

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
 Data File : VW008222.D  
 Acq On : 12 Jan 2019 05:48  
 Operator : SY/VA  
 Sample : K1119-01  
 Misc : 5.25G/5ML/MSVOA W/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DS-A

## 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\_W\METHOD\82W010819S.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         | 4.909       | 484           | 493         | 501          | rBV3     | 13345          | 40199         | 1.38%           | 0.077%        |
| 2         | 7.884       | 971           | 981         | 986          | rBV2     | 80534          | 194911        | 6.71%           | 0.372%        |
| 3         | 7.945       | 986           | 991         | 1001         | rVB      | 143403         | 319890        | 11.01%          | 0.610%        |
| 4         | 8.305       | 1041          | 1050        | 1062         | rVB      | 77750          | 176304        | 6.07%           | 0.336%        |
| 5         | 8.842       | 1131          | 1138        | 1151         | rVB      | 222858         | 432694        | 14.89%          | 0.826%        |
| 6         | 10.323      | 1373          | 1381        | 1387         | rBV      | 371195         | 654475        | 22.52%          | 1.249%        |
| 7         | 10.390      | 1387          | 1392        | 1398         | rVB      | 62454          | 110698        | 3.81%           | 0.211%        |
| 8         | 10.506      | 1404          | 1411        | 1417         | rVB2     | 39237          | 73337         | 2.52%           | 0.140%        |
| 9         | 11.177      | 1517          | 1521        | 1526         | rVV      | 37250          | 68722         | 2.36%           | 0.131%        |
| 10        | 11.231      | 1526          | 1530        | 1536         | rVB3     | 27197          | 52008         | 1.79%           | 0.099%        |
| 11        | 11.341      | 1542          | 1548        | 1552         | rBV3     | 17388          | 30307         | 1.04%           | 0.058%        |
| 12        | 11.414      | 1552          | 1560        | 1571         | rVB5     | 50540          | 136891        | 4.71%           | 0.261%        |
| 13        | 11.512      | 1571          | 1576        | 1581         | rBV      | 50919          | 77209         | 2.66%           | 0.147%        |
| 14        | 11.634      | 1589          | 1596        | 1605         | rBV      | 306539         | 515925        | 17.75%          | 0.984%        |
| 15        | 11.731      | 1605          | 1612        | 1621         | rVV      | 139292         | 261911        | 9.01%           | 0.500%        |
| 16        | 11.841      | 1621          | 1630        | 1639         | rVV2     | 652570         | 1317479       | 45.34%          | 2.514%        |
| 17        | 11.920      | 1639          | 1643        | 1648         | rVB3     | 41342          | 74310         | 2.56%           | 0.142%        |
| 18        | 12.060      | 1659          | 1666        | 1671         | rVB6     | 15208          | 30147         | 1.04%           | 0.058%        |
| 19        | 12.170      | 1671          | 1684        | 1691         | rBV2     | 334538         | 758088        | 26.09%          | 1.446%        |
| 20        | 12.256      | 1694          | 1698        | 1702         | rVB      | 70713          | 102536        | 3.53%           | 0.196%        |
| 21        | 12.304      | 1702          | 1706        | 1708         | rBV2     | 24024          | 38679         | 1.33%           | 0.074%        |
| 22        | 12.341      | 1708          | 1712        | 1714         | rVV3     | 66897          | 113852        | 3.92%           | 0.217%        |
| 23        | 12.378      | 1714          | 1718        | 1728         | rVV4     | 101909         | 293956        | 10.12%          | 0.561%        |
| 24        | 12.469      | 1728          | 1733        | 1737         | rVV      | 89973          | 183911        | 6.33%           | 0.351%        |
| 25        | 12.518      | 1737          | 1741        | 1742         | rVV4     | 54571          | 91632         | 3.15%           | 0.175%        |
| 26        | 12.542      | 1742          | 1745        | 1748         | rVV2     | 98677          | 173658        | 5.98%           | 0.331%        |
| 27        | 12.573      | 1748          | 1750        | 1753         | rVV      | 94468          | 100496        | 3.46%           | 0.192%        |
| 28        | 12.621      | 1753          | 1758        | 1762         | rVV      | 249621         | 420336        | 14.47%          | 0.802%        |
| 29        | 12.652      | 1762          | 1763        | 1768         | rVV      | 87479          | 91416         | 3.15%           | 0.174%        |
| 30        | 12.707      | 1768          | 1772        | 1776         | rVB4     | 28365          | 44860         | 1.54%           | 0.086%        |
| 31        | 12.804      | 1781          | 1788        | 1793         | rBV      | 232063         | 421736        | 14.51%          | 0.805%        |
| 32        | 12.871      | 1793          | 1799        | 1802         | rBV      | 897438         | 1424454       | 49.02%          | 2.718%        |
| 33        | 12.902      | 1802          | 1804        | 1806         | rVV      | 341741         | 447432        | 15.40%          | 0.854%        |
| 34        | 12.938      | 1806          | 1810        | 1816         | rVB3     | 913385         | 1689292       | 58.13%          | 3.223%        |

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 Misc : 5.25G/5ML/MSVOA W/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DS-A

## 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\_W\METHOD\82W010819S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 12.993 | 1816 | 1819 | 1824 | rVB2 | 91329   | 135393  | 4.66%   | 0.258% |
| 36 | 13.109 | 1824 | 1838 | 1844 | rBV  | 471332  | 1012588 | 34.85%  | 1.932% |
| 37 | 13.170 | 1844 | 1848 | 1854 | rVB2 | 198011  | 342700  | 11.79%  | 0.654% |
| 38 | 13.255 | 1855 | 1862 | 1867 | rBV  | 1831195 | 2750861 | 94.67%  | 5.249% |
| 39 | 13.353 | 1874 | 1878 | 1879 | rBV2 | 48459   | 65764   | 2.26%   | 0.125% |
| 40 | 13.383 | 1879 | 1883 | 1888 | rVB2 | 169119  | 261210  | 8.99%   | 0.498% |
| 41 | 13.444 | 1888 | 1893 | 1898 | rBV2 | 379160  | 657175  | 22.62%  | 1.254% |
| 42 | 13.493 | 1898 | 1901 | 1905 | rVV2 | 164394  | 258452  | 8.89%   | 0.493% |
| 43 | 13.560 | 1908 | 1912 | 1914 | rBV  | 372192  | 524520  | 18.05%  | 1.001% |
| 44 | 13.591 | 1914 | 1917 | 1921 | rVB  | 569002  | 790143  | 27.19%  | 1.508% |
| 45 | 13.633 | 1921 | 1924 | 1928 | rVB  | 140121  | 172890  | 5.95%   | 0.330% |
| 46 | 13.725 | 1929 | 1939 | 1940 | rBV4 | 230722  | 399528  | 13.75%  | 0.762% |
| 47 | 13.755 | 1940 | 1944 | 1948 | rVV2 | 894036  | 1446165 | 49.77%  | 2.759% |
| 48 | 13.798 | 1948 | 1951 | 1960 | rVB3 | 729922  | 1459648 | 50.23%  | 2.785% |
| 49 | 13.877 | 1960 | 1964 | 1970 | rBV2 | 1076278 | 1695112 | 58.33%  | 3.234% |
| 50 | 13.957 | 1973 | 1977 | 1982 | rVB  | 282902  | 387558  | 13.34%  | 0.739% |
| 51 | 14.017 | 1982 | 1987 | 1989 | rBV  | 418987  | 611924  | 21.06%  | 1.168% |
| 52 | 14.048 | 1989 | 1992 | 1996 | rVB  | 472268  | 664204  | 22.86%  | 1.267% |
| 53 | 14.103 | 1996 | 2001 | 2005 | rVB  | 692941  | 944186  | 32.49%  | 1.802% |
| 54 | 14.164 | 2005 | 2011 | 2014 | rVB2 | 82602   | 135191  | 4.65%   | 0.258% |
| 55 | 14.213 | 2014 | 2019 | 2024 | rVB2 | 781111  | 1246866 | 42.91%  | 2.379% |
| 56 | 14.292 | 2024 | 2032 | 2035 | rBV6 | 158446  | 399266  | 13.74%  | 0.762% |
| 57 | 14.347 | 2035 | 2041 | 2044 | rBV3 | 279807  | 512639  | 17.64%  | 0.978% |
| 58 | 14.395 | 2044 | 2049 | 2051 | rBV3 | 303646  | 430358  | 14.81%  | 0.821% |
| 59 | 14.426 | 2051 | 2054 | 2057 | rVV2 | 205565  | 246180  | 8.47%   | 0.470% |
| 60 | 14.463 | 2057 | 2060 | 2064 | rVB  | 532771  | 691160  | 23.79%  | 1.319% |
| 61 | 14.505 | 2064 | 2067 | 2071 | rBV2 | 432435  | 524985  | 18.07%  | 1.002% |
| 62 | 14.548 | 2071 | 2074 | 2081 | rVB4 | 322212  | 502473  | 17.29%  | 0.959% |
| 63 | 14.609 | 2081 | 2084 | 2086 | rBV2 | 139434  | 188718  | 6.49%   | 0.360% |
| 64 | 14.645 | 2087 | 2090 | 2094 | rVB  | 329931  | 453937  | 15.62%  | 0.866% |
| 65 | 14.694 | 2094 | 2098 | 2101 | rBV  | 614942  | 1042300 | 35.87%  | 1.989% |
| 66 | 14.731 | 2101 | 2104 | 2110 | rVB2 | 1073734 | 1631344 | 56.14%  | 3.113% |
| 67 | 14.816 | 2110 | 2118 | 2122 | rBV3 | 1180142 | 2905858 | 100.00% | 5.544% |
| 68 | 14.962 | 2138 | 2142 | 2149 | rVB  | 747694  | 1233272 | 42.44%  | 2.353% |
| 69 | 15.036 | 2150 | 2154 | 2155 | rBV3 | 144965  | 186852  | 6.43%   | 0.357% |
| 70 | 15.072 | 2155 | 2160 | 2164 | rBV2 | 426340  | 691378  | 23.79%  | 1.319% |
| 71 | 15.188 | 2172 | 2179 | 2187 | rVB3 | 477279  | 1138279 | 39.17%  | 2.172% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DS-A

## 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\_W\METHOD\82W010819S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 72 | 15.261 | 2187 | 2191 | 2198 | rVB5 | 195269 | 421525  | 14.51% | 0.804% |
| 73 | 15.334 | 2198 | 2203 | 2207 | rBV2 | 354804 | 670182  | 23.06% | 1.279% |
| 74 | 15.432 | 2213 | 2219 | 2223 | rBV  | 505238 | 865146  | 29.77% | 1.651% |
| 75 | 15.481 | 2223 | 2227 | 2230 | rBV2 | 313814 | 531309  | 18.28% | 1.014% |
| 76 | 15.566 | 2237 | 2241 | 2250 | rVB  | 780224 | 1389302 | 47.81% | 2.651% |
| 77 | 15.664 | 2250 | 2257 | 2264 | rBV3 | 456044 | 1101161 | 37.89% | 2.101% |
| 78 | 15.743 | 2266 | 2270 | 2274 | rVV  | 145130 | 236729  | 8.15%  | 0.452% |
| 79 | 15.834 | 2278 | 2285 | 2286 | rVV2 | 250464 | 499623  | 17.19% | 0.953% |
| 80 | 15.871 | 2287 | 2291 | 2300 | rVB  | 962629 | 1823397 | 62.75% | 3.479% |
| 81 | 15.962 | 2302 | 2306 | 2310 | rBV4 | 100518 | 175410  | 6.04%  | 0.335% |
| 82 | 16.035 | 2311 | 2318 | 2324 | rBV5 | 208640 | 552994  | 19.03% | 1.055% |
| 83 | 16.188 | 2334 | 2343 | 2348 | rBV2 | 493517 | 1203060 | 41.40% | 2.295% |
| 84 | 16.298 | 2358 | 2361 | 2366 | rVB  | 91854  | 136840  | 4.71%  | 0.261% |
| 85 | 16.383 | 2367 | 2375 | 2381 | rVV2 | 570427 | 1258879 | 43.32% | 2.402% |
| 86 | 16.450 | 2381 | 2386 | 2391 | rVV  | 262235 | 556110  | 19.14% | 1.061% |
| 87 | 16.511 | 2391 | 2396 | 2401 | rVB  | 375543 | 678664  | 23.36% | 1.295% |
| 88 | 16.657 | 2412 | 2420 | 2426 | rBV7 | 184734 | 604927  | 20.82% | 1.154% |

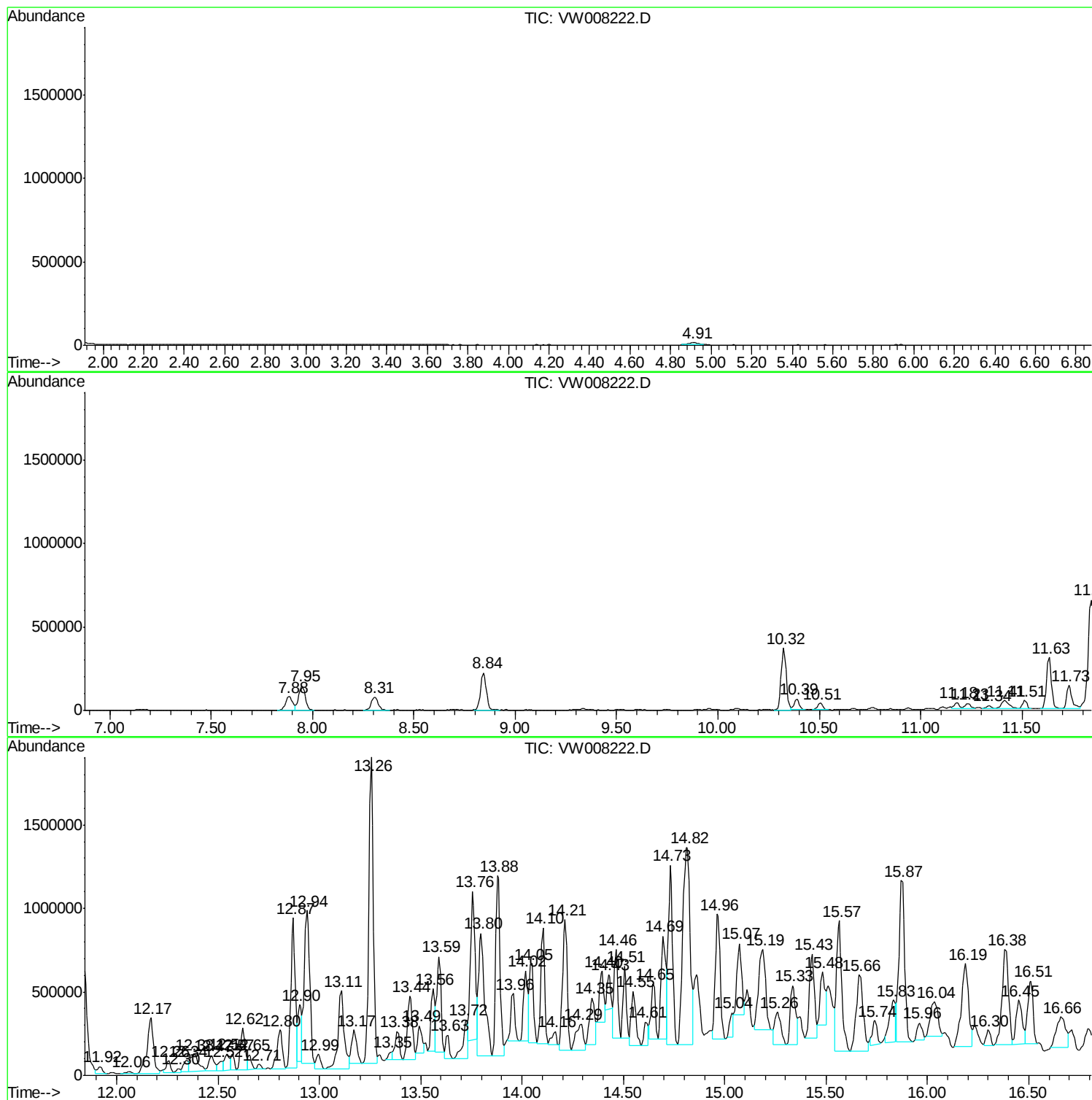
Sum of corrected areas: 52410086

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ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
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Instrument :  
MSVOA\_W  
ClientSampleId :  
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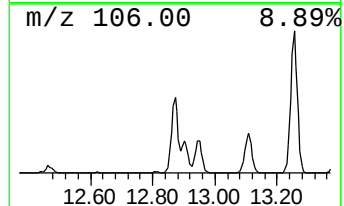
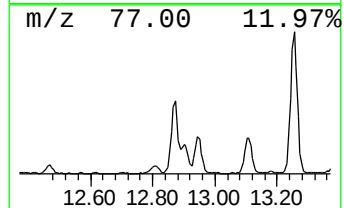
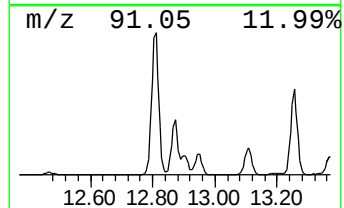
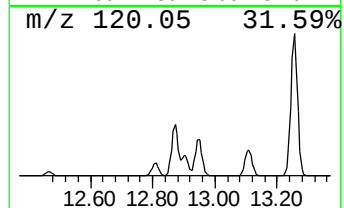
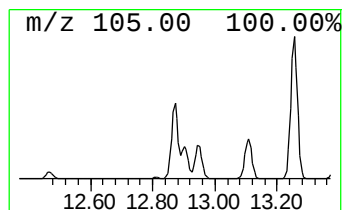
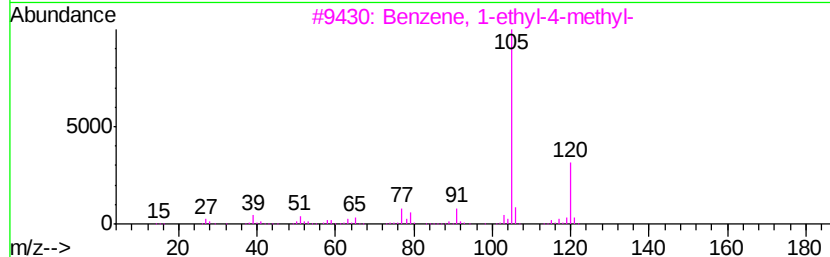
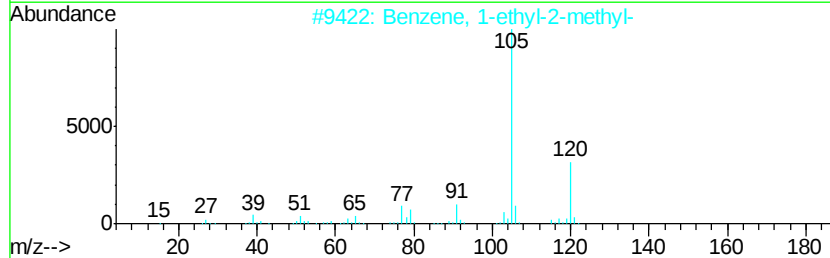
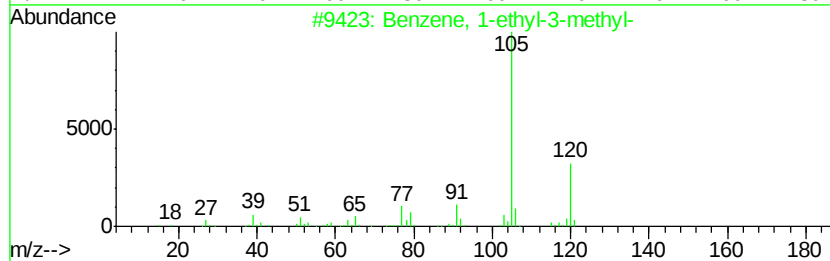
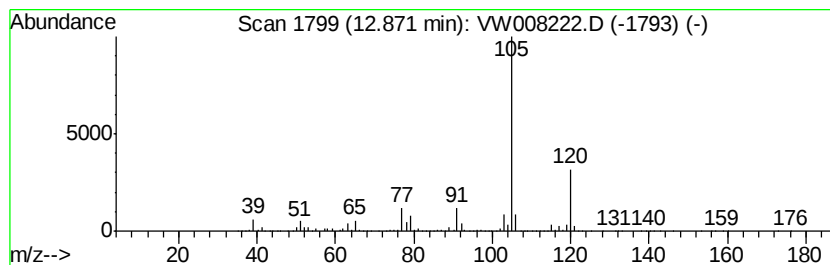
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Benzene, 1-ethyl-3-methyl- Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.87 | 135.79 ug/l | 1424450 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 97   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 4    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

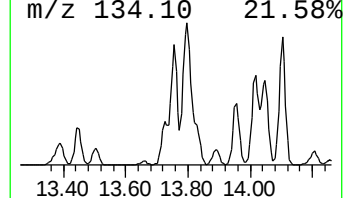
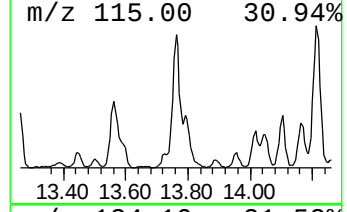
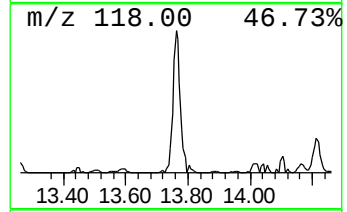
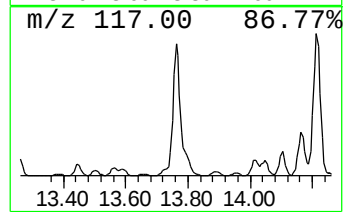
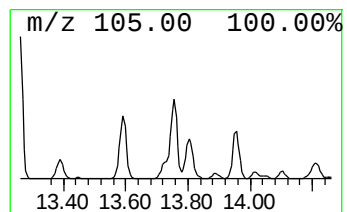
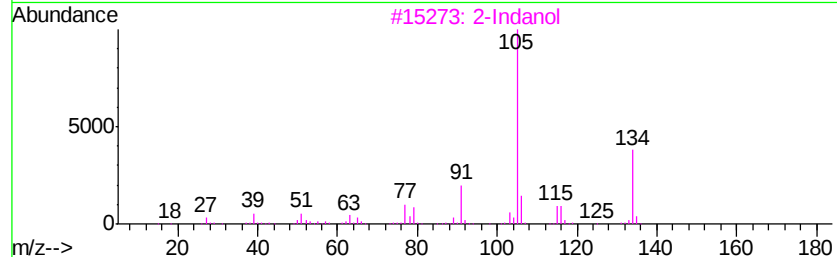
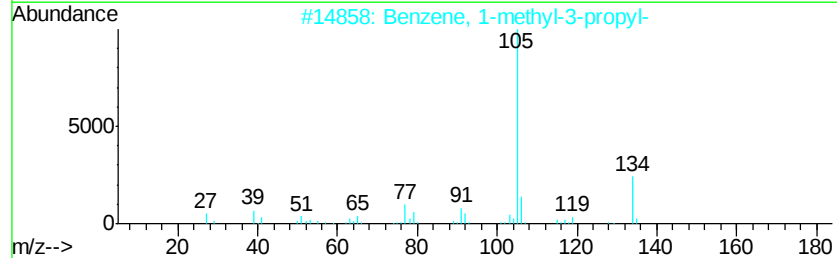
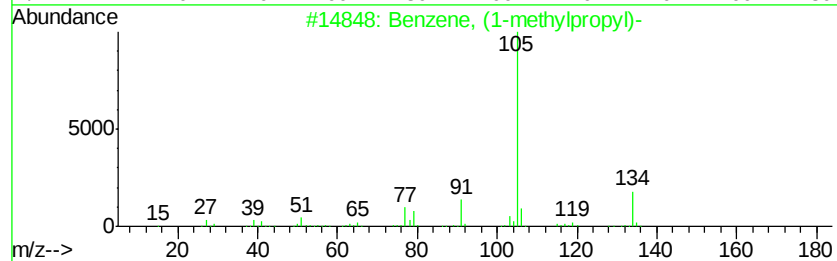
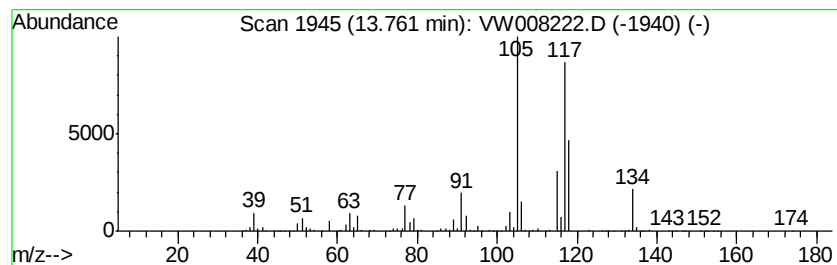
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Benzene, (1-methylpropyl)- Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.76 | 137.86 ug/l | 1446170 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 50   |
| 2    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 50   |
| 3    |    | 2-Indanol                   | 134 | C9H10O  | 004254-29-9 | 43   |
| 4    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 41   |
| 5    |    | 2-Tolyloxirane              | 134 | C9H10O  | 002783-26-8 | 41   |



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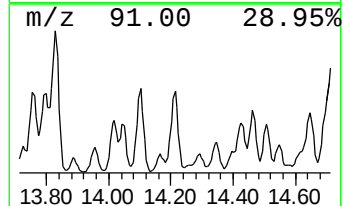
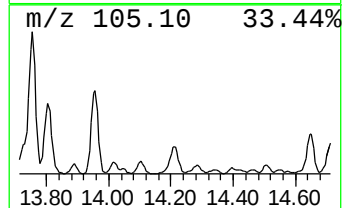
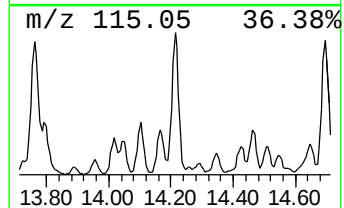
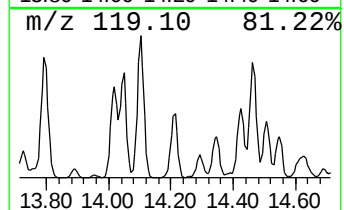
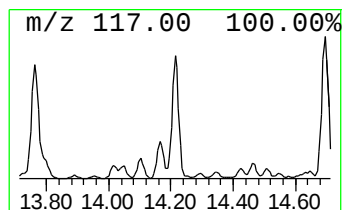
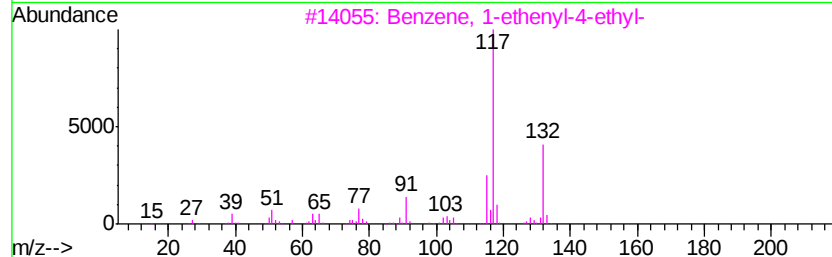
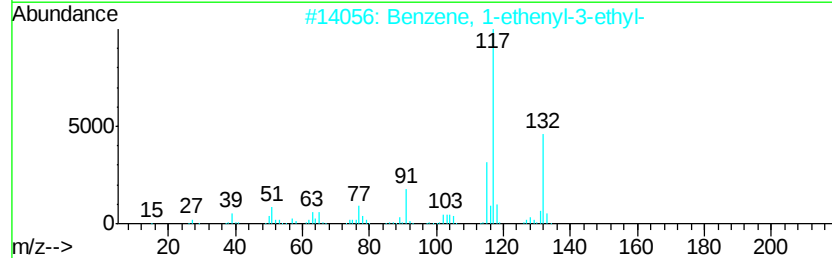
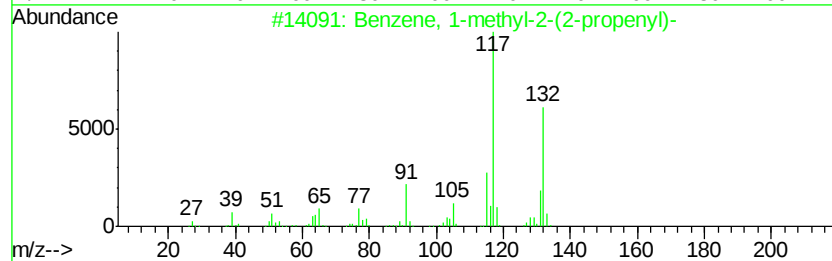
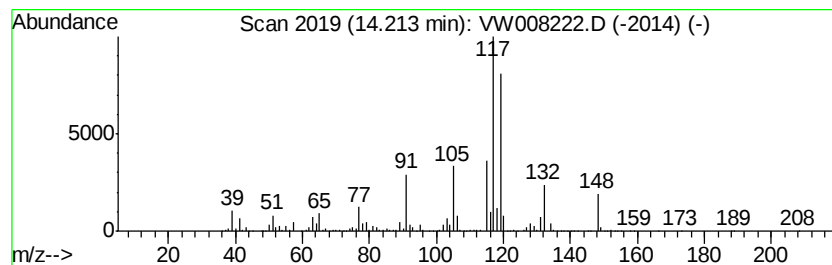
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1-methyl-2-(2-prop... Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.21 | 118.86 ug/l | 1246870 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 55   |
| 2    |    | Benzene, 1-ethenyl-3-ethyl-       | 132 | C10H12  | 007525-62-4 | 55   |
| 3    |    | Benzene, 1-ethenyl-4-ethyl-       | 132 | C10H12  | 003454-07-7 | 50   |
| 4    |    | 1-Phenyl-1-butene                 | 132 | C10H12  | 000824-90-8 | 50   |
| 5    |    | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

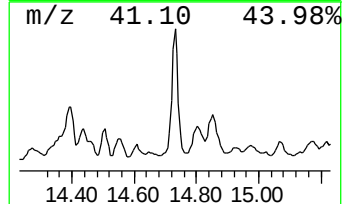
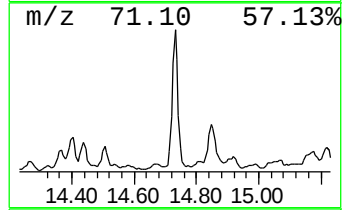
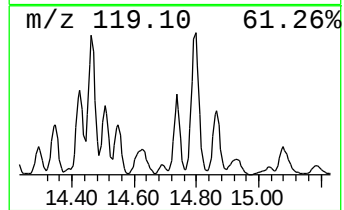
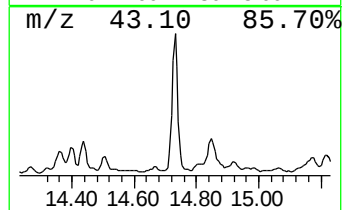
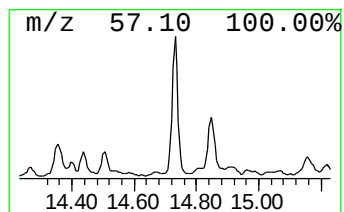
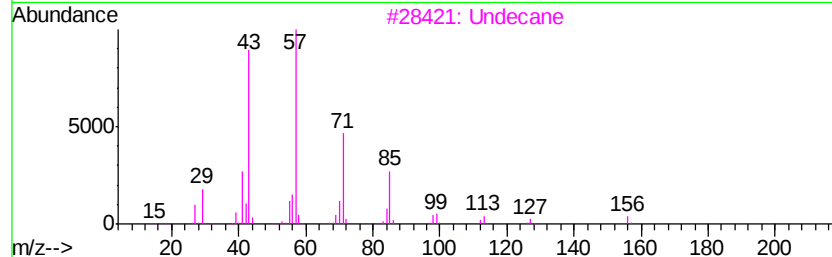
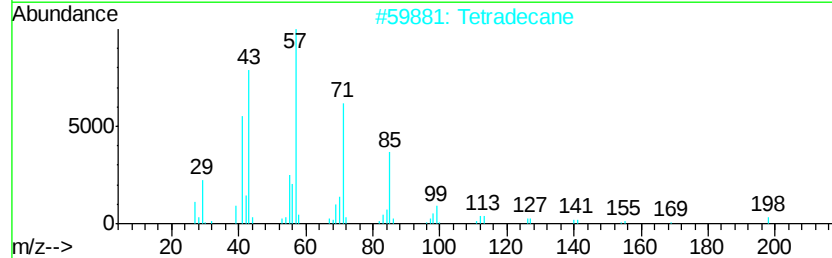
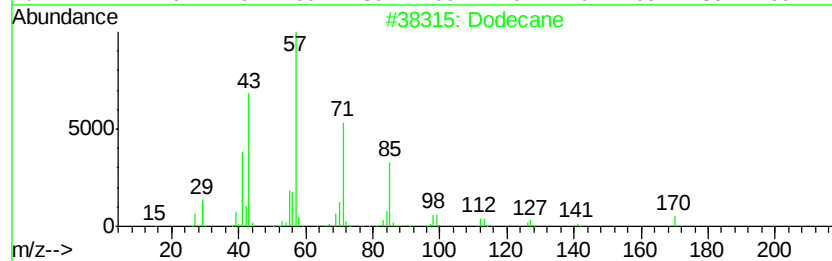
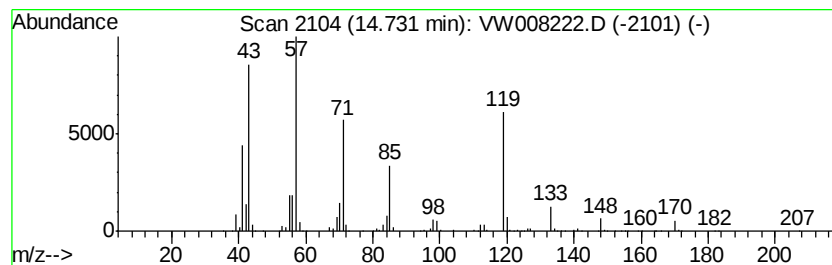
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Dodecane Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.73 | 155.51 ug/l | 1631340 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane                 | 170 | C12H26  | 000112-40-3 | 78   |
| 2    |    | Tetradecane              | 198 | C14H30  | 000629-59-4 | 46   |
| 3    |    | Undecane                 | 156 | C11H24  | 001120-21-4 | 46   |
| 4    |    | Tridecane                | 184 | C13H28  | 000629-50-5 | 46   |
| 5    |    | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

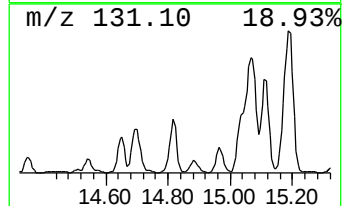
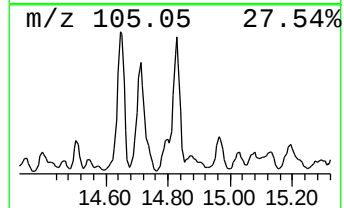
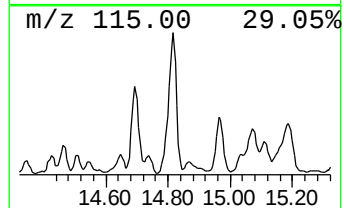
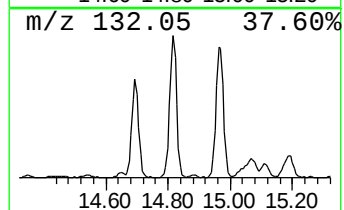
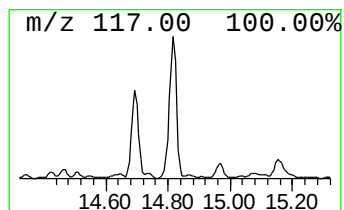
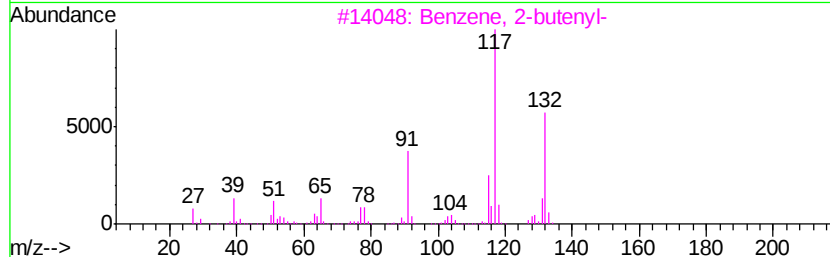
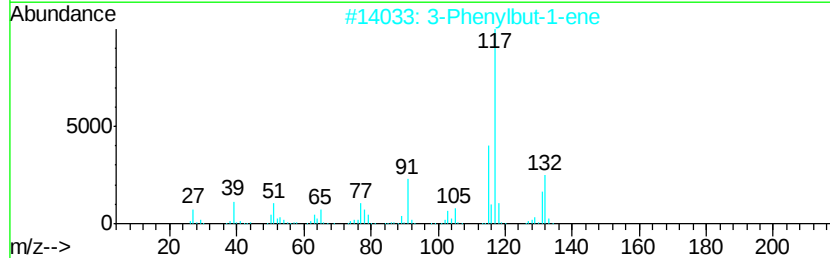
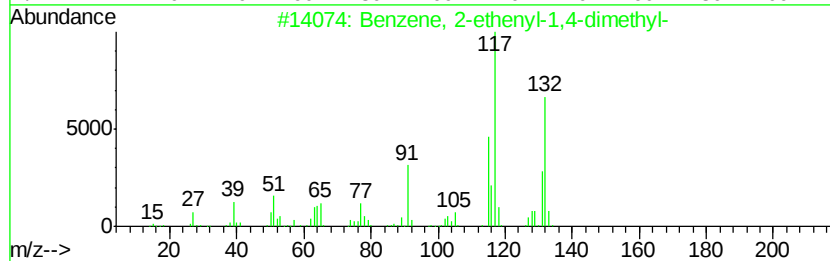
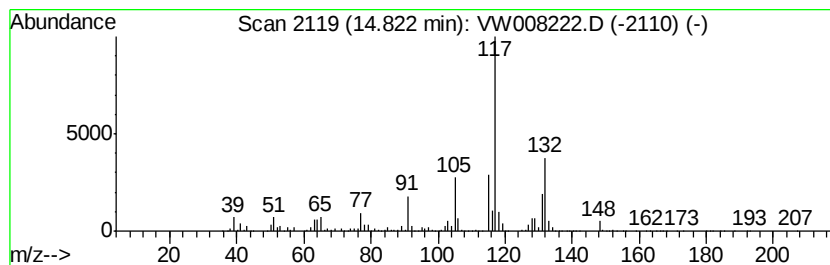
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.82 | 277.00 ug/l | 2905860 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 91   |
| 2       |   | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 90   |
| 3       |   | Benzene, 2-butenyl-              | 132 | C10H12  | 001560-06-1 | 90   |
| 4       |   | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 87   |
| 5       |   | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12  | 000824-63-5 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

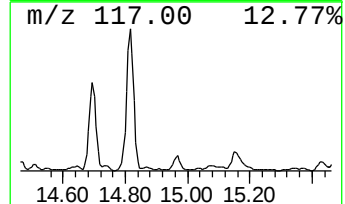
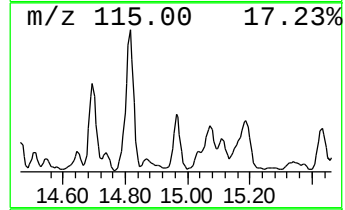
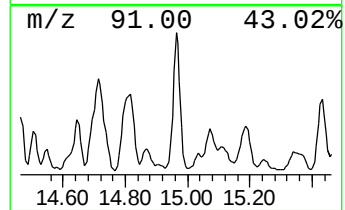
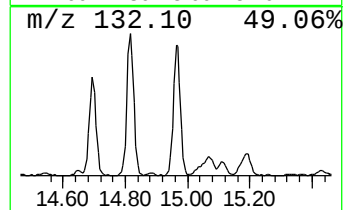
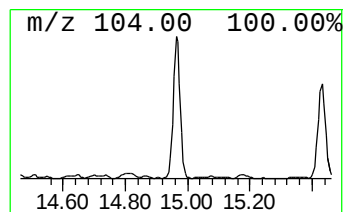
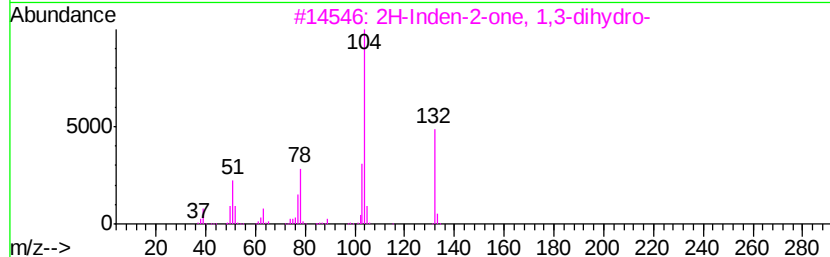
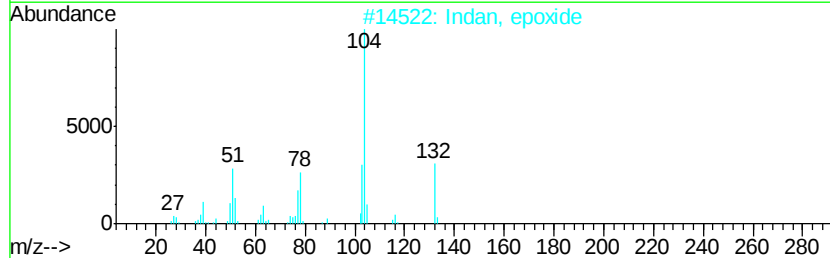
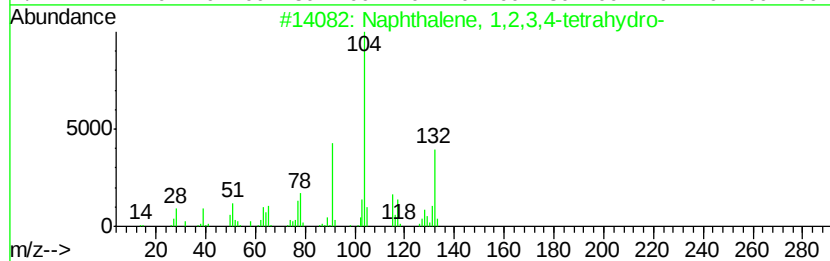
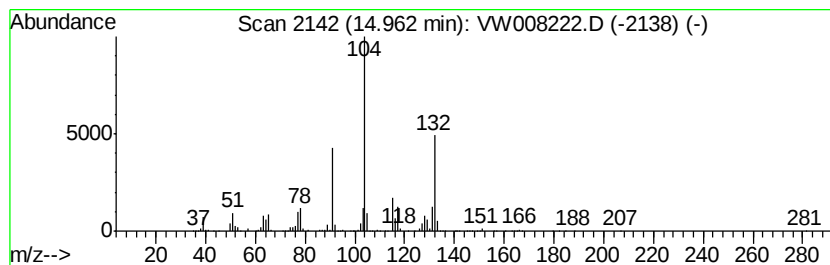
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Naphthalene, 1,2,3,4-tetrahydro- Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.96 | 117.56 ug/l | 1233270 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 96   |
| 2       |   | Indan, epoxide                   | 132 | C9H8O   | 000768-22-9 | 62   |
| 3       |   | 2H-Inden-2-one, 1,3-dihydro-     | 132 | C9H8O   | 000615-13-4 | 53   |
| 4       |   | Benzene, 3-cyclohexen-1-yl-      | 158 | C12H14  | 004994-16-5 | 47   |
| 5       |   | Benzene, cyclobutyl-             | 132 | C10H12  | 004392-30-7 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

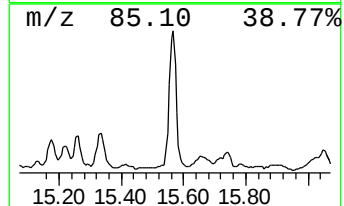
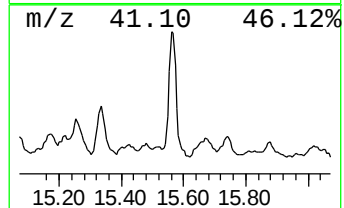
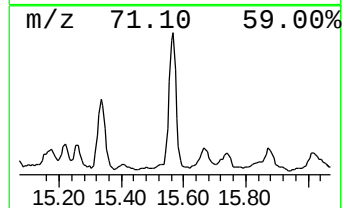
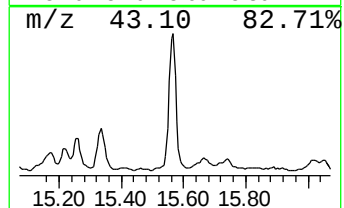
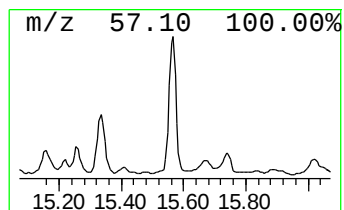
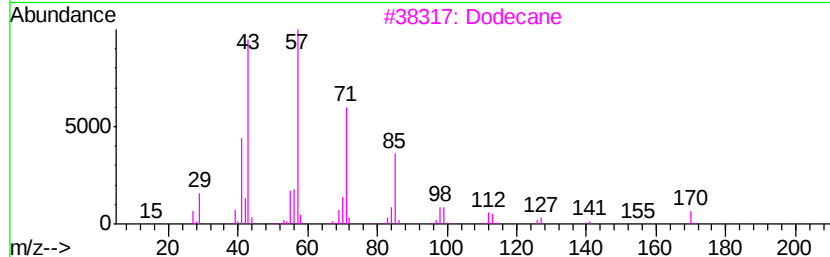
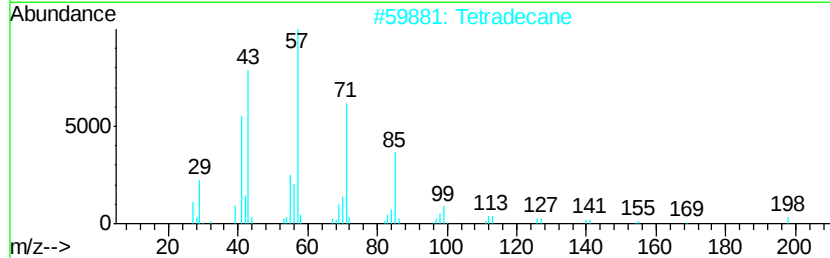
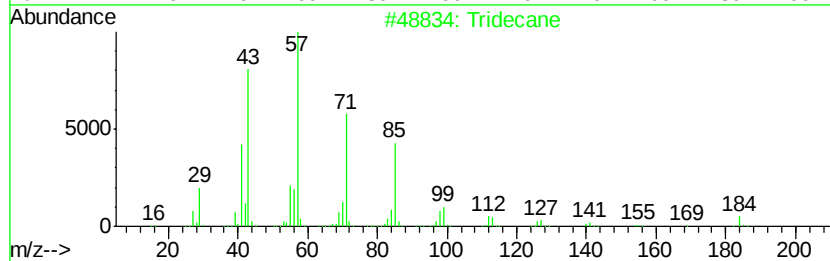
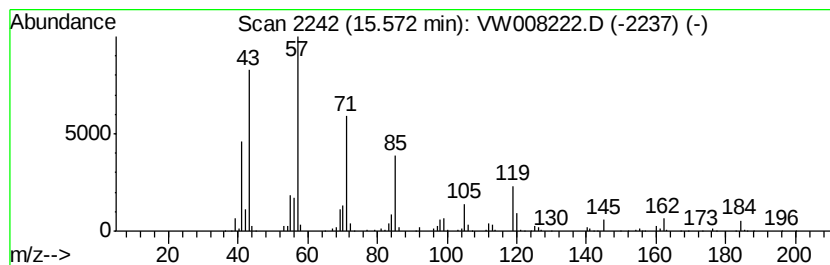
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Tridecane Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.57 | 132.44 ug/l | 1389300 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 95   |
| 2    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 58   |
| 3    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 53   |
| 4    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 52   |
| 5    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

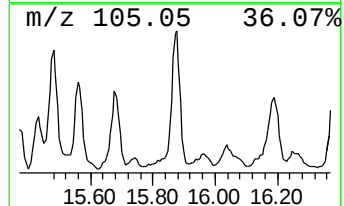
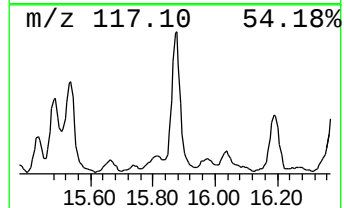
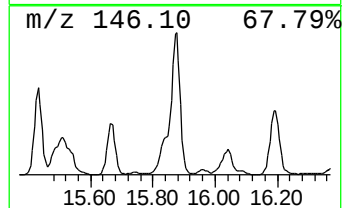
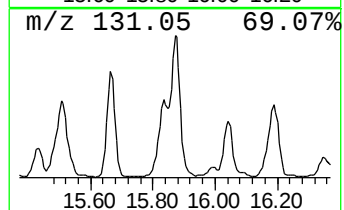
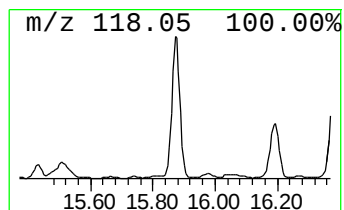
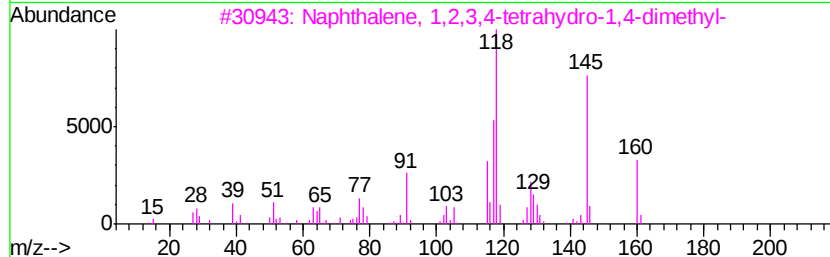
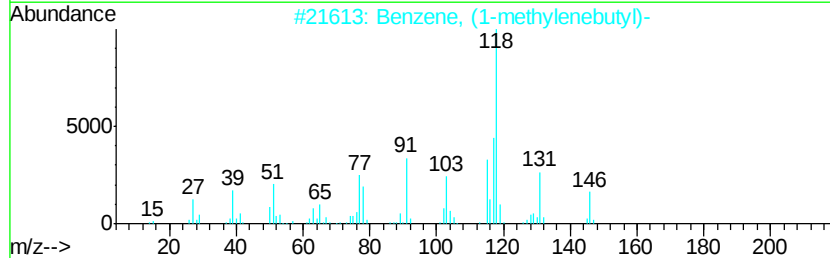
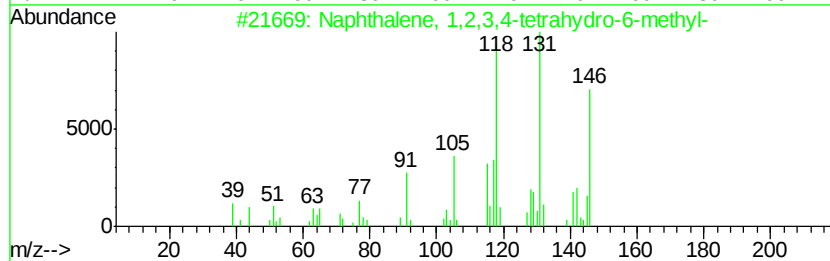
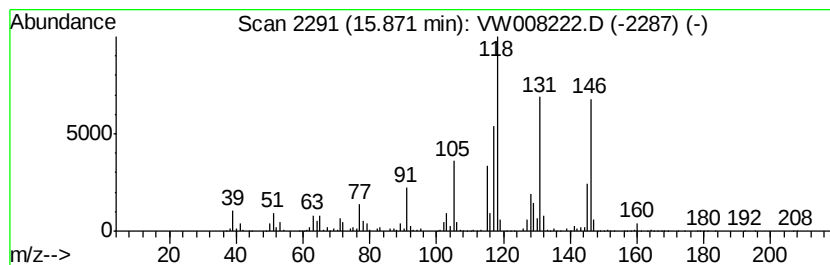
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 1,2,3,4-tetra... Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.87 | 173.82 ug/l | 1823400 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 74   |
| 2    |    | Benzene, (1-methylenebutyl)-        | 146 | C11H14  | 005676-32-4 | 72   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 64   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 64   |
| 5    |    | 1(2H)-Naphthalenone, 3,4-dihydro-   | 146 | C10H10O | 000529-34-0 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

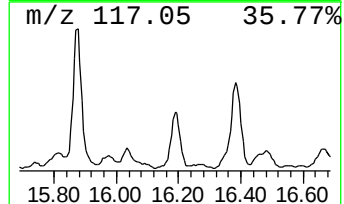
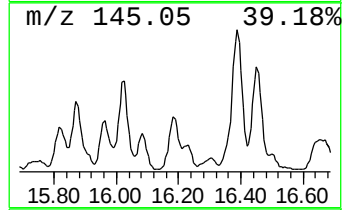
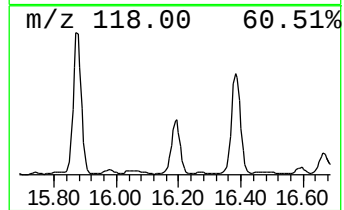
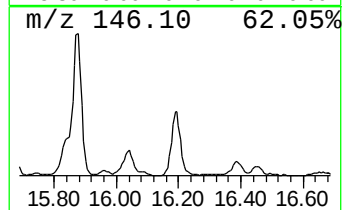
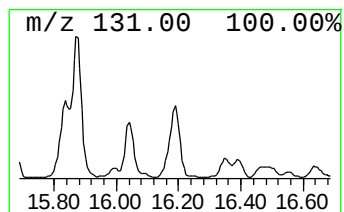
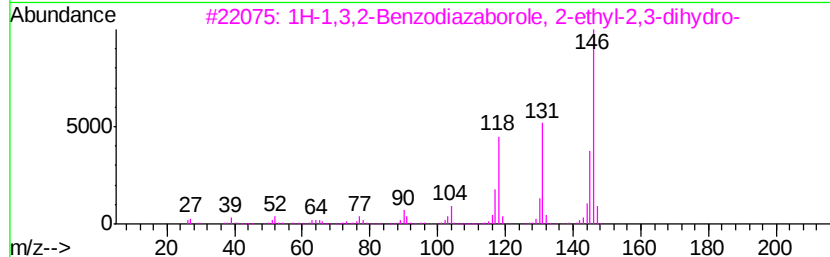
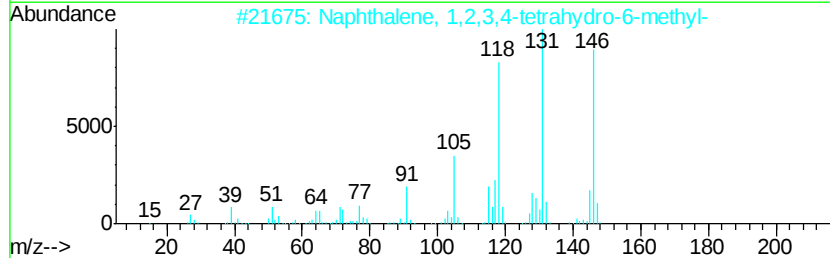
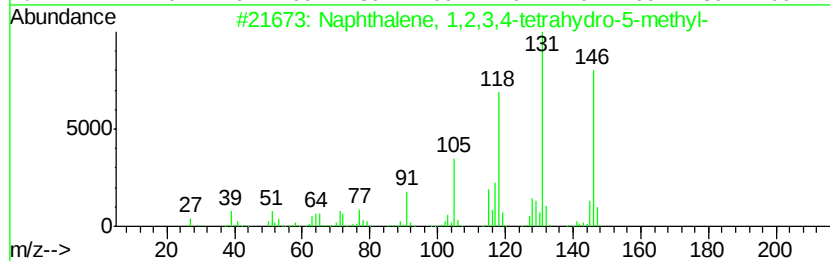
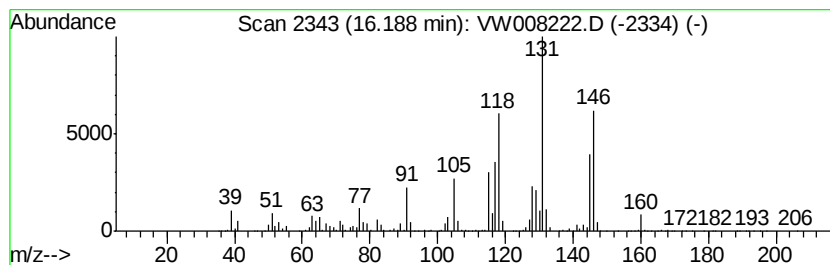
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 1,2,3,4-tetra... Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.19 | 114.68 ug/l | 1203060 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 002809-64-5  | 81   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 001680-51-9  | 74   |
| 3    |    | 1H-1,3,2-Benzodiazaborole, 2-eth... | 146 | C8H11BN2 | 074663-81-3  | 68   |
| 4    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14   | 006682-71-9  | 52   |
| 5    |    | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14   | 1000189-31-0 | 52   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260

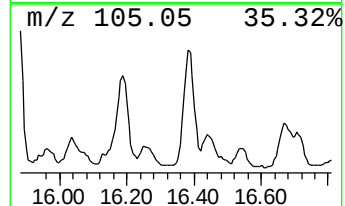
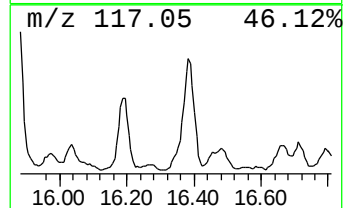
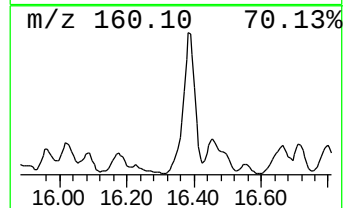
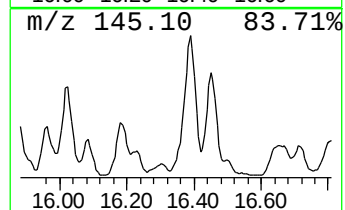
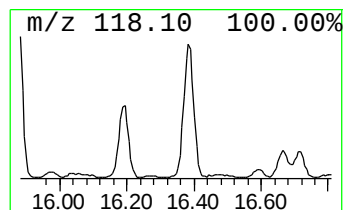
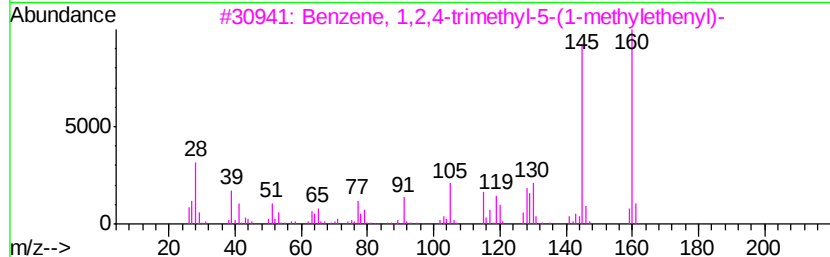
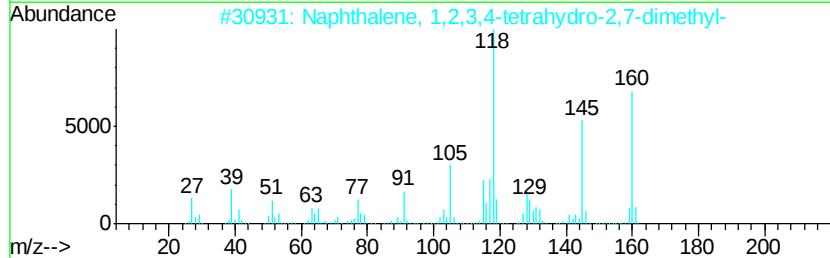
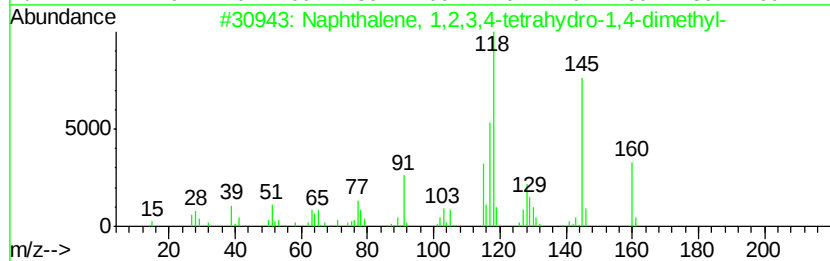
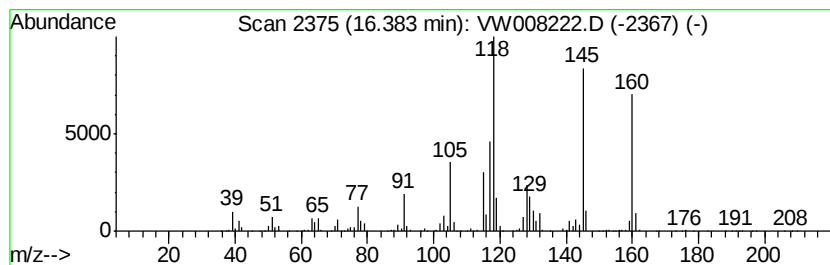
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 16.38 | 120.00 ug/l | 1258880 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                             | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-...      | 160 | C12H16  | 004175-54-6 | 96   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-...      | 160 | C12H16  | 013065-07-1 | 89   |
| 3    |    | Benzene, 1,2,4-trimethyl-5-(1-methyl-... | 160 | C12H16  | 054340-84-0 | 70   |
| 4    |    | Benzene, 1,3,5-trimethyl-2-(1-methyl-... | 160 | C12H16  | 014679-13-1 | 70   |
| 5    |    | Naphthalene, 1,2,3,4-tetrahydro-...      | 160 | C12H16  | 007524-63-2 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW011119\  
Data File : VW008222.D  
Acq On : 12 Jan 2019 05:48  
Operator : SY/VA  
Sample : K1119-01  
Misc : 5.25G/5ML/MSVOA\_W/SOIL  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
DS-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.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-... | 12.87 | 135.8   | ug/l  | 1424450  | 4                     | 13.56 | 524520 | 50.0 |
| Benzene, (1-methy... | 13.76 | 137.9   | ug/l  | 1446170  | 4                     | 13.56 | 524520 | 50.0 |
| Benzene, 1-methyl... | 14.21 | 118.9   | ug/l  | 1246870  | 4                     | 13.56 | 524520 | 50.0 |
| Dodecane             | 14.73 | 155.5   | ug/l  | 1631340  | 4                     | 13.56 | 524520 | 50.0 |
| Benzene, 2-etheny... | 14.82 | 277.0   | ug/l  | 2905860  | 4                     | 13.56 | 524520 | 50.0 |
| Naphthalene, 1,2,... | 14.96 | 117.6   | ug/l  | 1233270  | 4                     | 13.56 | 524520 | 50.0 |
| Tridecane            | 15.57 | 132.4   | ug/l  | 1389300  | 4                     | 13.56 | 524520 | 50.0 |
| Naphthalene, 1,2,... | 15.87 | 173.8   | ug/l  | 1823400  | 4                     | 13.56 | 524520 | 50.0 |
| Naphthalene, 1,2,... | 16.19 | 114.7   | ug/l  | 1203060  | 4                     | 13.56 | 524520 | 50.0 |
| Naphthalene, 1,2,... | 16.38 | 120.0   | ug/l  | 1258880  | 4                     | 13.56 | 524520 | 50.0 |