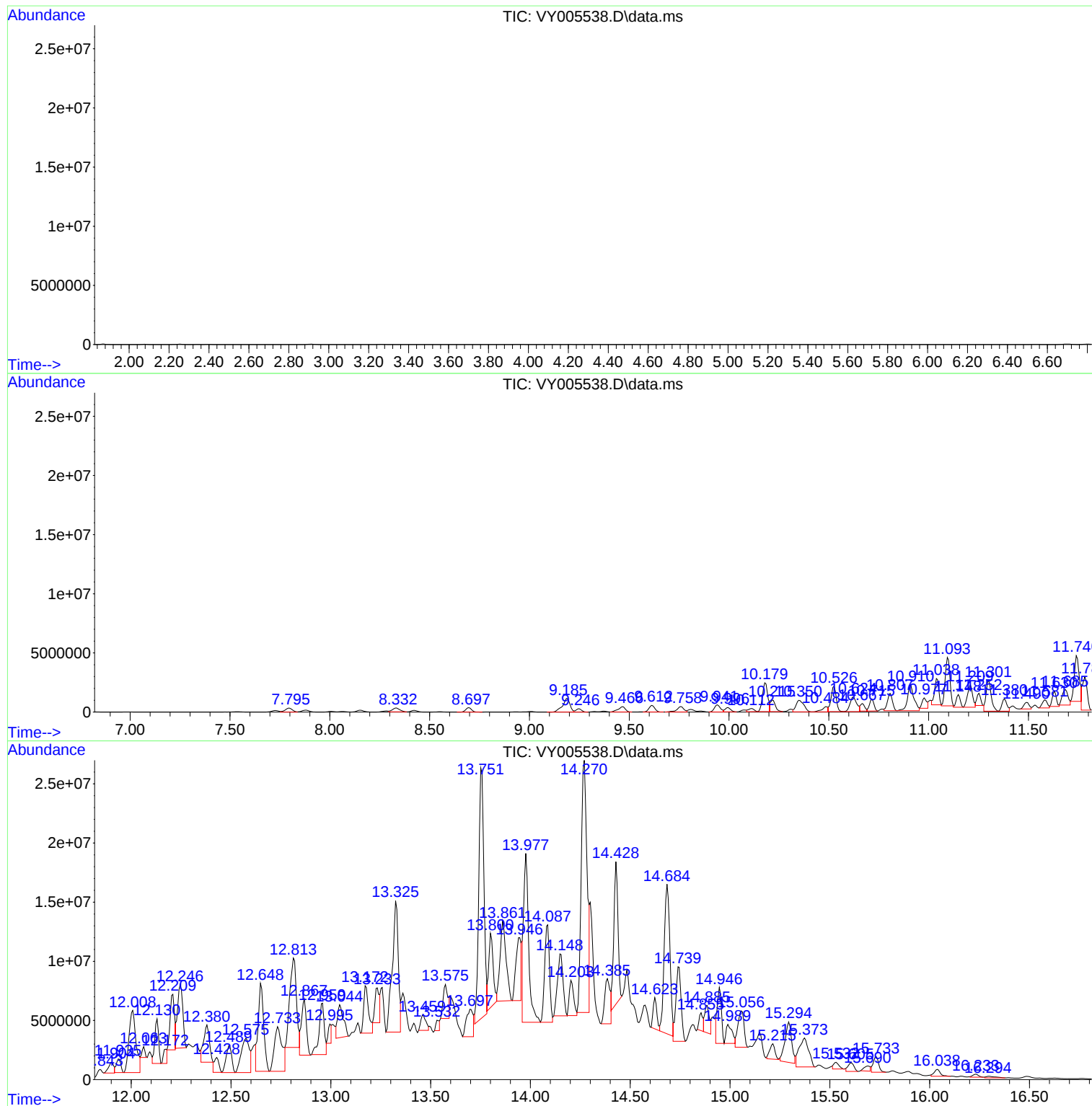
Sum of corrected areas: 538674916

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
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Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
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Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

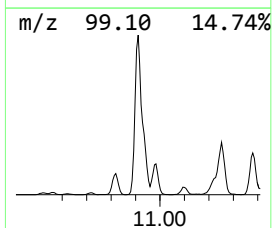
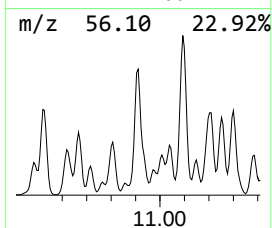
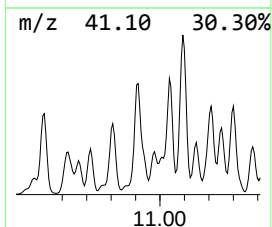
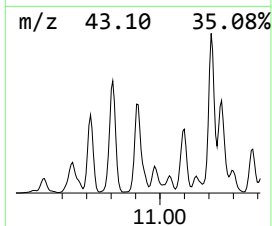
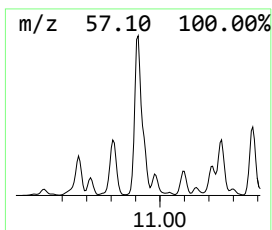
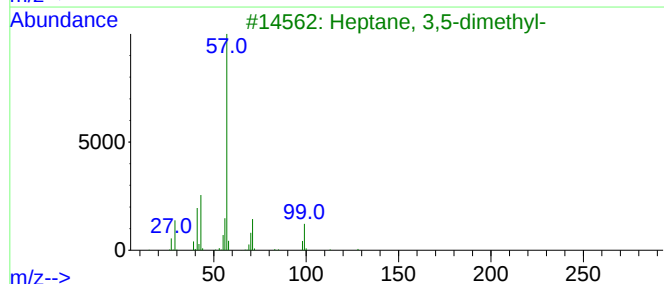
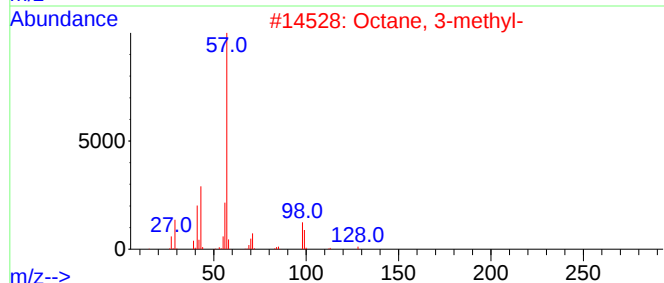
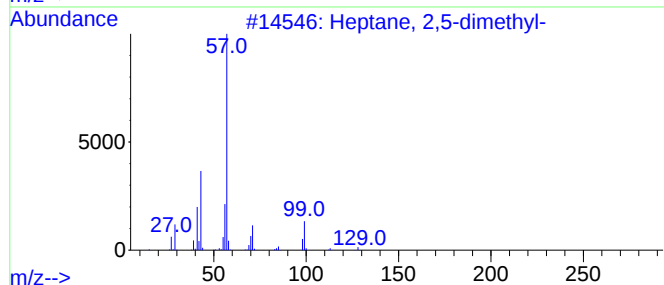
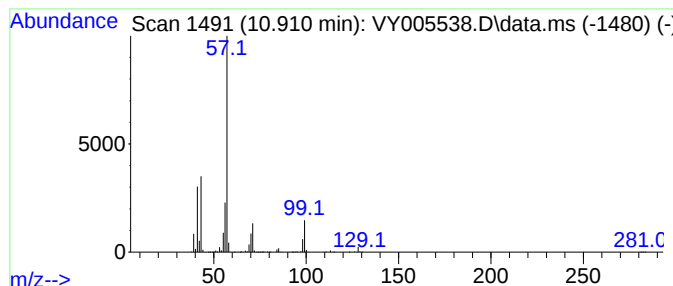
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Heptane, 2,5-dimethyl- Concentration Rank 10

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 10.910 | 240.40 ug/l | 4995570 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 2,5-dimethyl-    | 128 | C9H20   | 002216-30-0 | 90   |
| 2    |    |   | Octane, 3-methyl-         | 128 | C9H20   | 002216-33-3 | 87   |
| 3    |    |   | Heptane, 3,5-dimethyl-    | 128 | C9H20   | 000926-82-9 | 76   |
| 4    |    |   | 2,2,4,4-Tetramethyloctane | 170 | C12H26  | 062183-79-3 | 53   |
| 5    |    |   | Heptane, 2,3,5-trimethyl- | 142 | C10H22  | 020278-85-7 | 50   |



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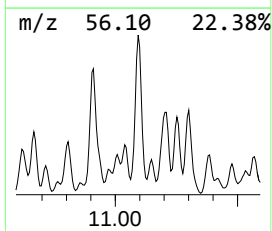
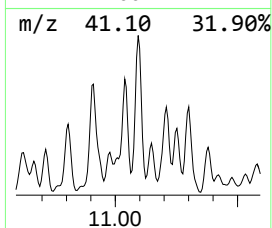
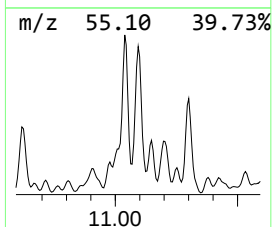
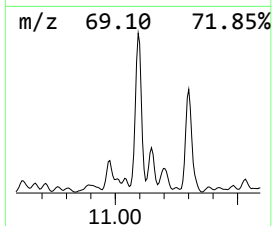
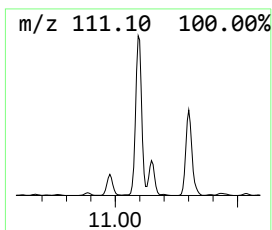
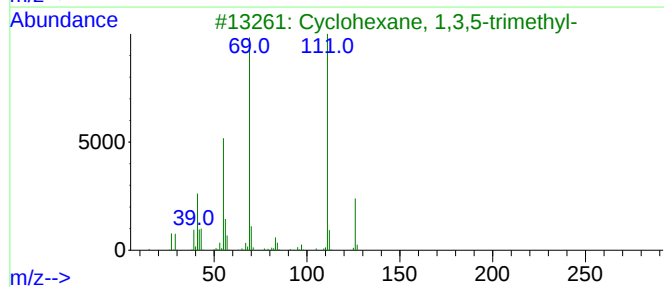
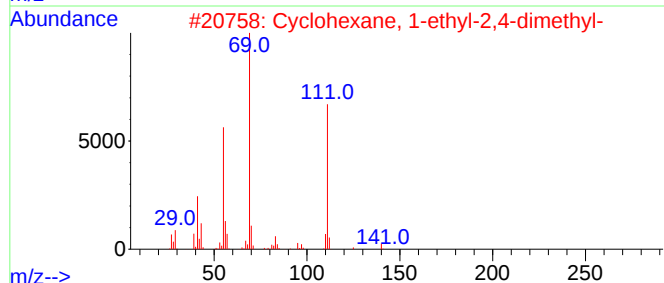
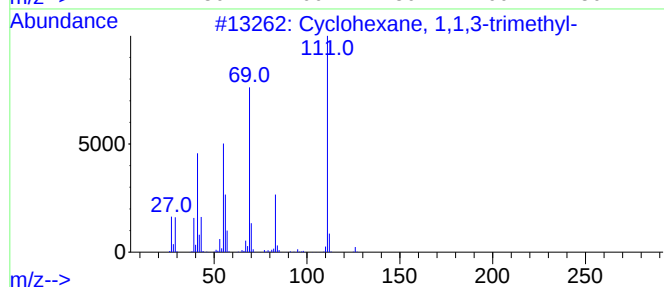
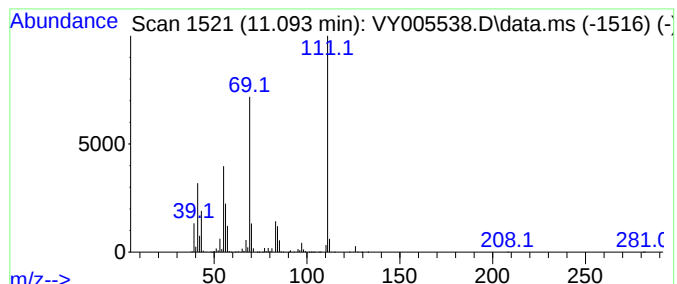
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 7

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 11.093 | 322.33 ug/l | 6697920 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-      | 126 | C9H18   | 003073-66-3 | 72   |
| 2    |    |   | Cyclohexane, 1-ethyl-2,4-dimethyl- | 140 | C10H20  | 061142-69-6 | 59   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-      | 126 | C9H18   | 001839-63-0 | 53   |
| 4    |    |   | Benzenamine, 2-fluoro-             | 111 | C6H6FN  | 000348-54-9 | 53   |
| 5    |    |   | p-Fluoroaniline                    | 111 | C6H6FN  | 000371-40-4 | 50   |



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Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

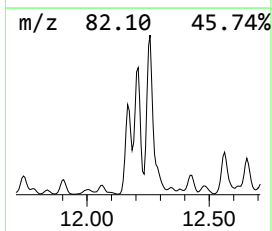
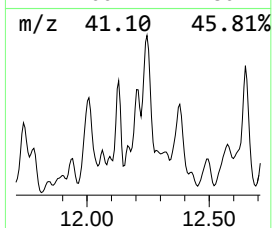
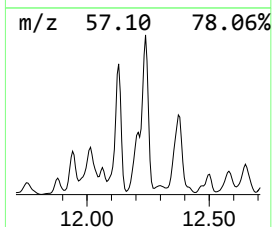
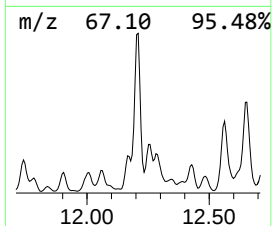
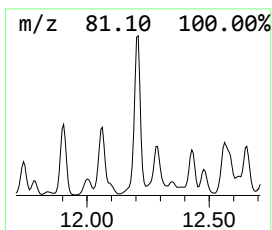
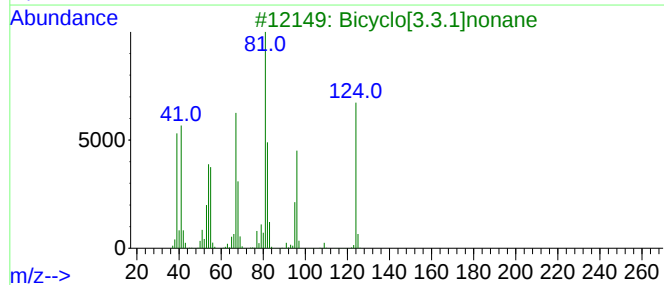
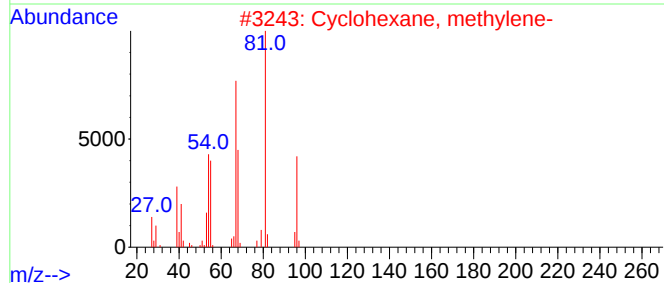
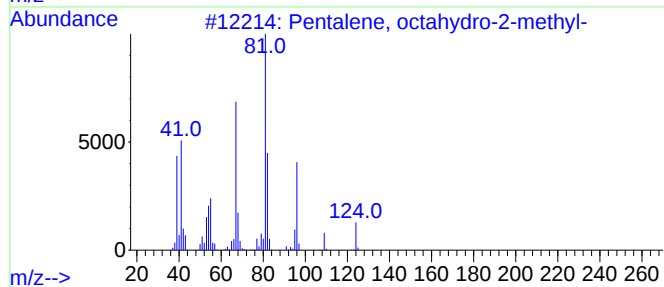
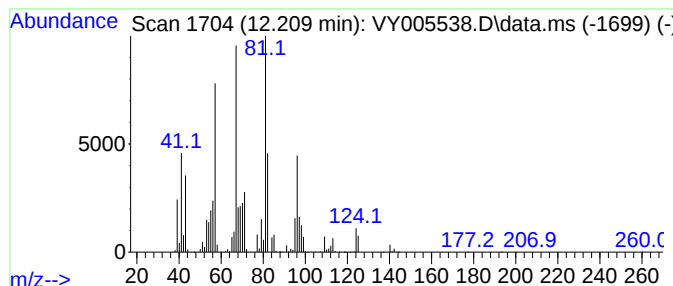
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MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Pentalene, octahydro-2-methyl- Concentration Rank 6

| R.T.      | EstConc                        | Area    | Relative to ISTD |         | R.T.        |      |
|-----------|--------------------------------|---------|------------------|---------|-------------|------|
| 12.209    | 350.86 ug/l                    | 7290920 | Chlorobenzene-d5 |         | 11.496      |      |
| Hit# of 5 | Tentative ID                   |         | MW               | MolForm | CAS#        | Qual |
| 1         | Pentalene, octahydro-2-methyl- |         | 124              | C9H16   | 003868-64-2 | 58   |
| 2         | Cyclohexane, methylene-        |         | 96               | C7H12   | 001192-37-6 | 52   |
| 3         | Bicyclo[3.3.1]nonane           |         | 124              | C9H16   | 000280-65-9 | 49   |
| 4         | 1H-Indene, octahydro-, trans-  |         | 124              | C9H16   | 003296-50-2 | 49   |
| 5         | Cyclohexene,3-propyl-          |         | 124              | C9H16   | 003983-06-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

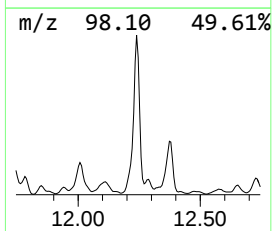
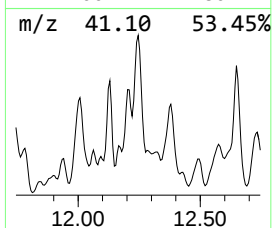
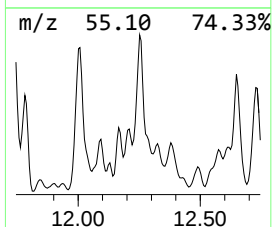
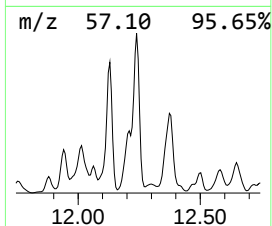
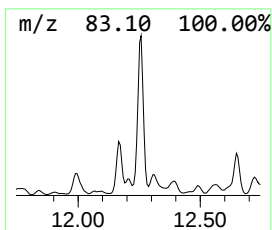
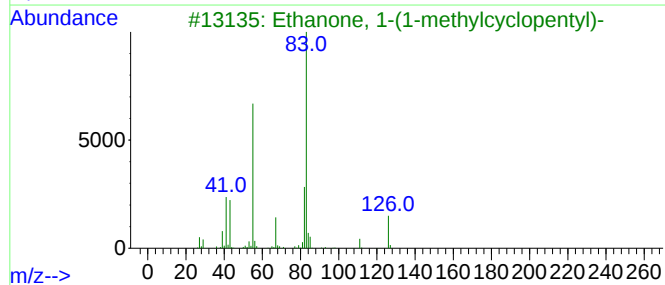
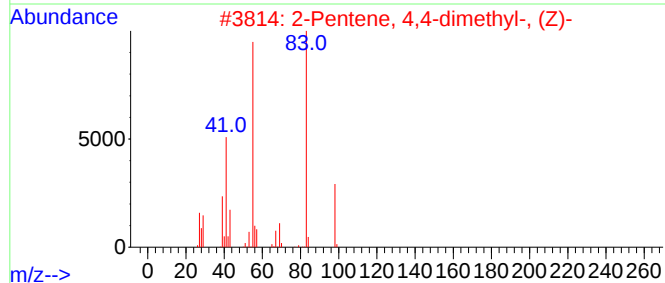
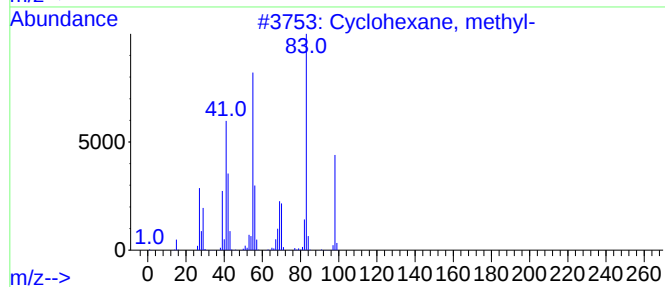
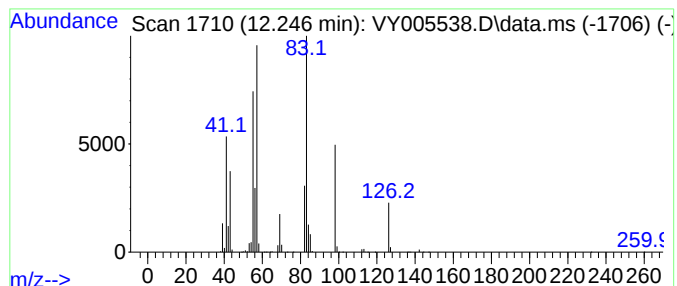
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

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

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Peak Number 4 2-Pentene, 4,4-dimethyl-, (Z)- Concentration Rank 4

| R.T.      | EstConc                            | Area    | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|---------|------------------|-------------|------|
| 12.246    | 471.76 ug/l                        | 9803140 | Chlorobenzene-d5 | 11.496      |      |
| Hit# of 5 | Tentative ID                       | MW      | MolForm          | CAS#        | Qual |
| 1         | Cyclohexane, methyl-               | 98      | C7H14            | 000108-87-2 | 59   |
| 2         | 2-Pentene, 4,4-dimethyl-, (Z)-     | 98      | C7H14            | 000762-63-0 | 50   |
| 3         | Ethanone, 1-(1-methylcyclopentyl)- | 126     | C8H14O           | 013388-93-7 | 50   |
| 4         | 2-Pentene, 3,4-dimethyl-, (Z)-     | 98      | C7H14            | 004914-91-4 | 50   |
| 5         | 2-Pentene, 3,4-dimethyl-           | 98      | C7H14            | 024910-63-2 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

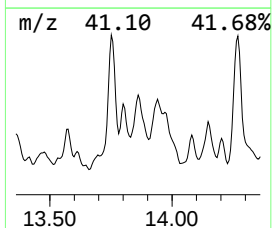
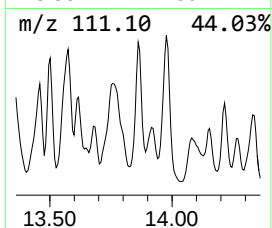
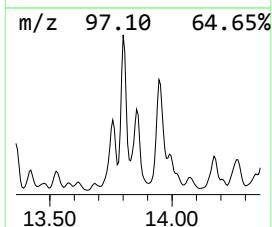
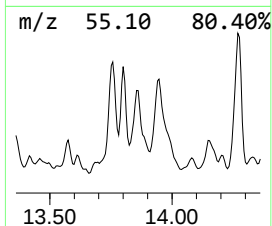
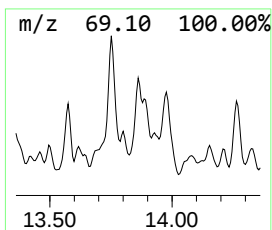
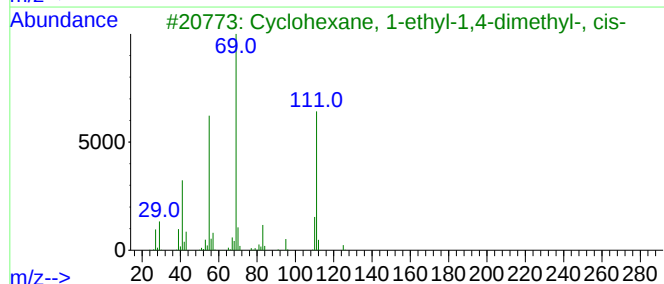
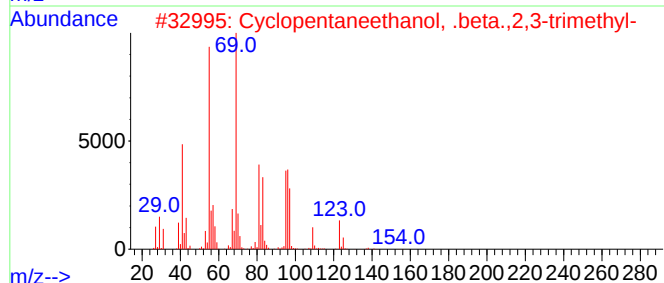
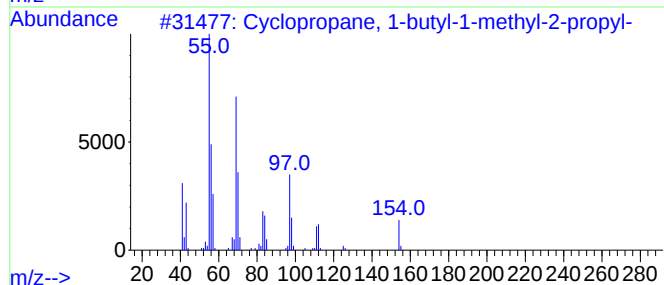
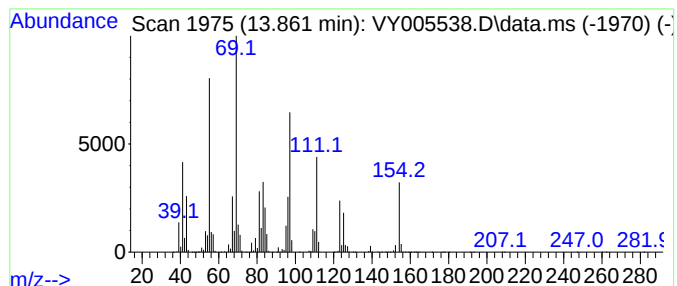
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Cyclopropane, 1-butyl-1-met... Concentration Rank 8

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 13.861 | 301.69 ug/l | 14098600 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopropane, 1-butyl-1-methyl-2... | 154 | C11H22  | 041977-34-8 | 52   |
| 2    |    |   | Cyclopentaneethanol, .beta.,2,3-... | 156 | C10H20O | 021721-18-6 | 43   |
| 3    |    |   | Cyclohexane, 1-ethyl-1,4-dimethy... | 140 | C10H20  | 062238-30-6 | 38   |
| 4    |    |   | Cyclopentanecarboxylic acid, eth... | 140 | C8H12O2 | 016523-06-1 | 35   |
| 5    |    |   | Methanone, dicyclopropyl-           | 110 | C7H10O  | 001121-37-5 | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

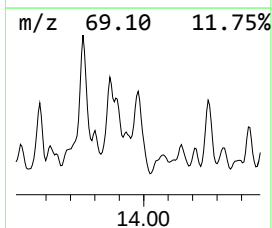
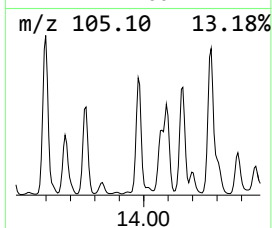
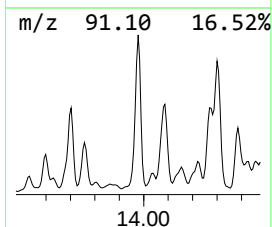
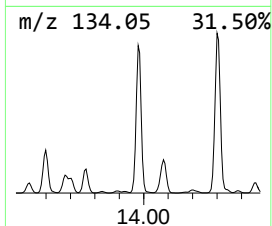
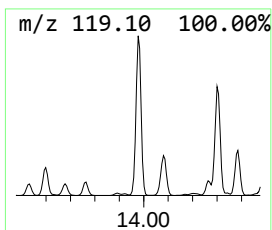
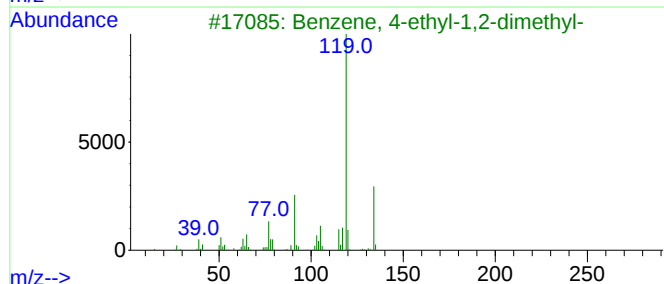
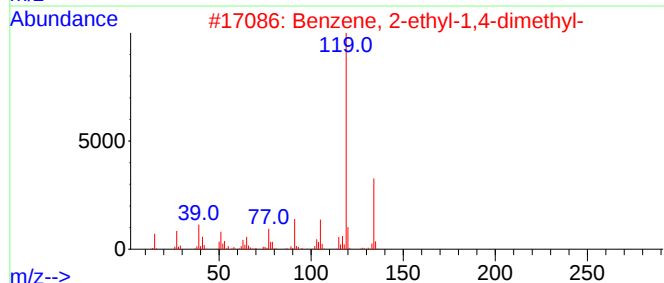
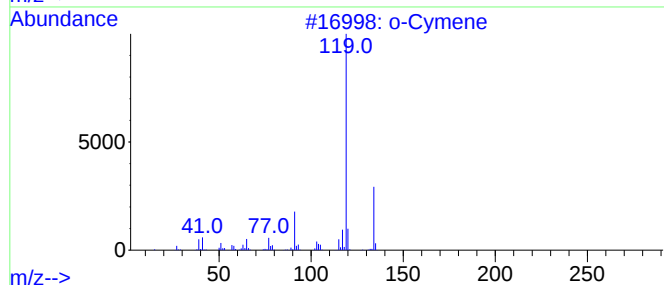
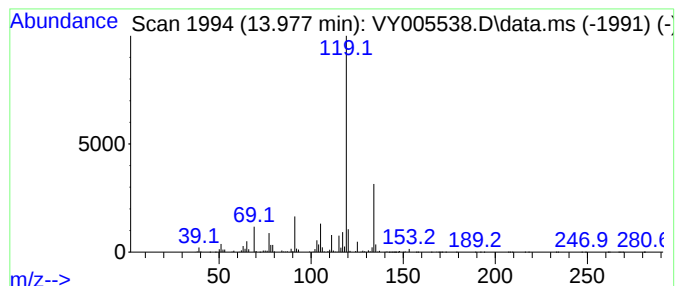
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 o-Cymene Concentration Rank 3

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 13.977 | 525.74 ug/l | 24568900 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 2    |    |   | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 95   |
| 3    |    |   | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 95   |
| 4    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 94   |
| 5    |    |   | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 93   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

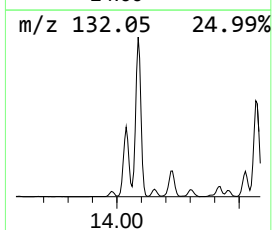
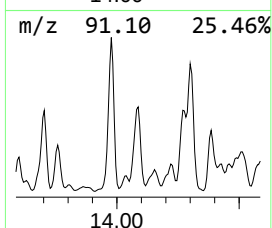
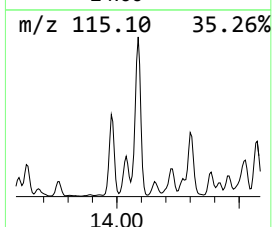
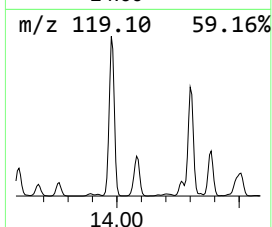
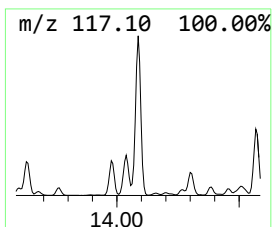
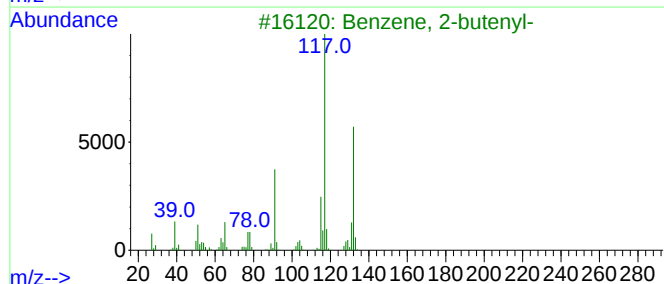
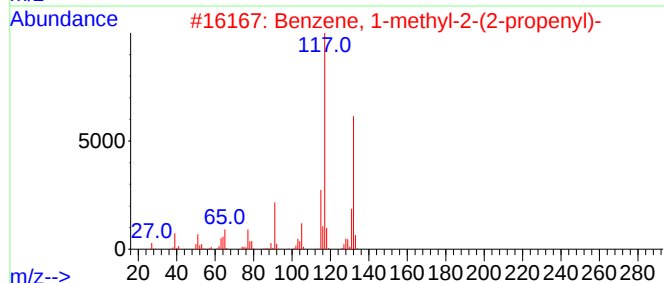
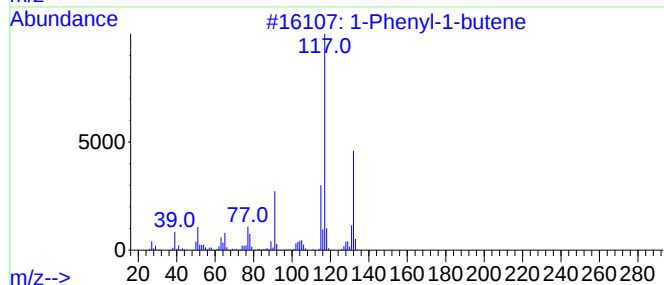
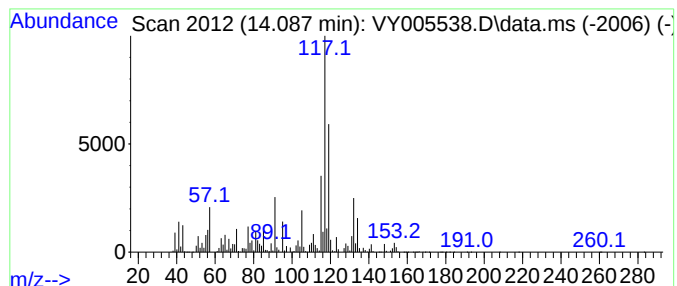
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Quant Title : SW846 8260

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

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Peak Number 7 1-Phenyl-1-butene Concentration Rank 9

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 14.087 | 299.53 ug/l | 13997400 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8 | 78   |
| 2    |    |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 70   |
| 3    |    |   | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 60   |
| 4    |    |   | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 60   |
| 5    |    |   | 1-Methyl-2-phenylcyclopropane     | 132 | C10H12  | 003145-76-4 | 60   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

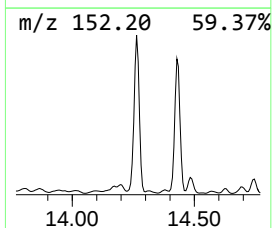
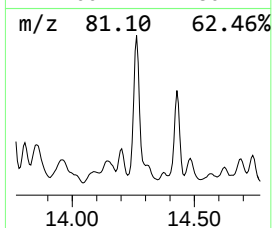
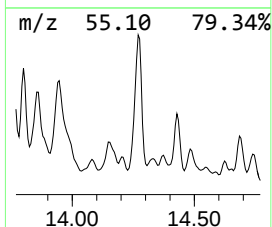
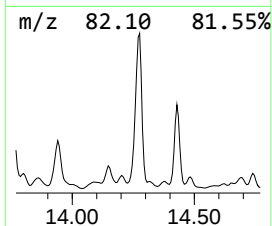
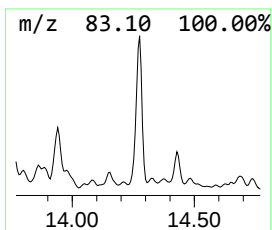
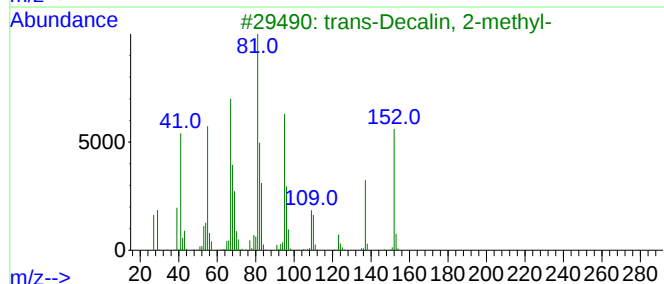
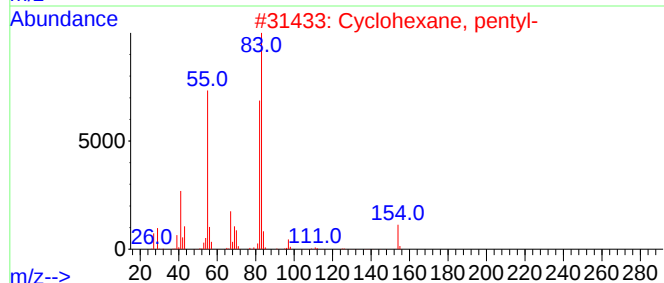
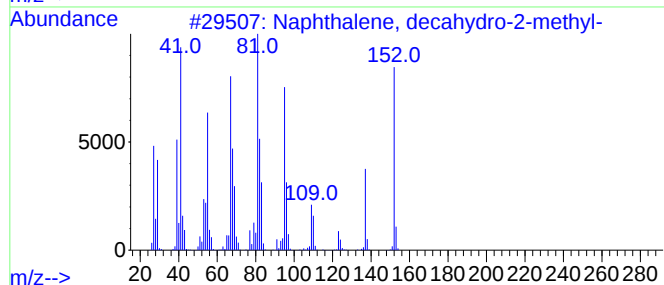
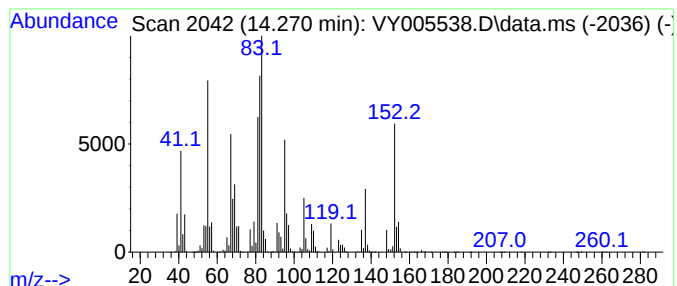
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, decahydro-2-me... Concentration Rank 1

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 14.270 | 940.00 ug/l | 43927800 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 95   |
| 2    |    |   | Cyclohexane, pentyl-                | 154 | C11H22  | 004292-92-6  | 50   |
| 3    |    |   | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 46   |
| 4    |    |   | Dodeca-1,6-dien-12-ol, 6,10-dime... | 210 | C14H26O | 1000156-13-8 | 43   |
| 5    |    |   | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6  | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

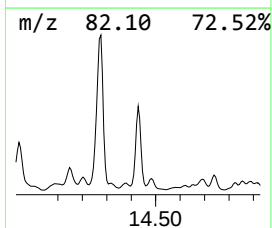
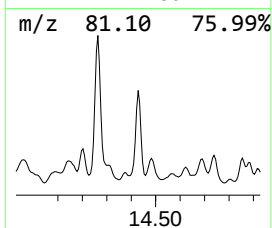
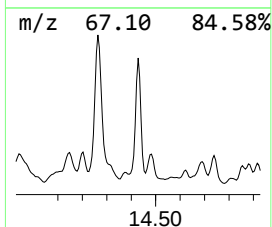
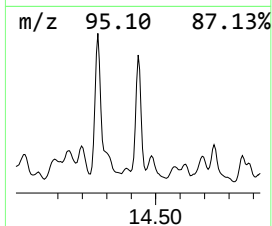
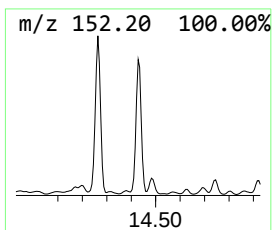
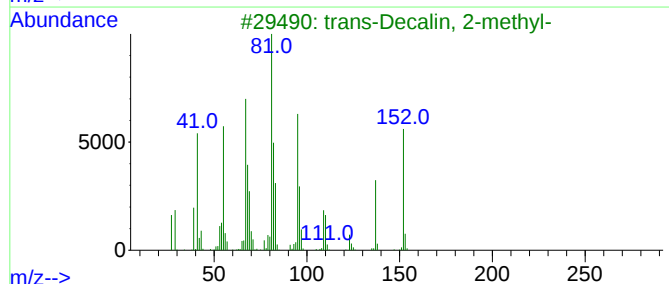
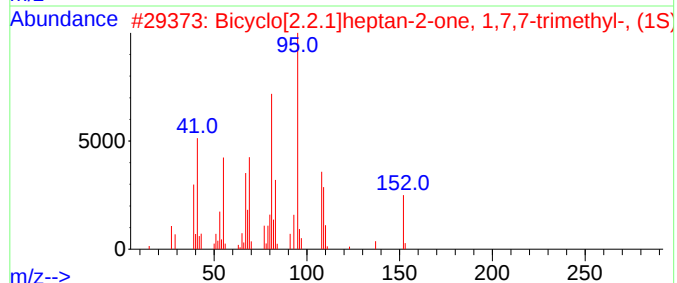
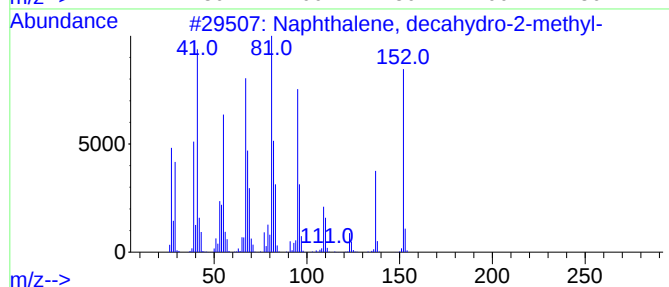
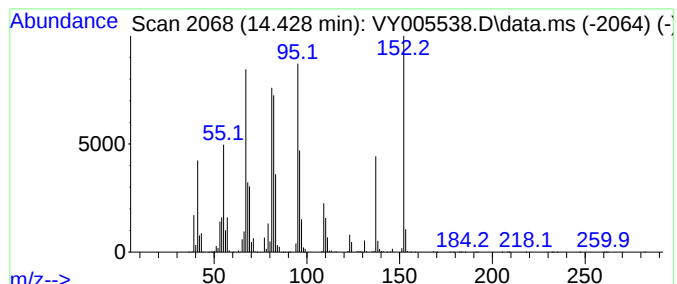
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 5

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 14.428 | 370.29 ug/l | 17304500 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 87   |
| 2    |    |   | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2  | 76   |
| 3    |    |   | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 76   |
| 4    |    |   | cis-Decalin, 2-syn-methyl-          | 152 | C11H20  | 1000155-85-6 | 72   |
| 5    |    |   | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5  | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260

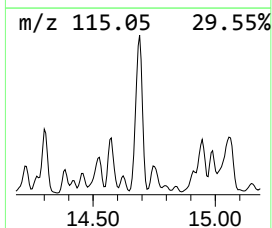
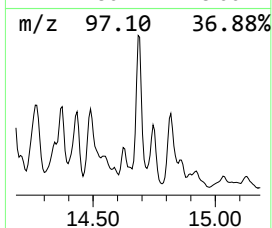
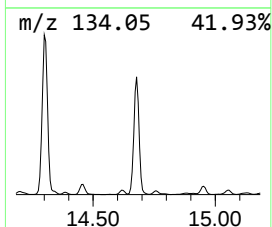
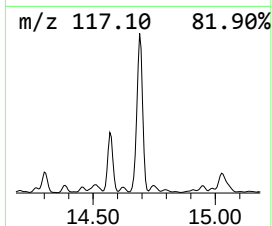
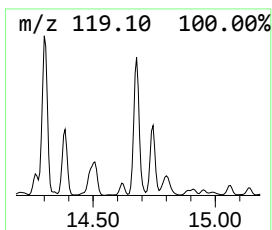
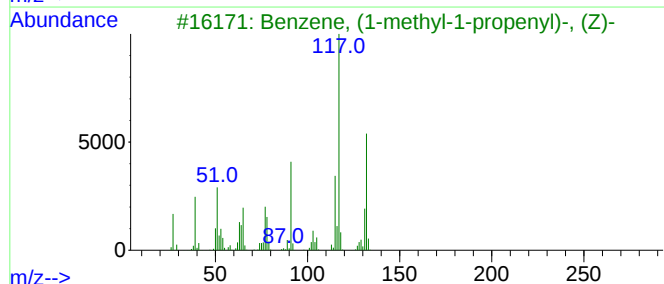
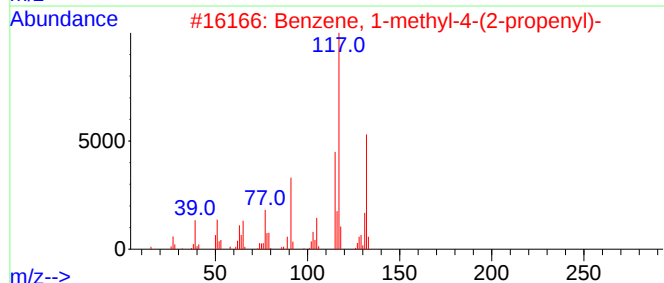
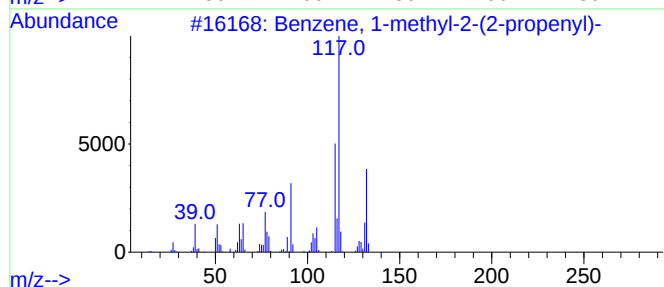
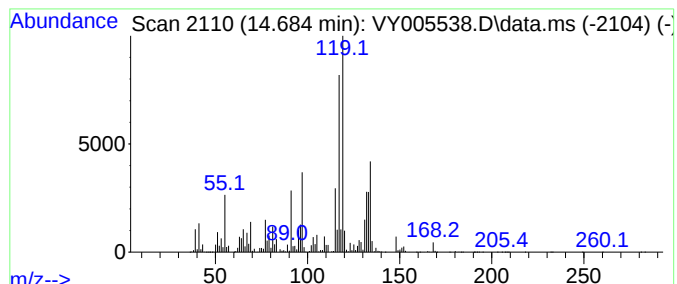
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1-methyl-2-(2-prop... Concentration Rank 2

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 14.684 | 535.60 ug/l | 25029600 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 84   |
| 2    |    |   | Benzene, 1-methyl-4-(2-propenyl)-   | 132 | C10H12  | 003333-13-9 | 60   |
| 3    |    |   | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000767-99-7 | 60   |
| 4    |    |   | Benzene, 2-butenyl-                 | 132 | C10H12  | 001560-06-1 | 52   |
| 5    |    |   | 1-Phenyl-1-butene                   | 132 | C10H12  | 000824-90-8 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY080421\  
Data File : VY005538.D  
Acq On : 04 Aug 2021 15:24  
Operator : SY/MD  
Sample : M3281-01  
Misc : 6.72G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TWP03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.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 |
| Heptane, 2,5-di... | 10.910 | 240.4   | ug/l  | 4995570  | 3                     | 11.496 | 1038990 | 50.0 |
| Cyclohexane, 1,... | 11.093 | 322.3   | ug/l  | 6697920  | 3                     | 11.496 | 1038990 | 50.0 |
| Pentalene, octa... | 12.209 | 350.9   | ug/l  | 7290920  | 3                     | 11.496 | 1038990 | 50.0 |
| 2-Pentene, 4,4-... | 12.246 | 471.8   | ug/l  | 9803140  | 3                     | 11.496 | 1038990 | 50.0 |
| Cyclopropane, 1... | 13.861 | 301.7   | ug/l  | 14098600 | 4                     | 13.428 | 2336600 | 50.0 |
| o-Cymene           | 13.977 | 525.7   | ug/l  | 24568900 | 4                     | 13.428 | 2336600 | 50.0 |
| 1-Phenyl-1-butene  | 14.087 | 299.5   | ug/l  | 13997400 | 4                     | 13.428 | 2336600 | 50.0 |
| Naphthalene, de... | 14.270 | 940.0   | ug/l  | 43927800 | 4                     | 13.428 | 2336600 | 50.0 |
| Bicyclo[2.2.1]h... | 14.428 | 370.3   | ug/l  | 17304500 | 4                     | 13.428 | 2336600 | 50.0 |
| Benzene, 1-meth... | 14.684 | 535.6   | ug/l  | 25029600 | 4                     | 13.428 | 2336600 | 50.0 |