

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
 Data File : VY016882.D  
 Acq On : 27 Dec 2023 16:57  
 Operator : SY/MD  
 Sample : 06031-03  
 Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MR-321-10-12

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\82Y122023S.M  
 Title : SW846 8260

Signal : TIC: VY016882.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         | 5.759       | 635           | 646         | 662          | rVB3     | 15414          | 47673         | 2.49%           | 0.128%        |
| 2         | 6.807       | 809           | 818         | 829          | rVB2     | 18747          | 57067         | 2.98%           | 0.153%        |
| 3         | 7.728       | 957           | 969         | 974          | rBV2     | 86743          | 221200        | 11.57%          | 0.593%        |
| 4         | 7.795       | 974           | 980         | 988          | rVV2     | 178868         | 458685        | 23.98%          | 1.229%        |
| 5         | 7.880       | 988           | 994         | 1006         | rVB      | 57990          | 150753        | 7.88%           | 0.404%        |
| 6         | 8.014       | 1006          | 1016        | 1021         | rBV      | 82573          | 198413        | 10.38%          | 0.532%        |
| 7         | 8.063       | 1022          | 1024        | 1031         | rVV3     | 25366          | 48419         | 2.53%           | 0.130%        |
| 8         | 8.149       | 1031          | 1038        | 1049         | rVB      | 86485          | 202481        | 10.59%          | 0.543%        |
| 9         | 8.289       | 1051          | 1061        | 1064         | rBV2     | 80929          | 188148        | 9.84%           | 0.504%        |
| 10        | 8.344       | 1064          | 1070        | 1078         | rVV3     | 129820         | 415104        | 21.71%          | 1.112%        |
| 11        | 8.429       | 1078          | 1084        | 1094         | rVB      | 91981          | 210760        | 11.02%          | 0.565%        |
| 12        | 8.557       | 1094          | 1105        | 1117         | rVB3     | 28711          | 64438         | 3.37%           | 0.173%        |
| 13        | 8.697       | 1119          | 1128        | 1141         | rBV      | 311836         | 658462        | 34.43%          | 1.764%        |
| 14        | 9.191       | 1192          | 1209        | 1215         | rBV3     | 344713         | 972183        | 50.84%          | 2.605%        |
| 15        | 9.252       | 1215          | 1219        | 1226         | rVB2     | 66104          | 124895        | 6.53%           | 0.335%        |
| 16        | 9.380       | 1234          | 1240        | 1246         | rVB      | 57498          | 108839        | 5.69%           | 0.292%        |
| 17        | 9.471       | 1246          | 1255        | 1262         | rVB      | 155669         | 326710        | 17.08%          | 0.875%        |
| 18        | 9.618       | 1272          | 1279        | 1290         | rVB2     | 255405         | 520320        | 27.21%          | 1.394%        |
| 19        | 9.758       | 1290          | 1302        | 1308         | rBV4     | 155036         | 431109        | 22.54%          | 1.155%        |
| 20        | 9.825       | 1308          | 1313        | 1317         | rBV      | 122720         | 234811        | 12.28%          | 0.629%        |
| 21        | 9.862       | 1317          | 1319        | 1326         | rVB2     | 110836         | 169200        | 8.85%           | 0.453%        |
| 22        | 9.965       | 1326          | 1336        | 1348         | rBV3     | 181998         | 555378        | 29.04%          | 1.488%        |
| 23        | 10.075      | 1348          | 1354        | 1356         | rBV3     | 48051          | 91467         | 4.78%           | 0.245%        |
| 24        | 10.112      | 1356          | 1360        | 1365         | rVB2     | 64254          | 127574        | 6.67%           | 0.342%        |
| 25        | 10.185      | 1365          | 1372        | 1377         | rBV      | 1022976        | 1912397       | 100.00%         | 5.124%        |
| 26        | 10.313      | 1385          | 1393        | 1396         | rBV      | 109277         | 209355        | 10.95%          | 0.561%        |
| 27        | 10.355      | 1396          | 1400        | 1411         | rVB6     | 281271         | 850322        | 44.46%          | 2.278%        |
| 28        | 10.490      | 1411          | 1422        | 1424         | rBV5     | 95038          | 217768        | 11.39%          | 0.584%        |
| 29        | 10.526      | 1424          | 1428        | 1434         | rVB      | 473708         | 806346        | 42.16%          | 2.161%        |
| 30        | 10.618      | 1434          | 1443        | 1450         | rBV2     | 449810         | 1039920       | 54.38%          | 2.787%        |
| 31        | 10.672      | 1450          | 1452        | 1456         | rVV2     | 37215          | 52968         | 2.77%           | 0.142%        |
| 32        | 10.715      | 1456          | 1459        | 1464         | rVB2     | 100981         | 160023        | 8.37%           | 0.429%        |
| 33        | 10.770      | 1464          | 1468        | 1470         | rBV2     | 43609          | 71285         | 3.73%           | 0.191%        |
| 34        | 10.807      | 1470          | 1474        | 1479         | rVB      | 208418         | 332083        | 17.36%          | 0.890%        |
| 35        | 10.886      | 1479          | 1487        | 1489         | rBV3     | 131793         | 283512        | 14.82%          | 0.760%        |
| 36        | 10.916      | 1489          | 1492        | 1497         | rVV3     | 123768         | 231193        | 12.09%          | 0.619%        |

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 MR-321-10-12

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Integrator: RTE

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Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 37 | 10.971 | 1497 | 1501 | 1504 | rVV3 | 180530 | 285696  | 14.94% | 0.766% |
| 38 | 11.008 | 1504 | 1507 | 1509 | rVV2 | 188584 | 280762  | 14.68% | 0.752% |
| 39 | 11.044 | 1509 | 1513 | 1517 | rVV  | 456766 | 751924  | 39.32% | 2.015% |
| 40 | 11.099 | 1517 | 1522 | 1527 | rVV  | 824949 | 1390768 | 72.72% | 3.727% |

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 41 | 11.154 | 1527 | 1531 | 1535 | rVV2 | 175874 | 274693  | 14.36% | 0.736% |
| 42 | 11.209 | 1535 | 1540 | 1545 | rVB2 | 282610 | 538131  | 28.14% | 1.442% |
| 43 | 11.300 | 1545 | 1555 | 1564 | rVB4 | 427907 | 1098904 | 57.46% | 2.945% |
| 44 | 11.386 | 1564 | 1569 | 1579 | rBV2 | 303811 | 731922  | 38.27% | 1.961% |
| 45 | 11.495 | 1582 | 1587 | 1592 | rBV  | 512684 | 810043  | 42.36% | 2.171% |

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 46 | 11.593 | 1599 | 1603 | 1606 | rBV  | 90751  | 152136  | 7.96%  | 0.408% |
| 47 | 11.636 | 1606 | 1610 | 1613 | rVV  | 225103 | 336831  | 17.61% | 0.903% |
| 48 | 11.684 | 1613 | 1618 | 1622 | rVB4 | 274240 | 520614  | 27.22% | 1.395% |
| 49 | 11.745 | 1622 | 1628 | 1632 | rBV2 | 527604 | 1028660 | 53.79% | 2.756% |
| 50 | 11.782 | 1632 | 1634 | 1639 | rVB2 | 360673 | 539542  | 28.21% | 1.446% |

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 51 | 11.843 | 1639 | 1644 | 1648 | rBV4 | 79609  | 138361  | 7.23%  | 0.371% |
| 52 | 11.904 | 1648 | 1654 | 1658 | rBV  | 208159 | 378216  | 19.78% | 1.013% |
| 53 | 11.947 | 1658 | 1661 | 1665 | rVB3 | 56078  | 73704   | 3.85%  | 0.197% |
| 54 | 12.008 | 1665 | 1671 | 1677 | rBV3 | 530966 | 1163345 | 60.83% | 3.117% |
| 55 | 12.062 | 1678 | 1680 | 1683 | rVV  | 134709 | 184770  | 9.66%  | 0.495% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 56 | 12.099 | 1683 | 1686 | 1688 | rVV2 | 97265  | 150009 | 7.84%  | 0.402% |
| 57 | 12.130 | 1688 | 1691 | 1694 | rVB  | 219655 | 265764 | 13.90% | 0.712% |
| 58 | 12.209 | 1699 | 1704 | 1708 | rVV2 | 571443 | 900691 | 47.10% | 2.413% |
| 59 | 12.258 | 1708 | 1712 | 1715 | rVB3 | 355709 | 485872 | 25.41% | 1.302% |
| 60 | 12.392 | 1729 | 1734 | 1737 | rBV5 | 126450 | 265248 | 13.87% | 0.711% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 61 | 12.489 | 1745 | 1750 | 1754 | rBV4 | 413219 | 669357 | 35.00% | 1.794% |
| 62 | 12.526 | 1754 | 1756 | 1758 | rVV2 | 73113  | 90377  | 4.73%  | 0.242% |
| 63 | 12.568 | 1759 | 1763 | 1769 | rVV3 | 201301 | 400724 | 20.95% | 1.074% |
| 64 | 12.654 | 1772 | 1777 | 1784 | rVB2 | 481498 | 890776 | 46.58% | 2.387% |
| 65 | 12.739 | 1784 | 1791 | 1794 | rBV4 | 173782 | 411028 | 21.49% | 1.101% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 66 | 12.812 | 1796 | 1803 | 1809 | rVV5 | 372065 | 992153 | 51.88% | 2.659% |
| 67 | 12.867 | 1809 | 1812 | 1817 | rVB4 | 150735 | 233745 | 12.22% | 0.626% |
| 68 | 12.953 | 1821 | 1826 | 1830 | rVB3 | 253574 | 428183 | 22.39% | 1.147% |
| 69 | 13.014 | 1830 | 1836 | 1837 | rBV4 | 115847 | 206276 | 10.79% | 0.553% |
| 70 | 13.050 | 1837 | 1842 | 1850 | rVB3 | 363355 | 774298 | 40.49% | 2.075% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 71 | 13.135 | 1852 | 1856 | 1859 | rBV3 | 129767 | 218581 | 11.43% | 0.586% |
| 72 | 13.257 | 1873 | 1876 | 1879 | rVB3 | 76014  | 93995  | 4.92%  | 0.252% |
| 73 | 13.324 | 1879 | 1887 | 1891 | rBV3 | 194293 | 441955 | 23.11% | 1.184% |
| 74 | 13.428 | 1896 | 1904 | 1912 | rVB2 | 457896 | 979625 | 51.22% | 2.625% |
| 75 | 13.501 | 1912 | 1916 | 1920 | rBV4 | 75502  | 134859 | 7.05%  | 0.361% |

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 76 | 13.562 | 1922 | 1926 | 1930 | rBV6 | 55812 | 97435 | 5.09% | 0.261% |
|----|--------|------|------|------|------|-------|-------|-------|--------|

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 MR-321-10-12

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\82Y122023S.M  
 Title : SW846 8260

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 13.678 | 1941 | 1945 | 1946 | rBV3 | 72653  | 85993  | 4.50%  | 0.230% |
| 78  | 13.751 | 1952 | 1957 | 1963 | rBV2 | 559213 | 948429 | 49.59% | 2.541% |
| 79  | 13.800 | 1963 | 1965 | 1969 | rVB2 | 45507  | 52034  | 2.72%  | 0.139% |
| 80  | 13.861 | 1971 | 1975 | 1978 | rBV4 | 64995  | 106625 | 5.58%  | 0.286% |
| 81  | 13.922 | 1983 | 1985 | 1990 | rVV6 | 54378  | 107646 | 5.63%  | 0.288% |
| 82  | 13.977 | 1990 | 1994 | 1998 | rVB3 | 97460  | 158746 | 8.30%  | 0.425% |
| 83  | 14.086 | 2006 | 2012 | 2016 | rBV4 | 205769 | 394566 | 20.63% | 1.057% |
| 84  | 14.135 | 2016 | 2020 | 2027 | rVB6 | 109037 | 220530 | 11.53% | 0.591% |
| 85  | 14.202 | 2027 | 2031 | 2037 | rBV7 | 71195  | 144779 | 7.57%  | 0.388% |
| 86  | 14.263 | 2037 | 2041 | 2043 | rBV2 | 209290 | 325598 | 17.03% | 0.872% |
| 87  | 14.336 | 2051 | 2053 | 2057 | rVB  | 76530  | 96789  | 5.06%  | 0.259% |
| 88  | 14.385 | 2057 | 2061 | 2064 | rBV2 | 155076 | 256750 | 13.43% | 0.688% |
| 89  | 14.428 | 2064 | 2068 | 2072 | rVV2 | 198582 | 315807 | 16.51% | 0.846% |
| 90  | 14.483 | 2074 | 2077 | 2082 | rVB4 | 92262  | 136688 | 7.15%  | 0.366% |
| 91  | 14.580 | 2089 | 2093 | 2096 | rBV4 | 39785  | 70074  | 3.66%  | 0.188% |
| 92  | 14.623 | 2096 | 2100 | 2104 | rVB3 | 83825  | 125362 | 6.56%  | 0.336% |
| 93  | 14.690 | 2104 | 2111 | 2115 | rBV4 | 122209 | 281307 | 14.71% | 0.754% |
| 94  | 14.739 | 2115 | 2119 | 2125 | rVB4 | 125850 | 189552 | 9.91%  | 0.508% |
| 95  | 14.879 | 2138 | 2142 | 2146 | rBV2 | 83133  | 130119 | 6.80%  | 0.349% |
| 96  | 14.952 | 2149 | 2154 | 2158 | rVB3 | 135776 | 202900 | 10.61% | 0.544% |
| 97  | 15.062 | 2167 | 2172 | 2177 | rVB3 | 84314  | 171450 | 8.97%  | 0.459% |
| 98  | 15.214 | 2192 | 2197 | 2205 | rBV5 | 56770  | 127449 | 6.66%  | 0.342% |
| 99  | 15.397 | 2224 | 2227 | 2231 | rVB3 | 41404  | 63728  | 3.33%  | 0.171% |
| 100 | 15.440 | 2231 | 2234 | 2243 | rVB9 | 25104  | 45396  | 2.37%  | 0.122% |

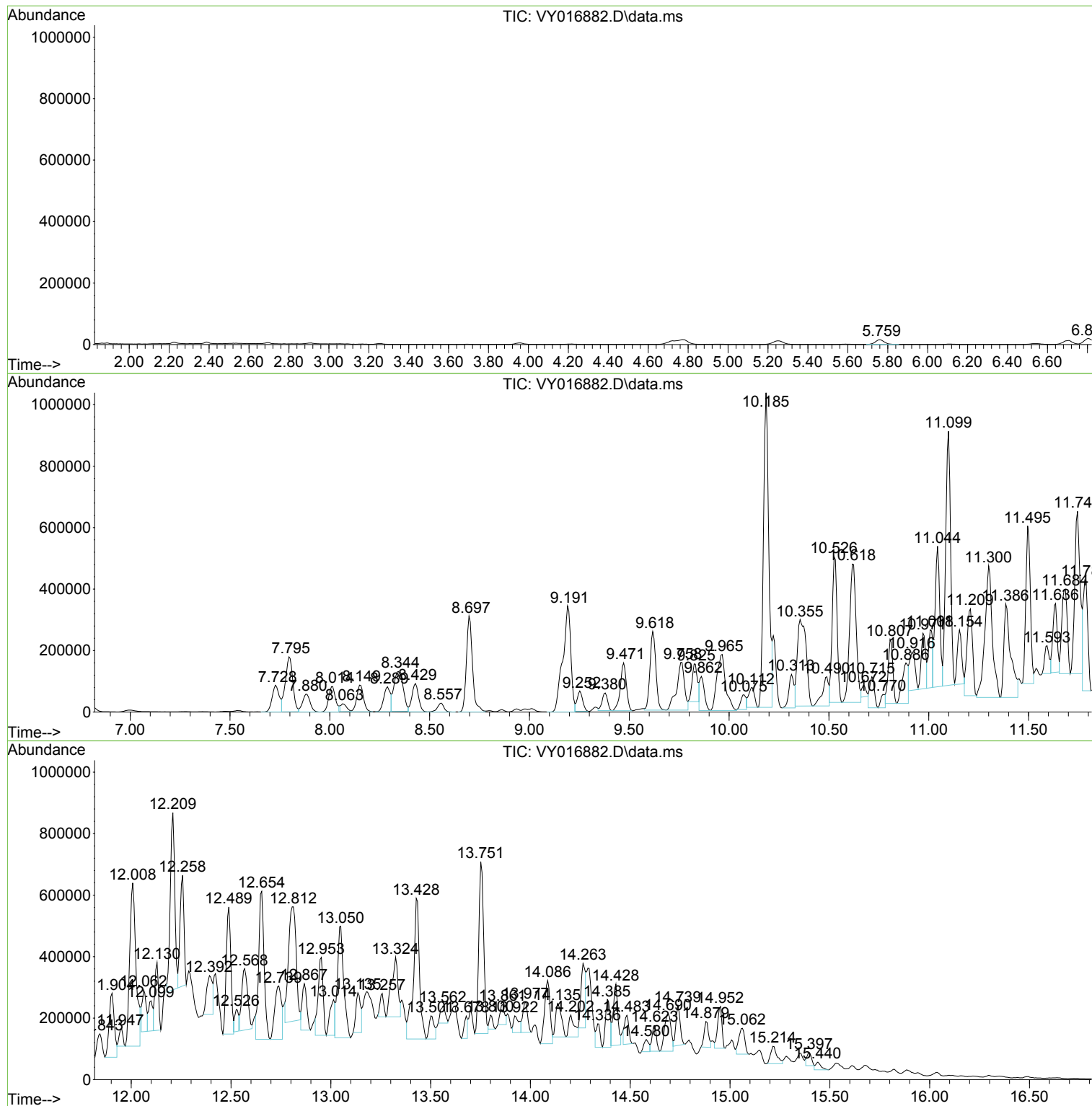
Sum of corrected areas: 37319551

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

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



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MR-321-10-12

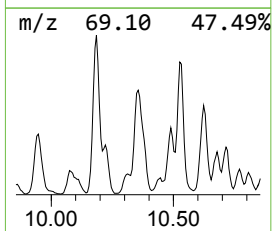
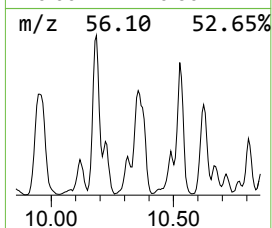
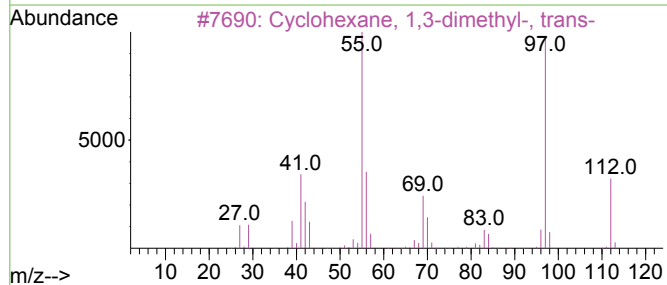
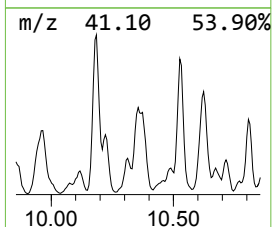
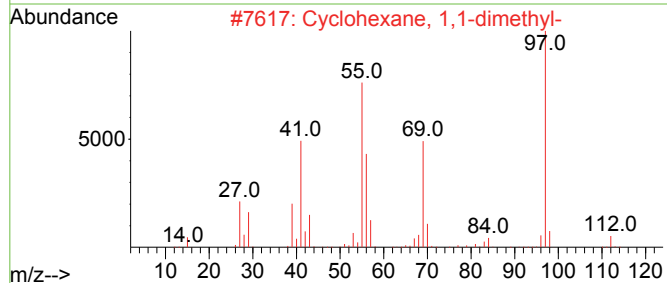
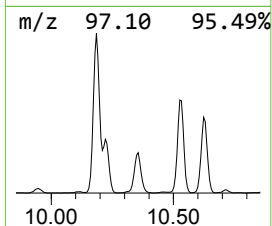
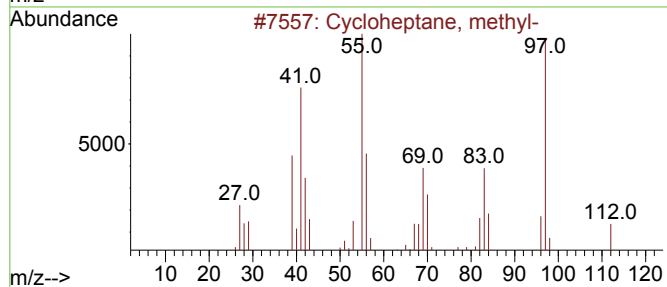
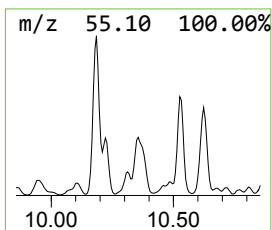
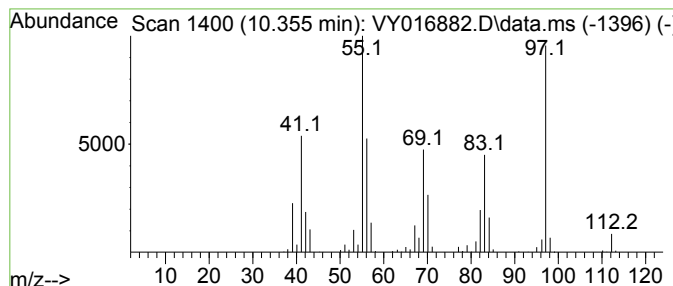
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Cycloheptane, methyl- Concentration Rank 7

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 10.355 | 52.49 ug/l | 850322 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#         | Qual |
|------|----|---|------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cycloheptane, methyl-              | 112 | C8H16   | 004126-78-7  | 90   |
| 2    |    |   | Cyclohexane, 1,1-dimethyl-         | 112 | C8H16   | 000590-66-9  | 70   |
| 3    |    |   | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16   | 002207-03-6  | 64   |
| 4    |    |   | Cyclohexane, 1,4-dimethyl-, cis-   | 112 | C8H16   | 000624-29-3  | 52   |
| 5    |    |   | 1H-Pyrazol-4-amine, 3-methyl-      | 97  | C4H7N3  | 1010338-28-2 | 49   |



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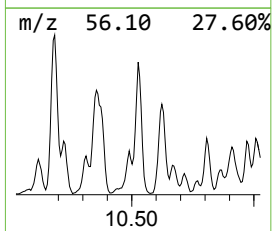
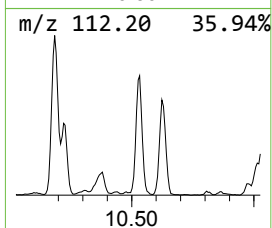
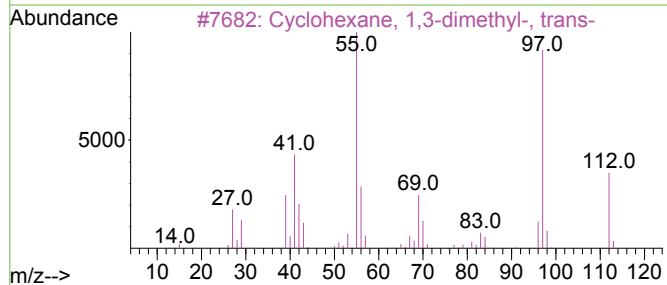
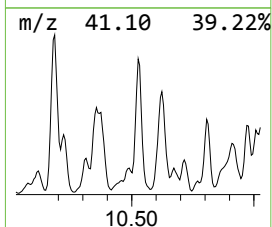
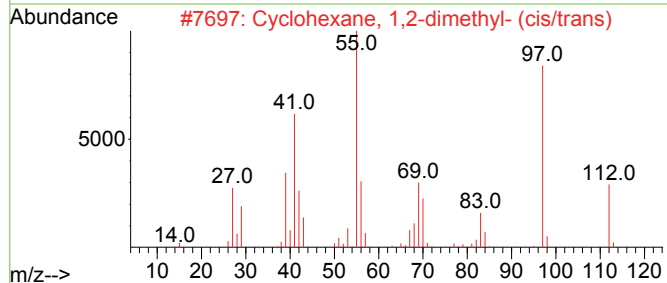
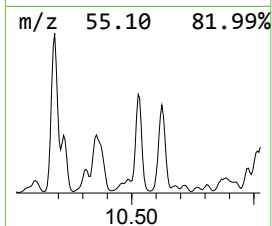
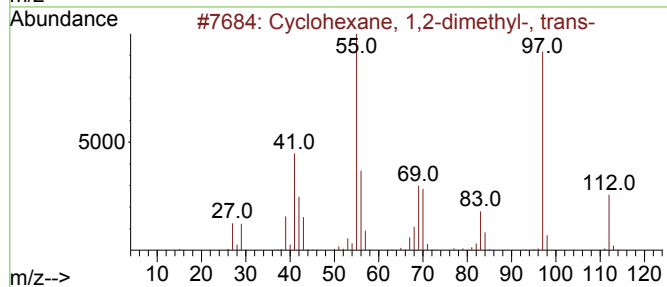
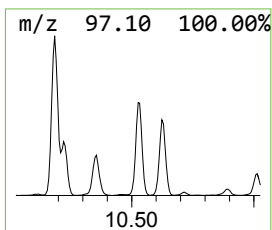
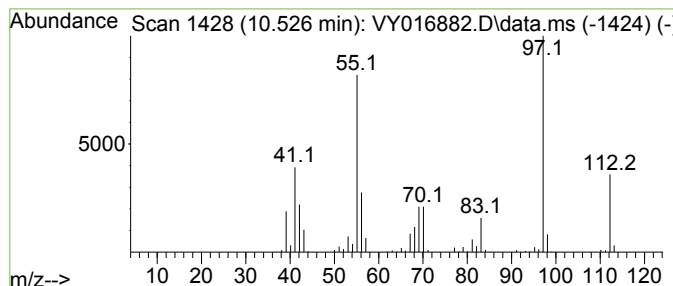
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Quant Title : SW846 8260

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

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Peak Number 2 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 9

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 10.526 | 49.77 ug/l | 806346 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 94   |
| 2    |    |   | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 91   |
| 3    |    |   | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 90   |
| 4    |    |   | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16   | 000624-29-3 | 87   |
| 5    |    |   | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16   | 002207-04-7 | 83   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

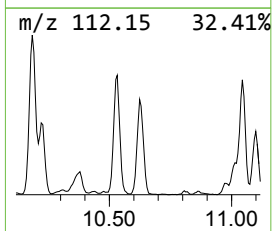
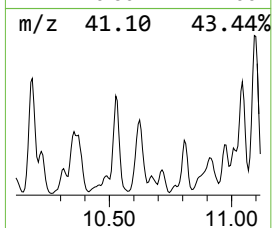
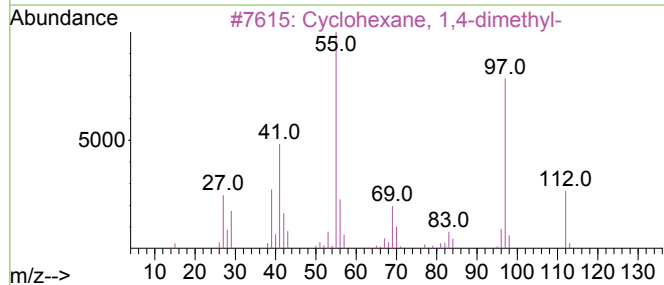
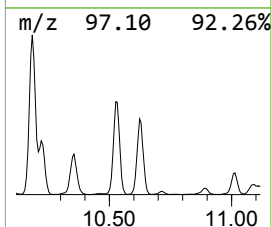
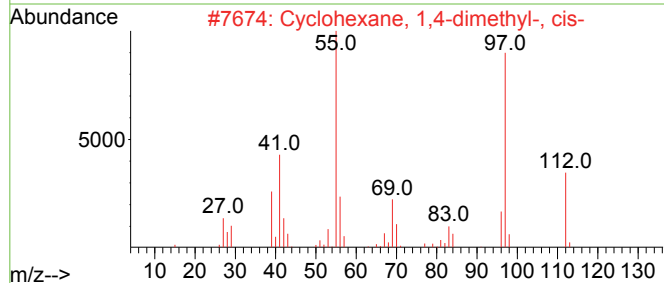
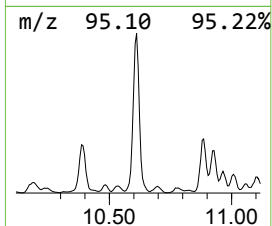
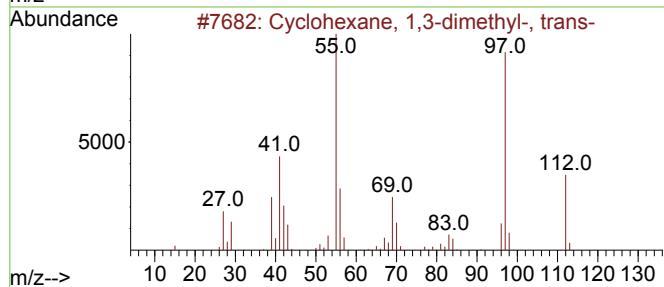
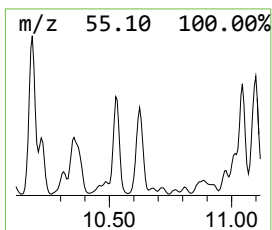
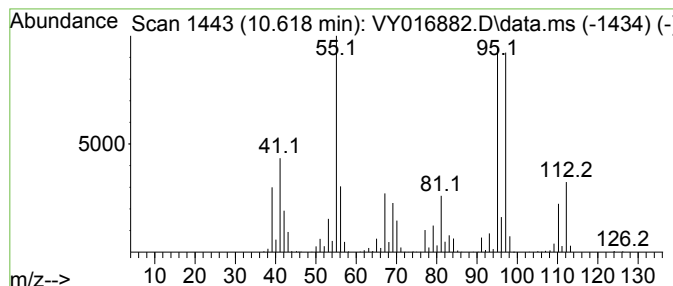
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 4

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 10.618 | 64.19 ug/l | 1039920 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16   | 002207-03-6 | 92   |
| 2    |    |   | Cyclohexane, 1,4-dimethyl-, cis-   | 112 | C8H16   | 000624-29-3 | 78   |
| 3    |    |   | Cyclohexane, 1,4-dimethyl-         | 112 | C8H16   | 000589-90-2 | 60   |
| 4    |    |   | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16   | 002207-04-7 | 55   |
| 5    |    |   | Cyclohexane, 1,3-dimethyl-, cis-   | 112 | C8H16   | 000638-04-0 | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

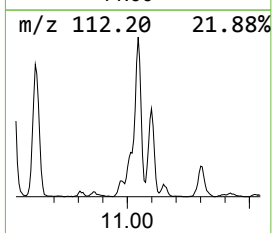
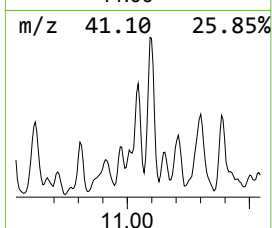
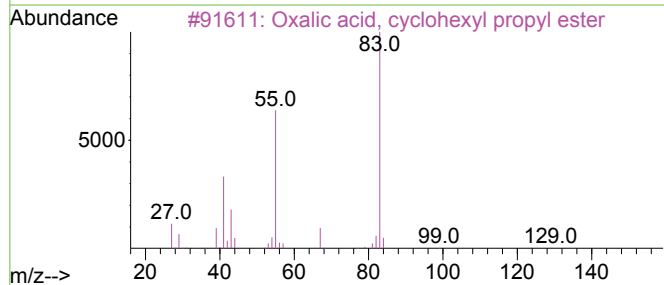
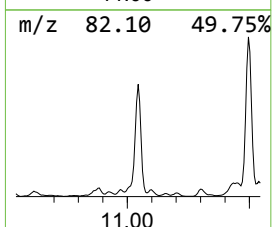
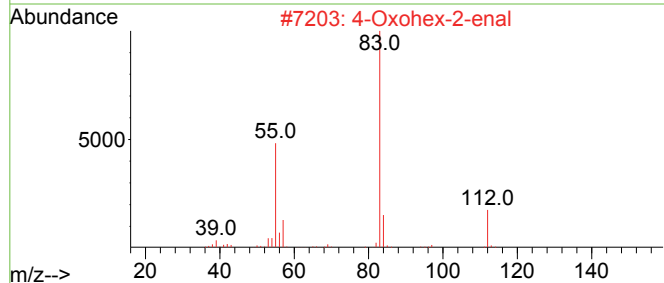
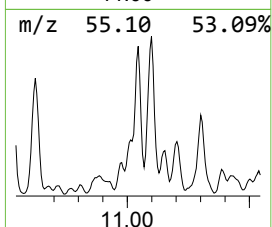
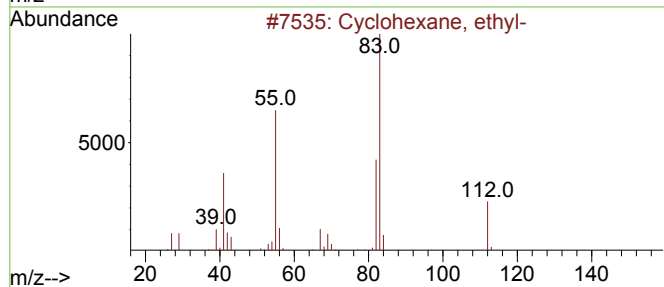
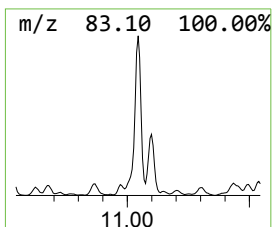
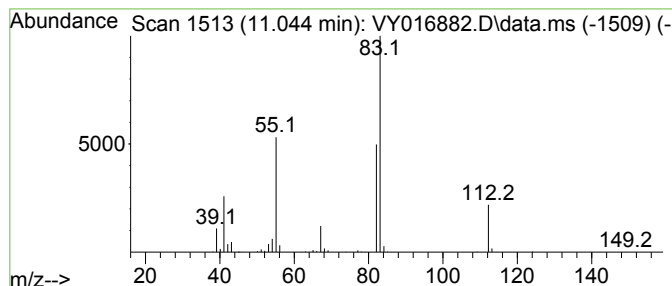
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Cyclohexane, ethyl- Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 11.044 | 46.41 ug/l | 751924 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Cyclohexane, ethyl-                 | 112 | C8H16    | 001678-91-7  | 90   |
| 2    |    |   | 4-Oxohex-2-enal                     | 112 | C6H8O2   | 020697-55-6  | 53   |
| 3    |    |   | Oxalic acid, cyclohexyl propyl e... | 214 | C11H18O4 | 1000309-30-3 | 50   |
| 4    |    |   | Hexanal 2E-hexenyl 3Z-hexenyl ac... | 282 | C18H34O2 | 1000431-43-4 | 50   |
| 5    |    |   | 2-Pyrazoline, 4-ethyl-1-methyl-     | 112 | C6H12N2  | 022581-42-6  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

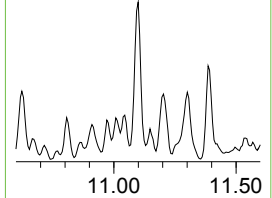
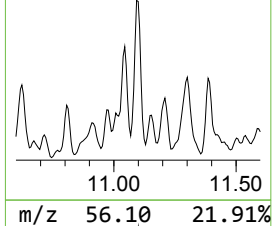
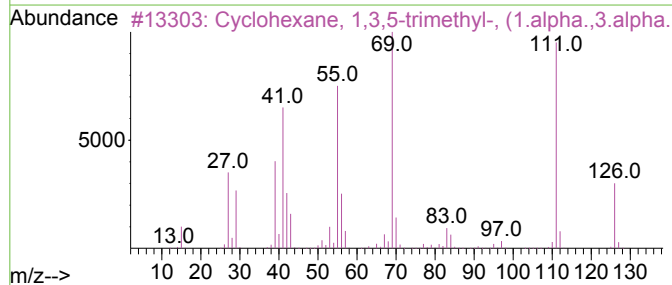
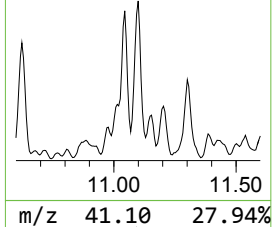
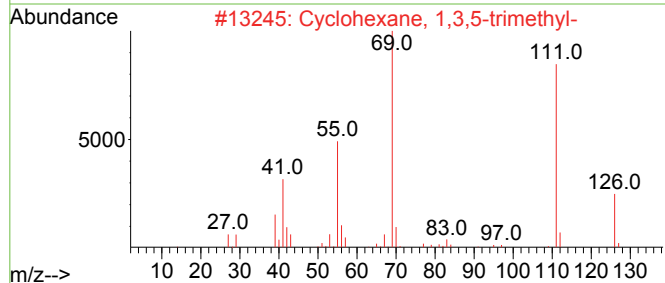
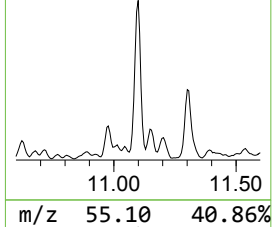
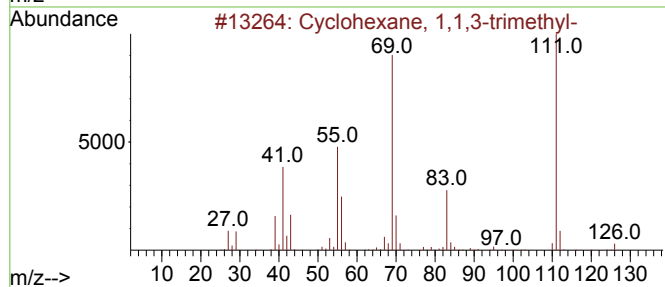
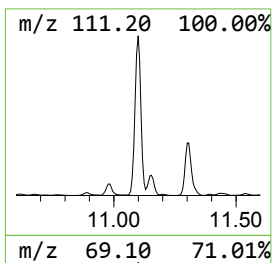
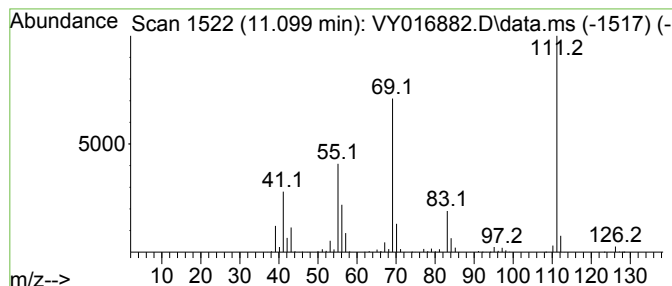
TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 11.099 | 85.85 ug/l | 1390770 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18     | 003073-66-3  | 95   |
| 2    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18     | 001839-63-0  | 59   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18     | 001795-26-2  | 50   |
| 4    |    |   | 1-Aminocyclopropanecarboxylic ac... | 156 | C7H12N2O2 | 1000375-50-8 | 50   |
| 5    |    |   | 2-Aminopyrimidine-1-oxide           | 111 | C4H5N3O   | 035034-15-2  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

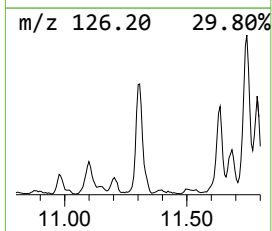
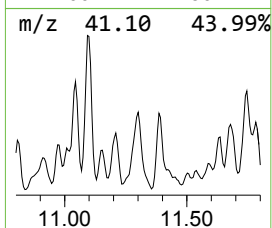
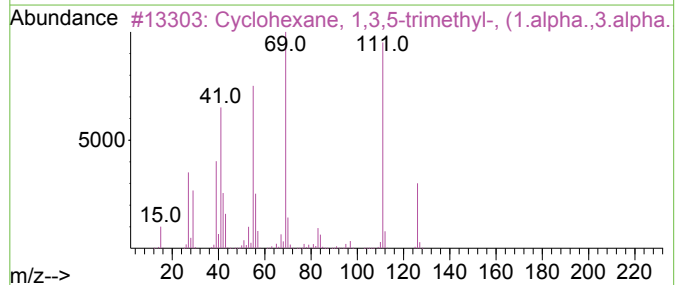
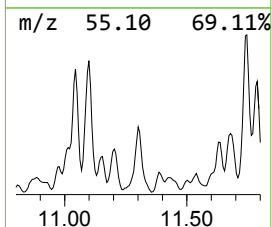
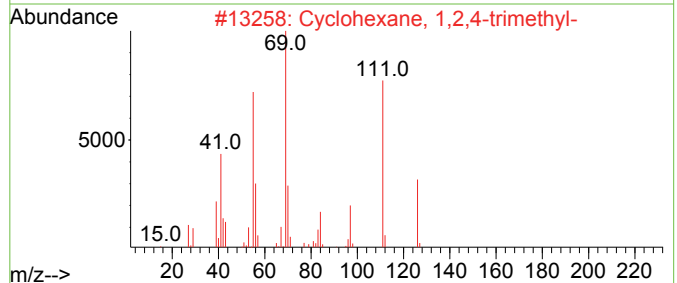
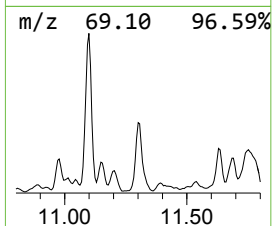
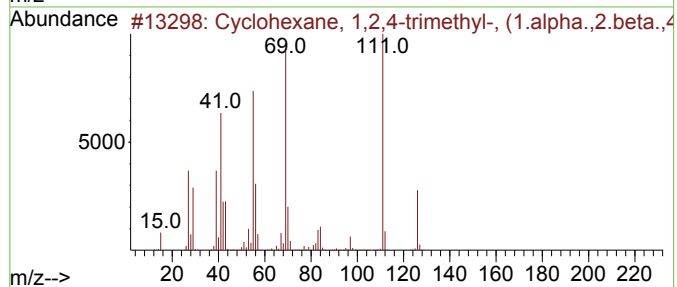
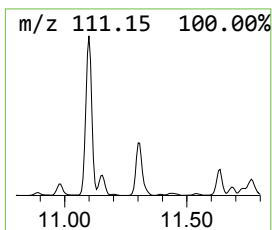
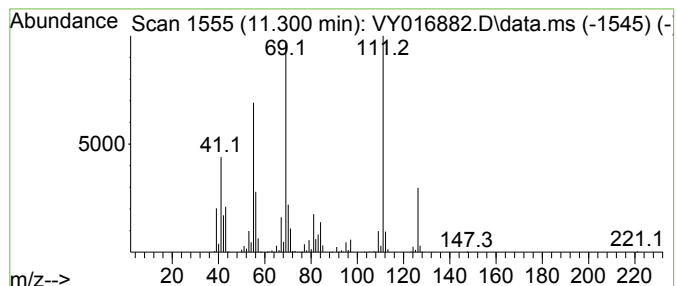
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Cyclohexane, 1,2,4-trimethyl... Concentration Rank 3

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 11.300 | 67.83 ug/l | 1098900 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 96   |
| 2    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 90   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 87   |
| 4    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 74   |
| 5    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 74   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

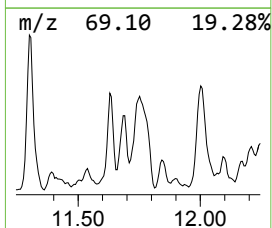
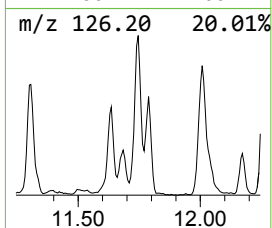
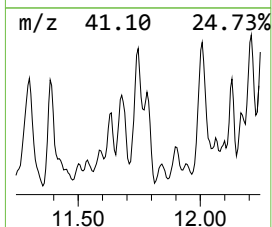
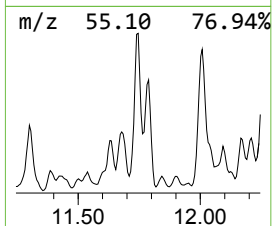
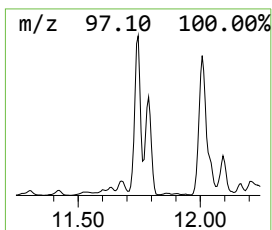
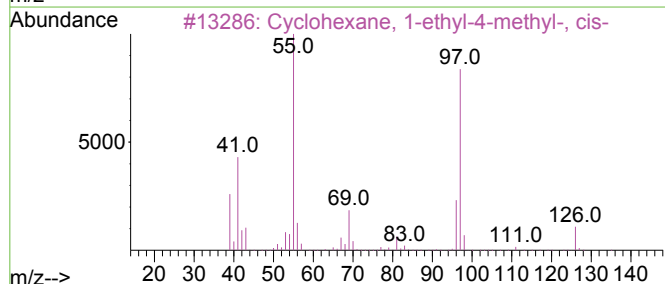
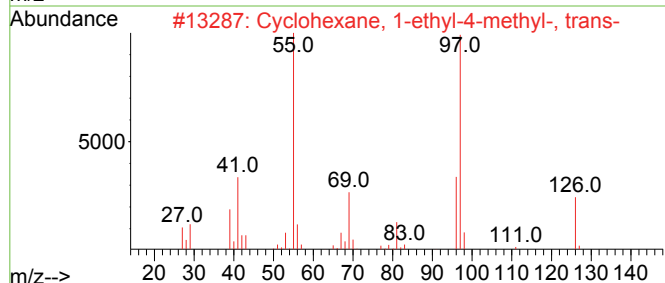
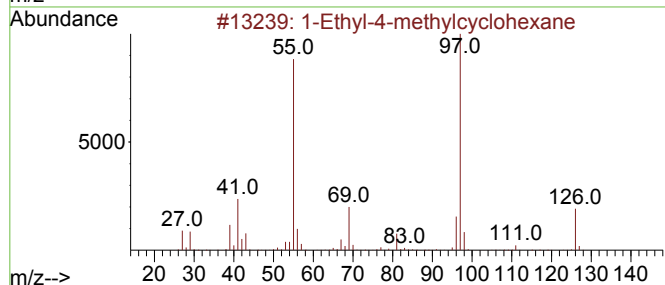
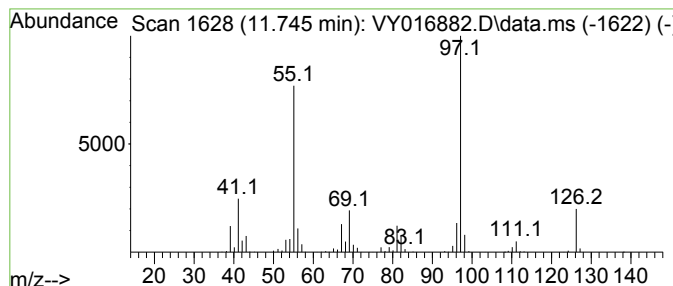
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

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

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Peak Number 7 1-Ethyl-4-methylcyclohexane Concentration Rank 5

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 11.745    | 63.49 ug/l                          | 1028660 | Chlorobenzene-d5 | 11.496      |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | 1-Ethyl-4-methylcyclohexane         | 126     | C9H18            | 003728-56-1 | 91   |
| 2         | Cyclohexane, 1-ethyl-4-methyl-, ... | 126     | C9H18            | 006236-88-0 | 90   |
| 3         | Cyclohexane, 1-ethyl-4-methyl-, ... | 126     | C9H18            | 004926-78-7 | 87   |
| 4         | cis-1-Ethyl-3-methyl-cyclohexane    | 126     | C9H18            | 019489-10-2 | 78   |
| 5         | 1-Ethyl-3-methylcyclohexane (c,t)   | 126     | C9H18            | 003728-55-0 | 70   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

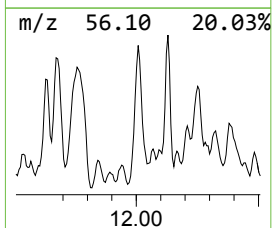
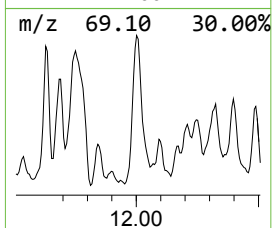
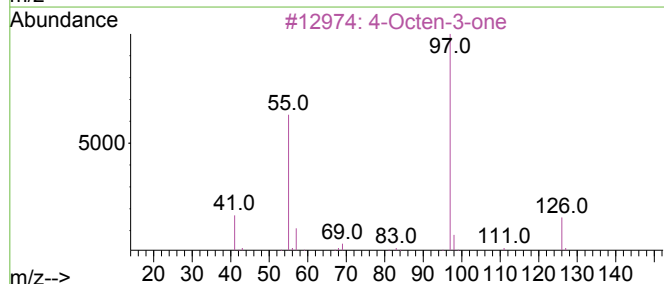
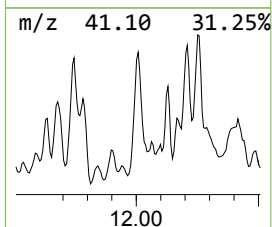
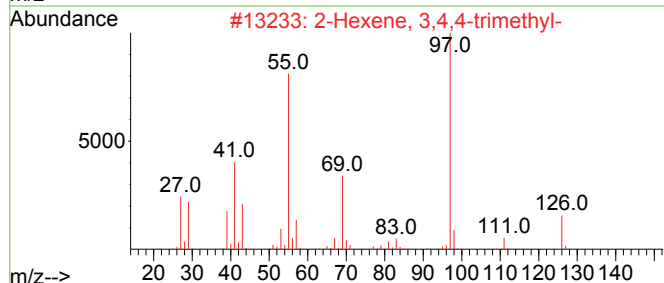
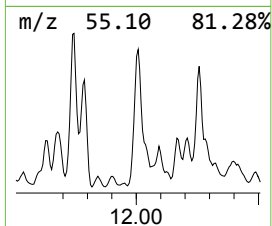
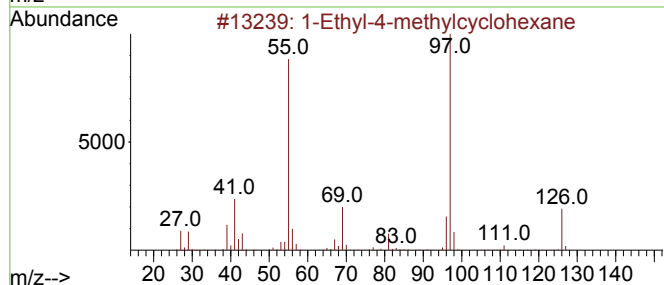
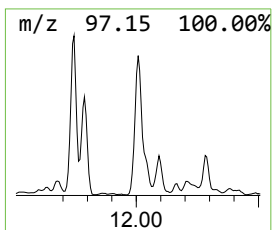
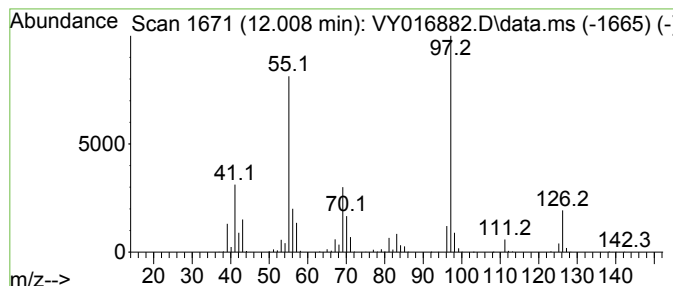
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Quant Title : SW846 8260

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

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Peak Number 8 2-Hexene, 3,4,4-trimethyl- Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 12.008 | 71.81 ug/l | 1163350 | Chlorobenzene-d5 | 11.496 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Ethyl-4-methylcyclohexane    | 126 | C9H18   | 003728-56-1 | 76   |
| 2    |    |   | 2-Hexene, 3,4,4-trimethyl-     | 126 | C9H18   | 053941-19-8 | 74   |
| 3    |    |   | 4-Octen-3-one                  | 126 | C8H14O  | 014129-48-7 | 64   |
| 4    |    |   | 3,5-Dimethyl-3-heptene         | 126 | C9H18   | 059643-68-4 | 64   |
| 5    |    |   | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18   | 003728-54-9 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

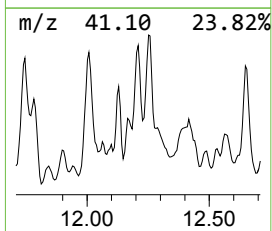
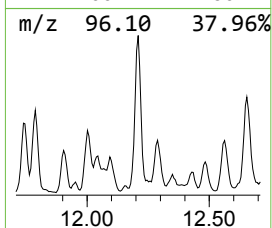
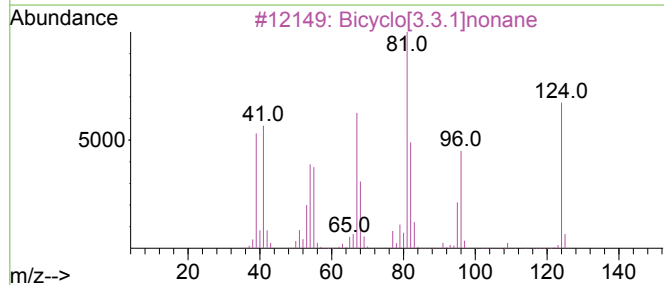
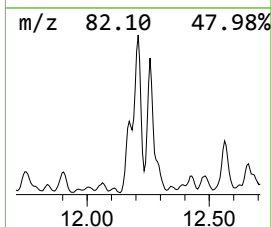
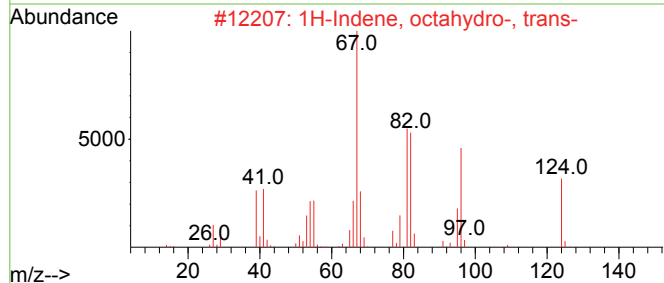
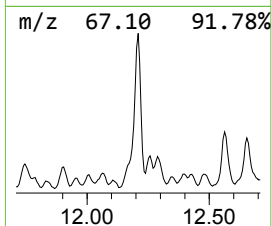
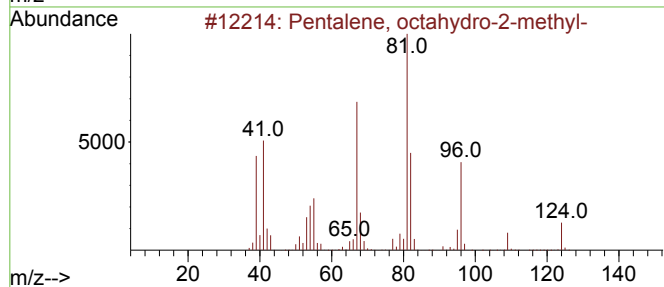
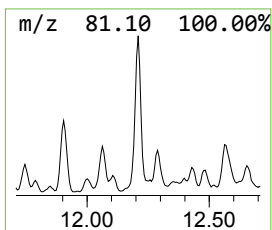
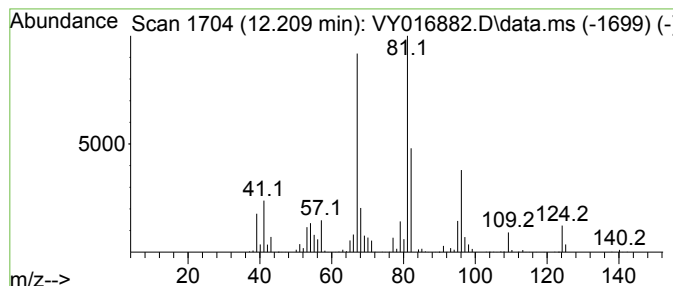
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

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

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Peak Number 9 Pentalene, octahydro-2-methyl- Concentration Rank 6

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 12.209    | 55.60 ug/l                     | 900691 | Chlorobenzene-d5 | 11.496      |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | Pentalene, octahydro-2-methyl- | 124    | C9H16            | 003868-64-2 | 91   |
| 2         | 1H-Indene, octahydro-, trans-  | 124    | C9H16            | 003296-50-2 | 58   |
| 3         | Bicyclo[3.3.1]nonane           | 124    | C9H16            | 000280-65-9 | 58   |
| 4         | 1-Isopropylcyclohex-1-ene      | 124    | C9H16            | 004292-04-0 | 58   |
| 5         | 1H-Indene, octahydro-          | 124    | C9H16            | 000496-10-6 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
Quant Title : SW846 8260

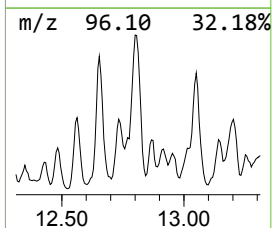
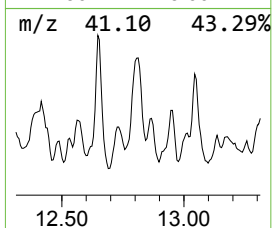
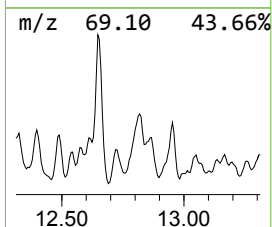
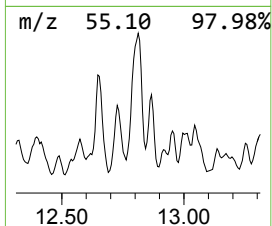
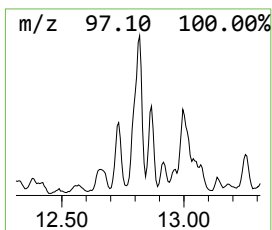
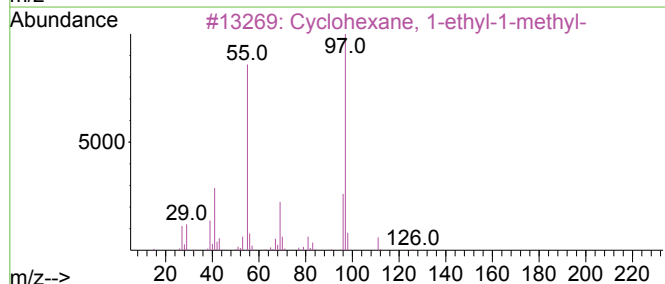
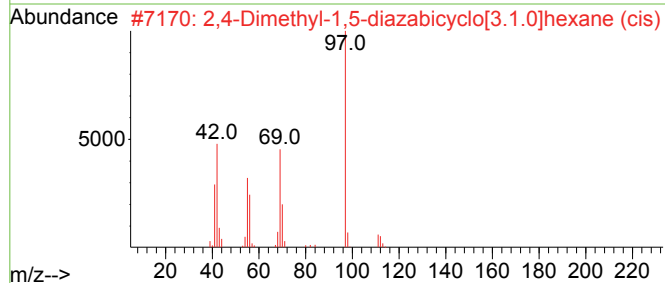
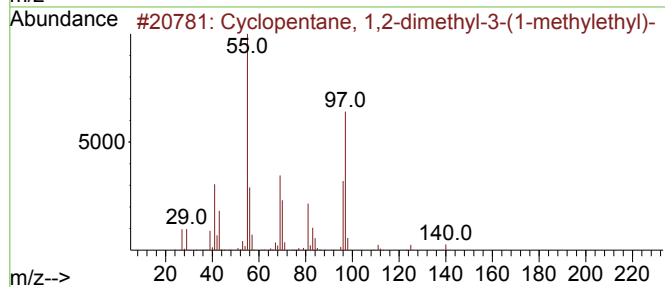
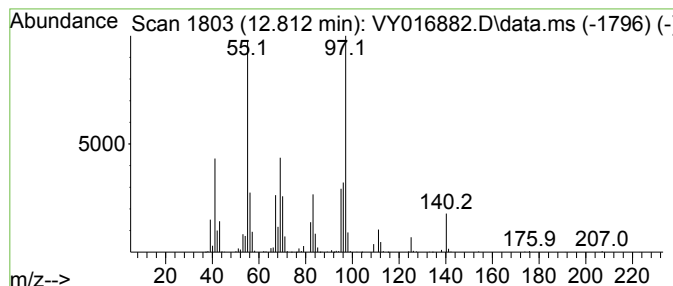
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Cyclopentane, 1,2-dimethyl-... Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.812 | 50.64 ug/l | 992153 | 1,4-Dichlorobenzene-d4 | 13.434 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentane, 1,2-dimethyl-3-(1-... | 140 | C10H20  | 000489-20-3 | 62   |
| 2    |    |   | 2,4-Dimethyl-1,5-diazabicyclo[3...  | 112 | C6H12N2 | 100463-01-2 | 53   |
| 3    |    |   | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18   | 004926-90-3 | 49   |
| 4    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16   | 000590-66-9 | 49   |
| 5    |    |   | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16   | 000624-29-3 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
Data File : VY016882.D  
Acq On : 27 Dec 2023 16:57  
Operator : SY/MD  
Sample : 06031-03  
Misc : 5.74g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MR-321-10-12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.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 |
| Cycloheptane, m... | 10.355 | 52.5    | ug/l  | 850322   | 3                     | 11.496 | 810043 | 50.0 |
| Cyclohexane, 1,... | 10.526 | 49.8    | ug/l  | 806346   | 3                     | 11.496 | 810043 | 50.0 |
| Cyclohexane, 1,... | 10.618 | 64.2    | ug/l  | 1039920  | 3                     | 11.496 | 810043 | 50.0 |
| Cyclohexane, et... | 11.044 | 46.4    | ug/l  | 751924   | 3                     | 11.496 | 810043 | 50.0 |
| Cyclohexane, 1,... | 11.099 | 85.8    | ug/l  | 1390770  | 3                     | 11.496 | 810043 | 50.0 |
| Cyclohexane, 1,... | 11.300 | 67.8    | ug/l  | 1098900  | 3                     | 11.496 | 810043 | 50.0 |
| 1-Ethyl-4-methy... | 11.745 | 63.5    | ug/l  | 1028660  | 3                     | 11.496 | 810043 | 50.0 |
| 2-Hexene, 3,4,4... | 12.008 | 71.8    | ug/l  | 1163350  | 3                     | 11.496 | 810043 | 50.0 |
| Pentalene, octa... | 12.209 | 55.6    | ug/l  | 900691   | 3                     | 11.496 | 810043 | 50.0 |
| Cyclopentane, 1... | 12.812 | 50.6    | ug/l  | 992153   | 4                     | 13.434 | 979625 | 50.0 |