

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
 Data File : VY015255.D  
 Acq On : 22 Aug 2023 19:24  
 Operator : SY/MD  
 Sample : 04109-01  
 Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-01(6-7)

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\82Y081423S.M  
 Title : SW846 8260

Signal : TIC: VY015255.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.217       | 59            | 65          | 75           | rBV2     | 7113           | 15428         | 1.27%           | 0.108%        |
| 2         | 2.893       | 168           | 176         | 188          | rBV2     | 15814          | 36074         | 2.97%           | 0.253%        |
| 3         | 3.942       | 336           | 348         | 359          | rBV4     | 8549           | 27972         | 2.30%           | 0.196%        |
| 4         | 4.698       | 458           | 472         | 498          | rBV5     | 56947          | 270103        | 22.23%          | 1.897%        |
| 5         | 5.234       | 553           | 560         | 573          | rVB3     | 17565          | 59706         | 4.91%           | 0.419%        |
| 6         | 5.747       | 633           | 644         | 655          | rBV5     | 7826           | 23931         | 1.97%           | 0.168%        |
| 7         | 6.527       | 759           | 772         | 782          | rBV5     | 5738           | 19772         | 1.63%           | 0.139%        |
| 8         | 6.685       | 782           | 798         | 811          | rBV      | 76959          | 247509        | 20.37%          | 1.738%        |
| 9         | 6.978       | 837           | 846         | 858          | rVB4     | 5724           | 18368         | 1.51%           | 0.129%        |
| 10        | 7.527       | 928           | 936         | 945          | rVB      | 12175          | 31803         | 2.62%           | 0.223%        |
| 11        | 7.716       | 956           | 967         | 972          | rBV      | 92077          | 223189        | 18.37%          | 1.567%        |
| 12        | 7.789       | 972           | 979         | 985          | rVV      | 168500         | 416428        | 34.27%          | 2.924%        |
| 13        | 7.868       | 985           | 992         | 1005         | rVV      | 191051         | 484808        | 39.90%          | 3.405%        |
| 14        | 7.996       | 1005          | 1013        | 1020         | rVV      | 31397          | 75777         | 6.24%           | 0.532%        |
| 15        | 8.142       | 1028          | 1037        | 1048         | rVV      | 101116         | 227532        | 18.73%          | 1.598%        |
| 16        | 8.270       | 1048          | 1058        | 1060         | rVV2     | 40991          | 93388         | 7.69%           | 0.656%        |
| 17        | 8.325       | 1060          | 1067        | 1077         | rVV      | 321761         | 807550        | 66.47%          | 5.671%        |
| 18        | 8.417       | 1077          | 1082        | 1093         | rVB2     | 15142          | 35311         | 2.91%           | 0.248%        |
| 19        | 8.545       | 1093          | 1103        | 1111         | rBV5     | 7104           | 16599         | 1.37%           | 0.117%        |
| 20        | 8.691       | 1117          | 1127        | 1138         | rBV      | 250499         | 512808        | 42.21%          | 3.601%        |
| 21        | 8.923       | 1159          | 1165        | 1170         | rBV2     | 7302           | 16560         | 1.36%           | 0.116%        |
| 22        | 9.148       | 1193          | 1202        | 1203         | rBV      | 33426          | 52653         | 4.33%           | 0.370%        |
| 23        | 9.185       | 1204          | 1208        | 1213         | rVV2     | 99855          | 196902        | 16.21%          | 1.383%        |
| 24        | 9.240       | 1213          | 1217        | 1224         | rVV      | 73935          | 143283        | 11.79%          | 1.006%        |
| 25        | 9.319       | 1224          | 1230        | 1235         | rVV      | 23962          | 47312         | 3.89%           | 0.332%        |
| 26        | 9.459       | 1243          | 1253        | 1262         | rBV      | 48074          | 110495        | 9.09%           | 0.776%        |
| 27        | 9.612       | 1271          | 1278        | 1289         | rVB      | 278467         | 549449        | 45.22%          | 3.859%        |
| 28        | 9.746       | 1289          | 1300        | 1307         | rBV      | 303196         | 668643        | 55.03%          | 4.696%        |
| 29        | 9.856       | 1314          | 1318        | 1325         | rVB4     | 22155          | 45152         | 3.72%           | 0.317%        |
| 30        | 9.941       | 1325          | 1332        | 1338         | rBV3     | 32360          | 95989         | 7.90%           | 0.674%        |
| 31        | 10.112      | 1354          | 1360        | 1365         | rVB      | 117694         | 206821        | 17.02%          | 1.452%        |
| 32        | 10.179      | 1365          | 1371        | 1384         | rVB      | 418660         | 733063        | 60.34%          | 5.148%        |
| 33        | 10.307      | 1384          | 1392        | 1394         | rBV6     | 7950           | 16099         | 1.33%           | 0.113%        |
| 34        | 10.343      | 1394          | 1398        | 1400         | rBV2     | 14185          | 21602         | 1.78%           | 0.152%        |
| 35        | 10.477      | 1409          | 1420        | 1423         | rBV5     | 12933          | 28624         | 2.36%           | 0.201%        |
| 36        | 10.520      | 1423          | 1427        | 1431         | rVV      | 21573          | 34394         | 2.83%           | 0.242%        |

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 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-01(6-7)

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\82Y081423S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 37 | 10.605 | 1431 | 1441 | 1454 | rVB7 | 55216  | 188737  | 15.53%  | 1.325% |
| 38 | 10.709 | 1454 | 1458 | 1463 | rVB  | 20773  | 34884   | 2.87%   | 0.245% |
| 39 | 10.800 | 1463 | 1473 | 1479 | rBV2 | 27130  | 54293   | 4.47%   | 0.381% |
| 40 | 10.904 | 1479 | 1490 | 1497 | rBV2 | 41569  | 111790  | 9.20%   | 0.785% |
| 41 | 11.002 | 1503 | 1506 | 1510 | rVV2 | 13603  | 18893   | 1.56%   | 0.133% |
| 42 | 11.093 | 1514 | 1521 | 1526 | rVV4 | 35228  | 74041   | 6.09%   | 0.520% |
| 43 | 11.148 | 1526 | 1530 | 1534 | rVV5 | 17973  | 28073   | 2.31%   | 0.197% |
| 44 | 11.203 | 1534 | 1539 | 1543 | rVB4 | 24745  | 42439   | 3.49%   | 0.298% |
| 45 | 11.270 | 1543 | 1550 | 1563 | rVB7 | 34510  | 145495  | 11.98%  | 1.022% |
| 46 | 11.380 | 1563 | 1568 | 1571 | rBV  | 34691  | 60746   | 5.00%   | 0.427% |
| 47 | 11.489 | 1578 | 1586 | 1591 | rBV2 | 412701 | 715089  | 58.86%  | 5.022% |
| 48 | 11.563 | 1591 | 1598 | 1604 | rVV  | 95325  | 167148  | 13.76%  | 1.174% |
| 49 | 11.630 | 1605 | 1609 | 1612 | rVB4 | 13659  | 19967   | 1.64%   | 0.140% |
| 50 | 11.672 | 1612 | 1616 | 1621 | rVB5 | 17354  | 32717   | 2.69%   | 0.230% |
| 51 | 11.745 | 1621 | 1628 | 1638 | rVB2 | 103580 | 217830  | 17.93%  | 1.530% |
| 52 | 11.837 | 1638 | 1643 | 1647 | rBV6 | 8734   | 20804   | 1.71%   | 0.146% |
| 53 | 11.892 | 1647 | 1652 | 1655 | rBV4 | 15985  | 29060   | 2.39%   | 0.204% |
| 54 | 11.941 | 1655 | 1660 | 1664 | rBV3 | 55861  | 94711   | 7.80%   | 0.665% |
| 55 | 12.008 | 1667 | 1671 | 1676 | rVB3 | 44583  | 72045   | 5.93%   | 0.506% |
| 56 | 12.117 | 1682 | 1689 | 1694 | rVB2 | 51606  | 98492   | 8.11%   | 0.692% |
| 57 | 12.197 | 1697 | 1702 | 1705 | rBV4 | 35822  | 64706   | 5.33%   | 0.454% |
| 58 | 12.233 | 1705 | 1708 | 1714 | rVB4 | 37531  | 64227   | 5.29%   | 0.451% |
| 59 | 12.373 | 1726 | 1731 | 1735 | rBV5 | 21776  | 45287   | 3.73%   | 0.318% |
| 60 | 12.410 | 1735 | 1737 | 1740 | rVB  | 18325  | 19205   | 1.58%   | 0.135% |
| 61 | 12.465 | 1740 | 1746 | 1757 | rVB3 | 501861 | 1214972 | 100.00% | 8.532% |
| 62 | 12.568 | 1757 | 1763 | 1767 | rBV4 | 29955  | 62238   | 5.12%   | 0.437% |
| 63 | 12.629 | 1767 | 1773 | 1782 | rVB3 | 110019 | 271549  | 22.35%  | 1.907% |
| 64 | 12.733 | 1783 | 1790 | 1793 | rBV8 | 15465  | 35449   | 2.92%   | 0.249% |
| 65 | 12.831 | 1796 | 1806 | 1813 | rBV3 | 89931  | 244185  | 20.10%  | 1.715% |
| 66 | 12.959 | 1822 | 1827 | 1829 | rBV5 | 20368  | 39781   | 3.27%   | 0.279% |
| 67 | 13.007 | 1832 | 1835 | 1837 | rVV2 | 27565  | 37453   | 3.08%   | 0.263% |
| 68 | 13.038 | 1837 | 1840 | 1842 | rVV  | 46267  | 65724   | 5.41%   | 0.462% |
| 69 | 13.068 | 1842 | 1845 | 1849 | rVB  | 55470  | 75116   | 6.18%   | 0.528% |
| 70 | 13.172 | 1857 | 1862 | 1867 | rVB  | 41095  | 64004   | 5.27%   | 0.449% |
| 71 | 13.227 | 1867 | 1871 | 1873 | rBV3 | 20411  | 32148   | 2.65%   | 0.226% |
| 72 | 13.282 | 1876 | 1880 | 1884 | rVV  | 150642 | 235094  | 19.35%  | 1.651% |
| 73 | 13.318 | 1884 | 1886 | 1890 | rVV3 | 24071  | 31426   | 2.59%   | 0.221% |
| 74 | 13.361 | 1890 | 1893 | 1895 | rVV2 | 24666  | 32634   | 2.69%   | 0.229% |
| 75 | 13.422 | 1895 | 1903 | 1908 | rVV  | 360135 | 614031  | 50.54%  | 4.312% |
| 76 | 13.477 | 1908 | 1912 | 1923 | rVB2 | 124554 | 290810  | 23.94%  | 2.042% |

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 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-01(6-7)

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\82Y081423S.M  
 Title : SW846 8260

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 13.593 | 1927 | 1931 | 1933 | rBV  | 39554  | 54127  | 4.45%  | 0.380% |
| 78  | 13.629 | 1933 | 1937 | 1942 | rVV3 | 61798  | 115594 | 9.51%  | 0.812% |
| 79  | 13.672 | 1942 | 1944 | 1952 | rVB2 | 36723  | 53748  | 4.42%  | 0.377% |
| 80  | 13.751 | 1952 | 1957 | 1961 | rBV3 | 45240  | 84218  | 6.93%  | 0.591% |
| 81  | 13.971 | 1987 | 1993 | 1998 | rBV2 | 129196 | 201114 | 16.55% | 1.412% |
| 82  | 14.080 | 2006 | 2011 | 2016 | rVB  | 91110  | 142372 | 11.72% | 1.000% |
| 83  | 14.141 | 2017 | 2021 | 2027 | rVB6 | 17512  | 31097  | 2.56%  | 0.218% |
| 84  | 14.294 | 2037 | 2046 | 2053 | rVB  | 162528 | 306877 | 25.26% | 2.155% |
| 85  | 14.379 | 2055 | 2060 | 2063 | rBV3 | 48000  | 83941  | 6.91%  | 0.589% |
| 86  | 14.519 | 2079 | 2083 | 2086 | rVB3 | 10368  | 15268  | 1.26%  | 0.107% |
| 87  | 14.574 | 2086 | 2092 | 2096 | rBV2 | 24131  | 44304  | 3.65%  | 0.311% |
| 88  | 14.611 | 2096 | 2098 | 2103 | rVB3 | 12564  | 17268  | 1.42%  | 0.121% |
| 89  | 14.684 | 2103 | 2110 | 2115 | rBV2 | 134278 | 241708 | 19.89% | 1.697% |
| 90  | 14.733 | 2115 | 2118 | 2126 | rVB3 | 29128  | 53685  | 4.42%  | 0.377% |
| 91  | 14.946 | 2147 | 2153 | 2156 | rBV3 | 41041  | 67218  | 5.53%  | 0.472% |
| 92  | 14.983 | 2156 | 2159 | 2162 | rVV  | 17465  | 26370  | 2.17%  | 0.185% |
| 93  | 15.050 | 2164 | 2170 | 2178 | rVB2 | 47426  | 114631 | 9.43%  | 0.805% |
| 94  | 15.214 | 2191 | 2197 | 2205 | rVB9 | 11177  | 32928  | 2.71%  | 0.231% |
| 95  | 15.294 | 2205 | 2210 | 2214 | rVV5 | 8386   | 15221  | 1.25%  | 0.107% |
| 96  | 15.342 | 2214 | 2218 | 2223 | rVV4 | 14314  | 32642  | 2.69%  | 0.229% |
| 97  | 15.391 | 2223 | 2226 | 2241 | rVB6 | 16478  | 40059  | 3.30%  | 0.281% |
| 98  | 15.525 | 2241 | 2248 | 2254 | rBV  | 11355  | 23943  | 1.97%  | 0.168% |
| 99  | 15.690 | 2266 | 2275 | 2285 | rBV4 | 9929   | 33342  | 2.74%  | 0.234% |
| 100 | 15.891 | 2302 | 2308 | 2319 | rVB6 | 10403  | 29403  | 2.42%  | 0.206% |

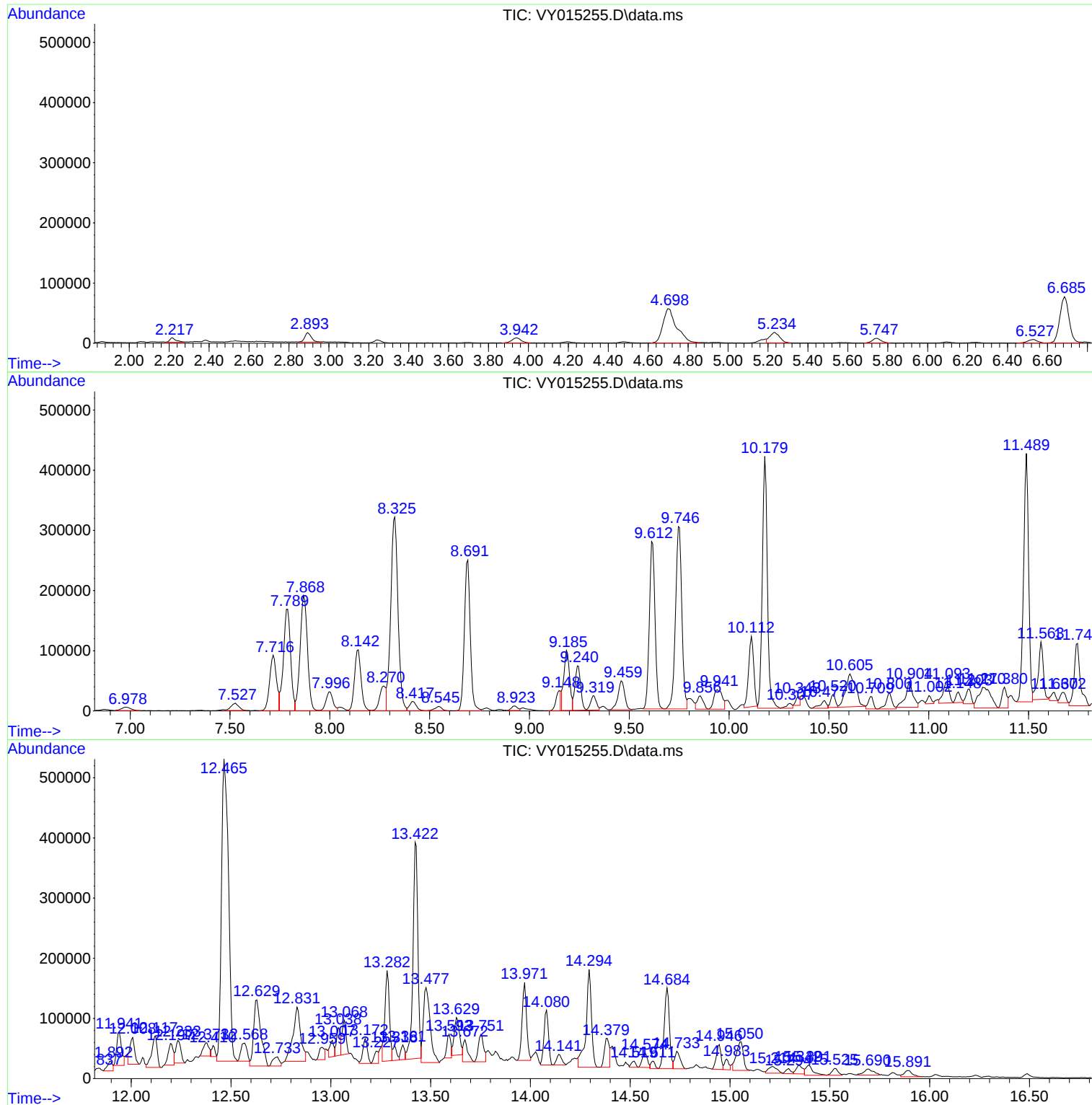
Sum of corrected areas: 14239468

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
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Instrument :  
MSVOA\_Y  
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TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
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TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

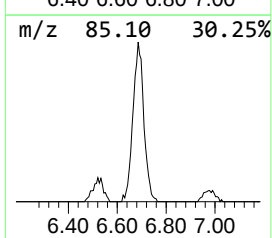
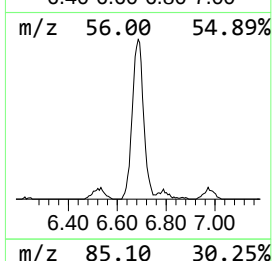
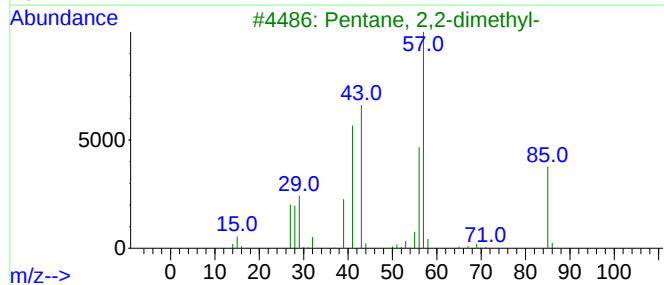
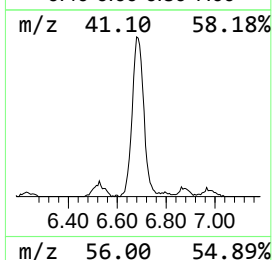
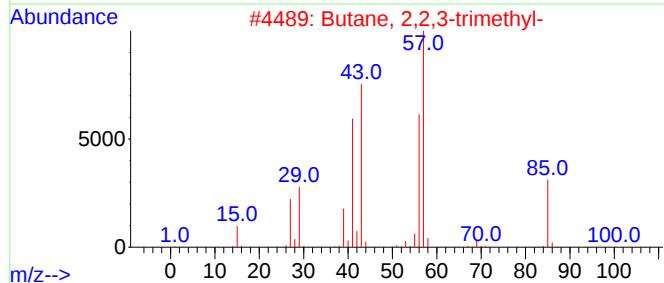
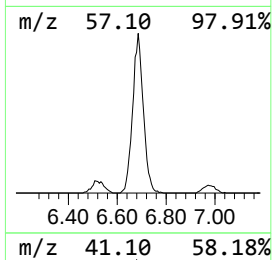
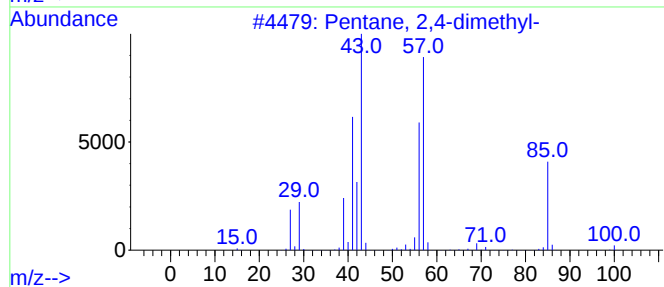
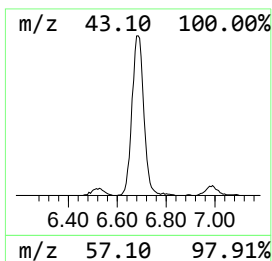
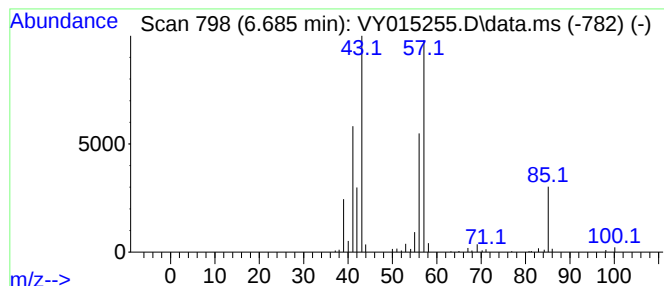
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Pentane, 2,4-dimethyl- Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 6.685 | 29.72 ug/l | 247509 | Pentafluorobenzene | 7.789 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------|-----|---------|--------------|------|
| 1    |    |   | Pentane, 2,4-dimethyl-   | 100 | C7H16   | 000108-08-7  | 80   |
| 2    |    |   | Butane, 2,2,3-trimethyl- | 100 | C7H16   | 000464-06-2  | 64   |
| 3    |    |   | Pentane, 2,2-dimethyl-   | 100 | C7H16   | 000590-35-2  | 59   |
| 4    |    |   | Heptane, 3-methyl-       | 114 | C8H18   | 000589-81-1  | 56   |
| 5    |    |   | 2-Ethyl-oxetane          | 86  | C5H10O  | 1010386-40-2 | 50   |



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TP-01(6-7)

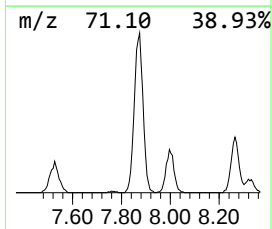
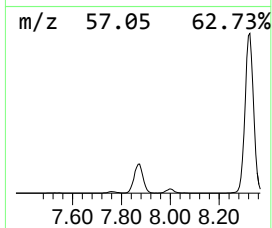
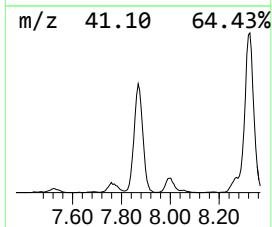
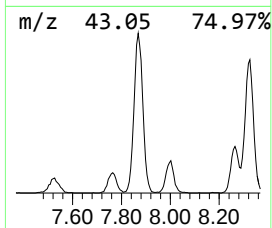
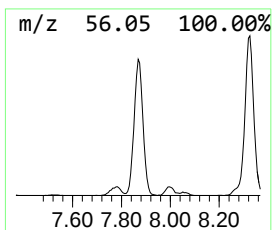
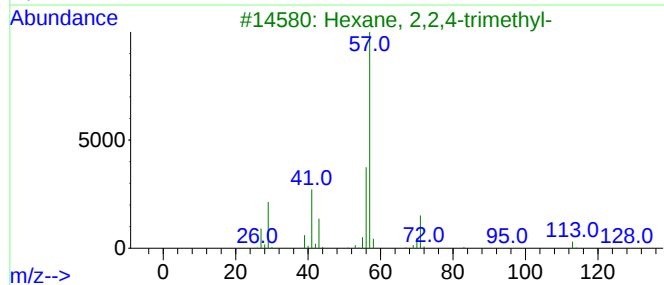
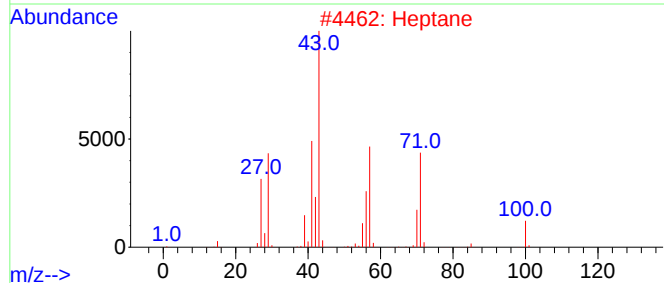
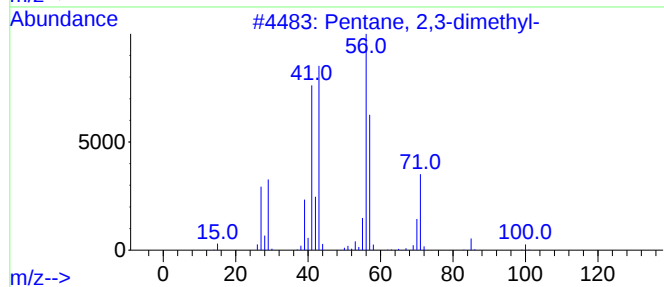
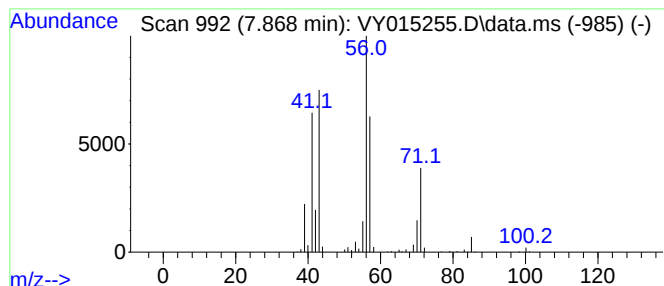
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Pentane, 2,3-dimethyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 7.868 | 58.21 ug/l | 484808 | Pentafluorobenzene | 7.789 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3-dimethyl-              | 100 | C7H16   | 000565-59-3 | 95   |
| 2    |    |   | Heptane                             | 100 | C7H16   | 000142-82-5 | 47   |
| 3    |    |   | Hexane, 2,2,4-trimethyl-            | 128 | C9H20   | 016747-26-5 | 45   |
| 4    |    |   | Propane, 1-isocyanato-              | 85  | C4H7NO  | 000110-78-1 | 43   |
| 5    |    |   | 1,4-Dioxaspiro[2.4]heptan-5-one,... | 142 | C7H10O3 | 126091-79-0 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

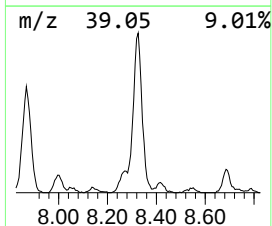
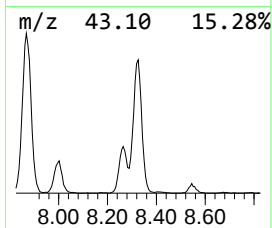
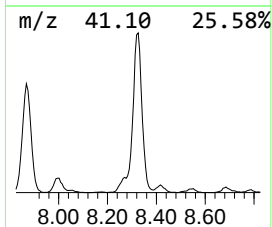
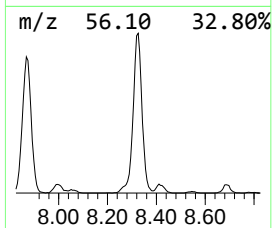
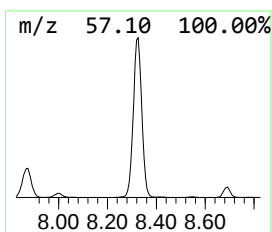
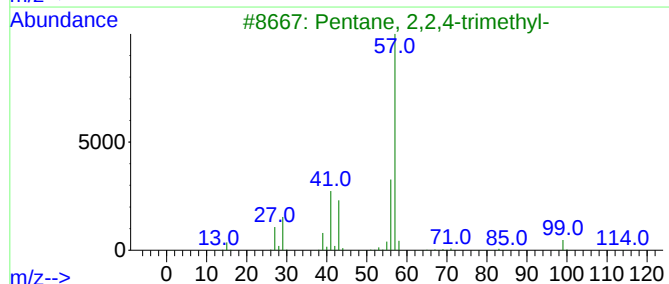
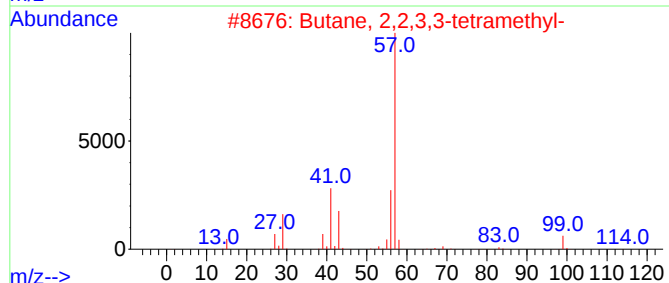
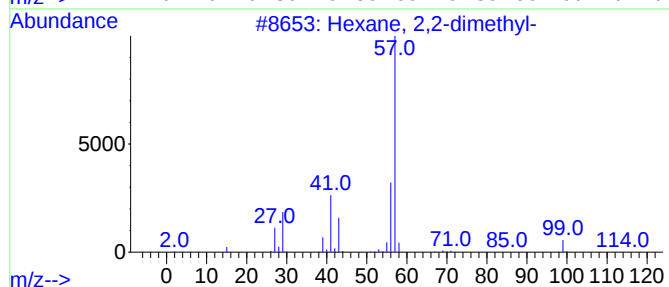
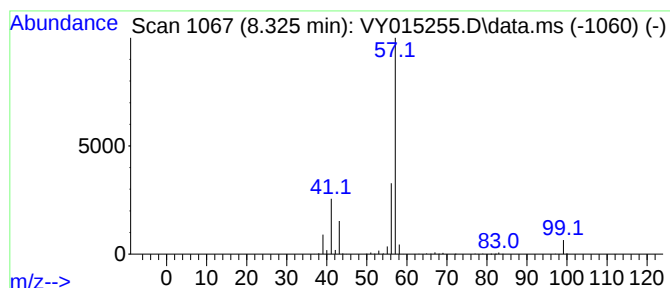
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 Hexane, 2,2-dimethyl- Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 8.325 | 78.74 ug/l | 807550 | 1,4-Difluorobenzene | 8.691 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2,2-dimethyl-         | 114 | C8H18   | 000590-73-8 | 83   |
| 2    |    |   | Butane, 2,2,3,3-tetramethyl-  | 114 | C8H18   | 000594-82-1 | 83   |
| 3    |    |   | Pentane, 2,2,4-trimethyl-     | 114 | C8H18   | 000540-84-1 | 78   |
| 4    |    |   | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20   | 001070-87-7 | 72   |
| 5    |    |   | Hexane, 2,2,4-trimethyl-      | 128 | C9H20   | 016747-26-5 | 56   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

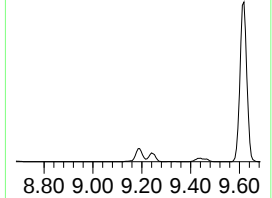
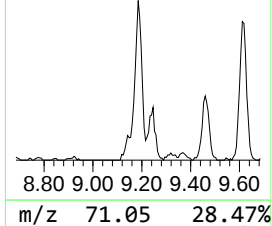
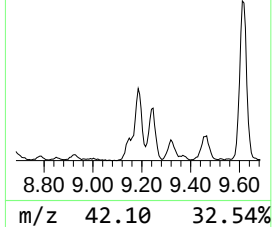
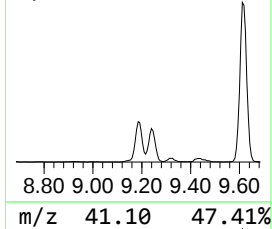
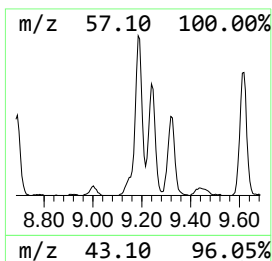
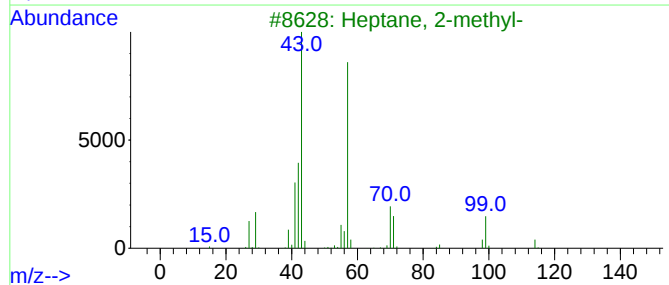
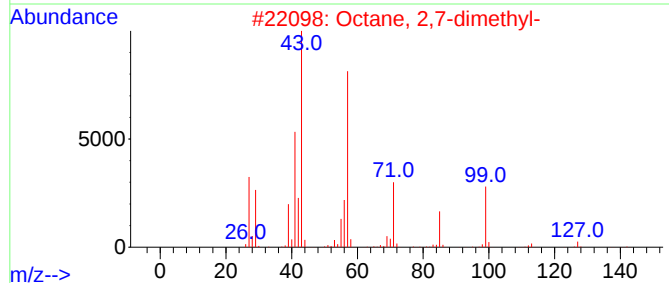
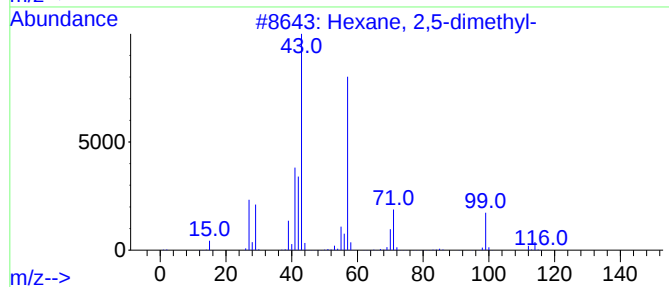
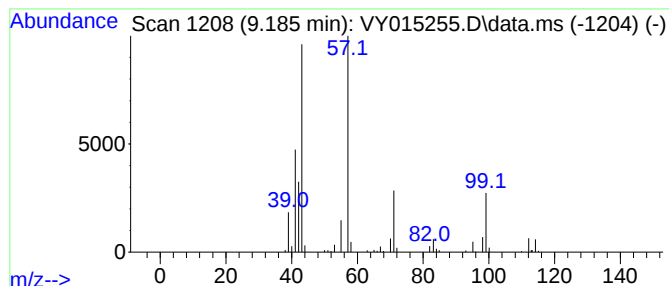
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

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

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Peak Number 4 Hexane, 2,5-dimethyl- Concentration Rank 10

| R.T.      | EstConc                     | Area   | Relative to ISTD    | R.T.        |      |
|-----------|-----------------------------|--------|---------------------|-------------|------|
| 9.185     | 19.20 ug/l                  | 196902 | 1,4-Difluorobenzene | 8.691       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm             | CAS#        | Qual |
| 1         | Hexane, 2,5-dimethyl-       | 114    | C8H18               | 000592-13-2 | 86   |
| 2         | Octane, 2,7-dimethyl-       | 142    | C10H22              | 001072-16-8 | 72   |
| 3         | Heptane, 2-methyl-          | 114    | C8H18               | 000592-27-8 | 58   |
| 4         | Decane, 2,6,8-trimethyl-    | 184    | C13H28              | 062108-26-3 | 50   |
| 5         | 1-Pyrrolidinecarboxaldehyde | 99     | C5H9NO              | 003760-54-1 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

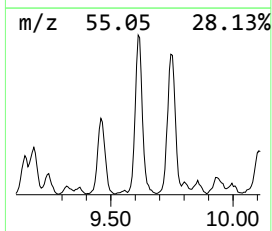
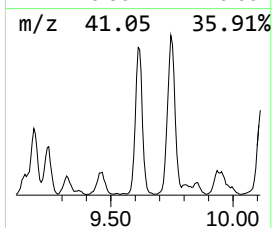
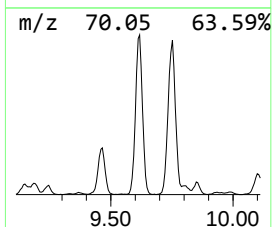
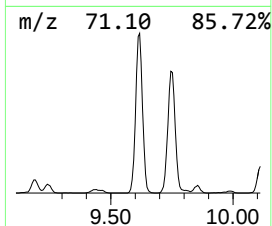
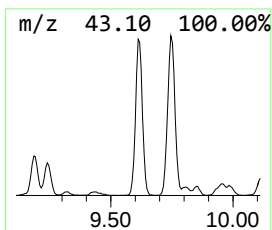
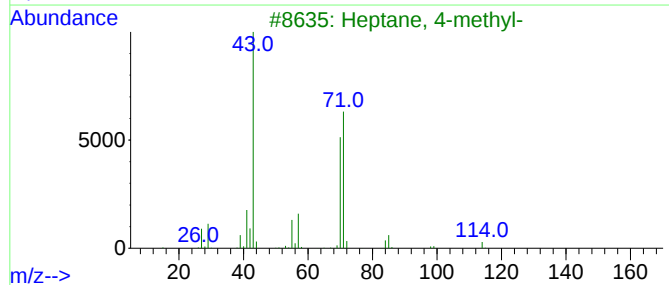
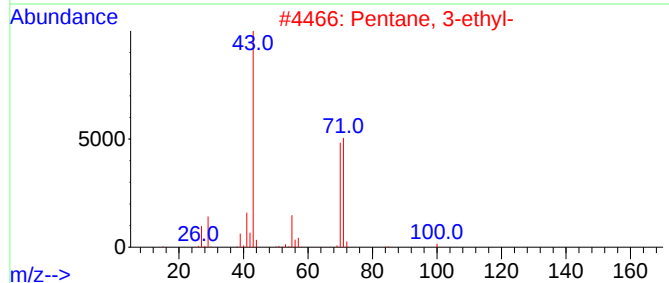
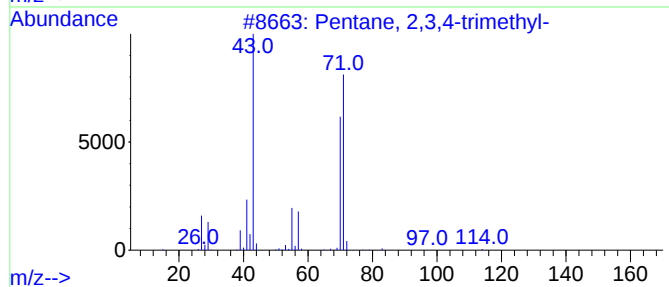
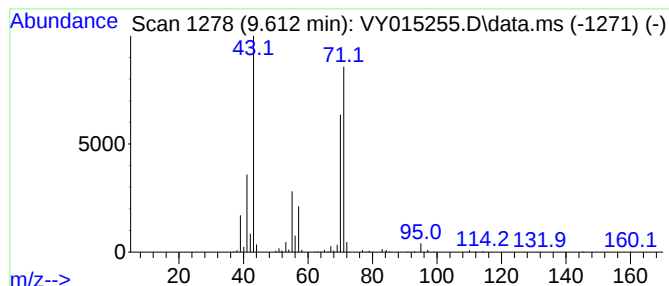
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Pentane, 2,3,4-trimethyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 9.612 | 53.57 ug/l | 549449 | 1,4-Difluorobenzene | 8.691 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 90   |
| 2    |    |   | Pentane, 3-ethyl-         | 100 | C7H16   | 000617-78-7 | 78   |
| 3    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 78   |
| 4    |    |   | Decane, 3,3,4-trimethyl-  | 184 | C13H28  | 049622-18-6 | 78   |
| 5    |    |   | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

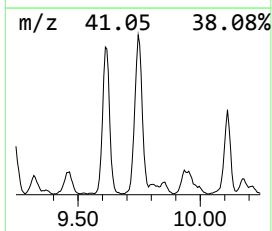
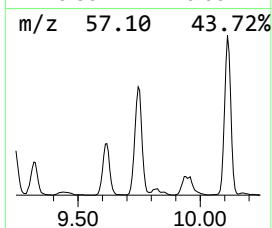
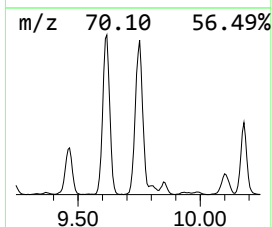
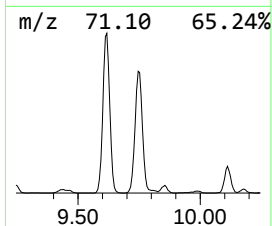
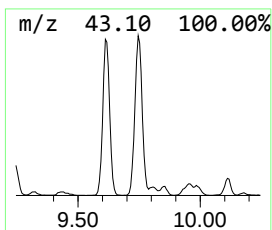
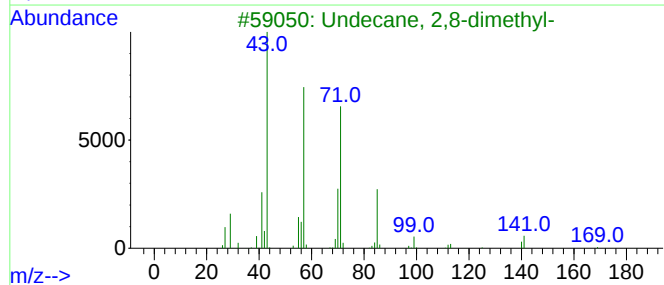
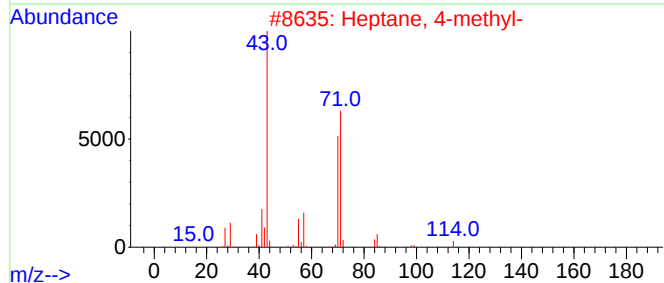
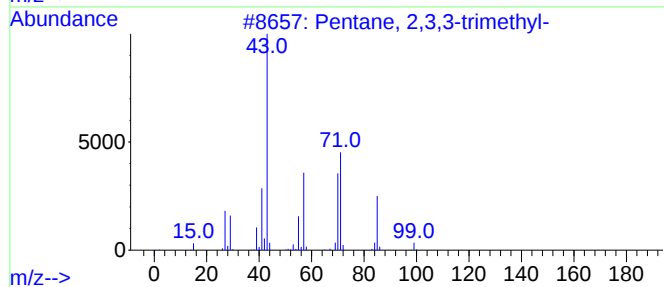
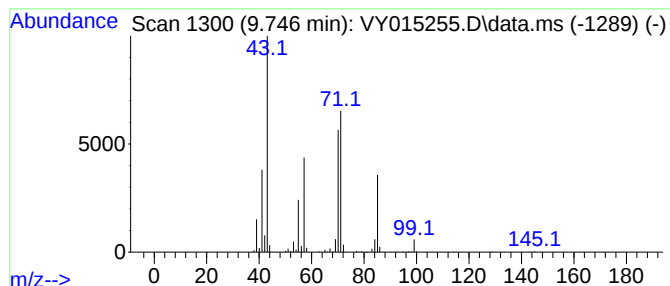
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pentane, 2,3,3-trimethyl- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 9.746 | 65.19 ug/l | 668643 | 1,4-Difluorobenzene | 8.691 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 90   |
| 2    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 64   |
| 3    |    |   | Undecane, 2,8-dimethyl-   | 184 | C13H28  | 017301-25-6 | 64   |
| 4    |    |   | Heptane, 3,3,4-trimethyl- | 142 | C10H22  | 020278-87-9 | 59   |
| 5    |    |   | Hexane, 2,3,4-trimethyl-  | 128 | C9H20   | 000921-47-1 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

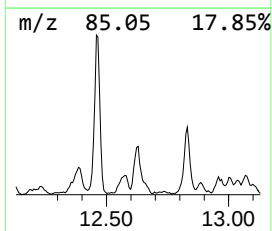
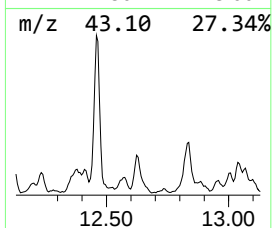
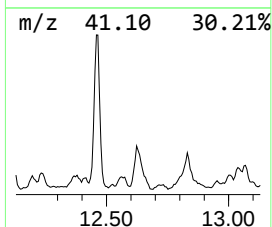
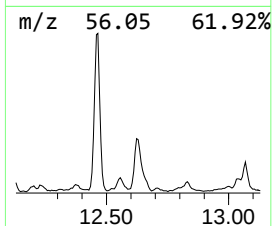
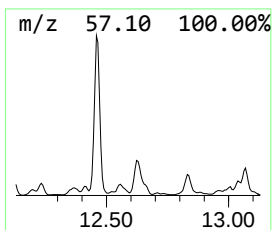
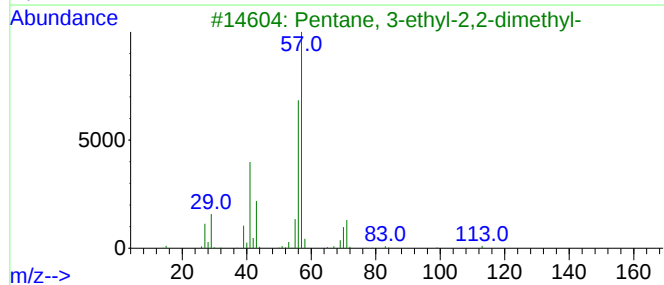
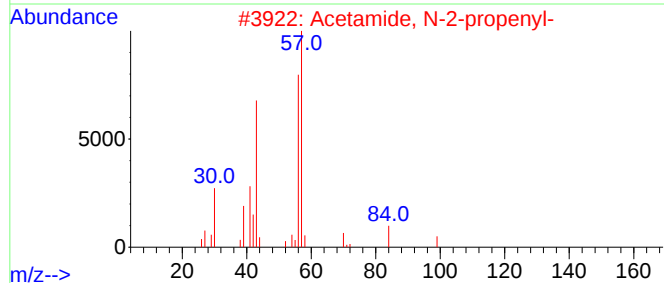
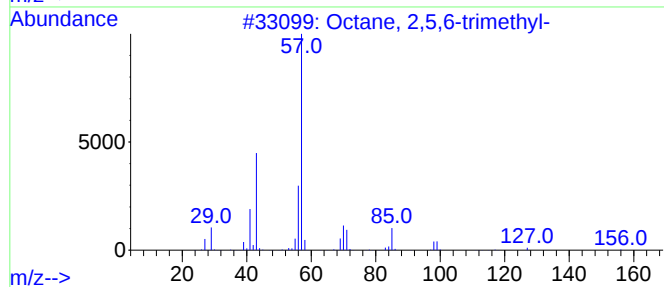
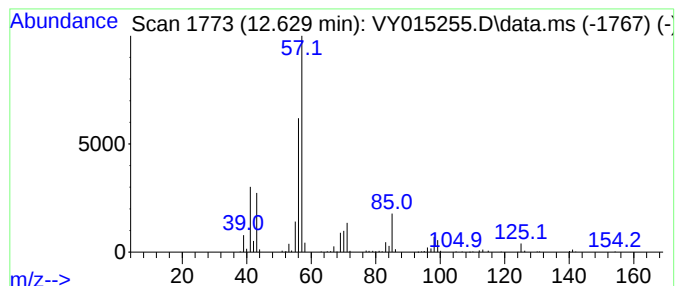
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Quant Title : SW846 8260

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

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Peak Number 7 Octane, 2,5,6-trimethyl- Concentration Rank 7

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.629 | 22.11 ug/l | 271549 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 2,5,6-trimethyl-       | 156 | C11H24  | 062016-14-2 | 53   |
| 2    |    |   | Acetamide, N-2-propenyl-       | 99  | C5H9NO  | 000692-33-1 | 53   |
| 3    |    |   | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20   | 016747-32-3 | 53   |
| 4    |    |   | Hexane, 2,2,3-trimethyl-       | 128 | C9H20   | 016747-25-4 | 53   |
| 5    |    |   | Hexane, 3-ethyl-2,5-dimethyl-  | 142 | C10H22  | 052897-04-8 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

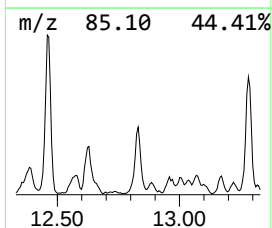
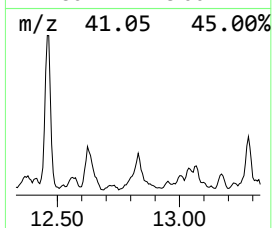
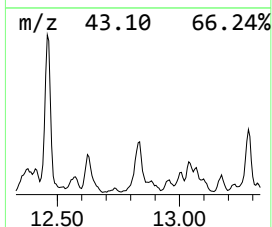
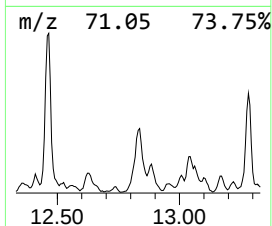
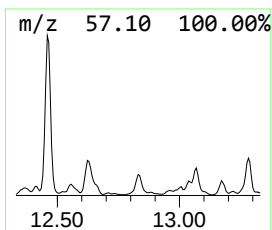
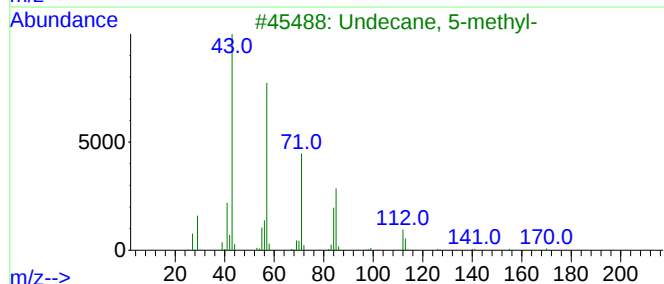
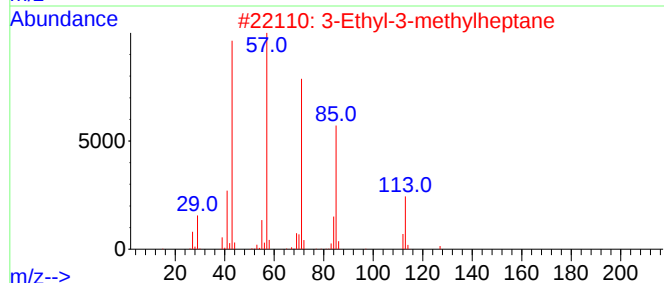
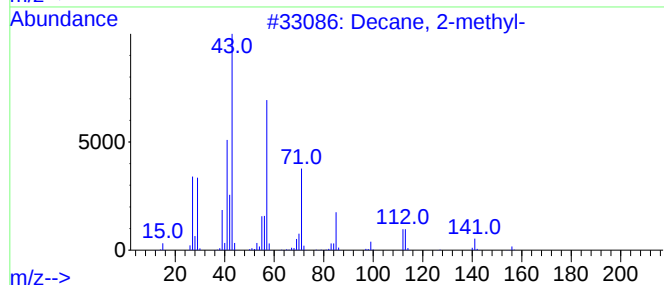
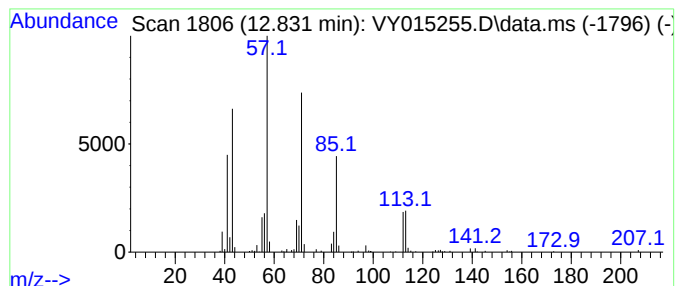
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Quant Title : SW846 8260

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

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Peak Number 8 Decane, 2-methyl- Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.831 | 19.88 ug/l | 244185 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 2-methyl-                   | 156 | C11H24    | 006975-98-0  | 83   |
| 2    |    |   | 3-Ethyl-3-methylheptane             | 142 | C10H22    | 017302-01-1  | 72   |
| 3    |    |   | Undecane, 5-methyl-                 | 170 | C12H26    | 001632-70-8  | 72   |
| 4    |    |   | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 72   |
| 5    |    |   | Hexacosane                          | 366 | C26H54    | 000630-01-3  | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

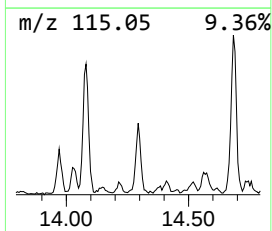
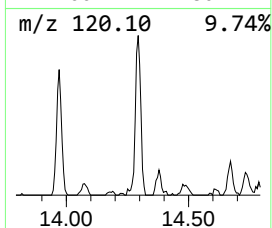
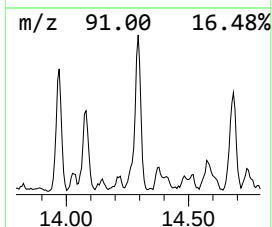
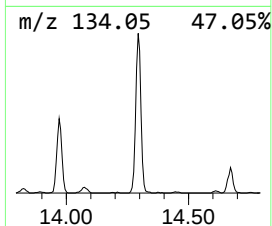
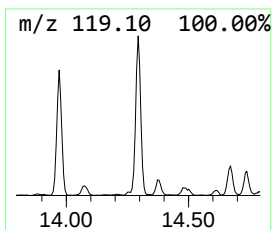
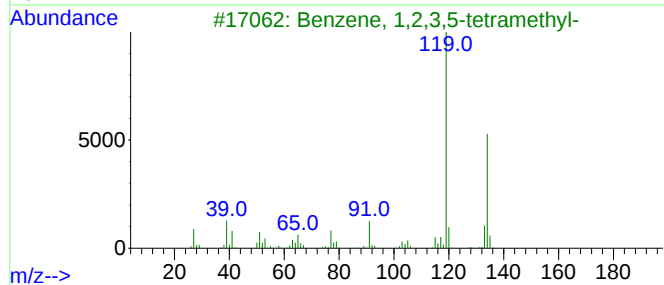
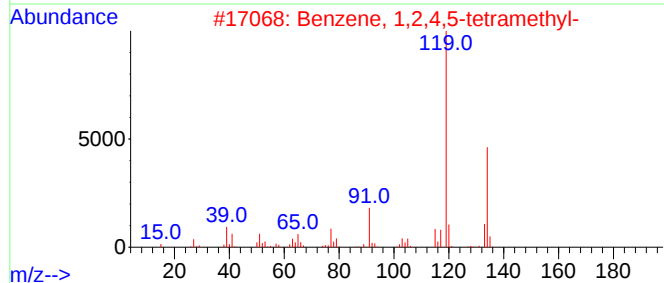
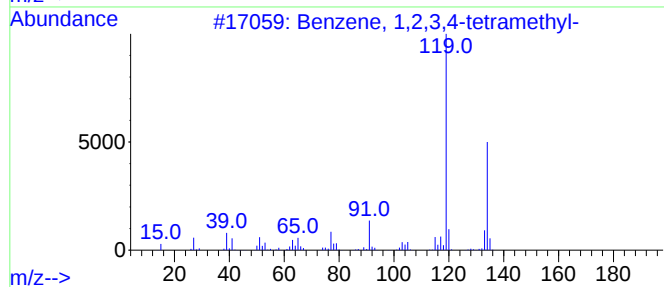
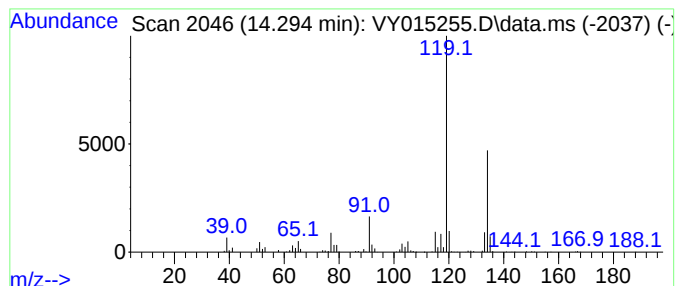
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.294 | 24.99 ug/l | 306877 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 97   |
| 2    |    |   | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 96   |
| 3    |    |   | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 95   |
| 4    |    |   | o-Cymene                      | 134 | C10H14  | 000527-84-4 | 94   |
| 5    |    |   | p-Cymene                      | 134 | C10H14  | 000099-87-6 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

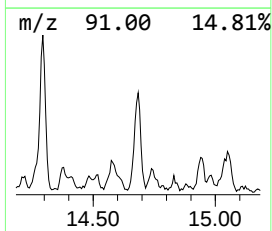
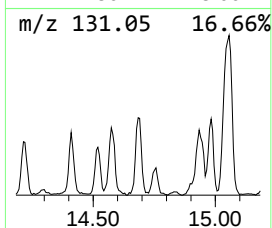
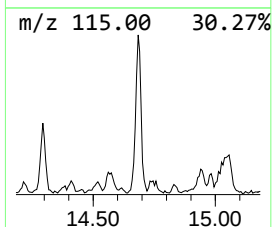
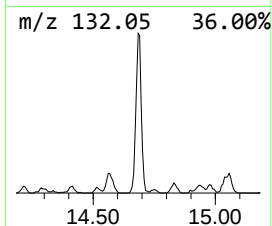
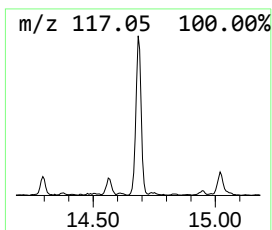
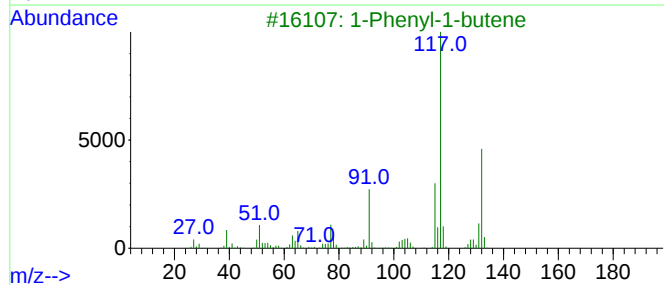
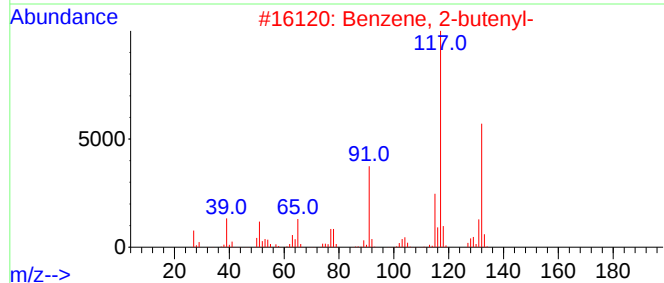
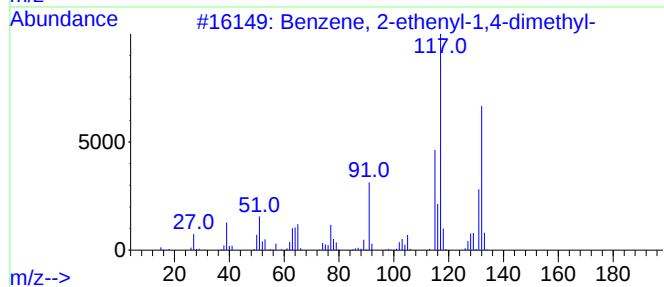
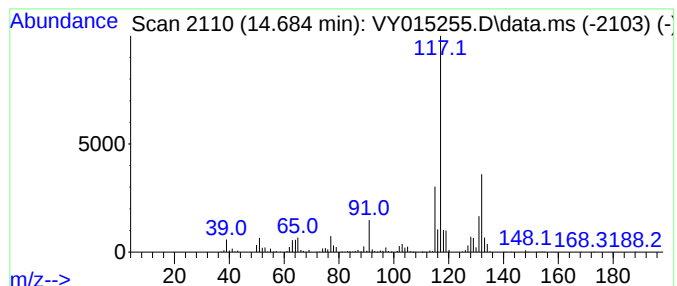
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260

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

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Peak Number 10 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 9

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.684 | 19.68 ug/l | 241708 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 91   |
| 2    |    |   | Benzene, 2-butenyl-              | 132 | C10H12  | 001560-06-1 | 90   |
| 3    |    |   | 1-Phenyl-1-butene                | 132 | C10H12  | 000824-90-8 | 90   |
| 4    |    |   | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 87   |
| 5    |    |   | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
Data File : VY015255.D  
Acq On : 22 Aug 2023 19:24  
Operator : SY/MD  
Sample : 04109-01  
Misc : 6.57g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-01(6-7)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.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 |
| Pentane, 2,4-di... | 6.685  | 29.7    | ug/l  | 247509   | 1                     | 7.789  | 416428 | 50.0 |
| Pentane, 2,3-di... | 7.868  | 58.2    | ug/l  | 484808   | 1                     | 7.789  | 416428 | 50.0 |
| Hexane, 2,2-dim... | 8.325  | 78.7    | ug/l  | 807550   | 2                     | 8.691  | 512808 | 50.0 |
| Hexane, 2,5-dim... | 9.185  | 19.2    | ug/l  | 196902   | 2                     | 8.691  | 512808 | 50.0 |
| Pentane, 2,3,4-... | 9.612  | 53.6    | ug/l  | 549449   | 2                     | 8.691  | 512808 | 50.0 |
| Pentane, 2,3,3-... | 9.746  | 65.2    | ug/l  | 668643   | 2                     | 8.691  | 512808 | 50.0 |
| Octane, 2,5,6-t... | 12.629 | 22.1    | ug/l  | 271549   | 4                     | 13.428 | 614031 | 50.0 |
| Decane, 2-methyl-  | 12.831 | 19.9    | ug/l  | 244185   | 4                     | 13.428 | 614031 | 50.0 |
| Benzene, 1,2,3,... | 14.294 | 25.0    | ug/l  | 306877   | 4                     | 13.428 | 614031 | 50.0 |
| Benzene, 2-ethe... | 14.684 | 19.7    | ug/l  | 241708   | 4                     | 13.428 | 614031 | 50.0 |