

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
 Data File : VW014485.D  
 Acq On : 28 Dec 2019 02:35  
 Operator : SY/VA  
 Sample : VIBLK20  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK20

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0 % 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\SOM2WLM122719S.M  
 Title : VOC Analysis

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         | 1.959       | 5             | 9           | 15           | rBV5     | 8627           | 15814         | 0.41%           | 0.037%        |
| 2         | 2.154       | 34            | 41          | 47           | rBV2     | 14578          | 34662         | 0.89%           | 0.081%        |
| 3         | 2.349       | 64            | 73          | 86           | rBV      | 316933         | 604814        | 15.51%          | 1.415%        |
| 4         | 2.629       | 115           | 119         | 123          | rBV7     | 6852           | 10478         | 0.27%           | 0.025%        |
| 5         | 2.885       | 154           | 161         | 176          | rVB      | 213211         | 524265        | 13.45%          | 1.226%        |
| 6         | 3.385       | 235           | 243         | 255          | rBV2     | 20645          | 51892         | 1.33%           | 0.121%        |
| 7         | 4.019       | 333           | 347         | 360          | rBV      | 428012         | 1380611       | 35.42%          | 3.230%        |
| 8         | 4.922       | 479           | 495         | 511          | rBV4     | 29414          | 124020        | 3.18%           | 0.290%        |
| 9         | 5.745       | 621           | 630         | 644          | rBV6     | 10056          | 38558         | 0.99%           | 0.090%        |
| 10        | 5.934       | 651           | 661         | 671          | rBV5     | 8682           | 26802         | 0.69%           | 0.063%        |
| 11        | 7.074       | 839           | 848         | 852          | rBV      | 139248         | 355993        | 9.13%           | 0.833%        |
| 12        | 7.135       | 852           | 858         | 872          | rVV      | 161146         | 471578        | 12.10%          | 1.103%        |
| 13        | 7.641       | 931           | 941         | 953          | rBV      | 564976         | 1408410       | 36.13%          | 3.295%        |
| 14        | 7.927       | 977           | 988         | 997          | rVB      | 7332           | 25076         | 0.64%           | 0.059%        |
| 15        | 8.037       | 997           | 1006        | 1017         | rVB6     | 8143           | 22665         | 0.58%           | 0.053%        |
| 16        | 8.153       | 1017          | 1025        | 1031         | rBV3     | 8424           | 18357         | 0.47%           | 0.043%        |
| 17        | 8.269       | 1031          | 1044        | 1062         | rBV2     | 1301095        | 3898297       | 100.00%         | 9.119%        |
| 18        | 8.470       | 1069          | 1077        | 1087         | rVV2     | 23459          | 61396         | 1.57%           | 0.144%        |
| 19        | 8.695       | 1107          | 1114        | 1120         | rVB4     | 7459           | 16412         | 0.42%           | 0.038%        |
| 20        | 8.842       | 1128          | 1138        | 1148         | rBV      | 1164377        | 2365536       | 60.68%          | 5.534%        |
| 21        | 9.067       | 1166          | 1175        | 1182         | rVB8     | 4156           | 11122         | 0.29%           | 0.026%        |
| 22        | 9.268       | 1198          | 1208        | 1223         | rBV      | 796061         | 1678950       | 43.07%          | 3.928%        |
| 23        | 9.378       | 1223          | 1226        | 1235         | rVB6     | 11115          | 21027         | 0.54%           | 0.049%        |
| 24        | 9.756       | 1280          | 1288        | 1298         | rBV      | 46198          | 96008         | 2.46%           | 0.225%        |
| 25        | 9.890       | 1302          | 1310        | 1316         | rBV      | 84258          | 172728        | 4.43%           | 0.404%        |
| 26        | 9.957       | 1316          | 1321        | 1323         | rBV4     | 11344          | 16876         | 0.43%           | 0.039%        |
| 27        | 10.031      | 1327          | 1333        | 1340         | rVV      | 428711         | 764781        | 19.62%          | 1.789%        |
| 28        | 10.092      | 1340          | 1343        | 1354         | rVB2     | 21631          | 45074         | 1.16%           | 0.105%        |
| 29        | 10.213      | 1357          | 1363        | 1364         | rBV2     | 15608          | 23897         | 0.61%           | 0.056%        |
| 30        | 10.244      | 1364          | 1368        | 1373         | rVB      | 39481          | 66911         | 1.72%           | 0.157%        |
| 31        | 10.323      | 1373          | 1381        | 1389         | rBV      | 1845200        | 3259227       | 83.61%          | 7.624%        |
| 32        | 10.500      | 1403          | 1410        | 1416         | rVB5     | 17169          | 34592         | 0.89%           | 0.081%        |
| 33        | 10.573      | 1416          | 1422        | 1433         | rBV      | 286698         | 500050        | 12.83%          | 1.170%        |
| 34        | 10.701      | 1433          | 1443        | 1450         | rBV      | 219336         | 415237        | 10.65%          | 0.971%        |

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 ALS Vial : 1 Sample Multiplier: 1

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 MSVOA\_W  
 ClientSampleId :  
 VIBLK20

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0 % 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\SOM2WLM122719S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.768 | 1450 | 1454 | 1461 | rVB6 | 13601   | 28585   | 0.73%  | 0.067% |
| 36 | 10.841 | 1461 | 1466 | 1471 | rBV3 | 15919   | 28429   | 0.73%  | 0.067% |
| 37 | 10.921 | 1472 | 1479 | 1488 | rBV  | 492936  | 875603  | 22.46% | 2.048% |
| 38 | 11.061 | 1494 | 1502 | 1508 | rBV2 | 69641   | 130130  | 3.34%  | 0.304% |
| 39 | 11.171 | 1516 | 1520 | 1526 | rVB3 | 25577   | 44432   | 1.14%  | 0.104% |
| 40 | 11.335 | 1544 | 1547 | 1551 | rBV4 | 7128    | 11624   | 0.30%  | 0.027% |
| 41 | 11.439 | 1553 | 1564 | 1570 | rVB2 | 106427  | 242481  | 6.22%  | 0.567% |
| 42 | 11.512 | 1570 | 1576 | 1584 | rBV3 | 23640   | 45801   | 1.17%  | 0.107% |
| 43 | 11.628 | 1586 | 1595 | 1604 | rBV  | 1624289 | 2732018 | 70.08% | 6.391% |
| 44 | 11.689 | 1604 | 1605 | 1609 | rVV2 | 21410   | 28311   | 0.73%  | 0.066% |
| 45 | 11.725 | 1609 | 1611 | 1616 | rVB5 | 11696   | 19176   | 0.49%  | 0.045% |
| 46 | 11.841 | 1624 | 1630 | 1634 | rBV3 | 30966   | 57472   | 1.47%  | 0.134% |
| 47 | 12.067 | 1663 | 1667 | 1671 | rVB4 | 7759    | 12128   | 0.31%  | 0.028% |
| 48 | 12.140 | 1675 | 1679 | 1680 | rBV3 | 7270    | 10922   | 0.28%  | 0.026% |
| 49 | 12.250 | 1692 | 1697 | 1702 | rBV5 | 9666    | 18449   | 0.47%  | 0.043% |
| 50 | 12.603 | 1749 | 1755 | 1761 | rVB  | 273314  | 498843  | 12.80% | 1.167% |
| 51 | 12.689 | 1764 | 1769 | 1776 | rVB  | 674898  | 1088356 | 27.92% | 2.546% |
| 52 | 12.756 | 1776 | 1780 | 1782 | rBV3 | 12244   | 17564   | 0.45%  | 0.041% |
| 53 | 12.865 | 1783 | 1798 | 1801 | rBV4 | 156995  | 471146  | 12.09% | 1.102% |
| 54 | 12.932 | 1806 | 1809 | 1823 | rVB4 | 136660  | 293044  | 7.52%  | 0.686% |
| 55 | 13.103 | 1829 | 1837 | 1844 | rVB2 | 47918   | 111746  | 2.87%  | 0.261% |
| 56 | 13.188 | 1849 | 1851 | 1854 | rVB  | 12679   | 15269   | 0.39%  | 0.036% |
| 57 | 13.249 | 1854 | 1861 | 1865 | rBV  | 227782  | 397694  | 10.20% | 0.930% |
| 58 | 13.298 | 1865 | 1869 | 1884 | rVV6 | 153401  | 610042  | 15.65% | 1.427% |
| 59 | 13.408 | 1885 | 1887 | 1888 | rVV2 | 49049   | 50164   | 1.29%  | 0.117% |
| 60 | 13.445 | 1889 | 1893 | 1905 | rVV6 | 94369   | 338366  | 8.68%  | 0.792% |
| 61 | 13.554 | 1905 | 1911 | 1929 | rVB  | 1591074 | 2789111 | 71.55% | 6.525% |
| 62 | 13.719 | 1932 | 1938 | 1939 | rBV  | 101679  | 141410  | 3.63%  | 0.331% |
| 63 | 13.749 | 1939 | 1943 | 1946 | rVV2 | 258428  | 429957  | 11.03% | 1.006% |
| 64 | 13.792 | 1946 | 1950 | 1954 | rVV2 | 332476  | 627280  | 16.09% | 1.467% |
| 65 | 13.853 | 1954 | 1960 | 1968 | rVV  | 1468640 | 2600238 | 66.70% | 6.083% |
| 66 | 13.951 | 1971 | 1976 | 1981 | rVV2 | 129773  | 245610  | 6.30%  | 0.575% |
| 67 | 14.012 | 1981 | 1986 | 1988 | rVV  | 166294  | 291441  | 7.48%  | 0.682% |
| 68 | 14.036 | 1988 | 1990 | 1994 | rVV  | 200676  | 310101  | 7.95%  | 0.725% |
| 69 | 14.097 | 1994 | 2000 | 2008 | rVB2 | 380850  | 695006  | 17.83% | 1.626% |
| 70 | 14.201 | 2012 | 2017 | 2022 | rVB4 | 92710   | 162425  | 4.17%  | 0.380% |
| 71 | 14.286 | 2022 | 2031 | 2034 | rBV8 | 37072   | 97399   | 2.50%  | 0.228% |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK20

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
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 Stop Thrs : 0

Filtering: 5  
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 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\SOM2WLM122719S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 14.335 | 2035 | 2039 | 2045 | rVV2 | 73152  | 127868  | 3.28%  | 0.299% |
| 73  | 14.420 | 2045 | 2053 | 2056 | rVV  | 245676 | 436455  | 11.20% | 1.021% |
| 74  | 14.457 | 2056 | 2059 | 2063 | rVV  | 321579 | 451885  | 11.59% | 1.057% |
| 75  | 14.499 | 2063 | 2066 | 2069 | rVV  | 203366 | 272945  | 7.00%  | 0.639% |
| 76  | 14.536 | 2069 | 2072 | 2079 | rVB  | 90653  | 141060  | 3.62%  | 0.330% |
| 77  | 14.603 | 2079 | 2083 | 2085 | rBV  | 24044  | 31519   | 0.81%  | 0.074% |
| 78  | 14.639 | 2085 | 2089 | 2093 | rVV  | 121485 | 160662  | 4.12%  | 0.376% |
| 79  | 14.688 | 2093 | 2097 | 2099 | rVV2 | 121327 | 207433  | 5.32%  | 0.485% |
| 80  | 14.725 | 2099 | 2103 | 2108 | rVB3 | 214638 | 363987  | 9.34%  | 0.851% |
| 81  | 14.792 | 2108 | 2114 | 2120 | rBV3 | 219679 | 513480  | 13.17% | 1.201% |
| 82  | 14.853 | 2120 | 2124 | 2132 | rVB  | 131560 | 221372  | 5.68%  | 0.518% |
| 83  | 14.981 | 2142 | 2145 | 2148 | rVB2 | 17463  | 19664   | 0.50%  | 0.046% |
| 84  | 15.066 | 2148 | 2159 | 2170 | rBV4 | 348854 | 1116433 | 28.64% | 2.612% |
| 85  | 15.176 | 2170 | 2177 | 2184 | rVB2 | 225388 | 515289  | 13.22% | 1.205% |
| 86  | 15.249 | 2185 | 2189 | 2196 | rVB6 | 44994  | 93125   | 2.39%  | 0.218% |
| 87  | 15.328 | 2196 | 2202 | 2204 | rBV6 | 57973  | 115139  | 2.95%  | 0.269% |
| 88  | 15.365 | 2204 | 2208 | 2212 | rVB  | 110394 | 179422  | 4.60%  | 0.420% |
| 89  | 15.432 | 2212 | 2219 | 2222 | rBV3 | 164113 | 329276  | 8.45%  | 0.770% |
| 90  | 15.469 | 2222 | 2225 | 2229 | rVB3 | 110226 | 164695  | 4.22%  | 0.385% |
| 91  | 15.548 | 2236 | 2238 | 2243 | rVB2 | 113621 | 159676  | 4.10%  | 0.374% |
| 92  | 15.658 | 2249 | 2256 | 2265 | rVB  | 222642 | 461941  | 11.85% | 1.081% |
| 93  | 15.725 | 2265 | 2267 | 2271 | rVB2 | 21755  | 29106   | 0.75%  | 0.068% |
| 94  | 15.822 | 2271 | 2283 | 2286 | rBV3 | 130920 | 357543  | 9.17%  | 0.836% |
| 95  | 15.950 | 2299 | 2304 | 2310 | rVV2 | 81741  | 153164  | 3.93%  | 0.358% |
| 96  | 16.029 | 2310 | 2317 | 2323 | rVB4 | 99817  | 253282  | 6.50%  | 0.593% |
| 97  | 16.377 | 2362 | 2374 | 2379 | rBV6 | 66876  | 226706  | 5.82%  | 0.530% |
| 98  | 16.432 | 2380 | 2383 | 2388 | rVV4 | 45823  | 104867  | 2.69%  | 0.245% |
| 99  | 16.481 | 2389 | 2391 | 2404 | rVB7 | 41728  | 93176   | 2.39%  | 0.218% |
| 100 | 16.645 | 2410 | 2418 | 2426 | rBV2 | 128656 | 316724  | 8.12%  | 0.741% |

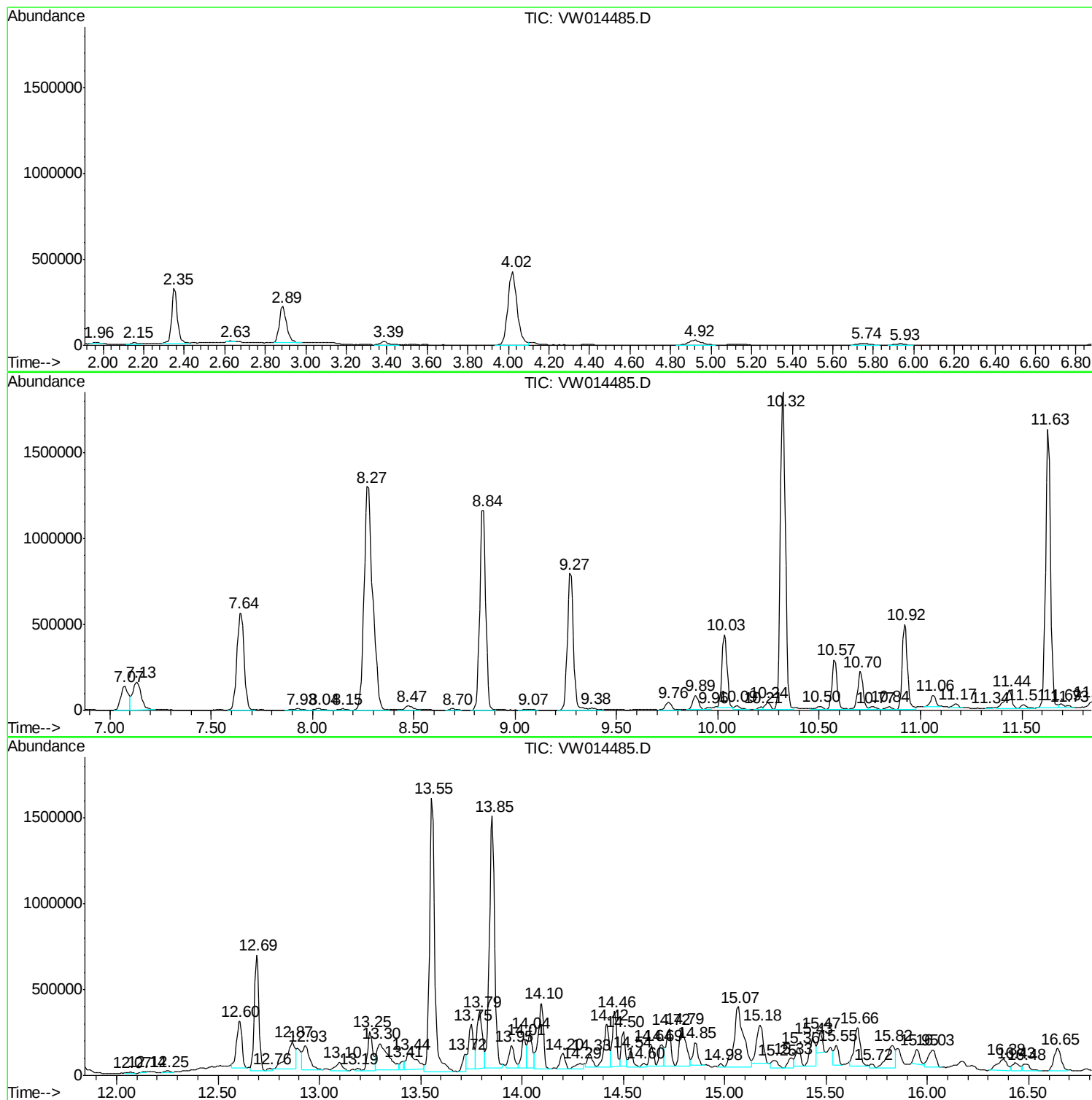
Sum of corrected areas: 42747783

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Instrument :  
MSVOA\_W  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

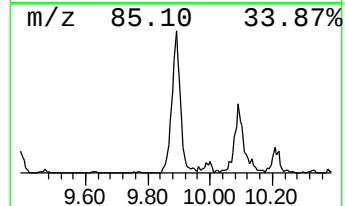
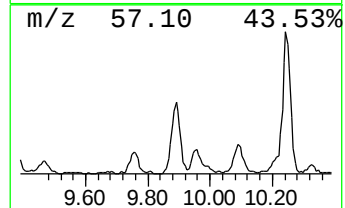
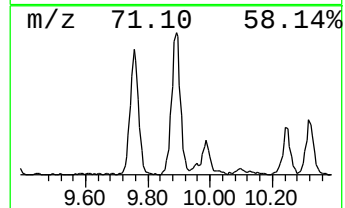
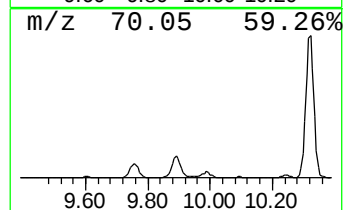
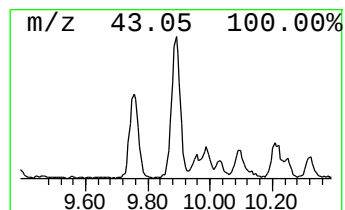
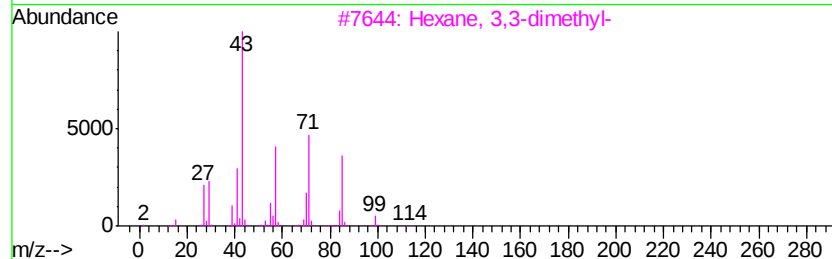
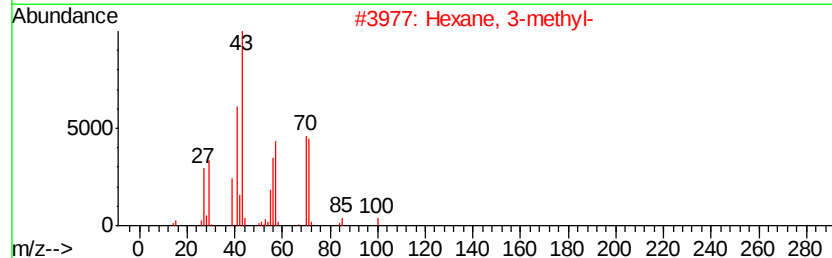
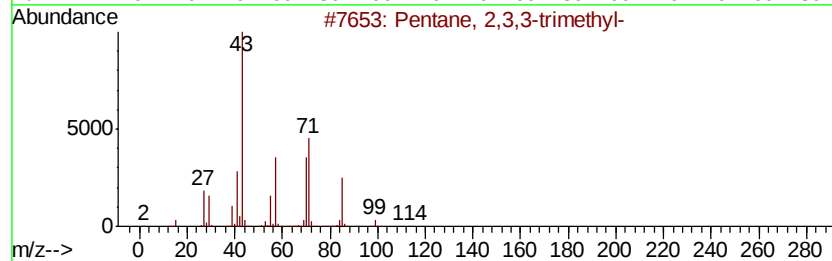
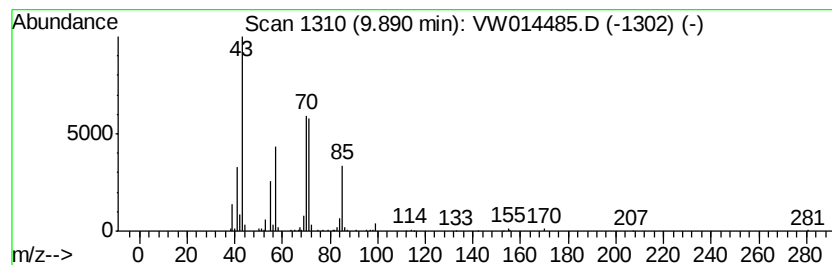
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 9.89 | 1.83 ug/L | 172728 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 64   |
| 2    |    | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 64   |
| 3    |    | Hexane, 3,3-dimethyl-     | 114 | C8H18   | 000563-16-6 | 59   |
| 4    |    | Heptane, 3,3,4-trimethyl- | 142 | C10H22  | 020278-87-9 | 59   |
| 5    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 59   |



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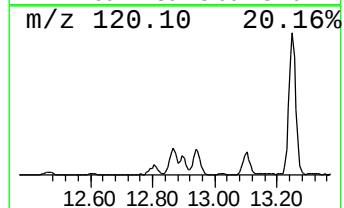
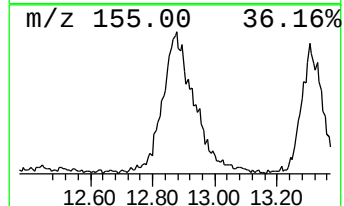
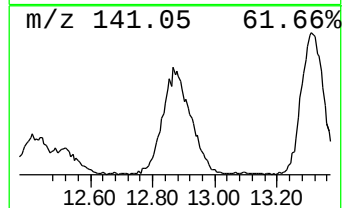
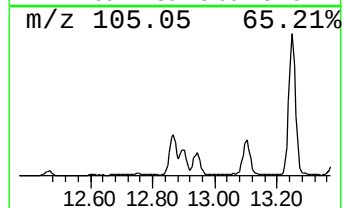
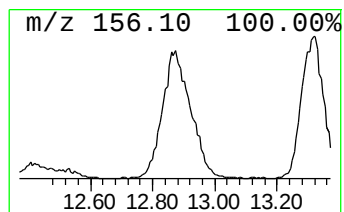
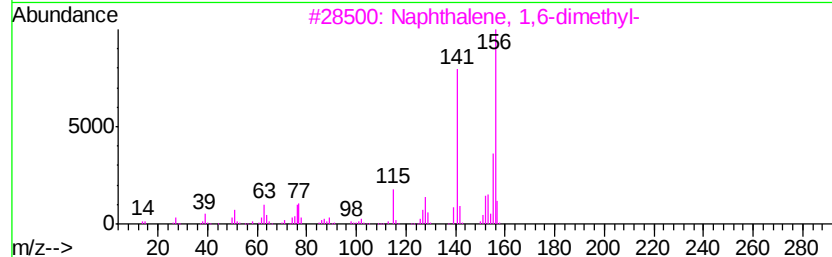
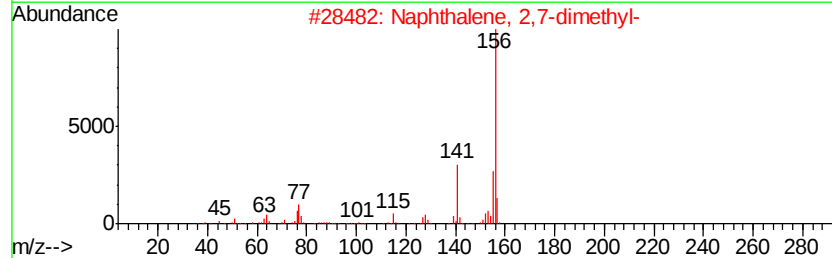
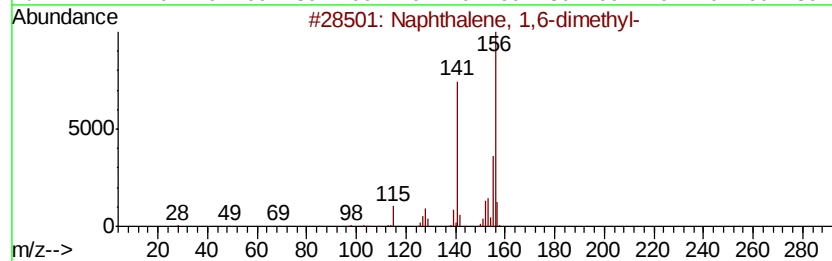
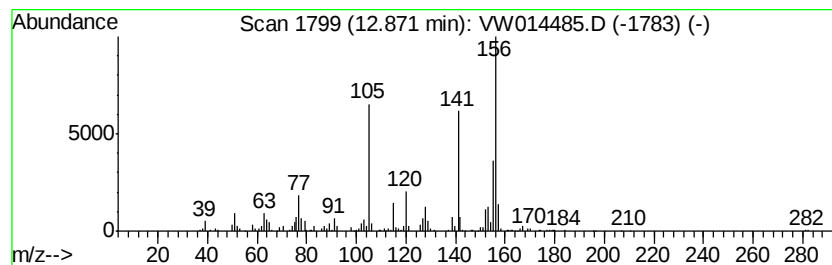
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 8 Naphthalene, 1,6-dimethyl- Concentration Rank 10

| R.T.    | EstConc   | Area                       | Relative to ISTD       | R.T.           |
|---------|-----------|----------------------------|------------------------|----------------|
| 12.87   | 4.22 ug/L | 471146                     | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5         | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |           | Naphthalene, 1,6-dimethyl- | 156 C12H12             | 000575-43-9 96 |
| 2       |           | Naphthalene, 2,7-dimethyl- | 156 C12H12             | 000582-16-1 96 |
| 3       |           | Naphthalene, 1,6-dimethyl- | 156 C12H12             | 000575-43-9 96 |
| 4       |           | Naphthalene, 2,7-dimethyl- | 156 C12H12             | 000582-16-1 96 |
| 5       |           | Naphthalene, 1,6-dimethyl- | 156 C12H12             | 000575-43-9 96 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

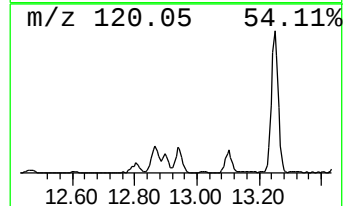
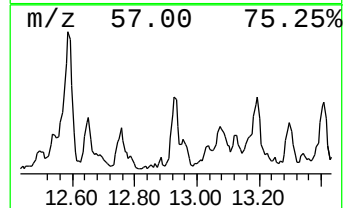
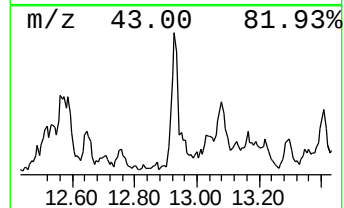
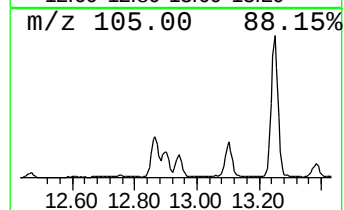
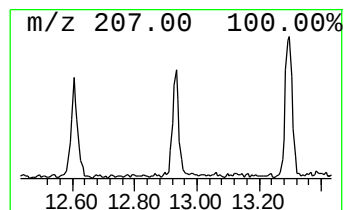
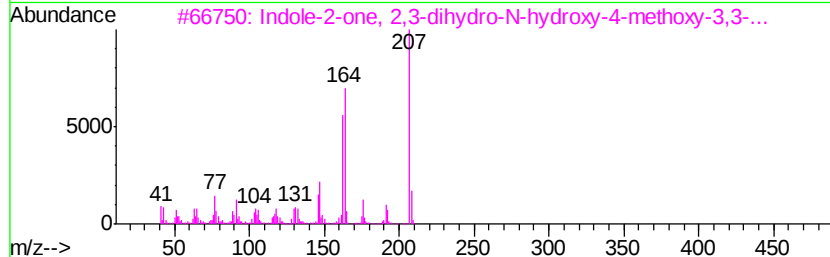
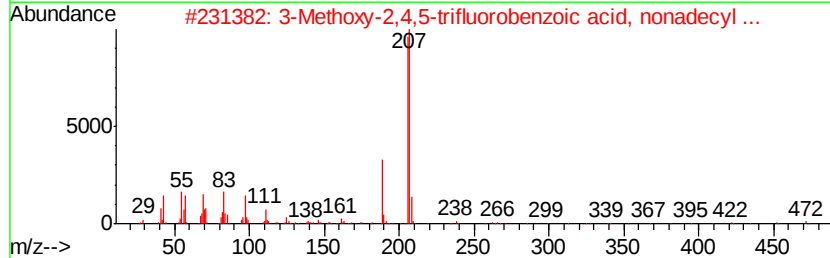
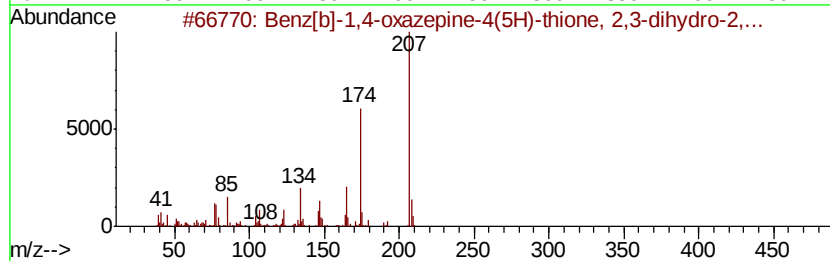
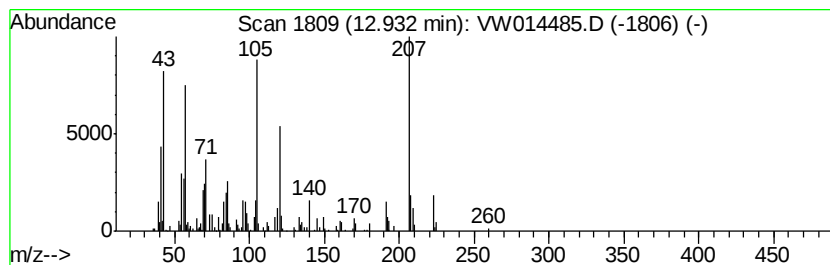
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown-01 Concentration Rank 23

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.93 | 2.63 ug/L | 293044 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Benz[b]-1,4-oxazepine-4(5H)-thio... | 207 | C11H13NOS  | 1000258-63-4 | 46   |
| 2    |    | 3-Methoxy-2,4,5-trifluorobenzoic... | 472 | C27H43F3O3 | 1000338-77-6 | 38   |
| 3    |    | Indole-2-one, 2,3-dihydro-N-hydr... | 207 | C11H13NO3  | 1000129-52-1 | 38   |
| 4    |    | 1,4-Bis(trimethylsilyl)benzene      | 222 | C12H22Si2  | 013183-70-5  | 38   |
| 5    |    | 2-Methyl-7-phenylindole             | 207 | C15H13N    | 001140-08-5  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

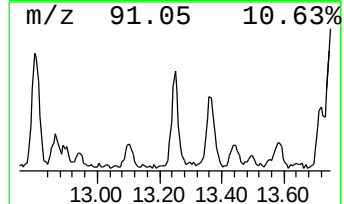
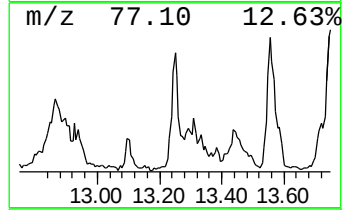
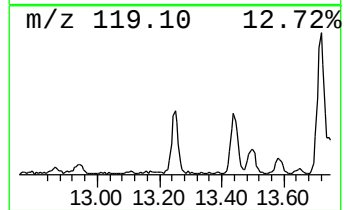
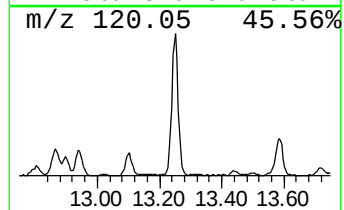
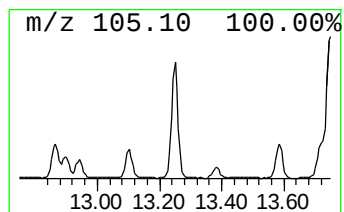
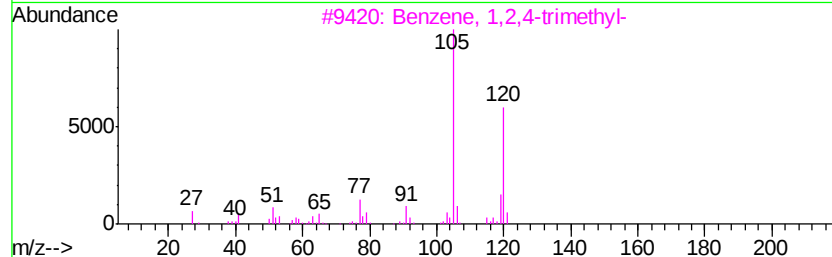
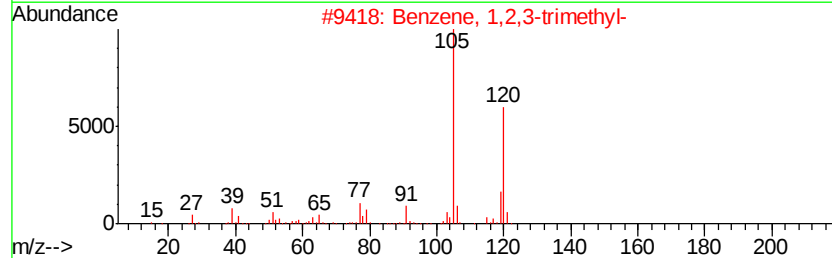
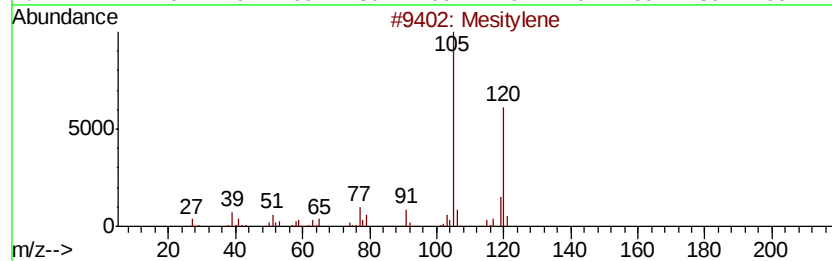
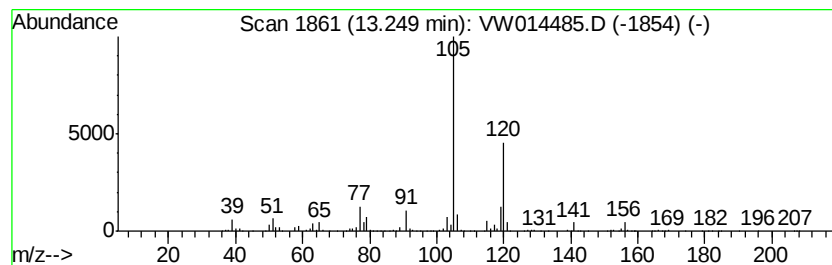
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Mesitylene Concentration Rank 16

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.25 | 3.56 ug/L | 397694 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Mesitylene                | 120 | C9H12   | 000108-67-8 | 95   |
| 2    |    |   | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 95   |
| 3    |    |   | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |
| 4    |    |   | Mesitylene                | 120 | C9H12   | 000108-67-8 | 94   |
| 5    |    |   | Mesitylene                | 120 | C9H12   | 000108-67-8 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

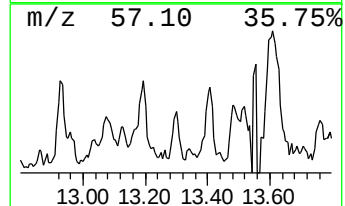
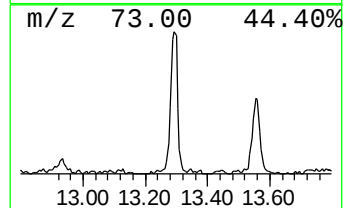
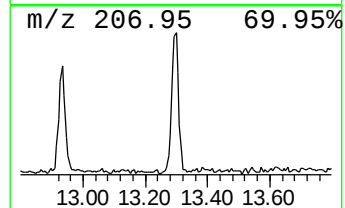
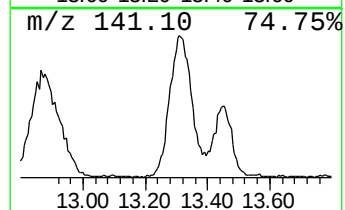
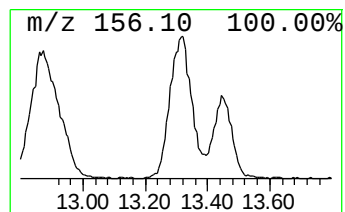
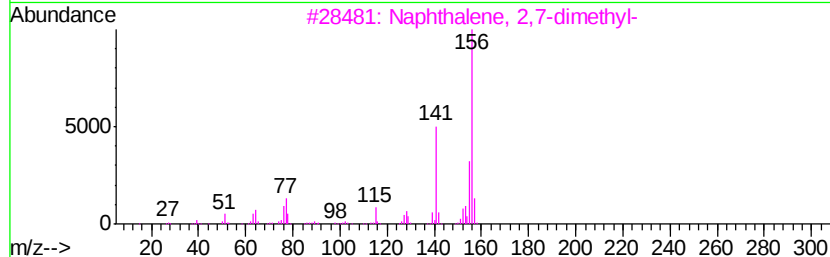
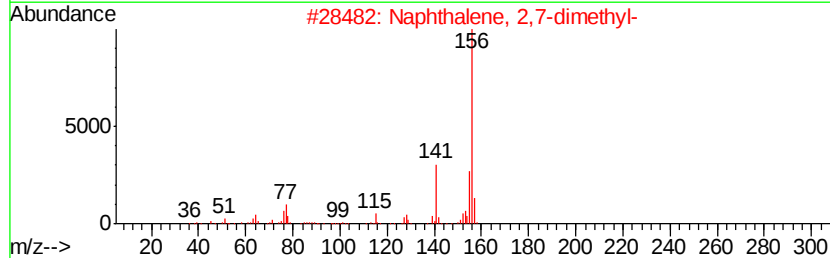
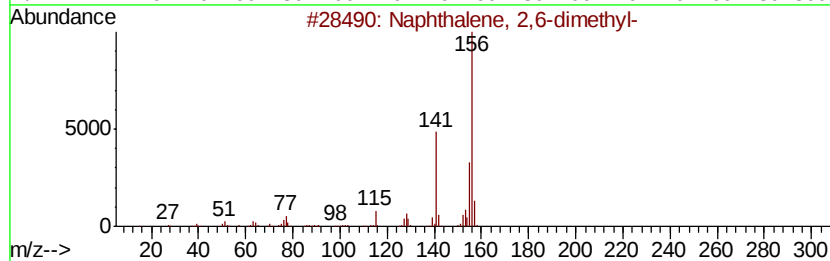
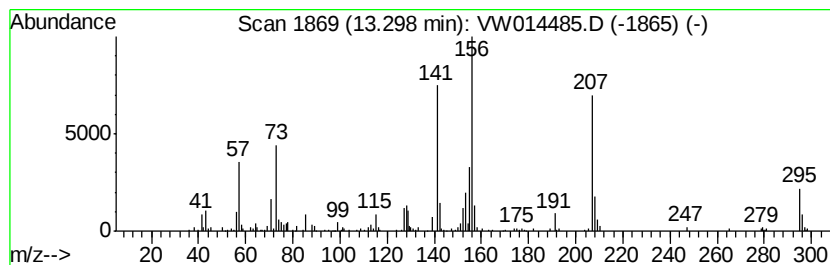
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 11 Naphthalene, 2,6-dimethyl- Concentration Rank 5

| R.T.      | EstConc                    | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|--------|------------------------|-------------|------|
| 13.30     | 5.47 ug/L                  | 610042 | 1,4-Dichlorobenzene-d4 | 13.55       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 2,6-dimethyl- | 156    | C12H12                 | 000581-42-0 | 86   |
| 2         | Naphthalene, 2,7-dimethyl- | 156    | C12H12                 | 000582-16-1 | 70   |
| 3         | Naphthalene, 2,7-dimethyl- | 156    | C12H12                 | 000582-16-1 | 64   |
| 4         | Naphthalene, 1,5-dimethyl- | 156    | C12H12                 | 000571-61-9 | 64   |
| 5         | Naphthalene, 1,7-dimethyl- | 156    | C12H12                 | 000575-37-1 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

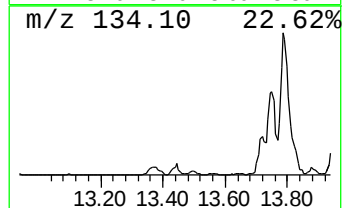
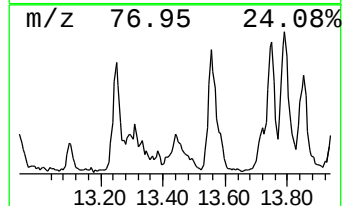
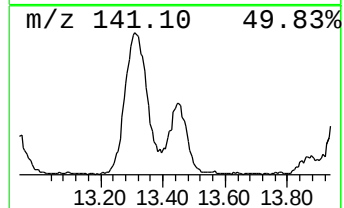
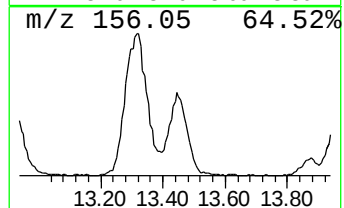
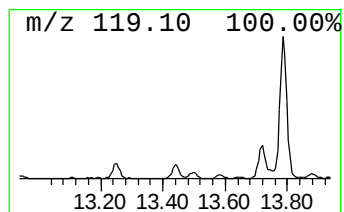
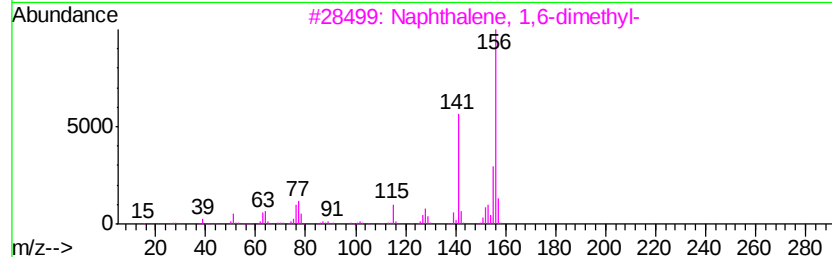
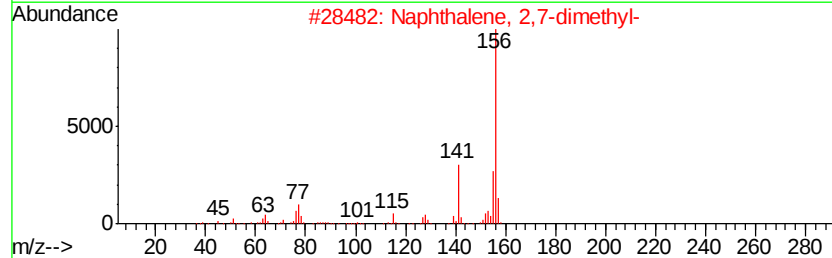
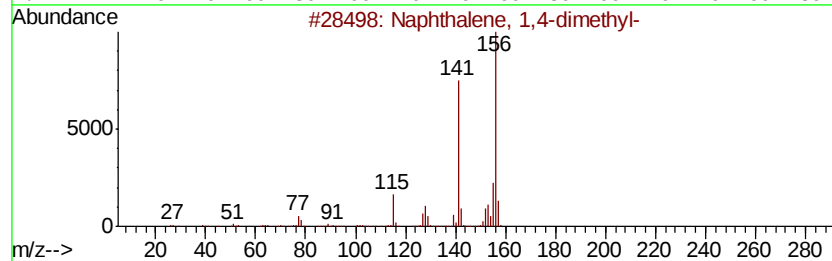
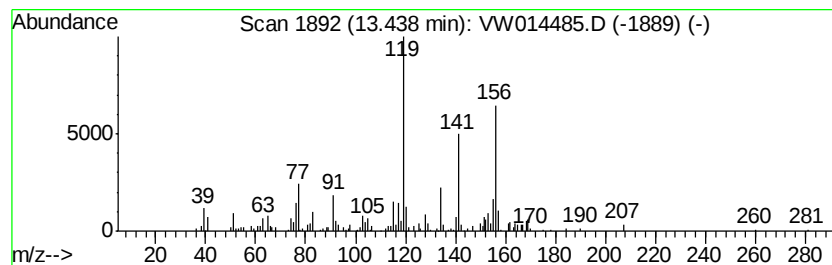
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 unknown-02 Concentration Rank 19

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.44 | 3.03 ug/L | 338366 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,4-dimethyl-     | 156 | C12H12  | 000571-58-4 | 49   |
| 2    |    |   | Naphthalene, 2,7-dimethyl-     | 156 | C12H12  | 000582-16-1 | 46   |
| 3    |    |   | Naphthalene, 1,6-dimethyl-     | 156 | C12H12  | 000575-43-9 | 46   |
| 4    |    |   | Naphthalene, 1,4-dimethyl-     | 156 | C12H12  | 000571-58-4 | 46   |
| 5    |    |   | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

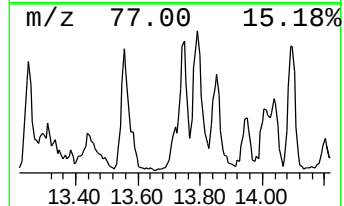
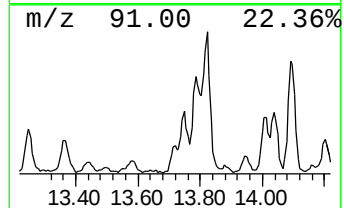
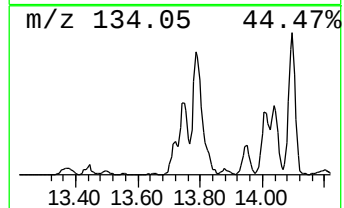
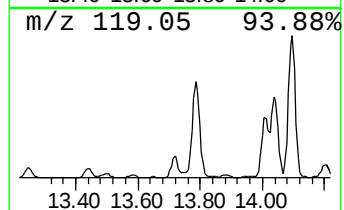
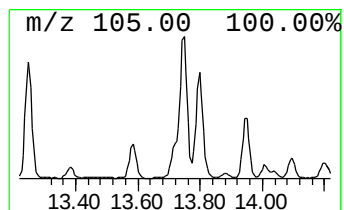
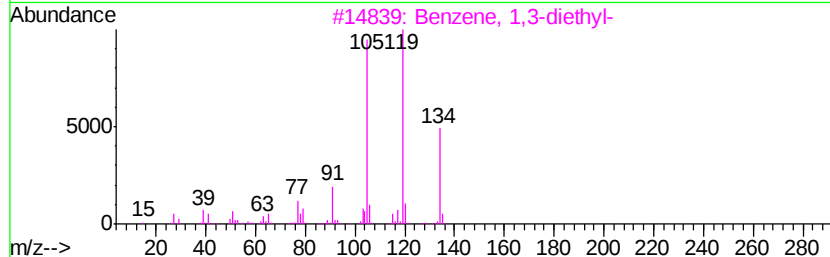
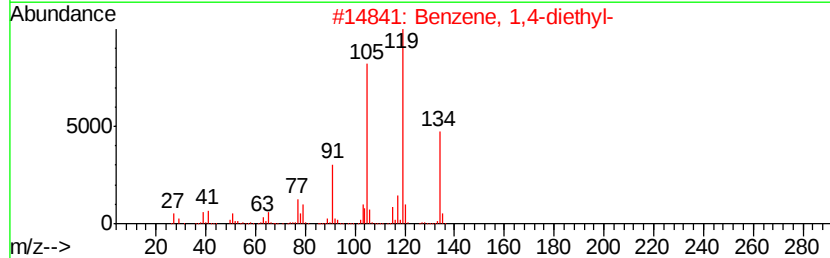
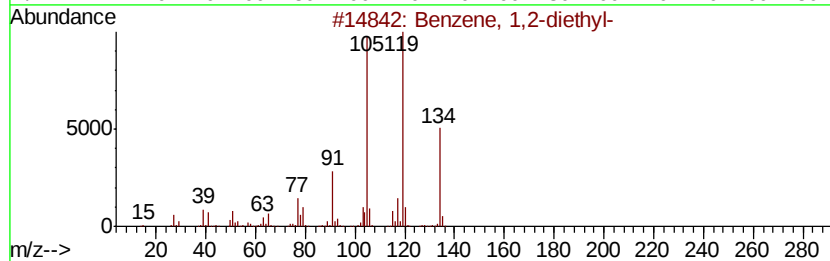
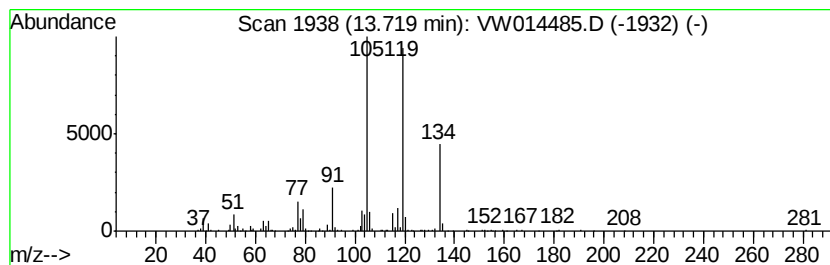
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzene, 1,2-diethyl- Concentration Rank 40

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.72 | 1.27 ug/L | 141410 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 96   |
| 2    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 95   |
| 3    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 94   |
| 4    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 93   |
| 5    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

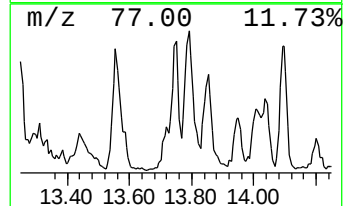
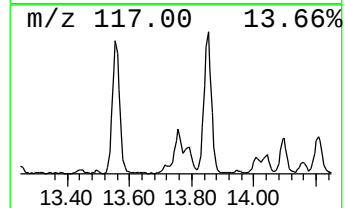
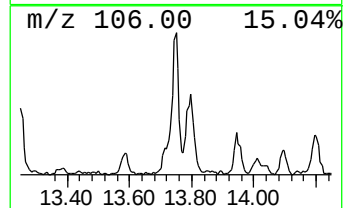
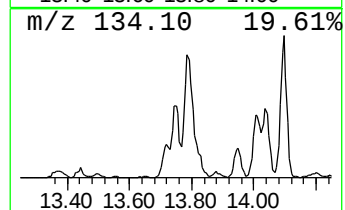
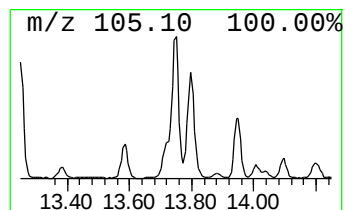
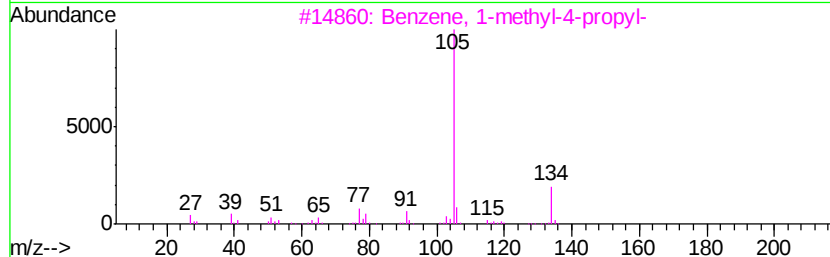
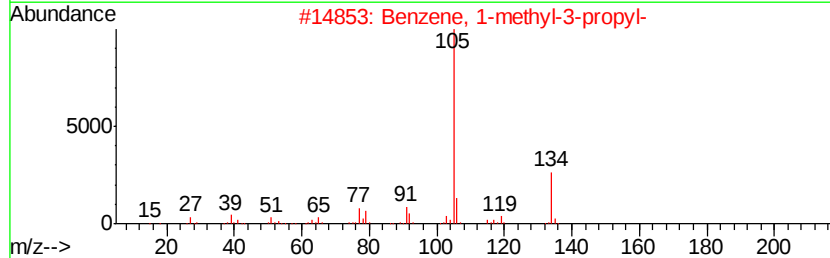
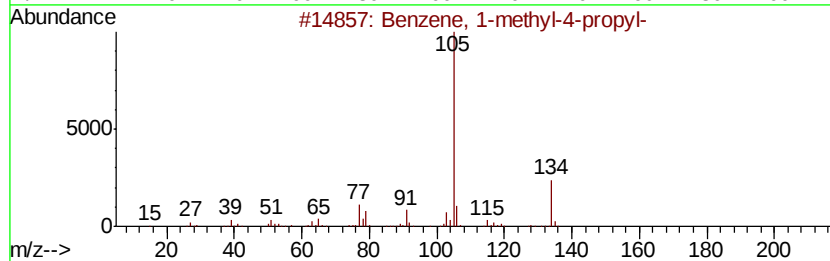
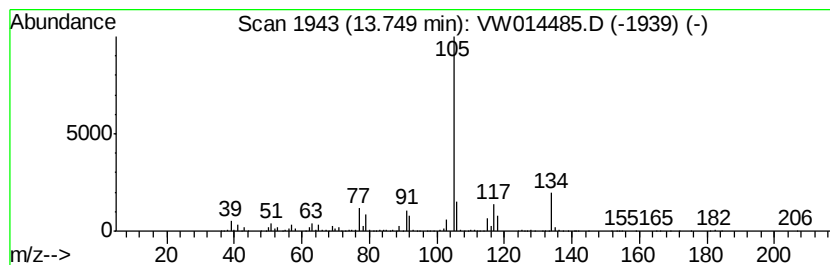
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Benzene, 1-methyl-4-propyl- Concentration Rank 14

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.75 | 3.85 ug/L | 429957 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 83   |
| 2    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 80   |
| 3    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 80   |
| 4    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 80   |
| 5    |    | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 74   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

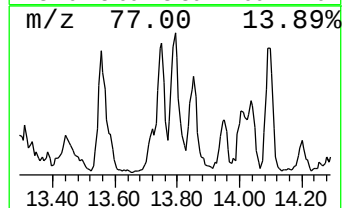
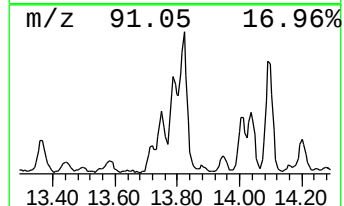
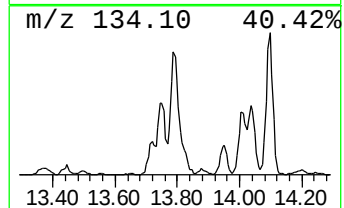
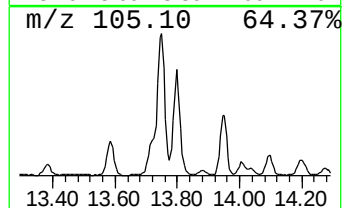
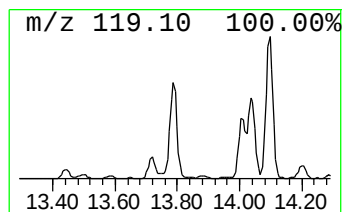
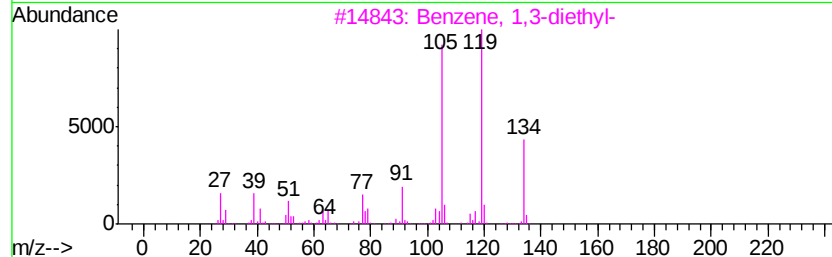
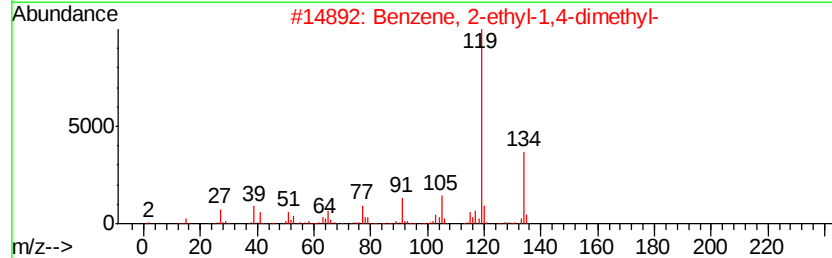
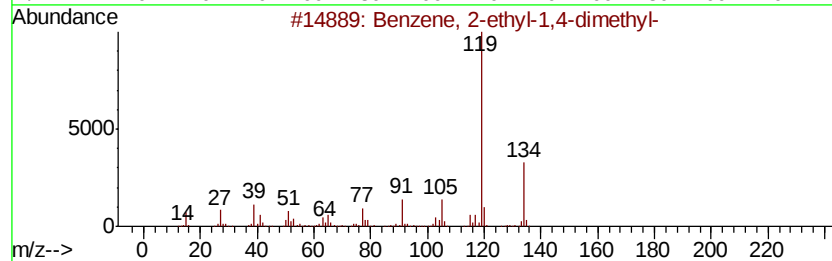
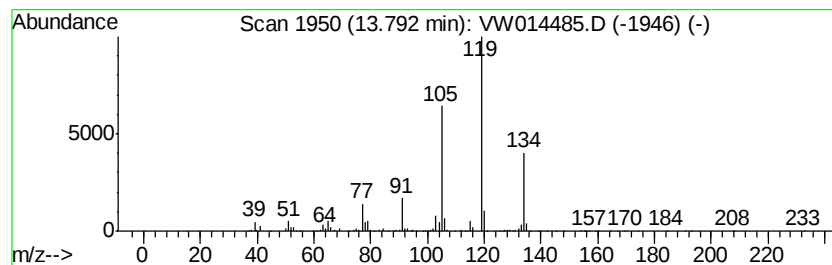
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.79 | 5.62 ug/L | 627280 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 3    |    | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 91   |
| 4    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 91   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

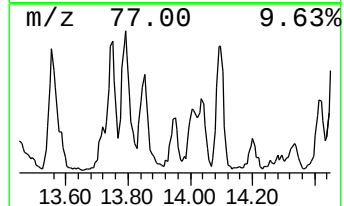
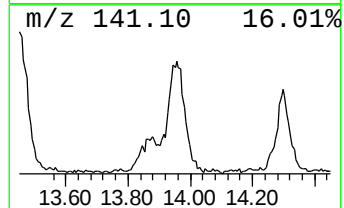
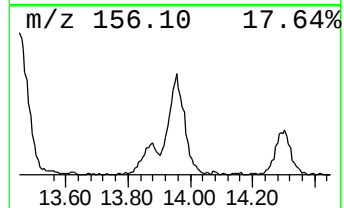
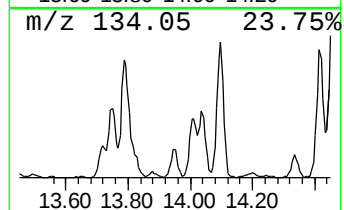
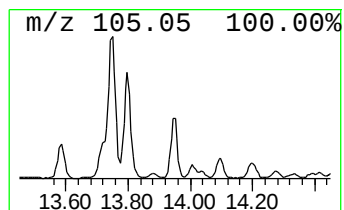
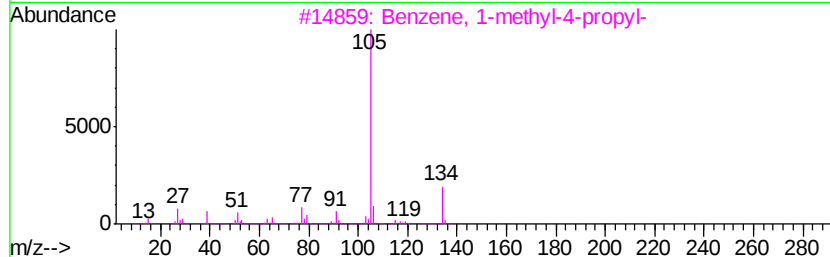
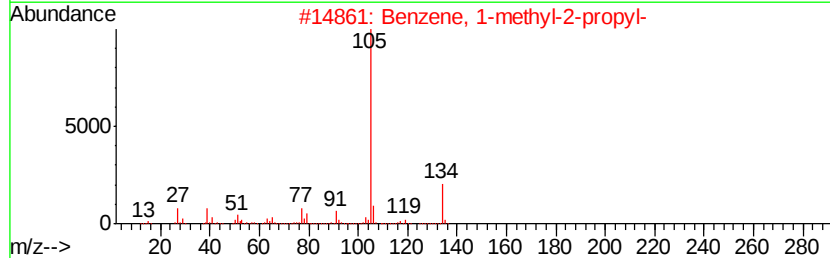
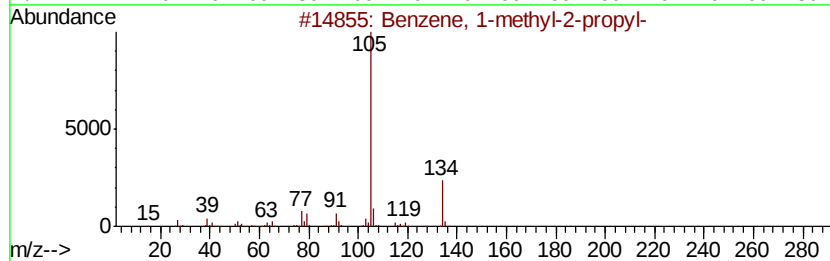
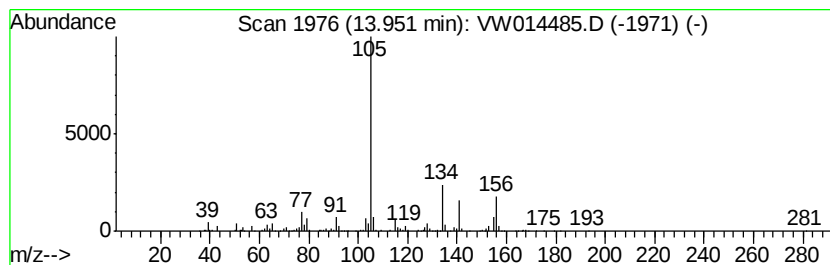
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Benzene, 1-methyl-2-propyl- Concentration Rank 28

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.95 | 2.20 ug/L | 245610 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 64   |
| 2    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 53   |
| 3    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 53   |
| 4    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 53   |
| 5    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

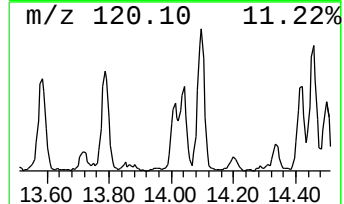
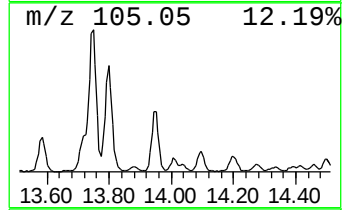
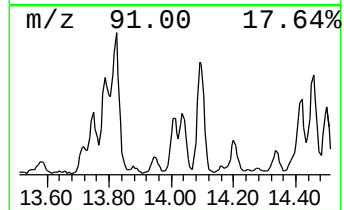
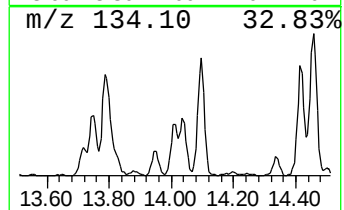
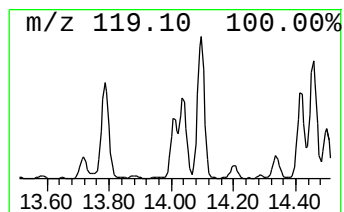
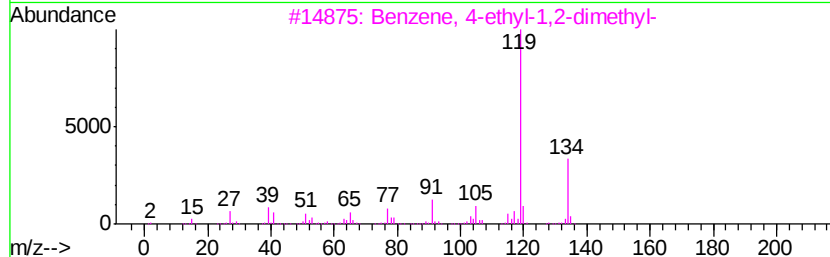
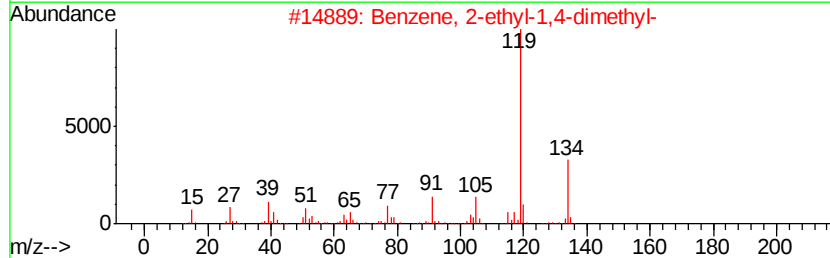
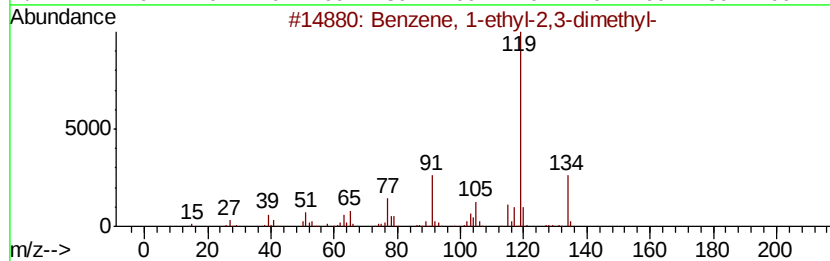
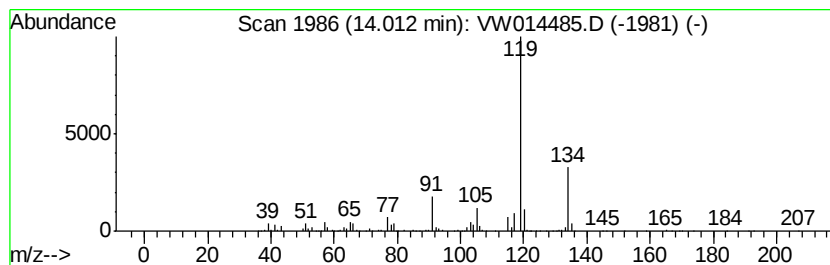
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 24

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.01 | 2.61 ug/L | 291441 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 94   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 94   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 94   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

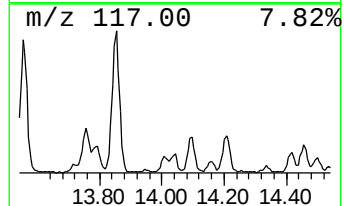
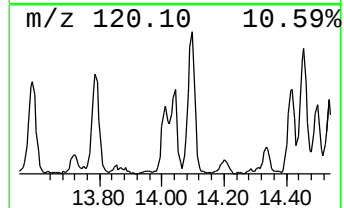
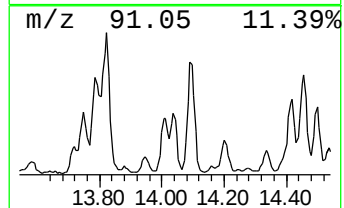
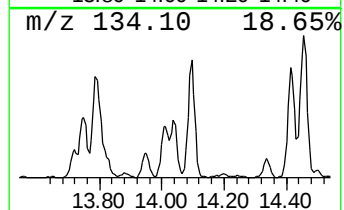
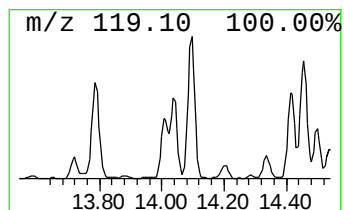
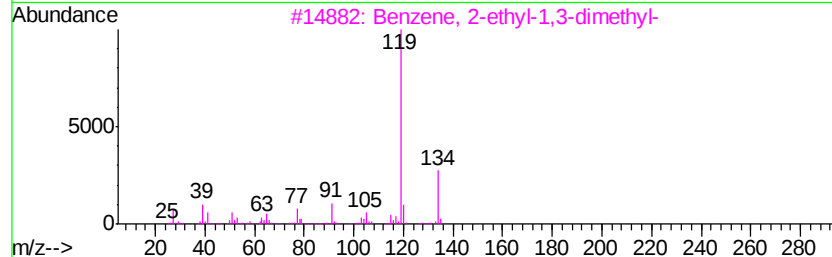
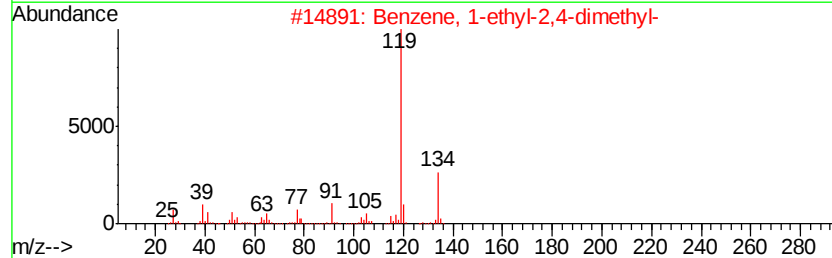
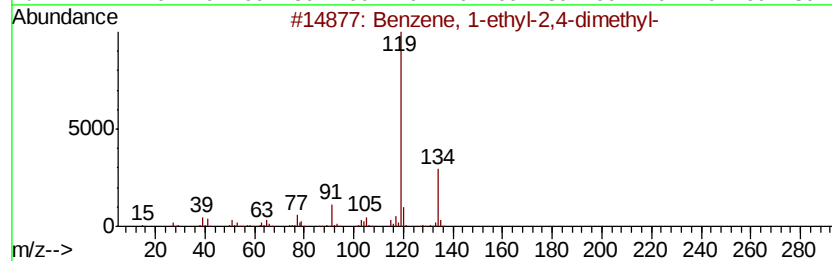
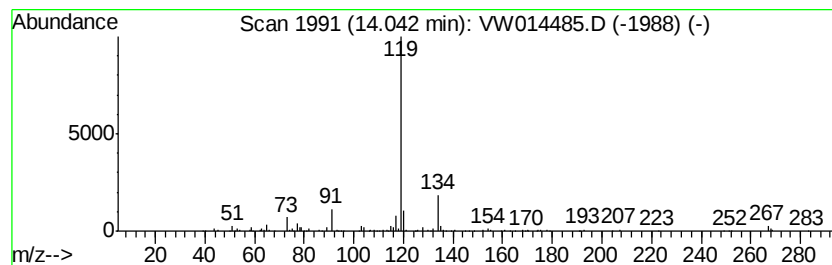
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 22

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.04 | 2.78 ug/L | 310101 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 90   |
| 2    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 90   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 90   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 90   |
| 5    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

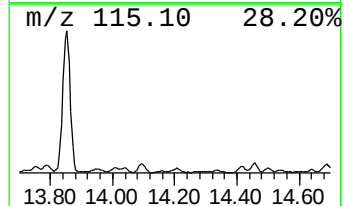
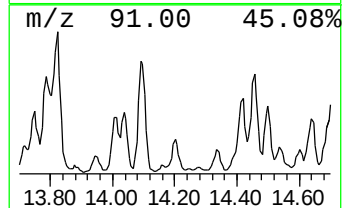
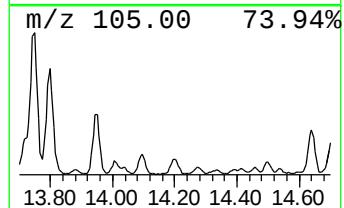
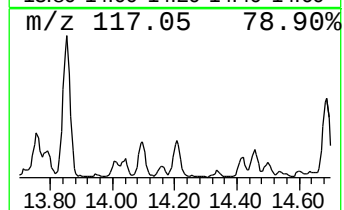
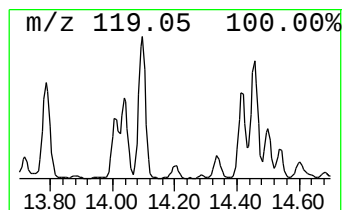
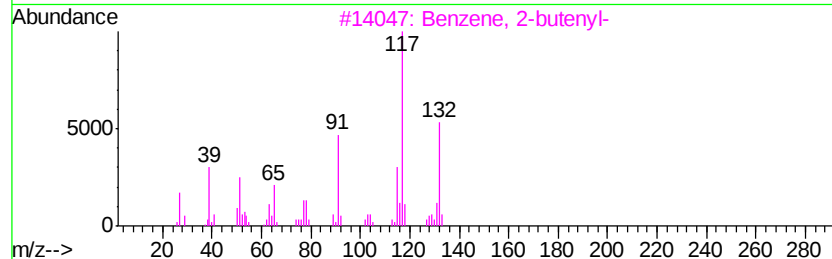
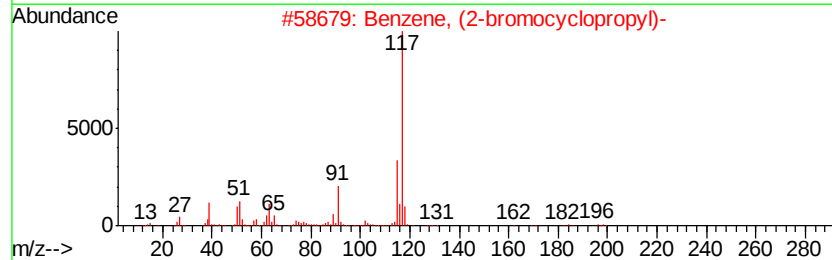
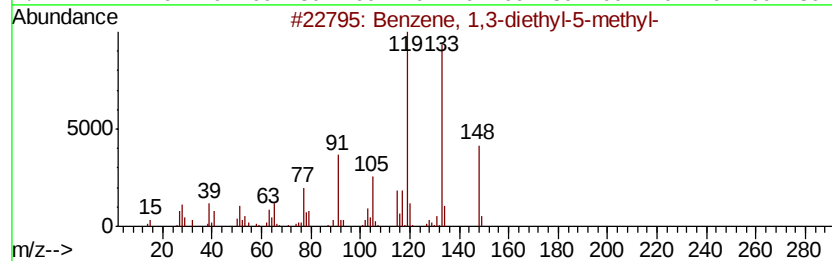
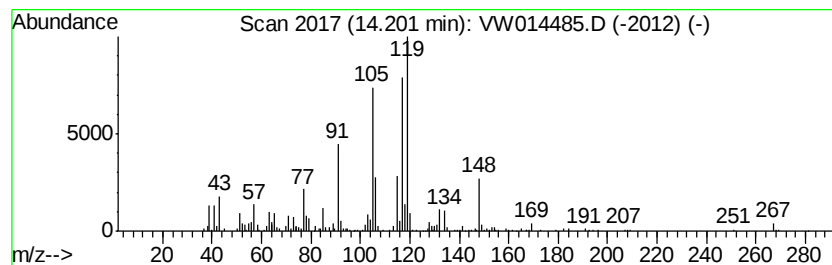
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 unknown-03 Concentration Rank 35

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.20 | 1.46 ug/L | 162425 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethyl-5-methyl-    | 148 | C11H16  | 002050-24-0 | 38   |
| 2    |    | Benzene, (2-bromocyclopropyl)-    | 196 | C9H9Br  | 036617-02-4 | 38   |
| 3    |    | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 38   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl-    | 134 | C10H14  | 000933-98-2 | 38   |
| 5    |    | Benzene, (1-azido-1-methylethyl)- | 161 | C9H11N3 | 032366-26-0 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

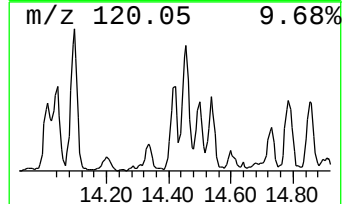
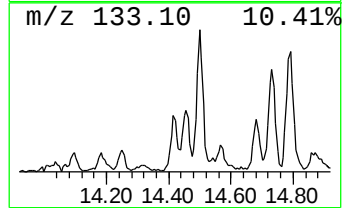
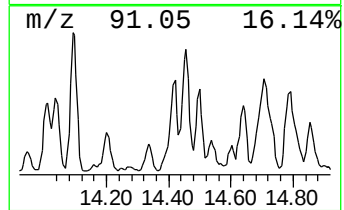
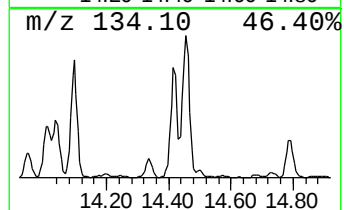
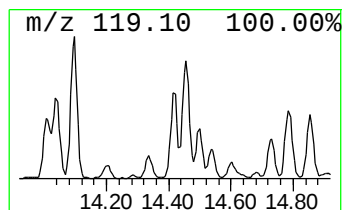
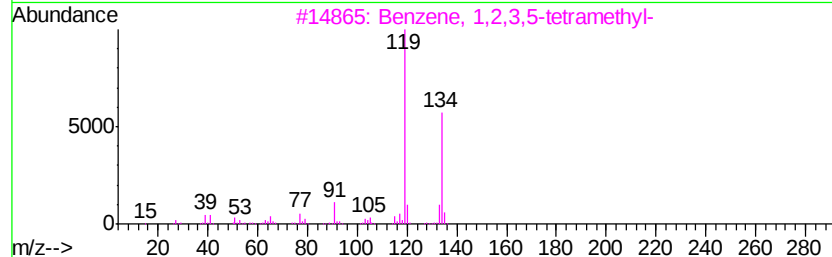
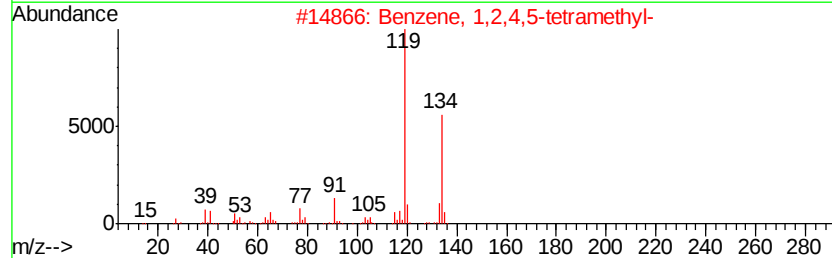
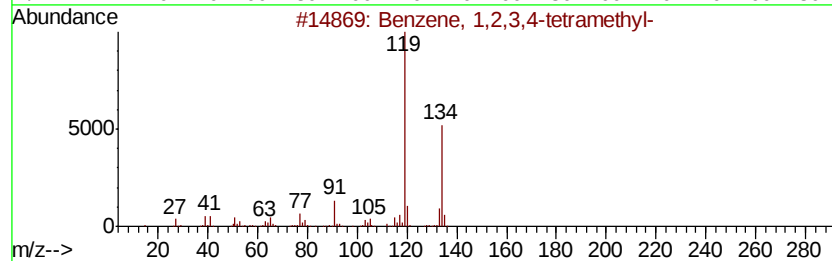
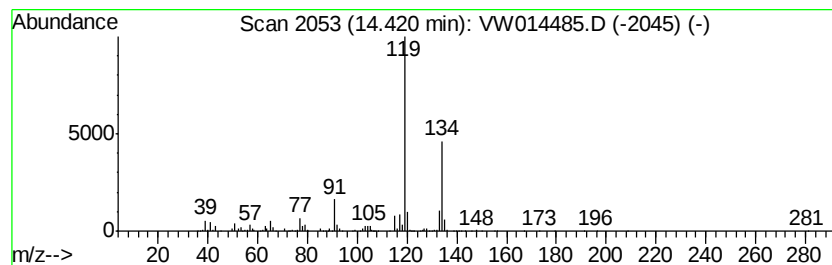
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 13

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.42 | 3.91 ug/L | 436455 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 94   |
| 2    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 94   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 94   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 94   |
| 5    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

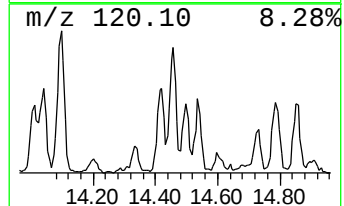
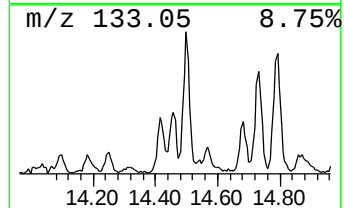
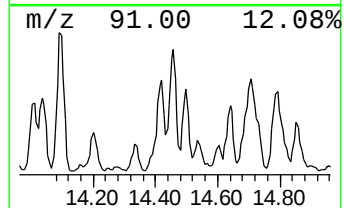
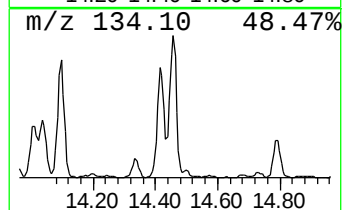
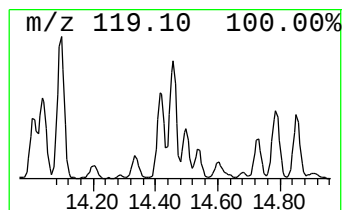
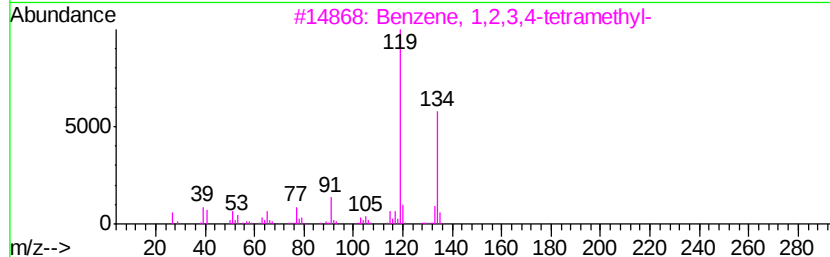
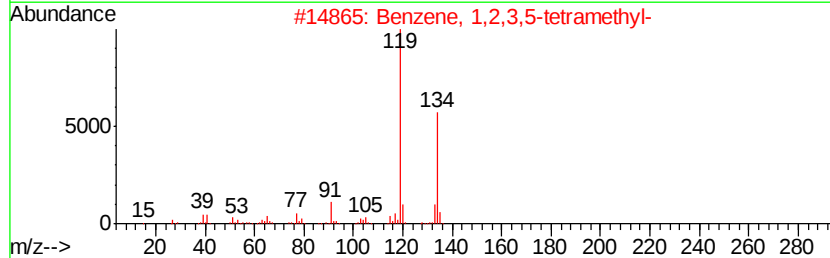
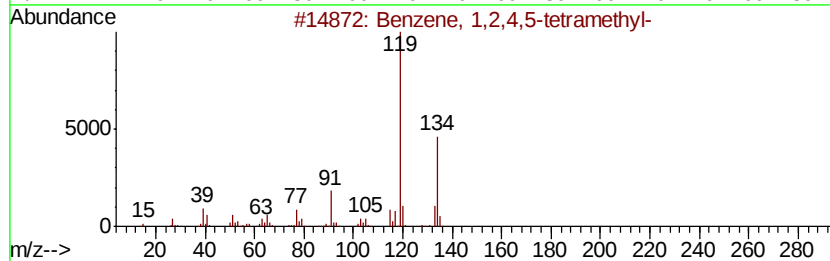
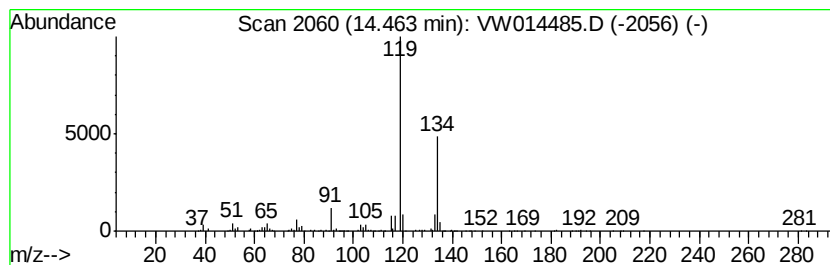
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 12

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.46 | 4.05 ug/L | 451885 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 95   |
| 2    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 94   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 94   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 94   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

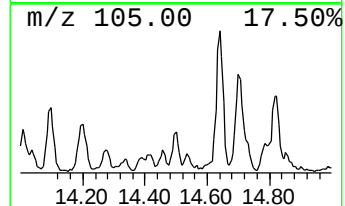
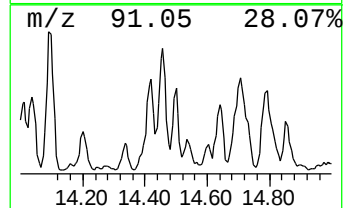
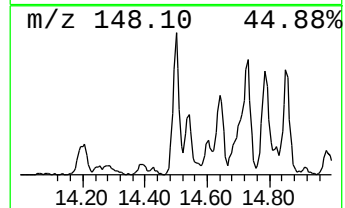
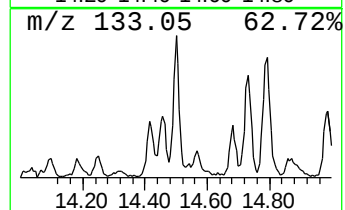
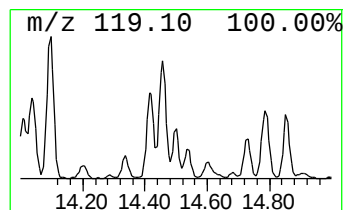
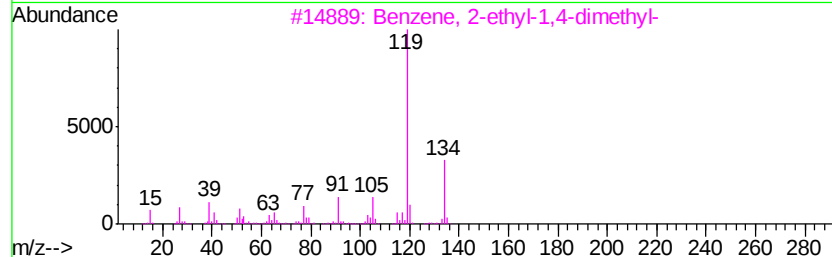
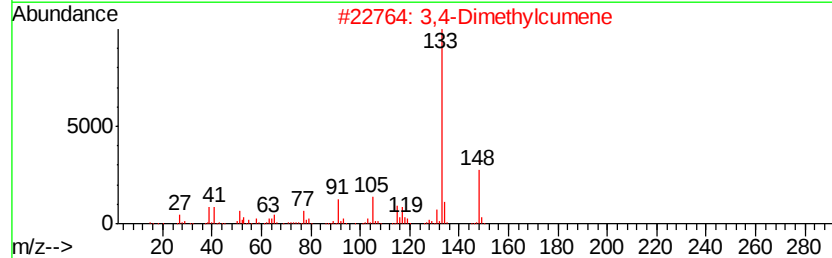
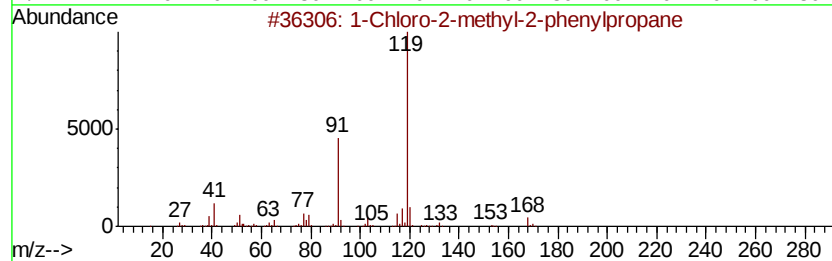
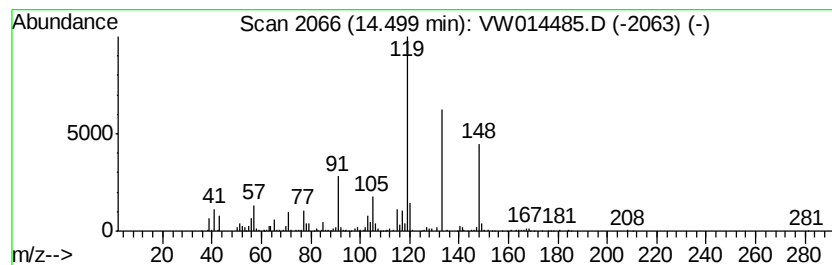
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 23 1-Chloro-2-methyl-2-phenylp... Concentration Rank 25

| R.T.      | EstConc                           | Area   | Relative to ISTD       | R.T.         |      |
|-----------|-----------------------------------|--------|------------------------|--------------|------|
| 14.50     | 2.45 ug/L                         | 272945 | 1,4-Dichlorobenzene-d4 | 13.55        |      |
| Hit# of 5 | Tentative ID                      | MW     | MolForm                | CAS#         | Qual |
| 1         | 1-Chloro-2-methyl-2-phenylpropane | 168    | C10H13Cl               | 000515-40-2  | 50   |
| 2         | 3,4-Dimethylcumene                | 148    | C11H16                 | 1000370-34-1 | 49   |
| 3         | Benzene, 2-ethyl-1,4-dimethyl-    | 134    | C10H14                 | 001758-88-9  | 49   |
| 4         | Benzene, 2-ethyl-1,4-dimethyl-    | 134    | C10H14                 | 001758-88-9  | 47   |
| 5         | Benzene, 4-ethyl-1,2-dimethyl-    | 134    | C10H14                 | 000934-80-5  | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

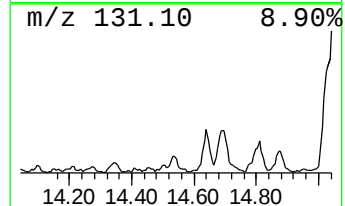
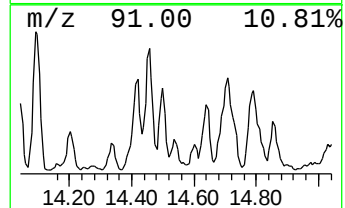
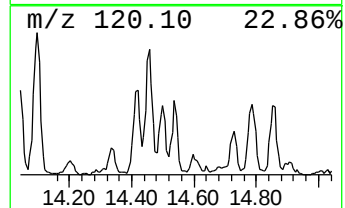
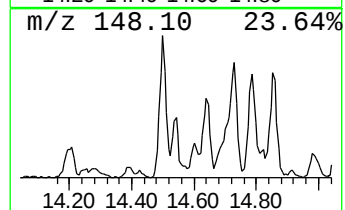
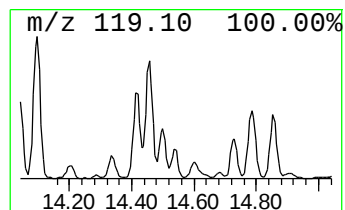
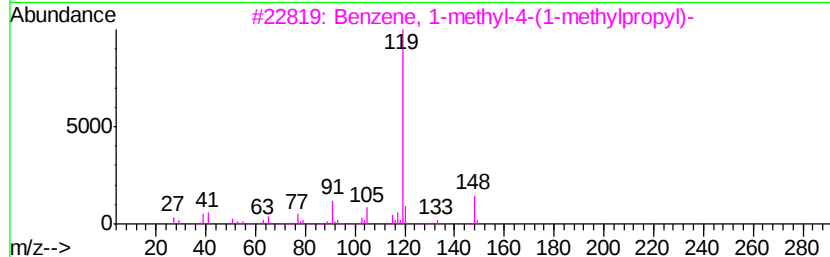
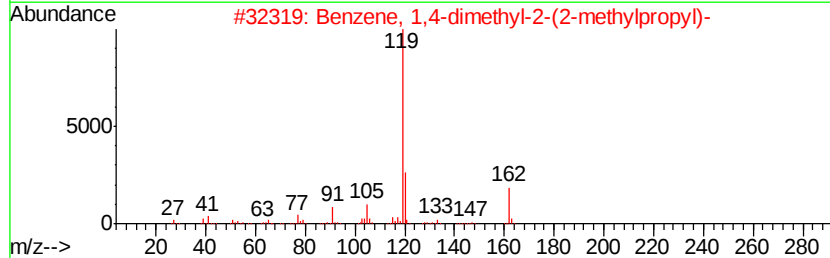
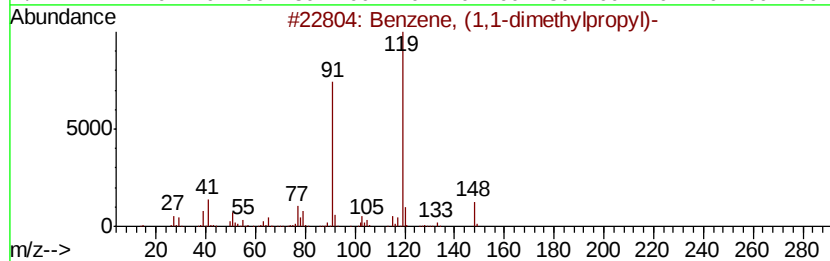
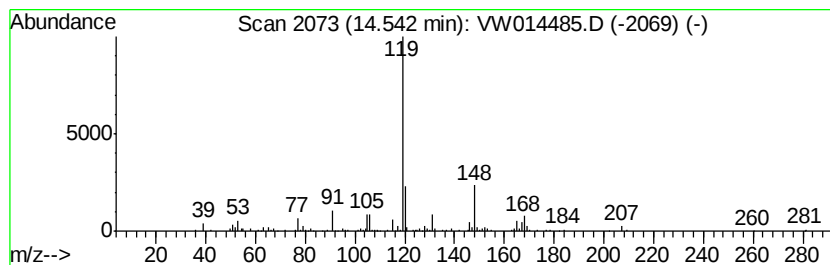
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 Benzene, (1,1-dimethylpropyl)- Concentration Rank 41

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.54 | 1.26 ug/L | 141060 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                              | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Benzene, (1,1-dimethylpropyl)-            | 148 | C11H16    | 002049-95-8 | 53   |
| 2    |    | Benzene, 1,4-dimethyl-2-(2-methylpropyl)- | 162 | C12H18    | 055669-88-0 | 53   |
| 3    |    | Benzene, 1-methyl-4-(1-methylpropyl)-     | 148 | C11H16    | 001595-16-0 | 52   |
| 4    |    | 1-Chloromethyl-3,5-dimethylbenzene        | 154 | C9H11Cl   | 002745-54-2 | 47   |
| 5    |    | Bis[3,4-dimethylbenzyl]sulfone            | 302 | C18H22O2S | 034277-83-3 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

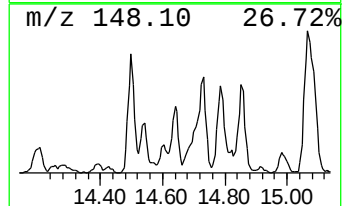
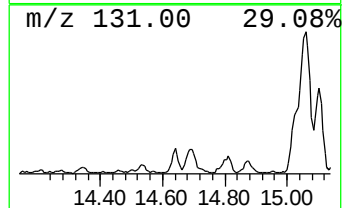
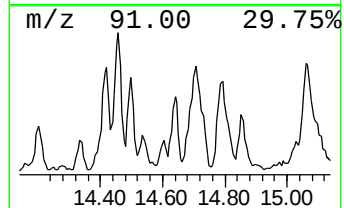
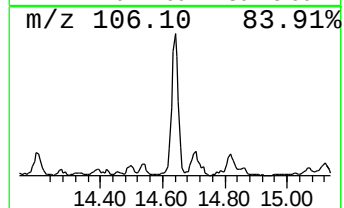
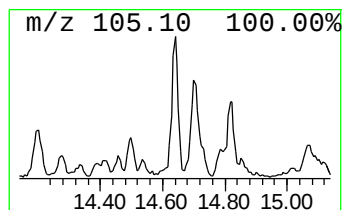
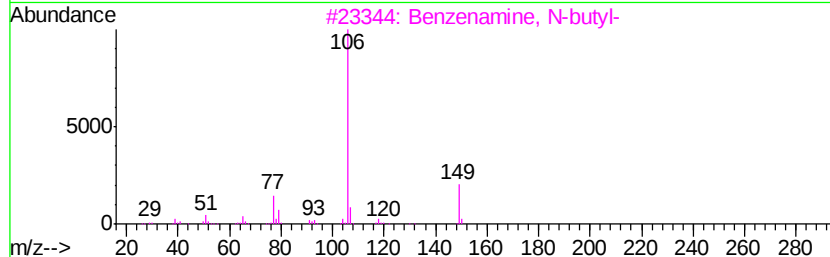
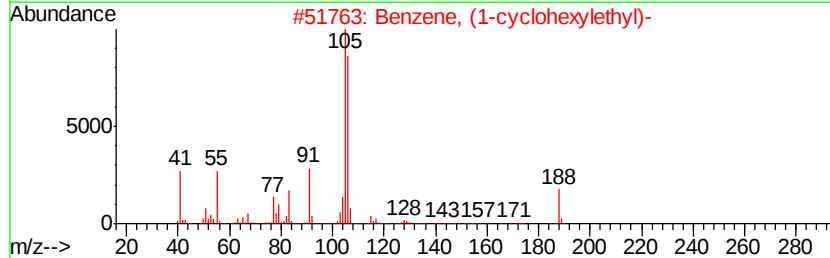
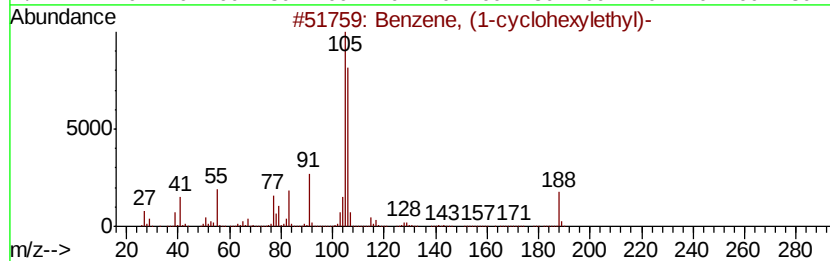
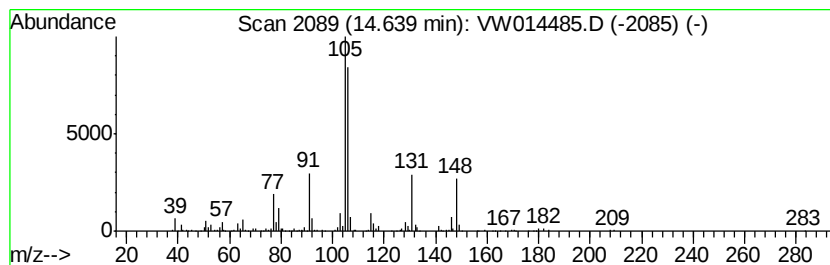
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 Benzene, (1-cyclohexylethyl)- Concentration Rank 36

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.64 | 1.44 ug/L | 160662 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-cyclohexylethyl)-       | 188 | C14H20  | 004413-16-5 | 50   |
| 2    |    | Benzene, (1-cyclohexylethyl)-       | 188 | C14H20  | 004413-16-5 | 50   |
| 3    |    | Benzenamine, N-butyl-               | 149 | C10H15N | 001126-78-9 | 38   |
| 4    |    | Benzene, (1,3-dimethylbutyl)-       | 162 | C12H18  | 019219-84-2 | 38   |
| 5    |    | Benzene, 1-methyl-4-(2-methylpro... | 148 | C11H16  | 005161-04-6 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

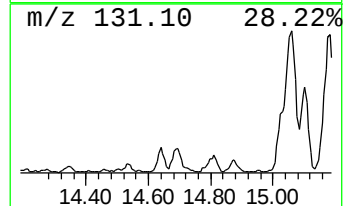
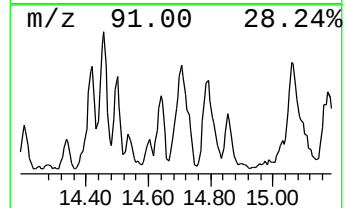
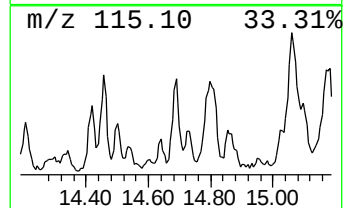
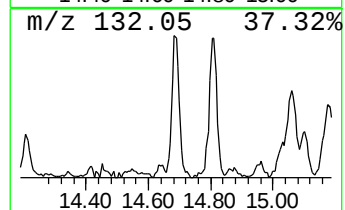
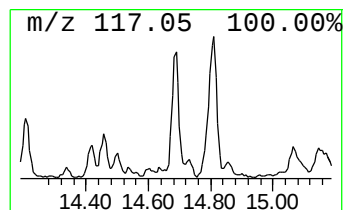
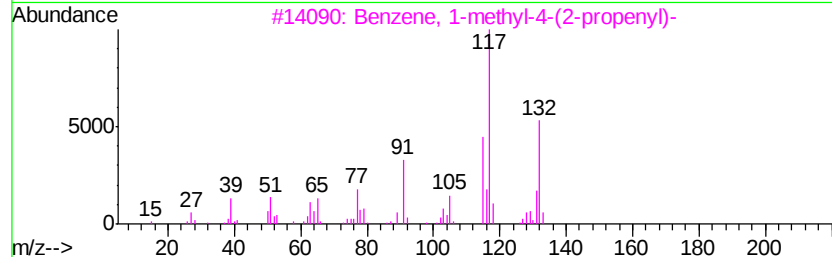
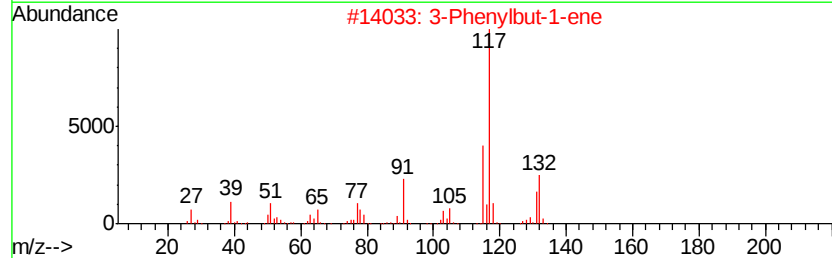
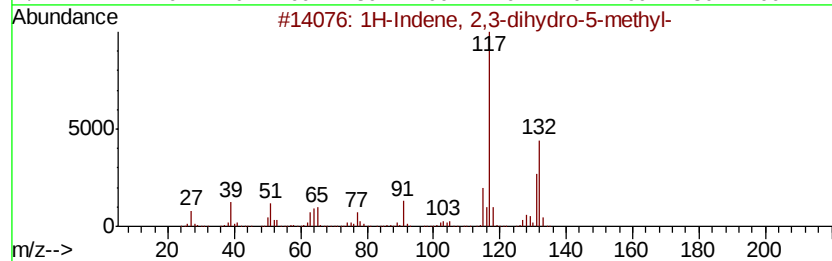
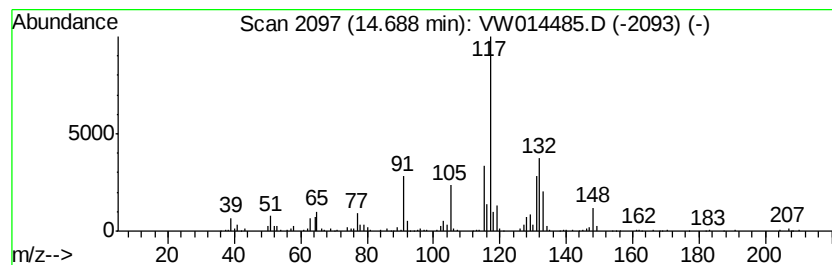
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 26 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 31

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.69 | 1.86 ug/L | 207433 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1H-Indene, 2,3-dihydro-5-methyl-  | 132 | C10H12  | 000874-35-1  | 70   |
| 2    |    |   | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1  | 68   |
| 3    |    |   | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9  | 62   |
| 4    |    |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8  | 62   |
| 5    |    |   | Benzene, (2-methylcyclopropyl)-   | 132 | C10H12  | 1000327-39-0 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

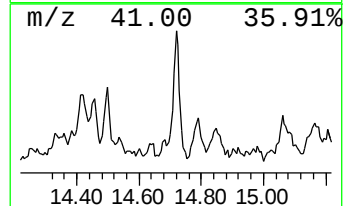
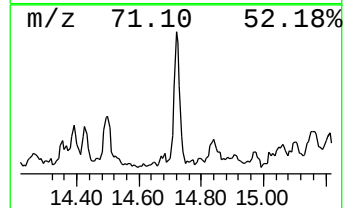
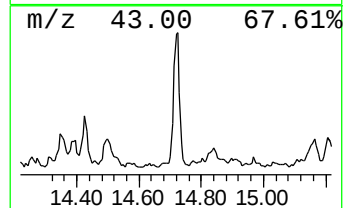
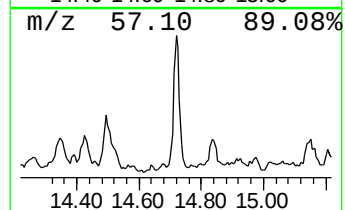
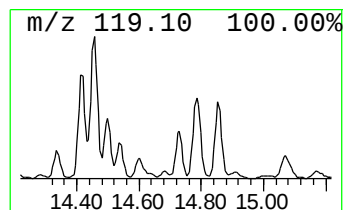
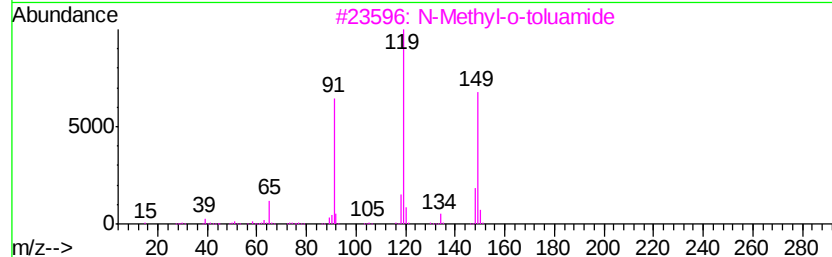
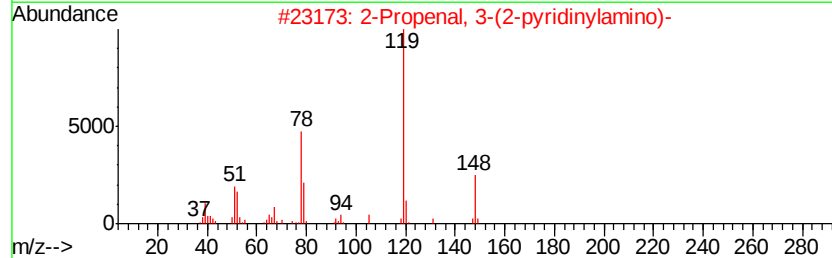
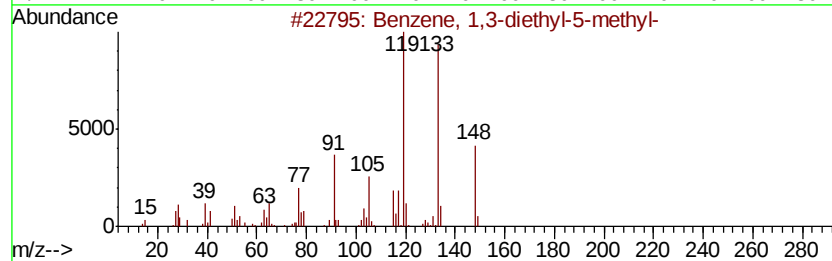
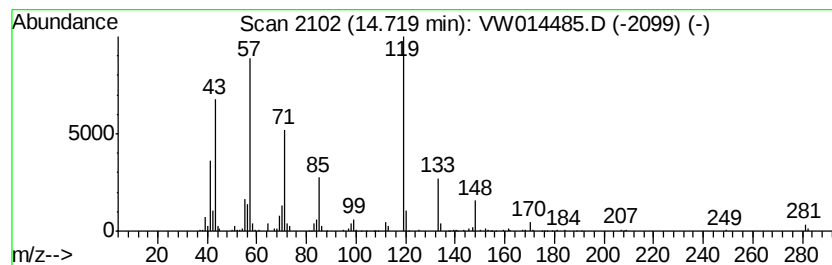
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 unknown-04 Concentration Rank 17

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.72 | 3.26 ug/L | 363987 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16    | 002050-24-0  | 35   |
| 2    |    |   | 2-Propenal, 3-(2-pyridinylamino)-   | 148 | C8H8N2O   | 068970-82-1  | 25   |
| 3    |    |   | N-Methyl-o-toluidide                | 149 | C9H11NO   | 002170-09-4  | 25   |
| 4    |    |   | 4-Methylbenzoic acid, 4-methoxy-... | 236 | C14H20O3  | 1000354-15-4 | 23   |
| 5    |    |   | Phosphine, bis(dimethylamino)men... | 258 | C14H31N2P | 1000150-77-6 | 17   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

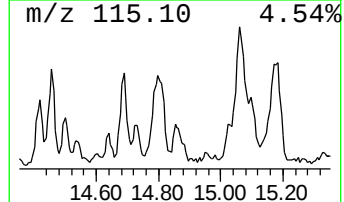
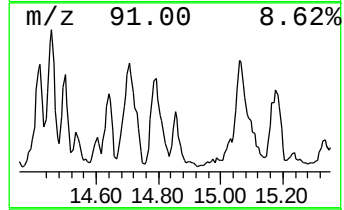
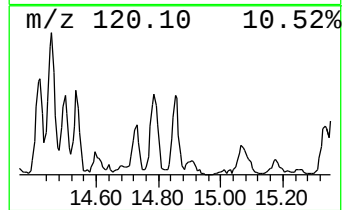
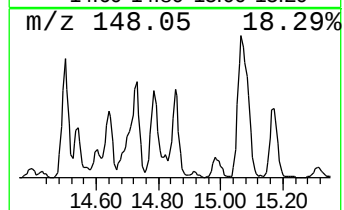
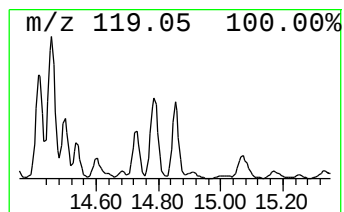
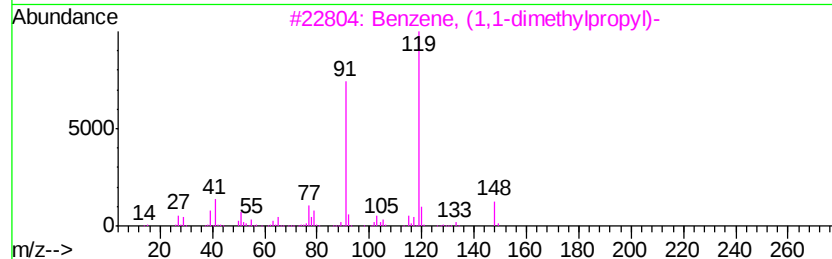
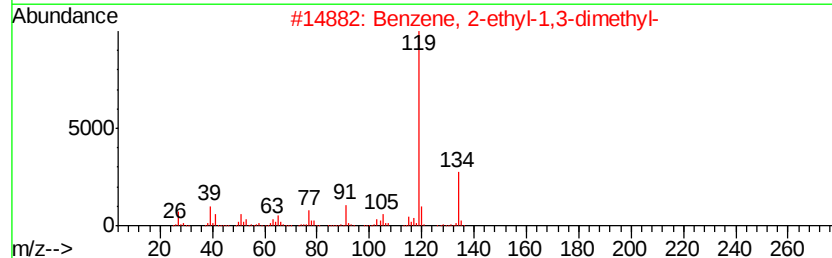
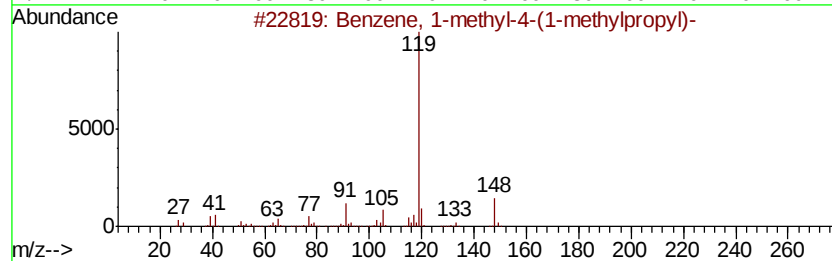
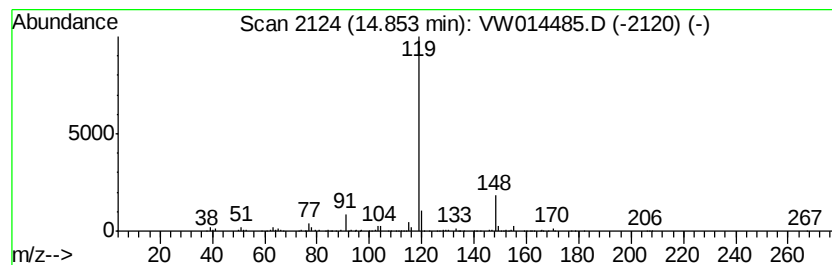
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 29 Benzene, 1-methyl-4-(1-meth... Concentration Rank 30

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.85 | 1.98 ug/L | 221372 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 78   |
| 2    |    | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 64   |
| 3    |    | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 64   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 64   |
| 5    |    | Benzene, 1,1'-(1,1,2,2-tetrameth... | 238 | C18H22  | 001889-67-4 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

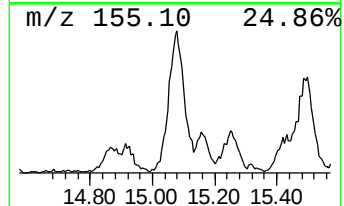
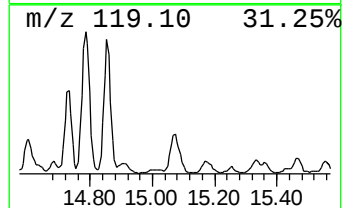
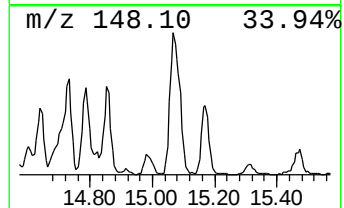
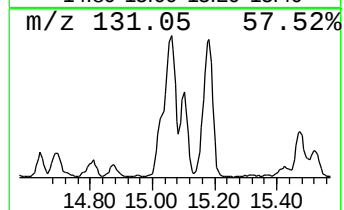
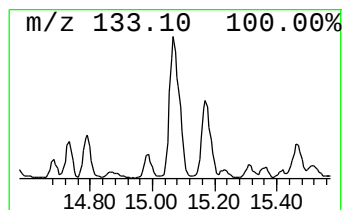
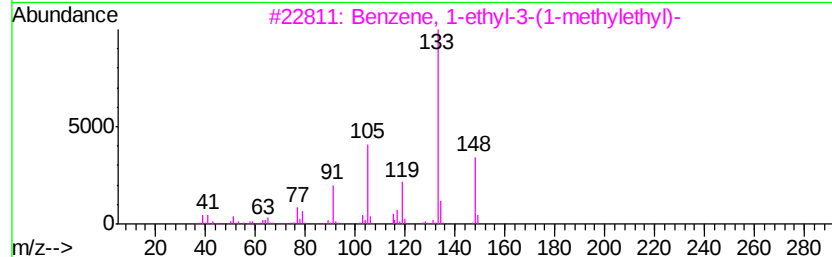
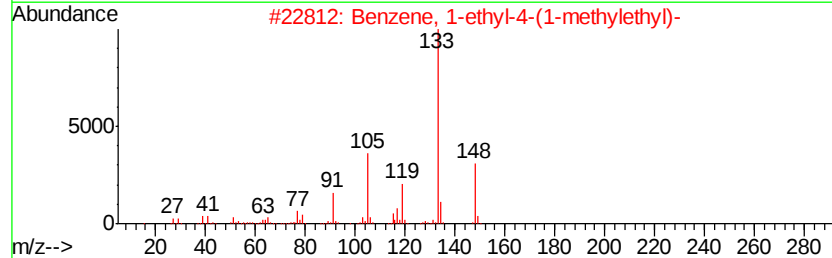
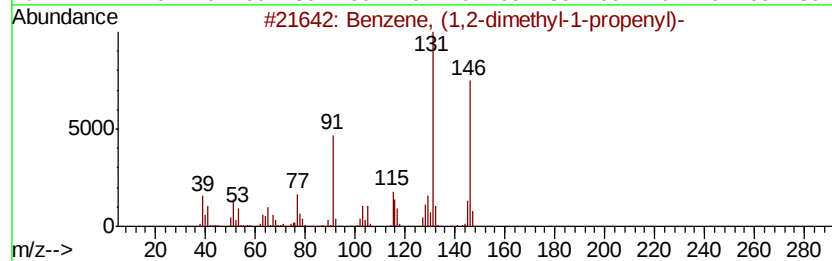
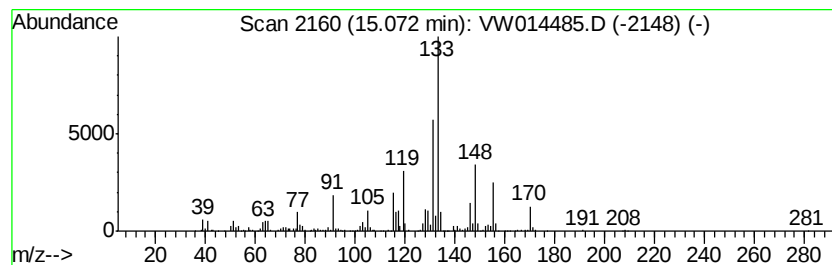
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 Benzene, (1,2-dimethyl-1-propenyl)- Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.07 | 10.01 ug/L | 1116430 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 62   |
| 2    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 60   |
| 3    |    | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16  | 004920-99-4 | 53   |
| 4    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 49   |
| 5    |    | Benzene, (1-methyl-1-butenyl)-      | 146 | C11H14  | 053172-84-2 | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

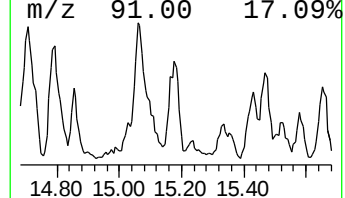
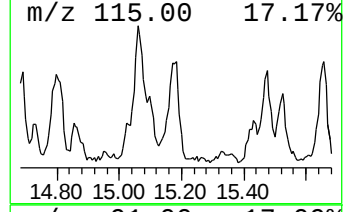
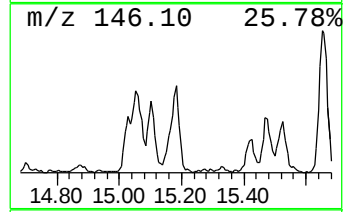
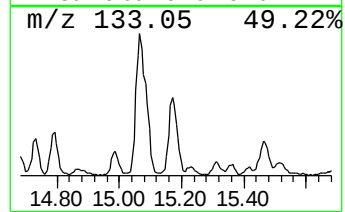
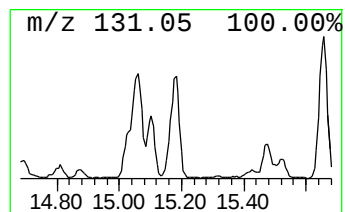
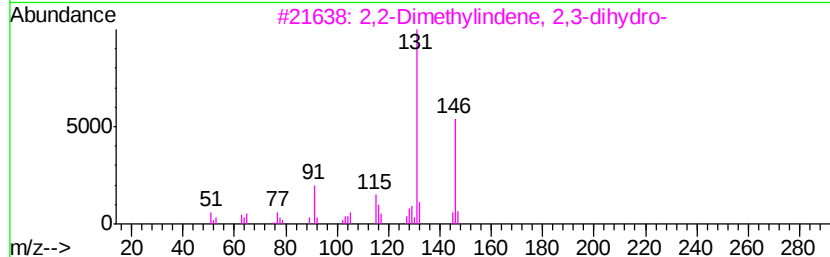
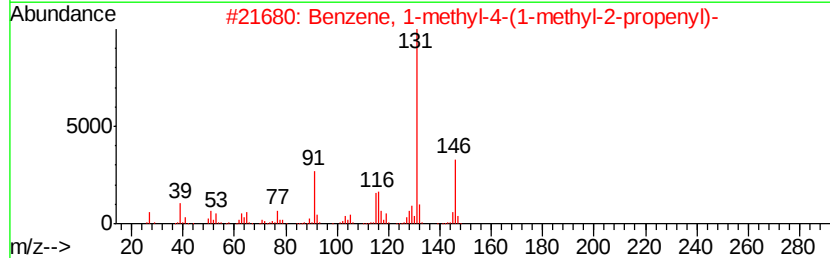
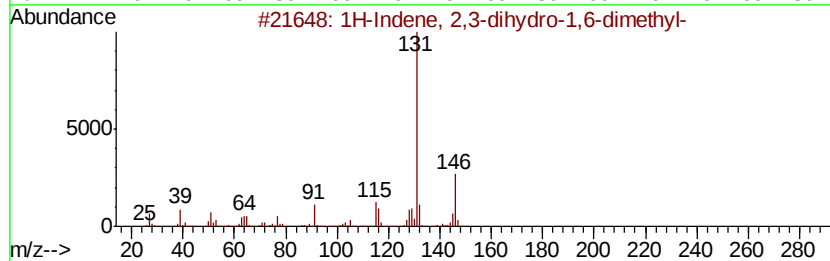
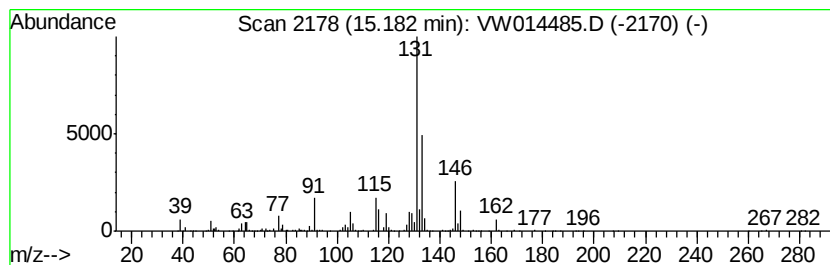
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 31 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.18 | 4.62 ug/L | 515289 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 70   |
| 2    |    | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14  | 097664-18-1 | 70   |
| 3    |    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14  | 020836-11-7 | 70   |
| 4    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 70   |
| 5    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

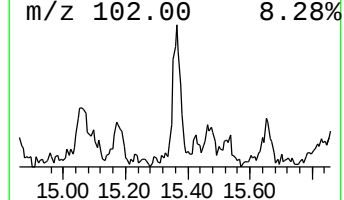
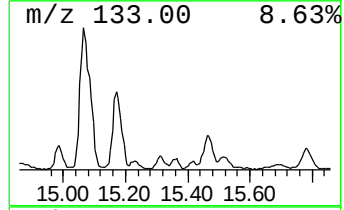
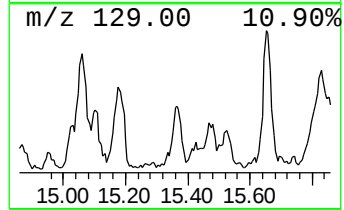
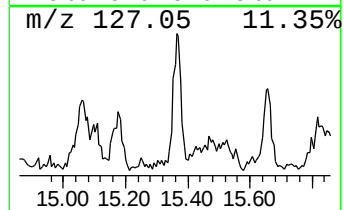
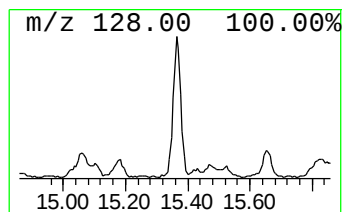
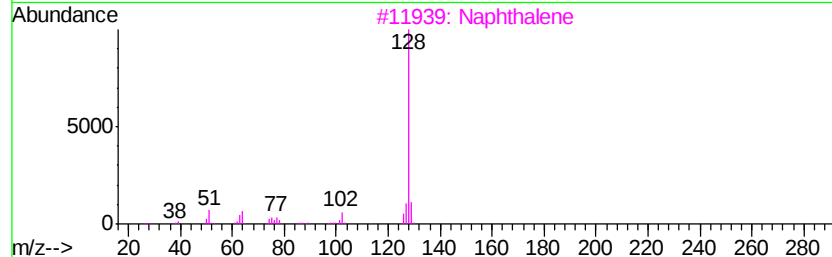
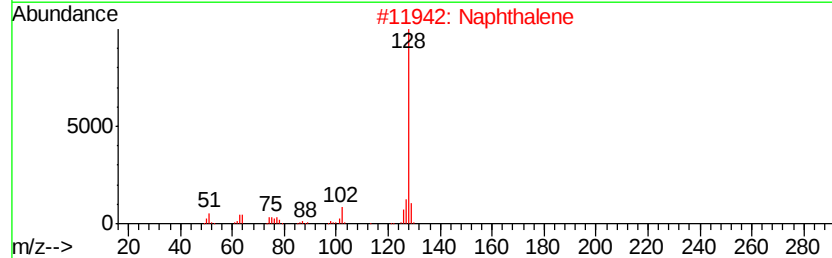
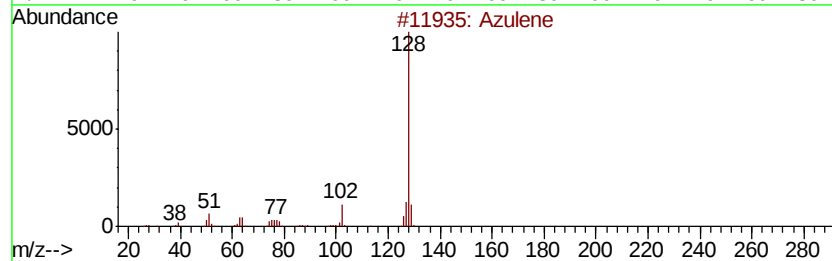
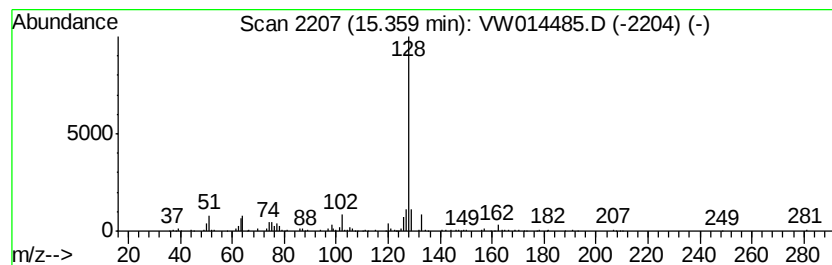
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 32 Azulene Concentration Rank 33

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.36 | 1.61 ug/L | 179422 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Azulene      | 128 | C10H8   | 000275-51-4 | 93   |
| 2    |    | Naphthalene  | 128 | C10H8   | 000091-20-3 | 93   |
| 3    |    | Naphthalene  | 128 | C10H8   | 000091-20-3 | 93   |
| 4    |    | Naphthalene  | 128 | C10H8   | 000091-20-3 | 87   |
| 5    |    | Azulene      | 128 | C10H8   | 000275-51-4 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

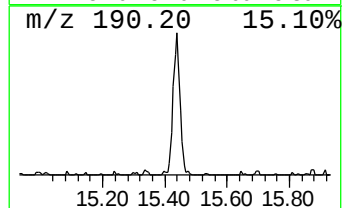
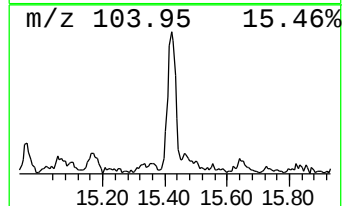
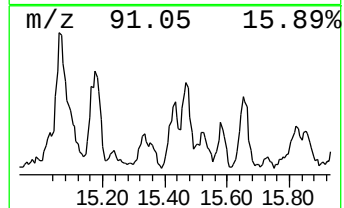
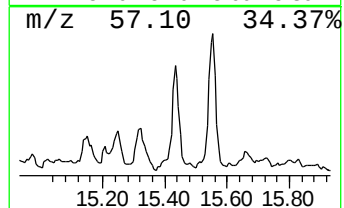
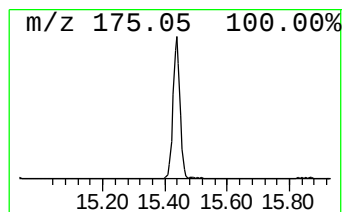
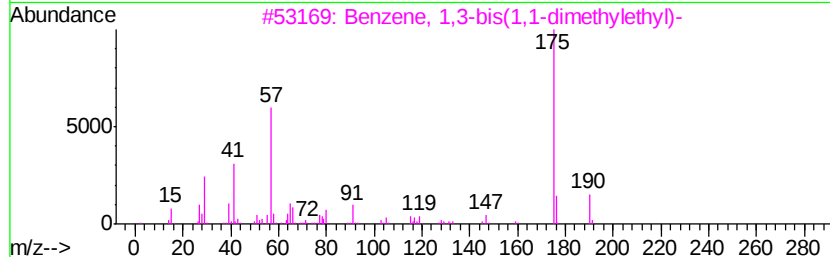
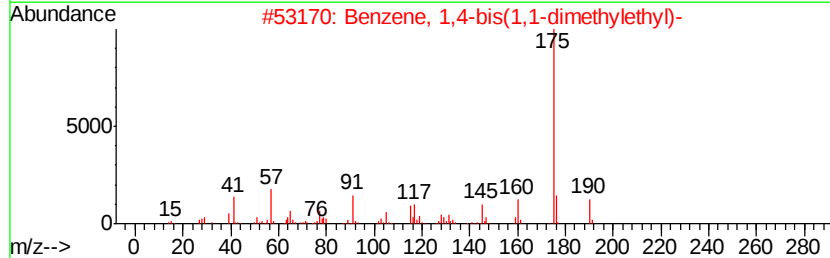
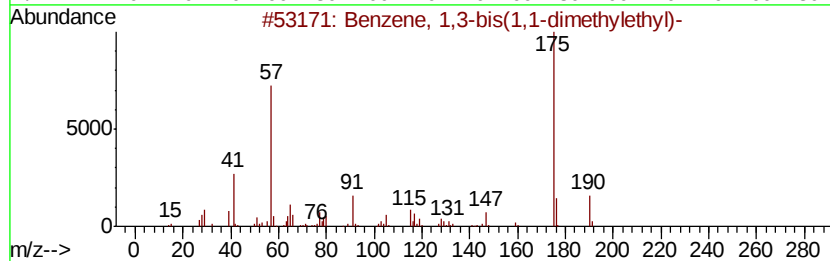
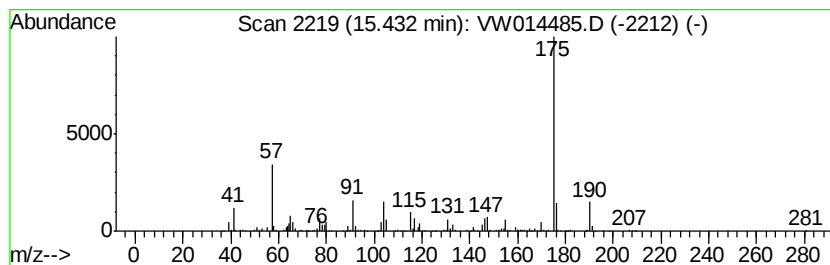
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 33 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 20

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.43 | 2.95 ug/L | 329276 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzene, 1,3-bis(1,1-dimethylethyl)-                | 190 | C14H22   | 001014-60-4 | 76   |
| 2    |    | Benzene, 1,4-bis(1,1-dimethylethyl)-                | 190 | C14H22   | 001012-72-2 | 74   |
| 3    |    | Benzene, 1,3-bis(1,1-dimethylethyl)-                | 190 | C14H22   | 001014-60-4 | 68   |
| 4    |    | Precocene I                                         | 190 | C12H14O2 | 017598-02-6 | 64   |
| 5    |    | Benzene, 1,4-dimethyl-2,5-bis(1-methyl-2-propenyl)- | 190 | C14H22   | 010375-96-9 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

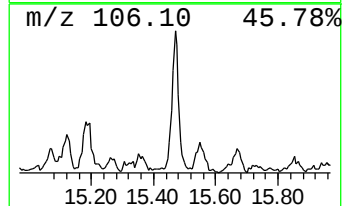
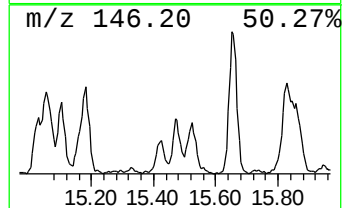
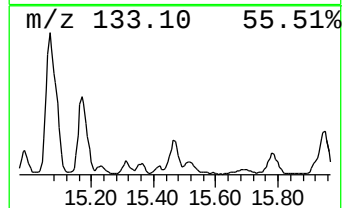
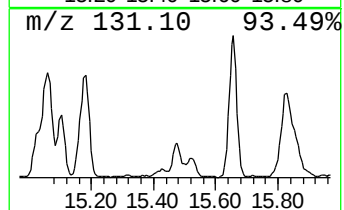
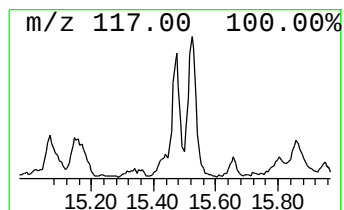
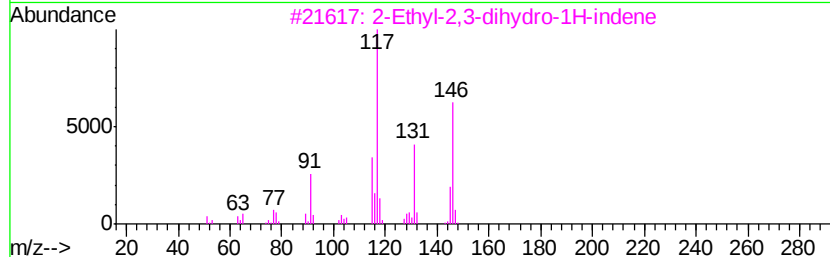
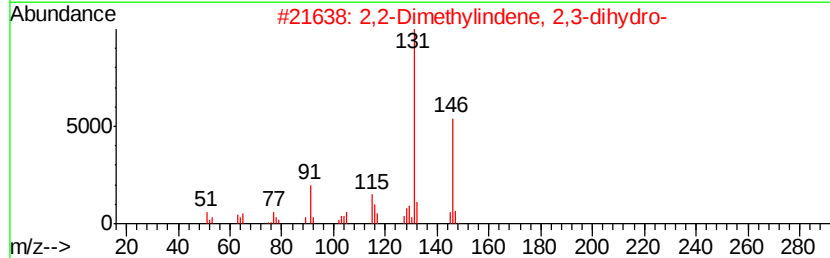
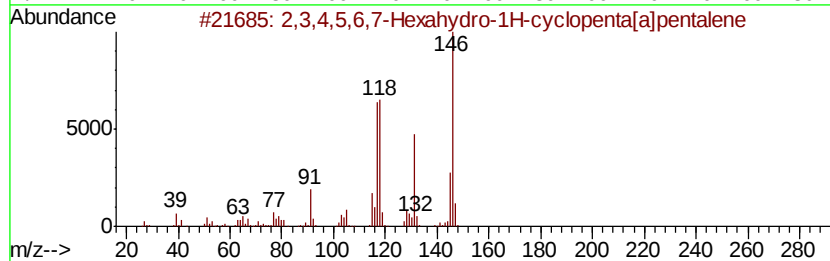
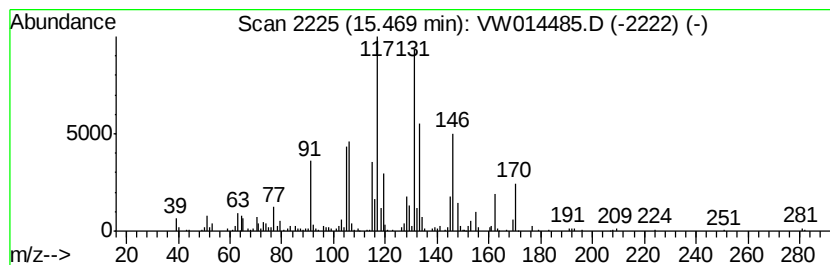
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 34 unknown-05 Concentration Rank 34

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.47 | 1.48 ug/L | 164695 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14       | 1000189-31-0 | 38      |      |      |
| 2    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14       | 020836-11-7  | 38      |      |      |
| 3    | 2-Ethyl-2,3-dihydro-1H-indene       | 146 | C11H14       | 056147-63-8  | 30      |      |      |
| 4    | Benzene, (2-methyl-1-butenvl)-      | 146 | C11H14       | 056253-64-6  | 30      |      |      |
| 5    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14       | 006682-71-9  | 30      |      |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

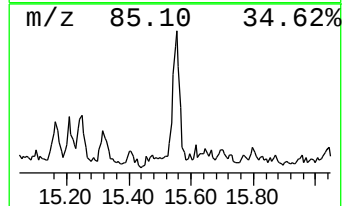
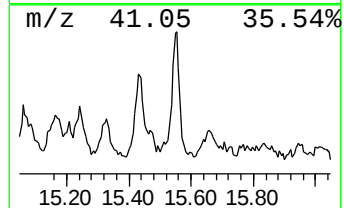
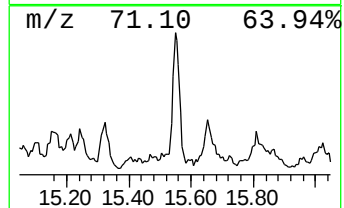
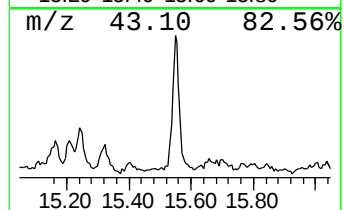
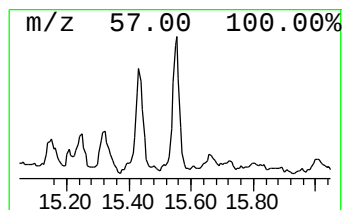
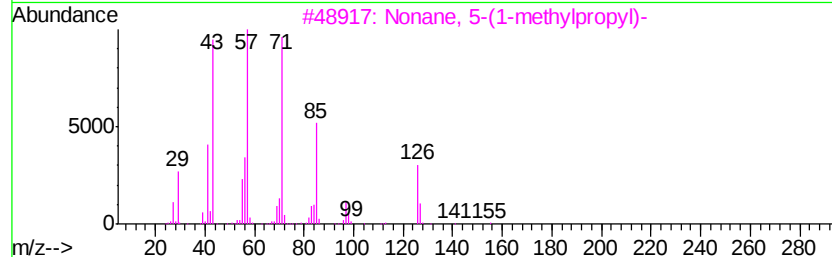
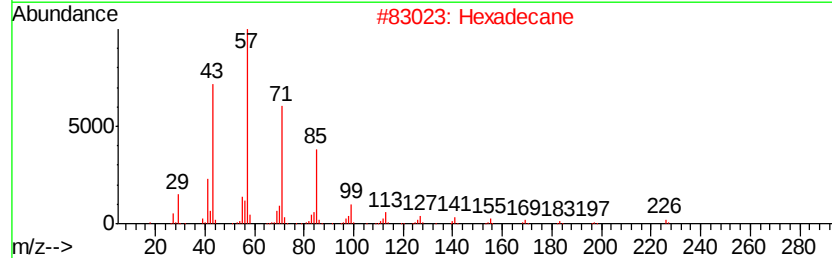
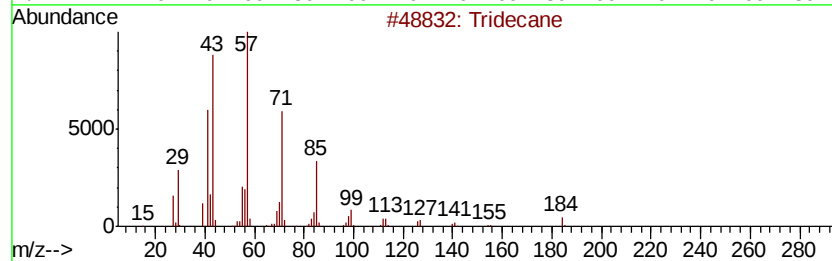
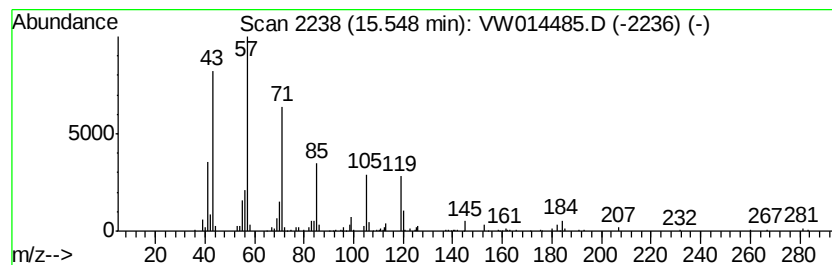
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.55 | 1.43 ug/L | 159676 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane                   | 184 | C13H28  | 000629-50-5 | 52   |
| 2    |    |   | Hexadecane                  | 226 | C16H34  | 000544-76-3 | 43   |
| 3    |    |   | Nonane, 5-(1-methylpropyl)- | 184 | C13H28  | 062185-54-0 | 43   |
| 4    |    |   | Heptadecane                 | 240 | C17H36  | 000629-78-7 | 43   |
| 5    |    |   | Hexadecane                  | 226 | C16H34  | 000544-76-3 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

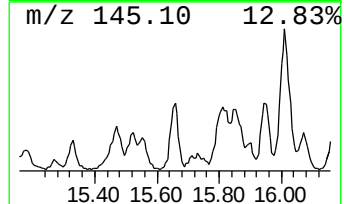
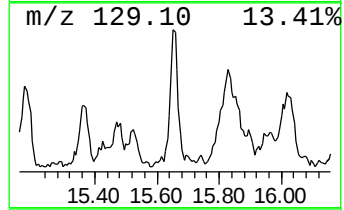
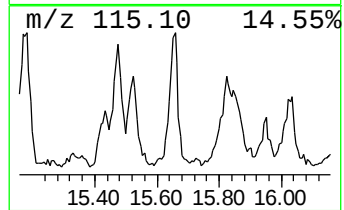
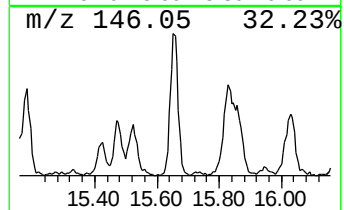
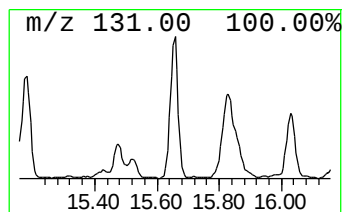
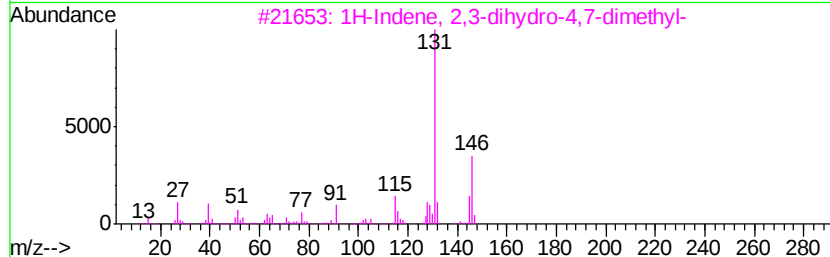
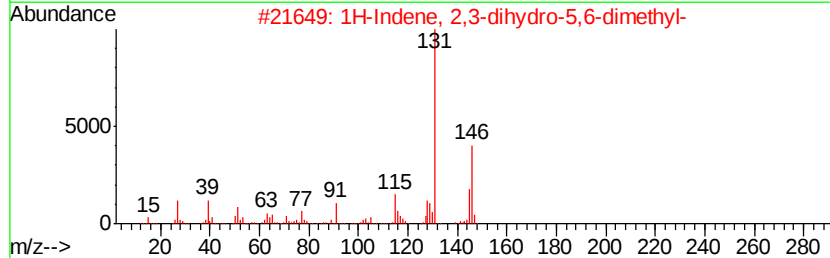
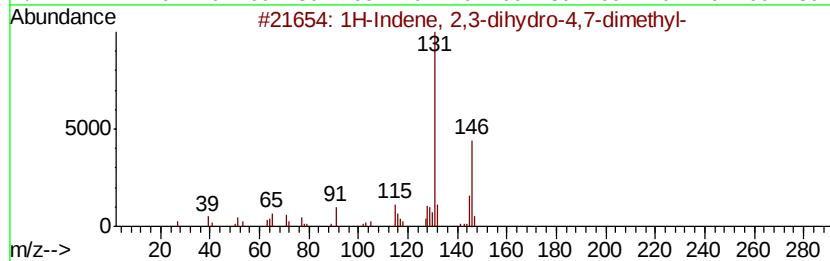
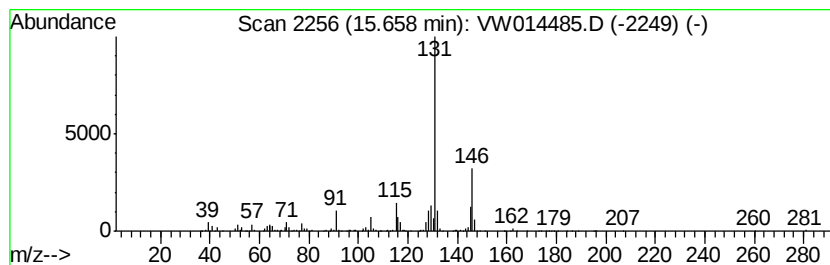
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 36 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 11

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.66 | 4.14 ug/L | 461941 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 96   |
| 2    |    |   | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14  | 001075-22-5 | 96   |
| 3    |    |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 95   |
| 4    |    |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 94   |
| 5    |    |   | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

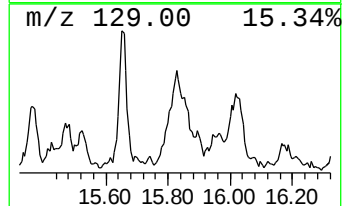
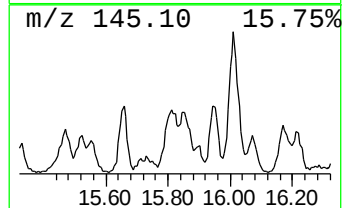
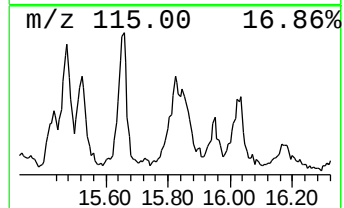
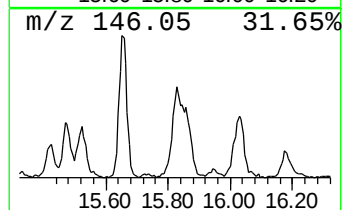
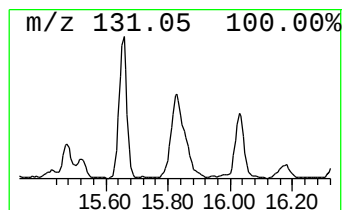
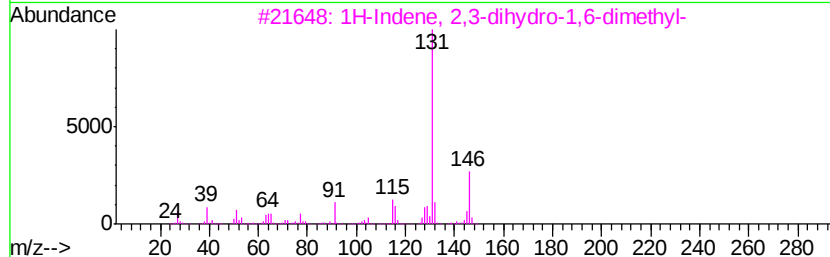
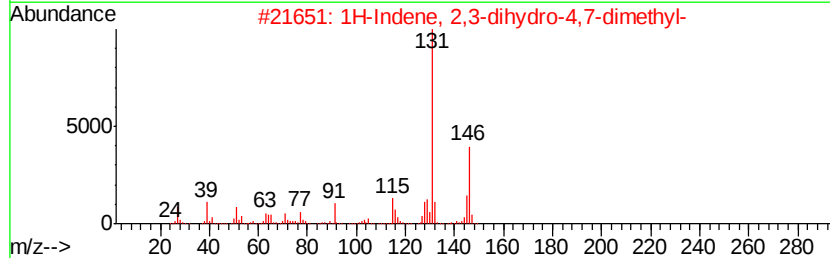
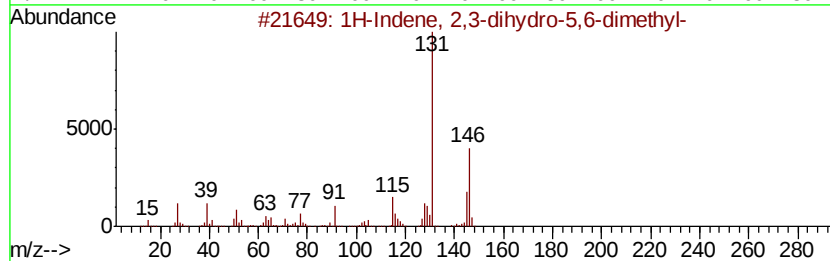
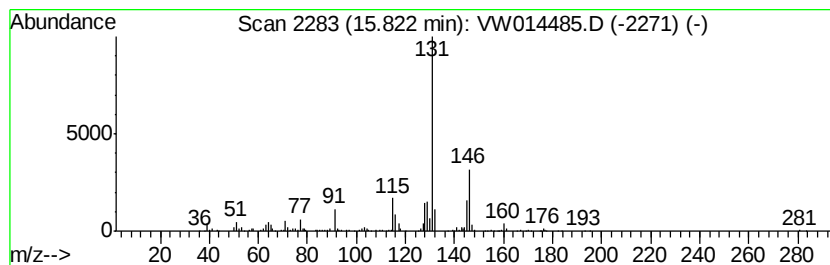
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 37 1H-Indene, 2,3-dihydro-5,6-... Concentration Rank 18

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.82 | 3.20 ug/L | 357543 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14  | 001075-22-5 | 96   |
| 2    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 94   |
| 3    |    | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 93   |
| 4    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 93   |
| 5    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

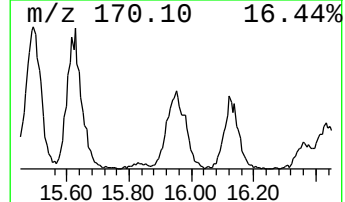
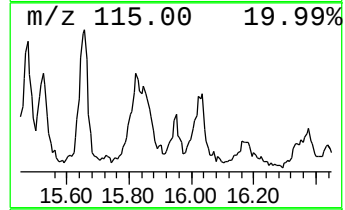
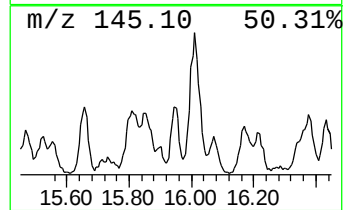
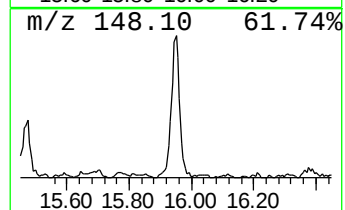
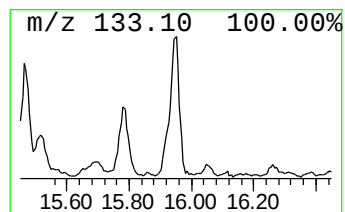
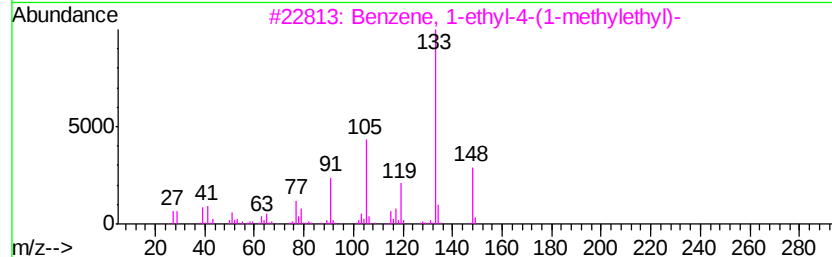
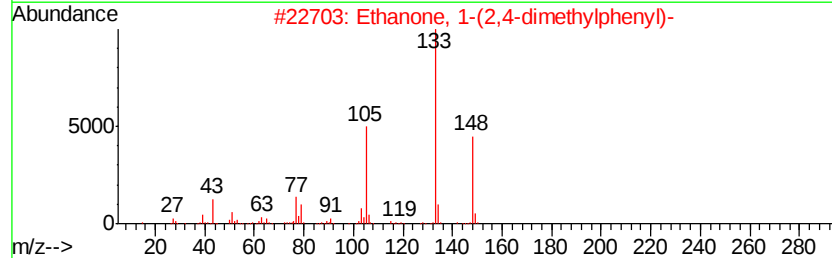
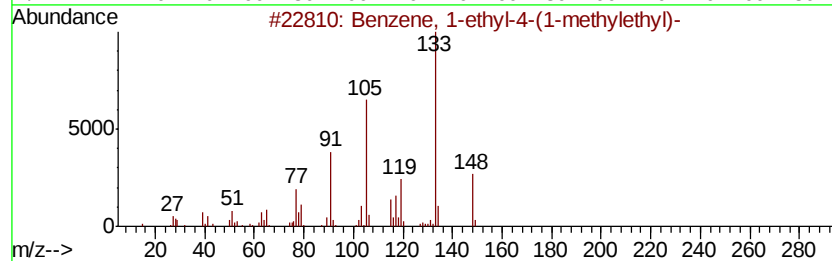
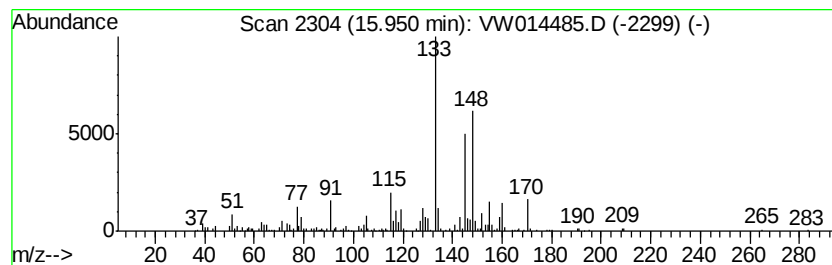
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 38 Benzene, 1-ethyl-4-(1-methylethyl) Concentration Rank 38

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.95 | 1.37 ug/L | 153164 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 58   |
| 2    |    | Ethanone, 1-(2,4-dimethylphenyl)-   | 148 | C10H12O | 000089-74-7 | 55   |
| 3    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 53   |
| 4    |    | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 49   |
| 5    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

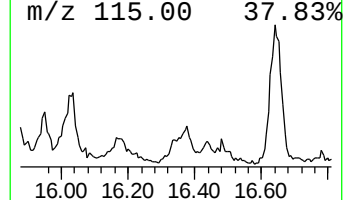
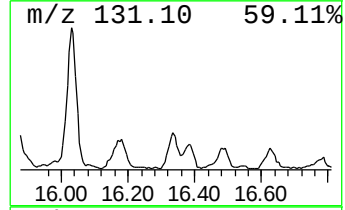
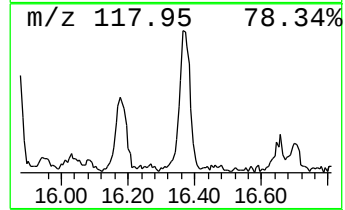
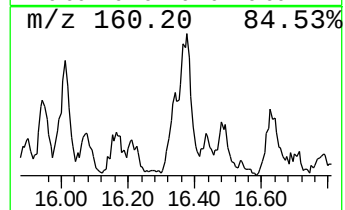
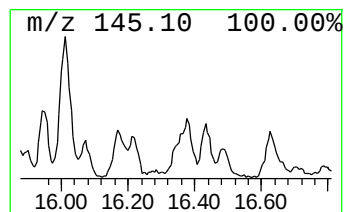
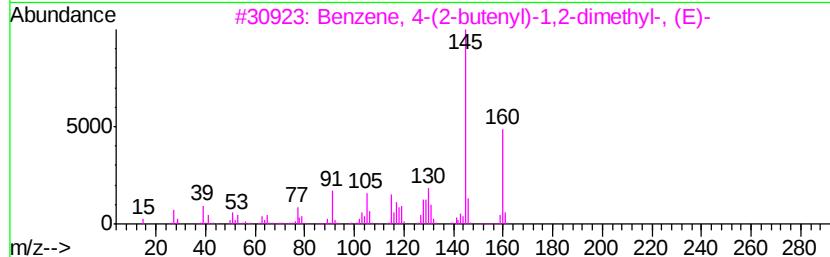
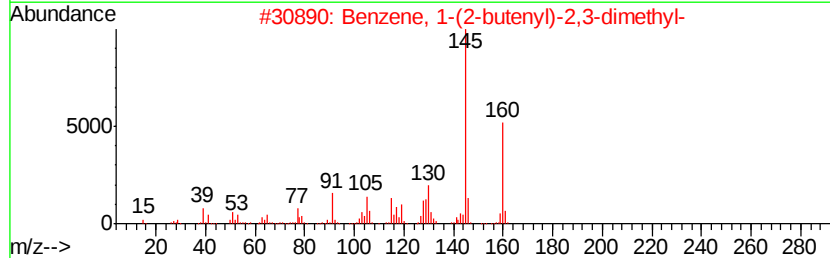
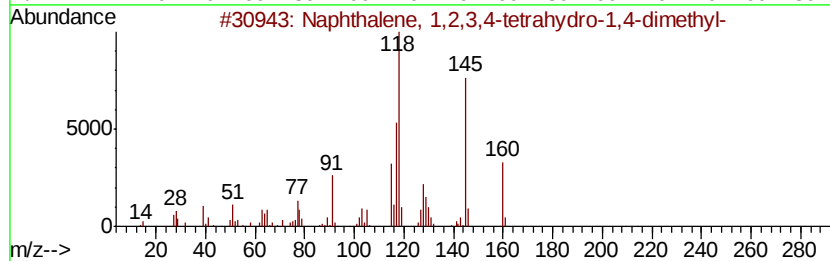
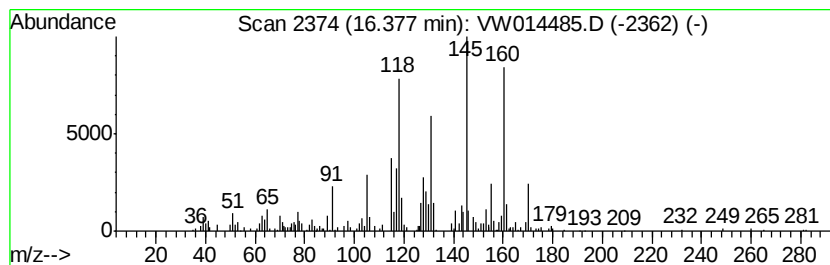
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 40 Naphthalene, 1,2,3,4-tetra... Concentration Rank 29

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.38 | 2.03 ug/L | 226706 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 68   |
| 2    |    | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16  | 054340-85-1 | 60   |
| 3    |    | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16  | 054340-86-2 | 58   |
| 4    |    | Benzene, 1,3,5-trimethyl-2-(1-me... | 160 | C12H16  | 014679-13-1 | 55   |
| 5    |    | Benzene, 1,2,4-trimethyl-5-(1-me... | 160 | C12H16  | 054340-84-0 | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
Data File : VW014485.D  
Acq On : 28 Dec 2019 02:35  
Operator : SY/VA  
Sample : VIBLK20  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK20

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis

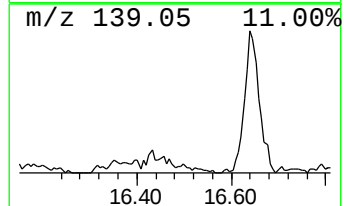
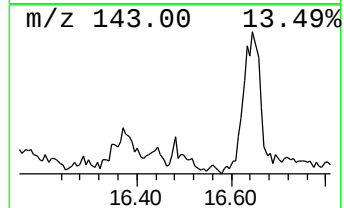
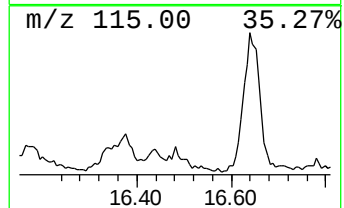
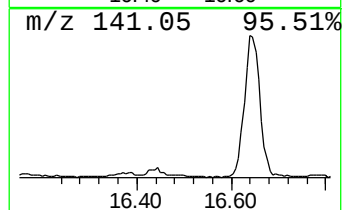
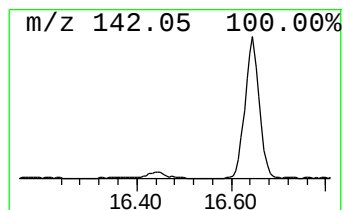
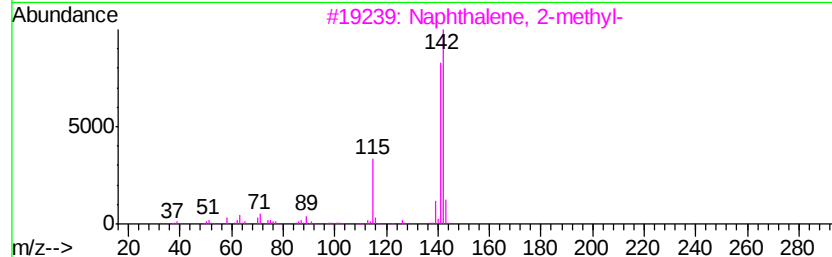
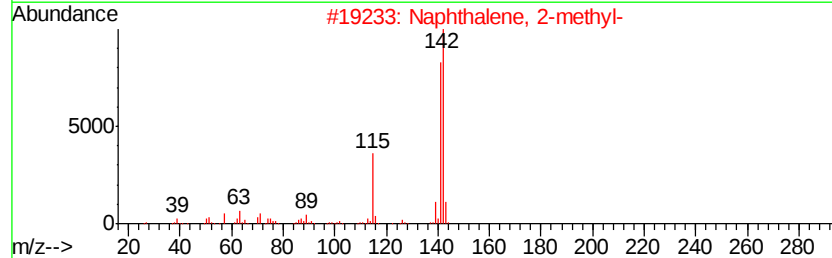
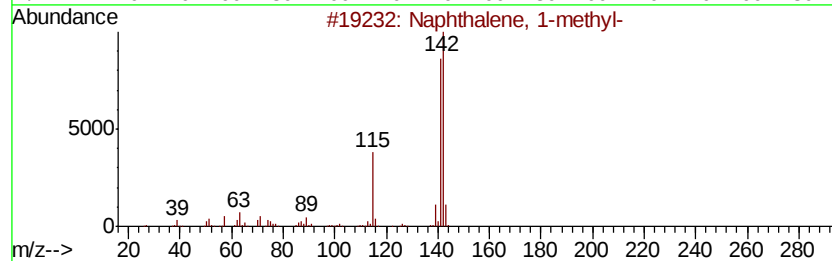
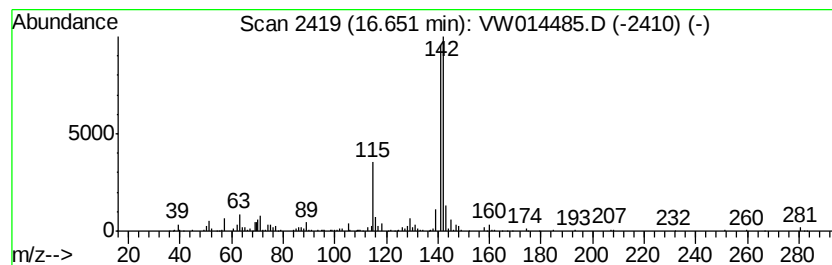
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 41 Naphthalene, 1-methyl- Concentration Rank 21

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.65 | 2.84 ug/L | 316724 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 95   |
| 2    |    | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 95   |
| 3    |    | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 95   |
| 4    |    | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 92   |
| 5    |    | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 91   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW122719\  
 Data File : VW014485.D  
 Acq On : 28 Dec 2019 02:35  
 Operator : SY/VA  
 Sample : VIBLK20  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK20

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: Str... | 9.89  | 1.8     | ug/L  | 172728   | 1                     | 8.84  | 2365540 | 25.0 |
| Naphthalene, 1,6-... | 12.87 | 4.2     | ug/L  | 471146   | 3                     | 13.55 | 2789110 | 25.0 |
| unknown-01           | 12.93 | 2.6     | ug/L  | 293044   | 3                     | 13.55 | 2789110 | 25.0 |
| Mesitylene           | 13.25 | 3.6     | ug/L  | 397694   | 3                     | 13.55 | 2789110 | 25.0 |
| Naphthalene, 2,6-... | 13.30 | 5.5     | ug/L  | 610042   | 3                     | 13.55 | 2789110 | 25.0 |
| unknown-02           | 13.44 | 3.0     | ug/L  | 338366   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1,2-diet... | 13.72 | 1.3     | ug/L  | 141410   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1-methyl... | 13.75 | 3.9     | ug/L  | 429957   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 2-ethyl-... | 13.79 | 5.6     | ug/L  | 627280   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1-methyl... | 13.95 | 2.2     | ug/L  | 245610   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1-ethyl-... | 14.01 | 2.6     | ug/L  | 291441   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1-ethyl-... | 14.04 | 2.8     | ug/L  | 310101   | 3                     | 13.55 | 2789110 | 25.0 |
| unknown-03           | 14.20 | 1.5     | ug/L  | 162425   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1,2,3,4-... | 14.42 | 3.9     | ug/L  | 436455   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1,2,4,5-... | 14.46 | 4.0     | ug/L  | 451885   | 3                     | 13.55 | 2789110 | 25.0 |
| 1-Chloro-2-methyl... | 14.50 | 2.5     | ug/L  | 272945   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, (1,1-dim... | 14.54 | 1.3     | ug/L  | 141060   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, (1-cyclo... | 14.64 | 1.4     | ug/L  | 160662   | 3                     | 13.55 | 2789110 | 25.0 |
| 1H-Indene, 2,3-di... | 14.69 | 1.9     | ug/L  | 207433   | 3                     | 13.55 | 2789110 | 25.0 |
| unknown-04           | 14.72 | 3.3     | ug/L  | 363987   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1-methyl... | 14.85 | 2.0     | ug/L  | 221372   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, (1,2-dim... | 15.07 | 10.0    | ug/L  | 1116430  | 3                     | 13.55 | 2789110 | 25.0 |
| 1H-Indene, 2,3-di... | 15.18 | 4.6     | ug/L  | 515289   | 3                     | 13.55 | 2789110 | 25.0 |
| Azulene              | 15.36 | 1.6     | ug/L  | 179422   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1,3-bis(... | 15.43 | 3.0     | ug/L  | 329276   | 3                     | 13.55 | 2789110 | 25.0 |
| unknown-05           | 15.47 | 1.5     | ug/L  | 164695   | 3                     | 13.55 | 2789110 | 25.0 |
| (DEL) Alkane: Str... | 15.55 | 1.4     | ug/L  | 159676   | 3                     | 13.55 | 2789110 | 25.0 |
| 1H-Indene, 2,3-di... | 15.66 | 4.1     | ug/L  | 461941   | 3                     | 13.55 | 2789110 | 25.0 |
| 1H-Indene, 2,3-di... | 15.82 | 3.2     | ug/L  | 357543   | 3                     | 13.55 | 2789110 | 25.0 |
| Benzene, 1-ethyl-... | 15.95 | 1.4     | ug/L  | 153164   | 3                     | 13.55 | 2789110 | 25.0 |
| Naphthalene, 1,2,... | 16.38 | 2.0     | ug/L  | 226706   | 3                     | 13.55 | 2789110 | 25.0 |
| Naphthalene, 1-me... | 16.65 | 2.8     | ug/L  | 316724   | 3                     | 13.55 | 2789110 | 25.0 |