

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
 Data File : VY001491.D  
 Acq On : 04 Feb 2020 16:59  
 Operator : SY/MD  
 Sample : L1363-01  
 Misc : 9.65G/5ML/MSVOA Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-06-020320

Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Title : SW846 8260

Signal : TIC

| 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         | 7.742       | 972           | 985         | 990          | rBV      | 135893         | 322357        | 1.86%           | 0.119%        |
| 2         | 7.809       | 990           | 996         | 1008         | rVB      | 233787         | 533644        | 3.08%           | 0.196%        |
| 3         | 8.163       | 1044          | 1054        | 1066         | rBV      | 137923         | 311371        | 1.80%           | 0.115%        |
| 4         | 8.705       | 1134          | 1143        | 1153         | rBV      | 386510         | 736285        | 4.25%           | 0.271%        |
| 5         | 10.187      | 1378          | 1386        | 1391         | rBV      | 692248         | 1284547       | 7.42%           | 0.473%        |
| 6         | 10.248      | 1391          | 1396        | 1402         | rVB      | 599775         | 1043793       | 6.03%           | 0.384%        |
| 7         | 10.376      | 1409          | 1417        | 1424         | rVB      | 366862         | 665818        | 3.85%           | 0.245%        |
| 8         | 10.522      | 1424          | 1441        | 1448         | rBV      | 123968         | 256341        | 1.48%           | 0.094%        |
| 9         | 10.620      | 1448          | 1457        | 1463         | rBV2     | 119264         | 235044        | 1.36%           | 0.087%        |
| 10        | 10.803      | 1477          | 1487        | 1492         | rBV      | 162610         | 262432        | 1.52%           | 0.097%        |
| 11        | 10.906      | 1498          | 1504        | 1510         | rBV2     | 99754          | 190318        | 1.10%           | 0.070%        |
| 12        | 10.973      | 1510          | 1515        | 1518         | rVV2     | 155286         | 263195        | 1.52%           | 0.097%        |
| 13        | 11.040      | 1521          | 1526        | 1530         | rVV      | 417569         | 683243        | 3.95%           | 0.251%        |
| 14        | 11.089      | 1530          | 1534        | 1540         | rVB      | 375867         | 657725        | 3.80%           | 0.242%        |
| 15        | 11.205      | 1547          | 1553        | 1557         | rBV3     | 227661         | 408744        | 2.36%           | 0.150%        |
| 16        | 11.284      | 1557          | 1566        | 1576         | rVB4     | 1000565        | 2449737       | 14.15%          | 0.902%        |
| 17        | 11.382      | 1576          | 1582        | 1587         | rBV      | 841443         | 1355038       | 7.83%           | 0.499%        |
| 18        | 11.492      | 1595          | 1600        | 1605         | rBV      | 479016         | 769558        | 4.45%           | 0.283%        |
| 19        | 11.595      | 1610          | 1617        | 1625         | rBV      | 1557295        | 3038291       | 17.55%          | 1.118%        |
| 20        | 11.711      | 1625          | 1636        | 1644         | rVV4     | 6164316        | 14467464      | 83.57%          | 5.325%        |
| 21        | 11.778      | 1644          | 1647        | 1653         | rVB      | 648565         | 1057804       | 6.11%           | 0.389%        |
| 22        | 11.930      | 1668          | 1672        | 1677         | rVB2     | 275215         | 450221        | 2.60%           | 0.166%        |
| 23        | 12.028      | 1677          | 1688        | 1696         | rBV      | 4411524        | 9688133       | 55.96%          | 3.566%        |
| 24        | 12.126      | 1700          | 1704        | 1708         | rVB      | 956515         | 1299011       | 7.50%           | 0.478%        |
| 25        | 12.162      | 1708          | 1710        | 1712         | rBV2     | 152766         | 185962        | 1.07%           | 0.068%        |
| 26        | 12.199      | 1712          | 1716        | 1719         | rVV2     | 714332         | 1212811       | 7.01%           | 0.446%        |
| 27        | 12.247      | 1719          | 1724        | 1733         | rVV4     | 1354359        | 3032098       | 17.52%          | 1.116%        |
| 28        | 12.327      | 1733          | 1737        | 1741         | rVV2     | 778632         | 1371729       | 7.92%           | 0.505%        |
| 29        | 12.388      | 1742          | 1747        | 1748         | rVV4     | 656975         | 1269558       | 7.33%           | 0.467%        |
| 30        | 12.412      | 1748          | 1751        | 1754         | rVV      | 1297418        | 2227288       | 12.87%          | 0.820%        |
| 31        | 12.443      | 1754          | 1756        | 1759         | rVB      | 1273568        | 1308947       | 7.56%           | 0.482%        |
| 32        | 12.485      | 1759          | 1763        | 1766         | rBV3     | 379093         | 532931        | 3.08%           | 0.196%        |
| 33        | 12.522      | 1766          | 1769        | 1774         | rVV      | 1127269        | 1535304       | 8.87%           | 0.565%        |
| 34        | 12.571      | 1774          | 1777        | 1781         | rVB4     | 212311         | 300074        | 1.73%           | 0.110%        |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-06-020320

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |         |        |
|----|--------|------|------|------|------|----------|----------|---------|--------|
| 35 | 12.668 | 1785 | 1793 | 1798 | rVB  | 1933657  | 3902136  | 22.54%  | 1.436% |
| 36 | 12.735 | 1798 | 1804 | 1807 | rBV  | 5602382  | 9304273  | 53.75%  | 3.424% |
| 37 | 12.766 | 1807 | 1809 | 1812 | rVV  | 2990931  | 4518153  | 26.10%  | 1.663% |
| 38 | 12.808 | 1812 | 1816 | 1822 | rVV2 | 10469758 | 17311217 | 100.00% | 6.371% |
| 39 | 12.863 | 1822 | 1825 | 1830 | rVB2 | 922083   | 1312160  | 7.58%   | 0.483% |
| 40 | 12.918 | 1830 | 1834 | 1835 | rBV3 | 151466   | 207670   | 1.20%   | 0.076% |
| 41 | 12.973 | 1835 | 1843 | 1848 | rBV  | 3959489  | 7552284  | 43.63%  | 2.780% |
| 42 | 13.040 | 1850 | 1854 | 1860 | rVB2 | 2433507  | 3713136  | 21.45%  | 1.367% |
| 43 | 13.119 | 1860 | 1867 | 1873 | rBV  | 8693540  | 14112623 | 81.52%  | 5.194% |
| 44 | 13.168 | 1873 | 1875 | 1880 | rVV2 | 449059   | 588488   | 3.40%   | 0.217% |
| 45 | 13.229 | 1880 | 1885 | 1886 | rVV2 | 649097   | 893759   | 5.16%   | 0.329% |
| 46 | 13.253 | 1886 | 1889 | 1893 | rVB2 | 986789   | 1407575  | 8.13%   | 0.518% |
| 47 | 13.320 | 1893 | 1900 | 1904 | rBV3 | 2704430  | 5213871  | 30.12%  | 1.919% |
| 48 | 13.369 | 1904 | 1908 | 1911 | rVV3 | 1840337  | 2952074  | 17.05%  | 1.087% |
| 49 | 13.400 | 1911 | 1913 | 1915 | rVV  | 918896   | 1080865  | 6.24%   | 0.398% |
| 50 | 13.461 | 1915 | 1923 | 1927 | rVV  | 5314743  | 10447560 | 60.35%  | 3.845% |
| 51 | 13.503 | 1927 | 1930 | 1936 | rVB2 | 1157932  | 1478577  | 8.54%   | 0.544% |
| 52 | 13.595 | 1941 | 1945 | 1946 | rBV  | 786036   | 930679   | 5.38%   | 0.343% |
| 53 | 13.625 | 1946 | 1950 | 1954 | rVV2 | 3827904  | 5002317  | 28.90%  | 1.841% |
| 54 | 13.668 | 1954 | 1957 | 1966 | rVB3 | 3650630  | 7220484  | 41.71%  | 2.657% |
| 55 | 13.753 | 1966 | 1971 | 1976 | rBV  | 7585294  | 11757722 | 67.92%  | 4.327% |
| 56 | 13.826 | 1976 | 1983 | 1989 | rBV  | 1855624  | 3174907  | 18.34%  | 1.169% |
| 57 | 13.887 | 1989 | 1993 | 1995 | rBV  | 1700965  | 2362487  | 13.65%  | 0.870% |
| 58 | 13.918 | 1995 | 1998 | 2003 | rVB2 | 2782188  | 3872861  | 22.37%  | 1.425% |
| 59 | 13.973 | 2003 | 2007 | 2012 | rVB  | 3216385  | 4697136  | 27.13%  | 1.729% |
| 60 | 14.028 | 2012 | 2016 | 2020 | rVB2 | 845791   | 1421537  | 8.21%   | 0.523% |
| 61 | 14.083 | 2020 | 2025 | 2030 | rVB  | 3689998  | 5806900  | 33.54%  | 2.137% |
| 62 | 14.150 | 2030 | 2036 | 2041 | rBV5 | 744099   | 1894641  | 10.94%  | 0.697% |
| 63 | 14.217 | 2041 | 2047 | 2050 | rBV2 | 1502939  | 3041814  | 17.57%  | 1.120% |
| 64 | 14.265 | 2051 | 2055 | 2059 | rBV4 | 538426   | 1115447  | 6.44%   | 0.411% |
| 65 | 14.339 | 2064 | 2067 | 2071 | rVB  | 2807714  | 3934134  | 22.73%  | 1.448% |
| 66 | 14.387 | 2071 | 2075 | 2078 | rBV  | 1670586  | 2192365  | 12.66%  | 0.807% |
| 67 | 14.424 | 2078 | 2081 | 2085 | rVB2 | 1157589  | 1430916  | 8.27%   | 0.527% |
| 68 | 14.485 | 2088 | 2091 | 2093 | rBV3 | 216653   | 271102   | 1.57%   | 0.100% |
| 69 | 14.528 | 2094 | 2098 | 2101 | rVB  | 838689   | 1136922  | 6.57%   | 0.418% |
| 70 | 14.570 | 2101 | 2105 | 2108 | rBV  | 1702567  | 2709048  | 15.65%  | 0.997% |
| 71 | 14.613 | 2108 | 2112 | 2117 | rVB  | 4670245  | 7030511  | 40.61%  | 2.588% |

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Instrument :  
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 ClientSampleId :  
 HR-06-020320

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 Peak Location: TOP

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
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|    |        |      |      |      |      |         |          |        |        |
|----|--------|------|------|------|------|---------|----------|--------|--------|
| 72 | 14.680 | 2117 | 2123 | 2129 | rBV3 | 4683342 | 10768461 | 62.21% | 3.963% |
| 73 | 14.735 | 2129 | 2132 | 2139 | rVB2 | 2002042 | 3416163  | 19.73% | 1.257% |
| 74 | 14.838 | 2139 | 2149 | 2157 | rBV  | 3120748 | 5502594  | 31.79% | 2.025% |
| 75 | 14.912 | 2158 | 2161 | 2162 | rBV2 | 347474  | 384522   | 2.22%  | 0.142% |
| 76 | 14.948 | 2163 | 2167 | 2170 | rVV3 | 1277100 | 2006836  | 11.59% | 0.739% |
| 77 | 14.985 | 2170 | 2173 | 2179 | rVB2 | 721595  | 972759   | 5.62%  | 0.358% |
| 78 | 15.058 | 2179 | 2185 | 2190 | rBV4 | 1600180 | 3309822  | 19.12% | 1.218% |
| 79 | 15.143 | 2196 | 2199 | 2204 | rVB4 | 1011115 | 1593504  | 9.21%  | 0.586% |
| 80 | 15.216 | 2205 | 2211 | 2219 | rVV3 | 1527490 | 3337392  | 19.28% | 1.228% |
| 81 | 15.296 | 2219 | 2224 | 2228 | rVV  | 1346095 | 2147681  | 12.41% | 0.790% |
| 82 | 15.351 | 2228 | 2233 | 2240 | rVV3 | 1087691 | 3298440  | 19.05% | 1.214% |
| 83 | 15.442 | 2244 | 2248 | 2255 | rVB  | 2824145 | 4573131  | 26.42% | 1.683% |
| 84 | 15.533 | 2256 | 2263 | 2270 | rBV5 | 926934  | 2509718  | 14.50% | 0.924% |
| 85 | 15.613 | 2270 | 2276 | 2280 | rVB6 | 538911  | 1000860  | 5.78%  | 0.368% |
| 86 | 15.698 | 2286 | 2290 | 2291 | rBV2 | 330268  | 514831   | 2.97%  | 0.189% |
| 87 | 15.735 | 2291 | 2296 | 2303 | rVB  | 1998850 | 3708772  | 21.42% | 1.365% |
| 88 | 15.893 | 2316 | 2322 | 2333 | rVB4 | 566292  | 1417223  | 8.19%  | 0.522% |
| 89 | 16.039 | 2339 | 2346 | 2351 | rBV2 | 1299393 | 2786002  | 16.09% | 1.025% |
| 90 | 16.161 | 2362 | 2366 | 2371 | rBV  | 314487  | 534502   | 3.09%  | 0.197% |
| 91 | 16.235 | 2372 | 2378 | 2384 | rVV  | 827184  | 1748035  | 10.10% | 0.643% |
| 92 | 16.296 | 2384 | 2388 | 2394 | rVV4 | 511743  | 960640   | 5.55%  | 0.354% |
| 93 | 16.369 | 2395 | 2400 | 2410 | rVB  | 537168  | 1100814  | 6.36%  | 0.405% |
| 94 | 16.497 | 2414 | 2421 | 2427 | rBV6 | 380518  | 1124991  | 6.50%  | 0.414% |
| 95 | 16.631 | 2439 | 2443 | 2453 | rVB4 | 220490  | 580033   | 3.35%  | 0.213% |

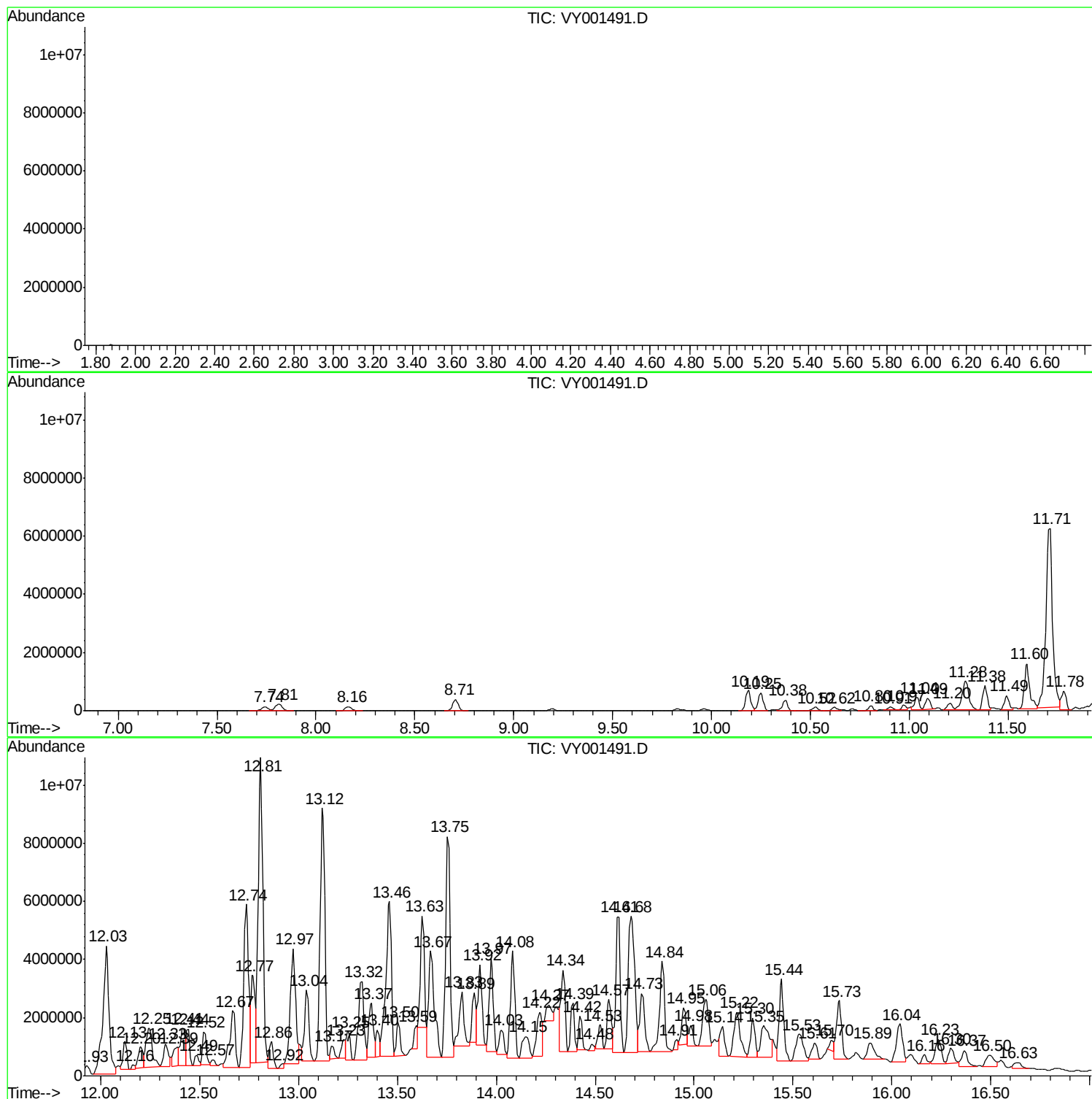
Sum of corrected areas: 271704893

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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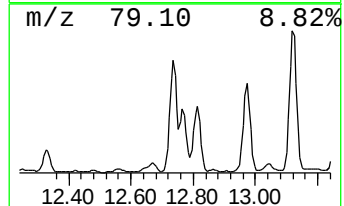
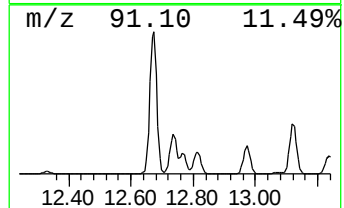
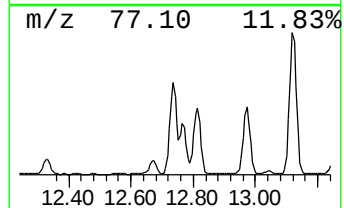
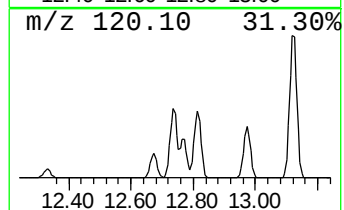
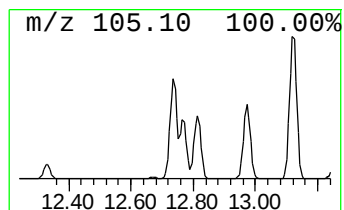
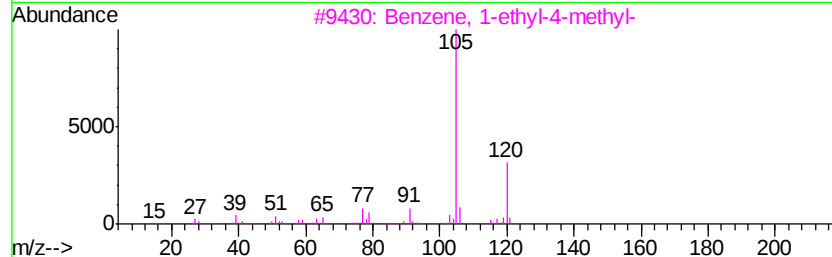
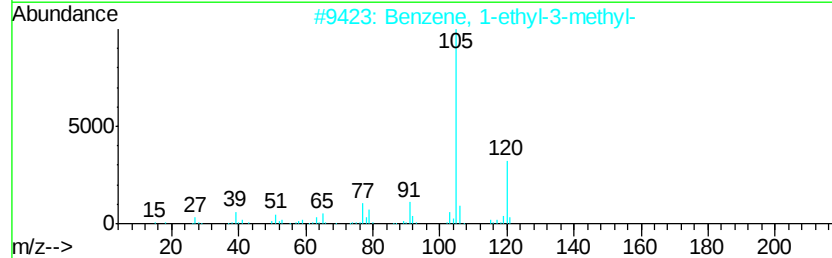
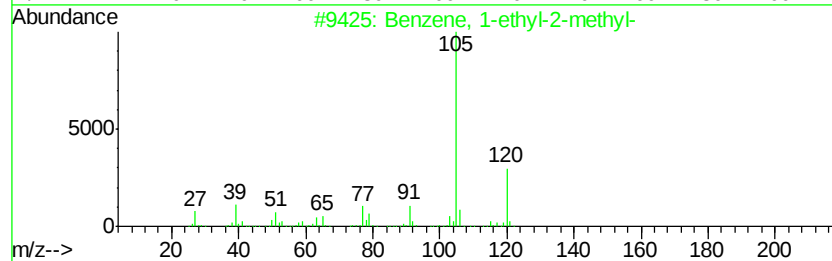
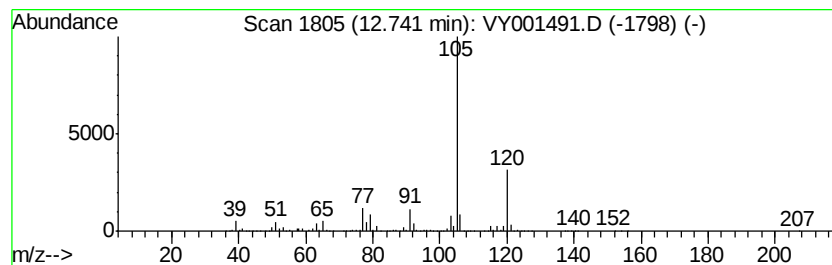
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.74 | 430.41 ug/l | 9304270 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 4    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 5    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |



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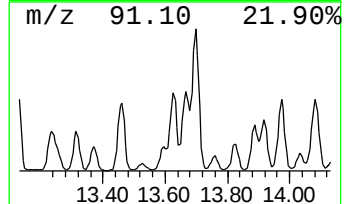
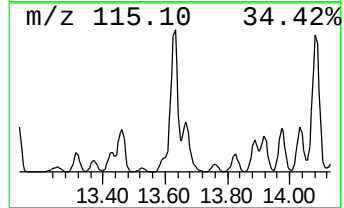
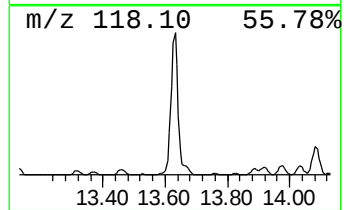
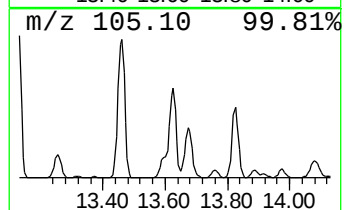
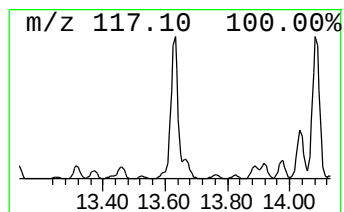
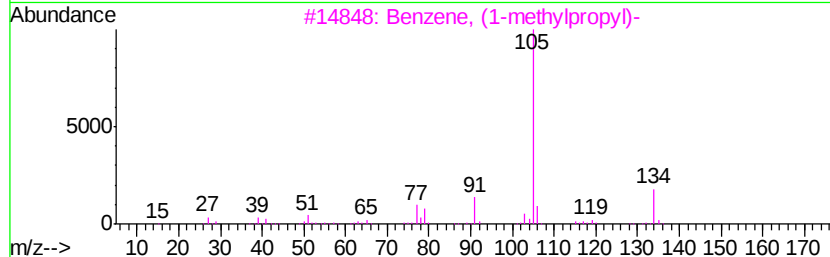
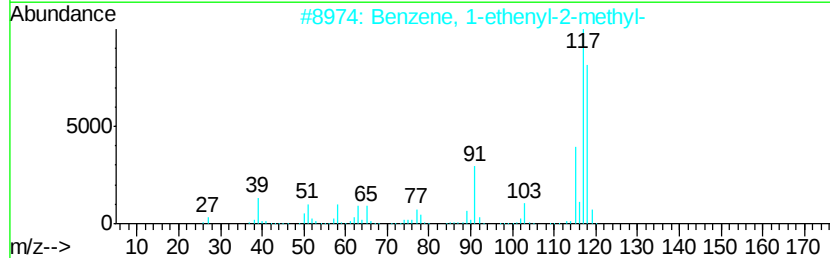
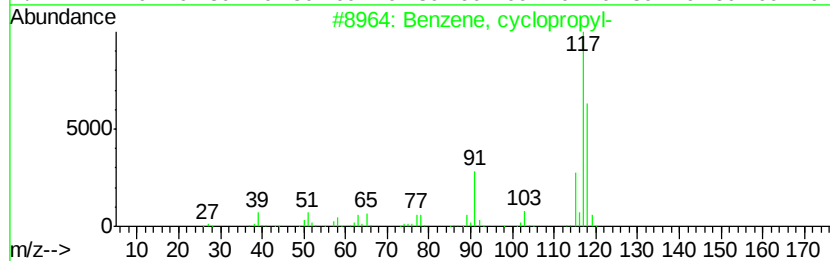
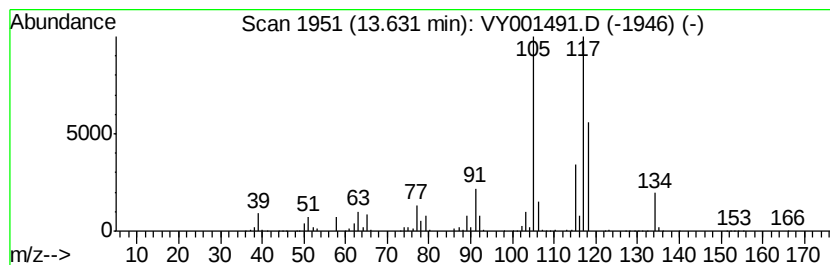
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, cyclopropyl- Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.63 | 231.40 ug/l | 5002320 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, cvclopropyl-        | 118 | C9H10   | 000873-49-4 | 55   |
| 2    |    | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 55   |
| 3    |    | Benzene, (1-methylpropyl)-   | 134 | C10H14  | 000135-98-8 | 46   |
| 4    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 46   |
| 5    |    | Benzene, 2-propenyl-         | 118 | C9H10   | 000300-57-2 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

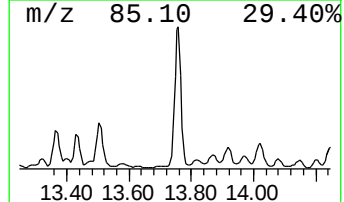
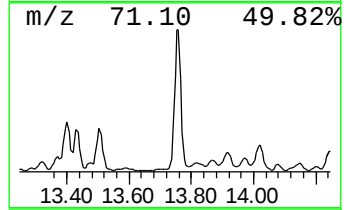
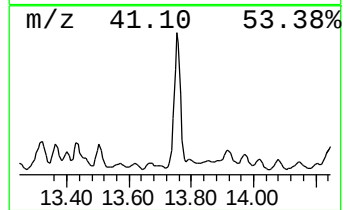
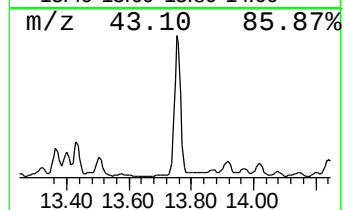
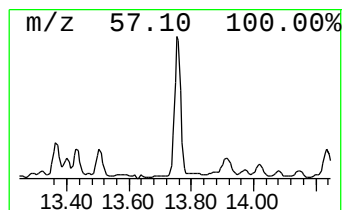
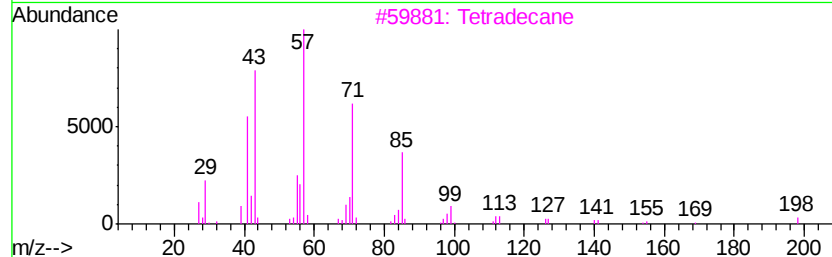
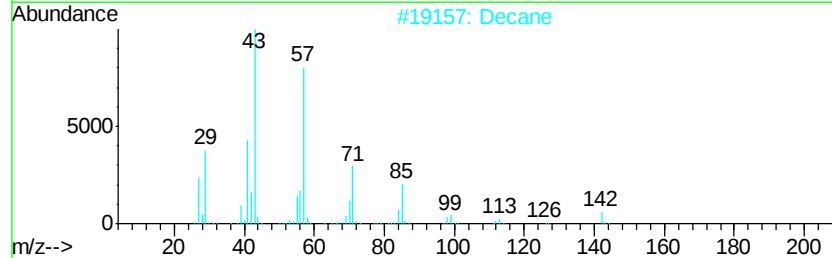
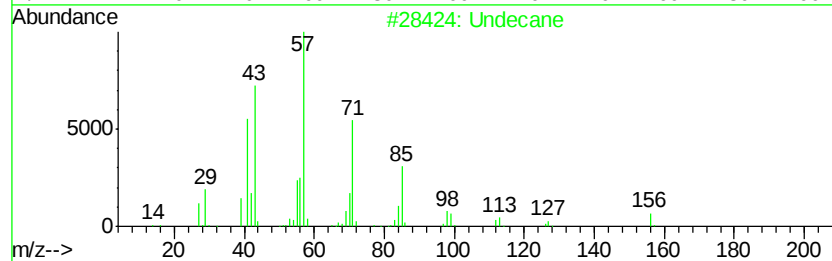
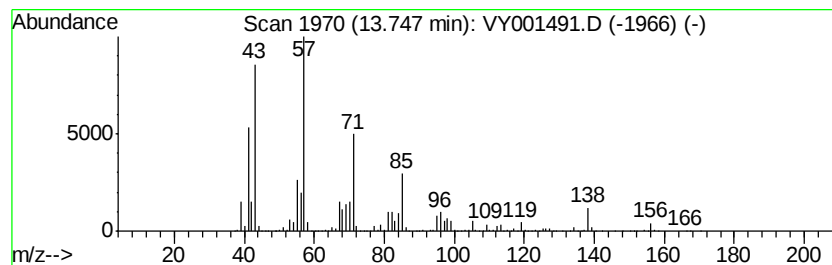
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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Undecane Concentration Rank 1

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 13.75 | 543.90 ug/l | 11757700 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane              |              | 156 | C11H24  | 001120-21-4 | 94   |
| 2       | Decane                |              | 142 | C10H22  | 000124-18-5 | 87   |
| 3       | Tetradecane           |              | 198 | C14H30  | 000629-59-4 | 80   |
| 4       | Octane, 3,5-dimethyl- |              | 142 | C10H22  | 015869-93-9 | 72   |
| 5       | Hexadecane            |              | 226 | C16H34  | 000544-76-3 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

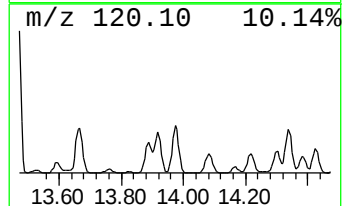
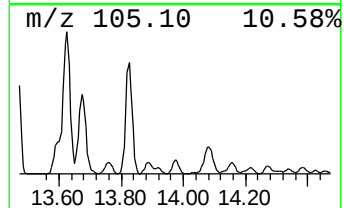
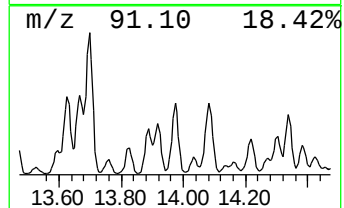
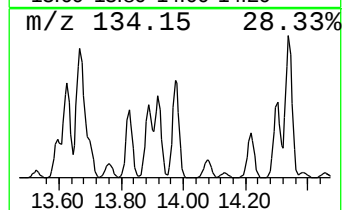
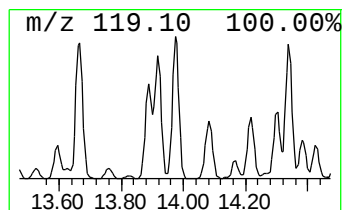
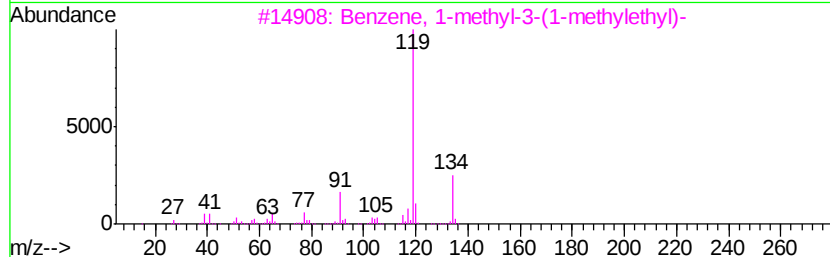
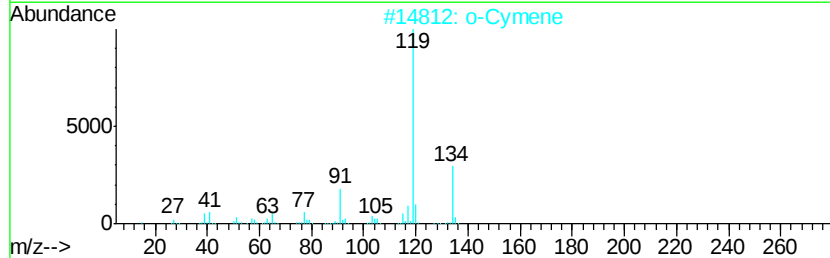
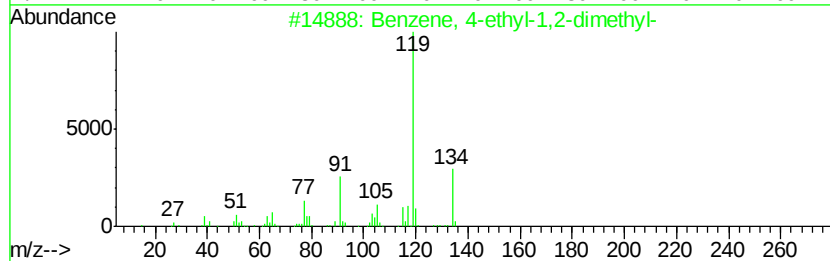
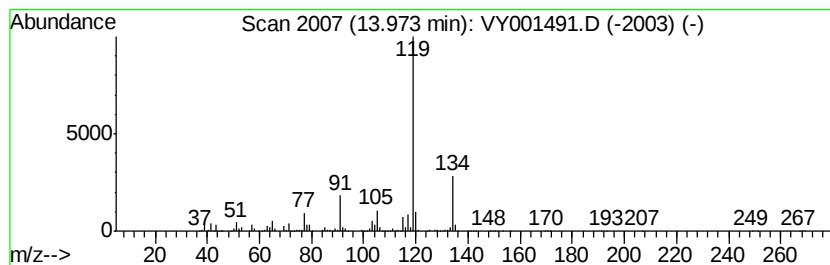
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.97 | 217.29 ug/l | 4697140 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 97   |
| 2       |   | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 95   |
| 3       |   | Benzene, 1-methyl-3-(1-methylethyl-) | 134 | C10H14  | 000535-77-3 | 95   |
| 4       |   | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 95   |
| 5       |   | Benzene, 1-ethyl-2,3-dimethyl-       | 134 | C10H14  | 000933-98-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

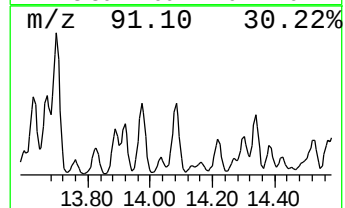
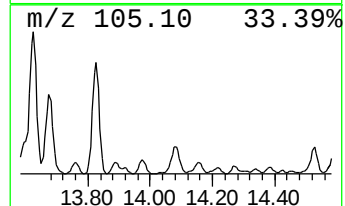
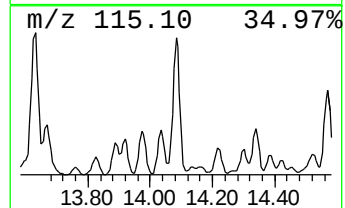
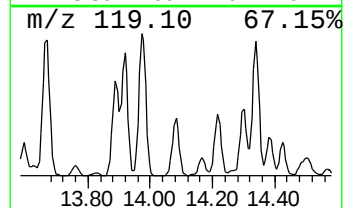
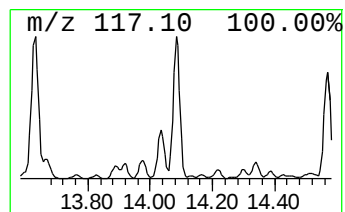
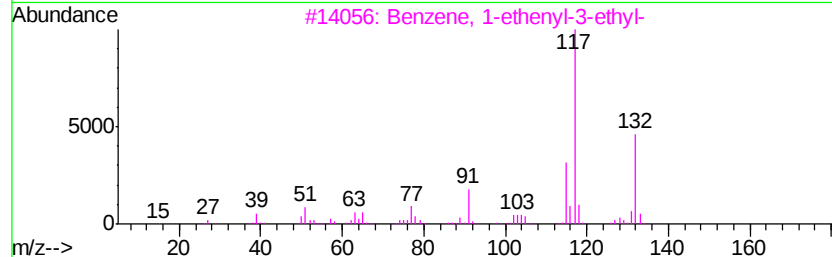
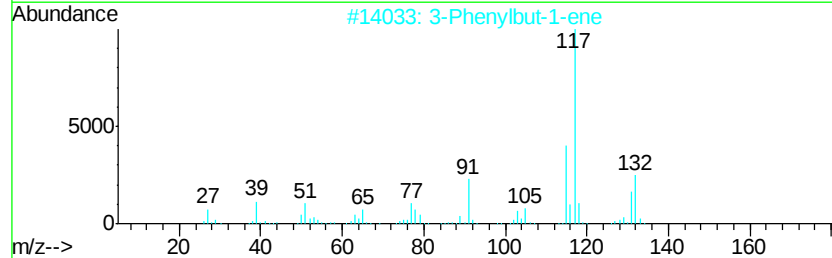
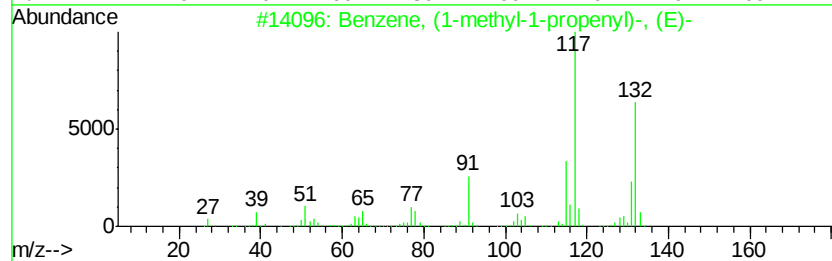
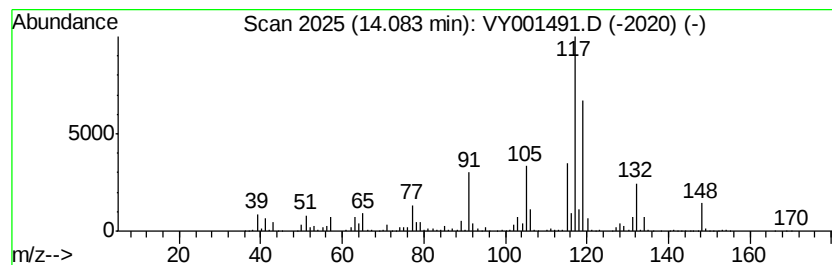
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, (1-methyl-1-propen... Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.08 | 268.62 ug/l | 5806900 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methyl-1-propenyl)-, ... | 132 | C10H12  | 000768-00-3 | 78   |
| 2    |    | 3-Phenylbut-1-ene                    | 132 | C10H12  | 000934-10-1 | 64   |
| 3    |    | Benzene, 1-ethenyl-3-ethyl-          | 132 | C10H12  | 007525-62-4 | 64   |
| 4    |    | Benzene, 1-methyl-2-(2-propenyl)-    | 132 | C10H12  | 001587-04-8 | 64   |
| 5    |    | 1-Phenyl-1-butene                    | 132 | C10H12  | 000824-90-8 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

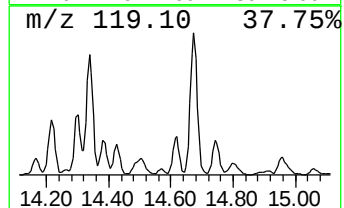
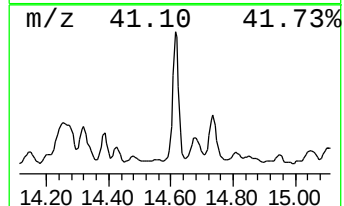
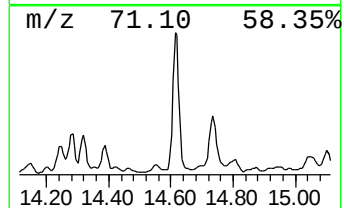
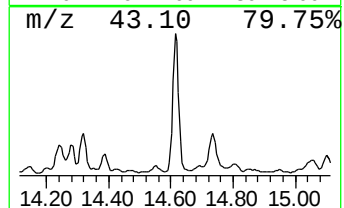
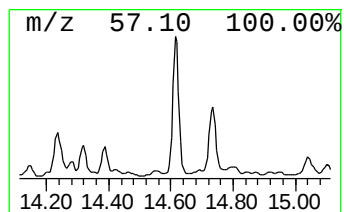
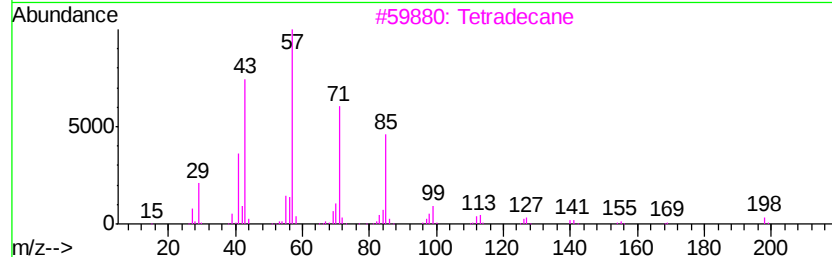
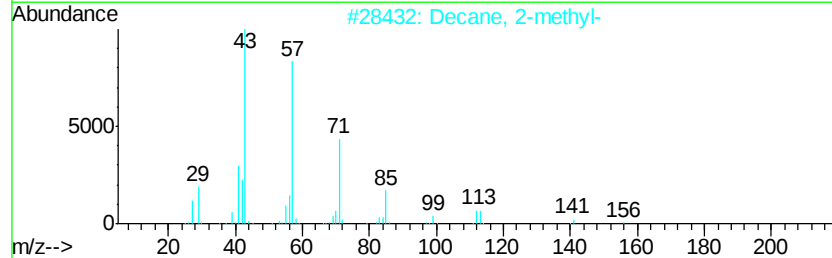
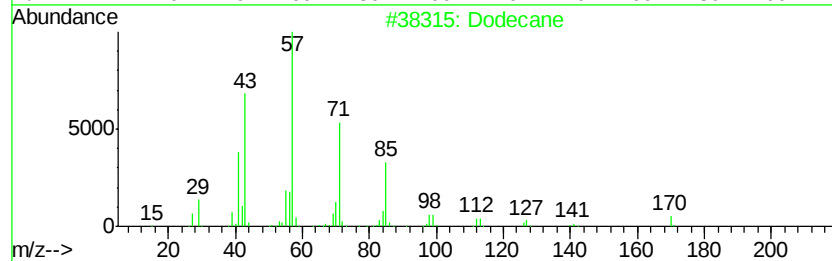
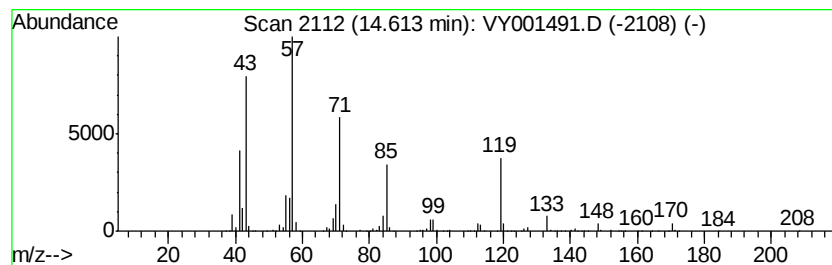
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Dodecane Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.61 | 325.23 ug/l | 7030510 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|---------|-------------------|-----|---------|-------------|------|
| 1       | Dodecane          | 170 | C12H26  | 000112-40-3 | 86   |
| 2       | Decane, 2-methyl- | 156 | C11H24  | 006975-98-0 | 60   |
| 3       | Tetradecane       | 198 | C14H30  | 000629-59-4 | 58   |
| 4       | Tridecane         | 184 | C13H28  | 000629-50-5 | 58   |
| 5       | Undecane          | 156 | C11H24  | 001120-21-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

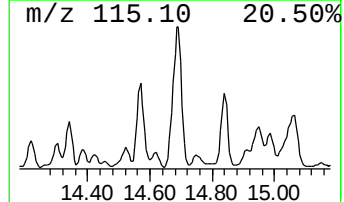
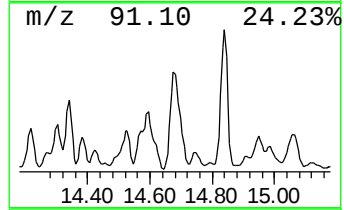
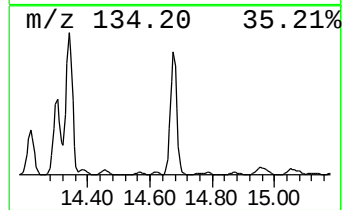
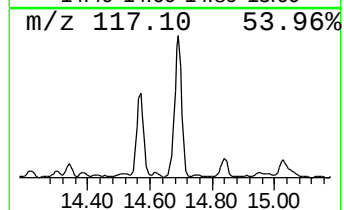
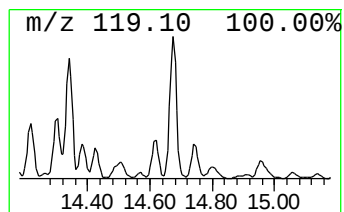
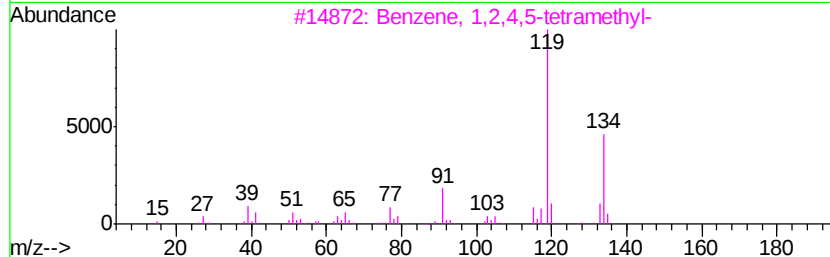
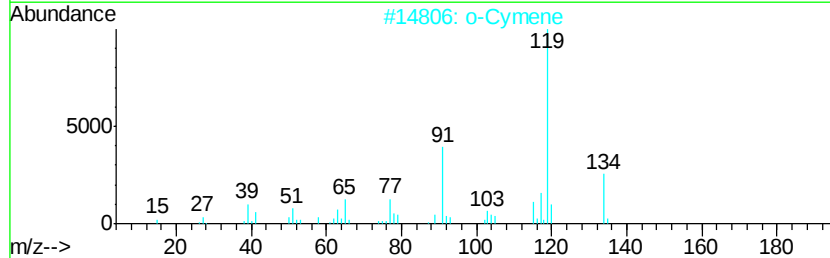
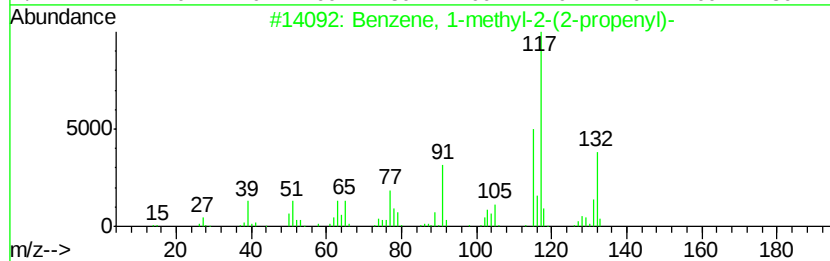
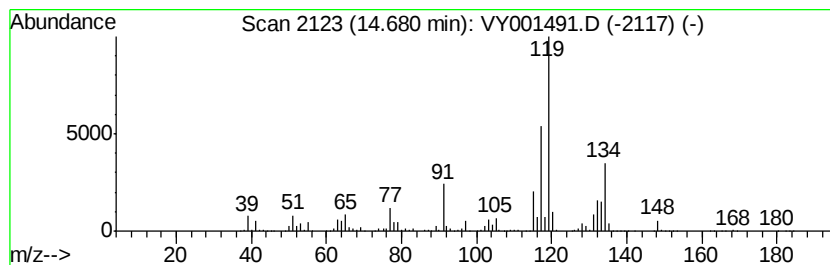
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1-methyl-2-(2-prop... Concentration Rank 2

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 14.68 | 498.14 ug/l | 10768500 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 70   |
| 2    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 64   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 64   |
| 4    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 60   |
| 5    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

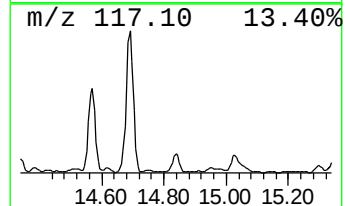
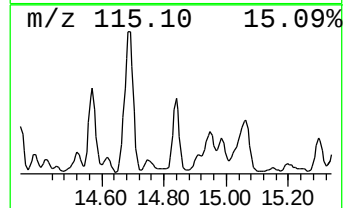
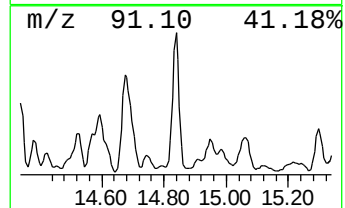
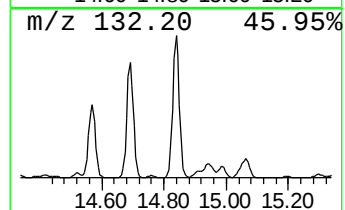
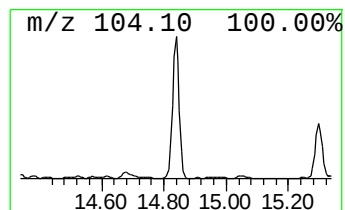
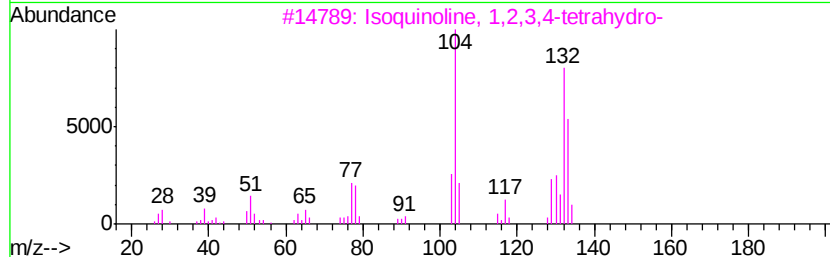
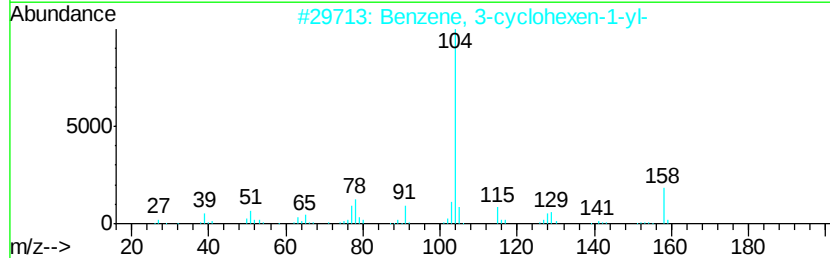
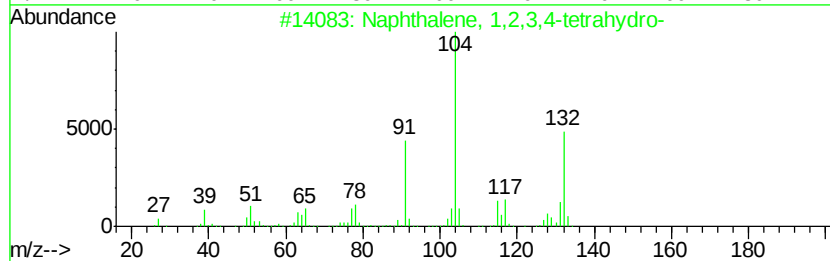
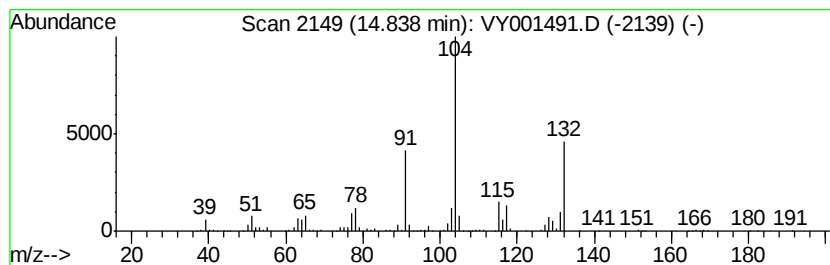
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Naphthalene, 1,2,3,4-tetrahydro- Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.84 | 254.55 ug/l | 5502590 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-    | 132 | C10H12   | 000119-64-2  | 97   |
| 2    |    | Benzene, 3-cyclohexen-1-yl-         | 158 | C12H14   | 004994-16-5  | 47   |
| 3    |    | Isoquinoline, 1,2,3,4-tetrahydro-   | 133 | C9H11N   | 000091-21-4  | 43   |
| 4    |    | Glutaric acid, 2-methylbenzyl pr... | 278 | C16H22O4 | 1000371-32-4 | 43   |
| 5    |    | .delta.-6,7-Octalin, 1.beta.,4.b... | 168 | C10H16O2 | 051921-13-2  | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY020420\  
 Data File : VY001491.D  
 Acq On : 04 Feb 2020 16:59  
 Operator : SY/MD  
 Sample : L1363-01  
 Misc : 9.65G/5ML/MSVOA Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-06-020320

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Quant Title : SW846 8260

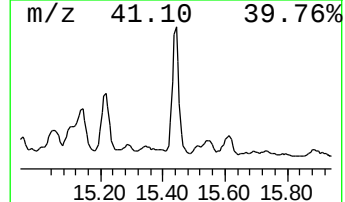
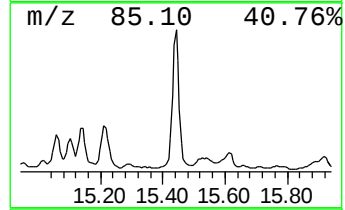
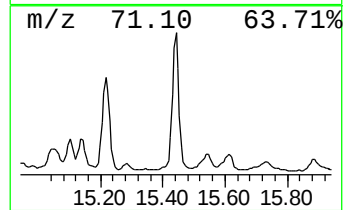
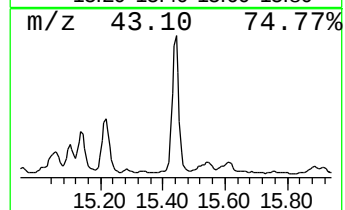
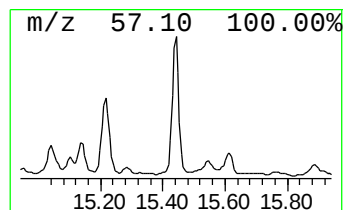
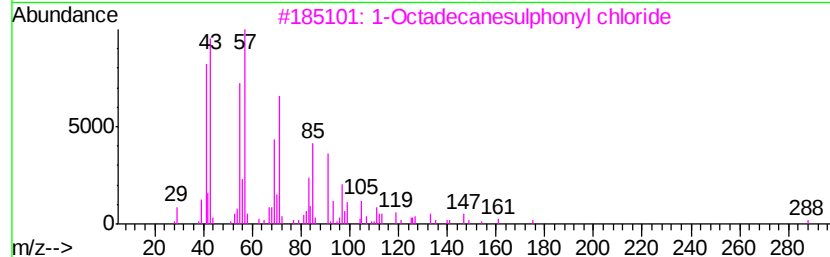
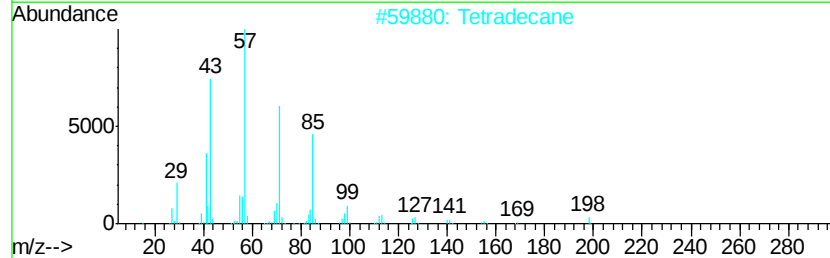
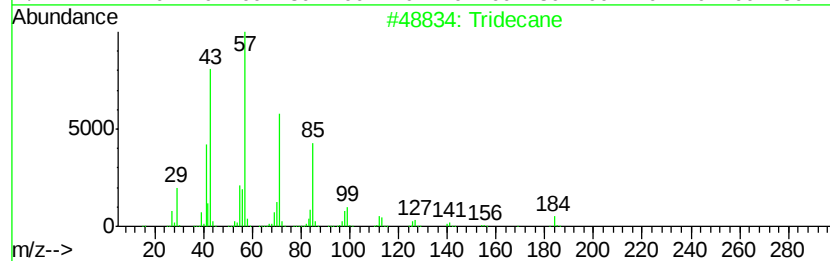
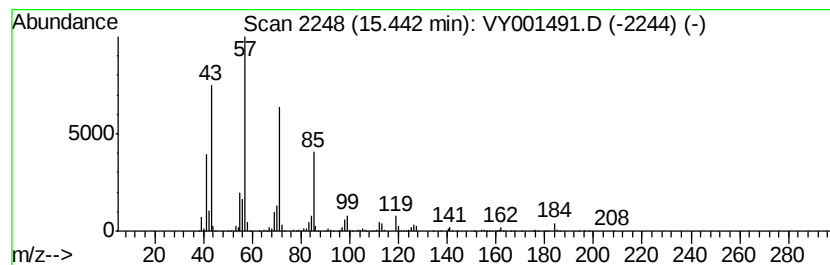
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 10 Tridecane Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.44 | 211.55 ug/l | 4573130 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm     | CAS#         | Qual |
|------|----|---|--------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Tridecane                      | 184 | C13H28      | 000629-50-5  | 98   |
| 2    |    |   | Tetradecane                    | 198 | C14H30      | 000629-59-4  | 95   |
| 3    |    |   | 1-Octadecanesulphonvl chloride | 352 | C18H37ClO2S | 1000342-70-4 | 91   |
| 4    |    |   | Dodecane                       | 170 | C12H26      | 000112-40-3  | 86   |
| 5    |    |   | Decane, 2,3,6-trimethyl-       | 184 | C13H28      | 062238-12-4  | 80   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY020420\  
Data File : VY001491.D  
Acq On : 04 Feb 2020 16:59  
Operator : SY/MD  
Sample : L1363-01  
Misc : 9.65G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-06-020320

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Benzene, 1-ethyl-... | 12.74 | 430.4   | ug/l  | 9304270  | 4                     | 13.42 | 1080870 | 50.0 |
| Benzene, cyclopro... | 13.63 | 231.4   | ug/l  | 5002320  | 4                     | 13.42 | 1080870 | 50.0 |
| Undecane             | 13.75 | 543.9   | ug/l  | 11757700 | 4                     | 13.42 | 1080870 | 50.0 |
| Benzene, 4-ethyl-... | 13.97 | 217.3   | ug/l  | 4697140  | 4                     | 13.42 | 1080870 | 50.0 |
| Benzene, (1-methy... | 14.08 | 268.6   | ug/l  | 5806900  | 4                     | 13.42 | 1080870 | 50.0 |
| Dodecane             | 14.61 | 325.2   | ug/l  | 7030510  | 4                     | 13.42 | 1080870 | 50.0 |
| Benzene, 1-methyl... | 14.68 | 498.1   | ug/l  | 10768500 | 4                     | 13.42 | 1080870 | 50.0 |
| Naphthalene, 1,2,... | 14.84 | 254.6   | ug/l  | 5502590  | 4                     | 13.42 | 1080870 | 50.0 |
| Tridecane            | 15.44 | 211.6   | ug/l  | 4573130  | 4                     | 13.42 | 1080870 | 50.0 |