

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
 Data File : VW014327.D  
 Acq On : 12 Dec 2019 15:43  
 Operator : SY/VA  
 Sample : K6236-15  
 Misc : 5.84G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFEX1

## 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\SOM2WLM120519S.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           | rVB2     | 12568          | 19188         | 0.42%           | 0.056%        |
| 2         | 2.087       | 28            | 30          | 32           | rVB      | 1912           | 1204          | 0.03%           | 0.003%        |
| 3         | 2.111       | 32            | 34          | 35           | rBV      | 1758           | 1655          | 0.04%           | 0.005%        |
| 4         | 2.160       | 36            | 42          | 43           | rBV2     | 14686          | 24513         | 0.54%           | 0.071%        |
| 5         | 2.349       | 64            | 73          | 86           | rBV      | 369728         | 723311        | 15.92%          | 2.098%        |
| 6         | 2.489       | 94            | 96          | 97           | rBV2     | 3272           | 2596          | 0.06%           | 0.008%        |
| 7         | 2.885       | 153           | 161         | 177          | rBV      | 248759         | 628985        | 13.84%          | 1.824%        |
| 8         | 3.306       | 228           | 230         | 234          | rVB4     | 2098           | 2373          | 0.05%           | 0.007%        |
| 9         | 3.379       | 236           | 242         | 243          | rBV5     | 2471           | 3639          | 0.08%           | 0.011%        |
| 10        | 3.483       | 257           | 259         | 260          | rVV2     | 1233           | 1041          | 0.02%           | 0.003%        |
| 11        | 3.495       | 260           | 261         | 263          | rVV2     | 1383           | 1189          | 0.03%           | 0.003%        |
| 12        | 3.538       | 265           | 268         | 272          | rVV5     | 2372           | 4439          | 0.10%           | 0.013%        |
| 13        | 3.568       | 272           | 273         | 275          | rVV2     | 2038           | 1357          | 0.03%           | 0.004%        |
| 14        | 3.592       | 275           | 277         | 279          | rVV3     | 1295           | 1109          | 0.02%           | 0.003%        |
| 15        | 3.666       | 286           | 289         | 293          | rBV3     | 1328           | 1653          | 0.04%           | 0.005%        |
| 16        | 3.745       | 296           | 302         | 305          | rBV8     | 1756           | 3107          | 0.07%           | 0.009%        |
| 17        | 3.855       | 318           | 320         | 322          | rVB3     | 1251           | 1054          | 0.02%           | 0.003%        |
| 18        | 4.013       | 332           | 346         | 358          | rBV      | 513115         | 1685325       | 37.09%          | 4.888%        |
| 19        | 4.111       | 359           | 362         | 375          | rVB2     | 38772          | 103115        | 2.27%           | 0.299%        |
| 20        | 4.385       | 395           | 407         | 418          | rVV3     | 9306           | 28806         | 0.63%           | 0.084%        |
| 21        | 4.458       | 418           | 419         | 423          | rVV2     | 1122           | 951           | 0.02%           | 0.003%        |
| 22        | 4.598       | 439           | 442         | 444          | rVV3     | 916            | 992           | 0.02%           | 0.003%        |
| 23        | 4.617       | 444           | 445         | 451          | rVB6     | 1663           | 2035          | 0.04%           | 0.006%        |
| 24        | 4.732       | 460           | 464         | 466          | rBV3     | 946            | 1089          | 0.02%           | 0.003%        |
| 25        | 4.915       | 480           | 494         | 515          | rVB2     | 89137          | 330365        | 7.27%           | 0.958%        |
| 26        | 5.123       | 523           | 528         | 530          | rBV4     | 1639           | 2435          | 0.05%           | 0.007%        |
| 27        | 5.159       | 530           | 534         | 536          | rVV4     | 2942           | 4743          | 0.10%           | 0.014%        |
| 28        | 5.178       | 536           | 537         | 545          | rVB4     | 3339           | 4974          | 0.11%           | 0.014%        |
| 29        | 5.263       | 548           | 551         | 554          | rVB3     | 742            | 969           | 0.02%           | 0.003%        |
| 30        | 5.397       | 570           | 573         | 574          | rBV2     | 1033           | 1036          | 0.02%           | 0.003%        |
| 31        | 5.738       | 624           | 629         | 630          | rBV3     | 945            | 1166          | 0.03%           | 0.003%        |
| 32        | 5.769       | 630           | 634         | 635          | rBV4     | 1059           | 1098          | 0.02%           | 0.003%        |
| 33        | 5.787       | 635           | 637         | 640          | rVB3     | 992            | 1237          | 0.03%           | 0.004%        |
| 34        | 5.812       | 640           | 641         | 645          | rVB3     | 1271           | 1273          | 0.03%           | 0.004%        |

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 MSVOA\_W  
 ClientSampleId :  
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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\SOM2WLM120519S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 5.933  | 649  | 661  | 672  | rVB4 | 15948   | 49988   | 1.10%   | 0.145%  |
| 36 | 6.488  | 748  | 752  | 754  | rBV2 | 916     | 1222    | 0.03%   | 0.004%  |
| 37 | 6.561  | 759  | 764  | 766  | rBV2 | 963     | 931     | 0.02%   | 0.003%  |
| 38 | 6.604  | 769  | 771  | 777  | rVB4 | 1226    | 1826    | 0.04%   | 0.005%  |
| 39 | 6.659  | 777  | 780  | 782  | rBV2 | 960     | 1097    | 0.02%   | 0.003%  |
| 40 | 6.872  | 810  | 815  | 818  | rBV3 | 596     | 1065    | 0.02%   | 0.003%  |
| 41 | 6.915  | 818  | 822  | 823  | rBV3 | 1524    | 1790    | 0.04%   | 0.005%  |
| 42 | 6.982  | 830  | 833  | 835  | rBV4 | 1079    | 1088    | 0.02%   | 0.003%  |
| 43 | 7.074  | 838  | 848  | 853  | rBV  | 113810  | 312745  | 6.88%   | 0.907%  |
| 44 | 7.134  | 853  | 858  | 874  | rVV2 | 106085  | 313209  | 6.89%   | 0.908%  |
| 45 | 7.458  | 909  | 911  | 913  | rBV3 | 854     | 1099    | 0.02%   | 0.003%  |
| 46 | 7.537  | 918  | 924  | 926  | rBV5 | 2692    | 4772    | 0.11%   | 0.014%  |
| 47 | 7.640  | 931  | 941  | 955  | rBV  | 742254  | 1810524 | 39.84%  | 5.251%  |
| 48 | 7.939  | 983  | 990  | 991  | rBV2 | 3757    | 5423    | 0.12%   | 0.016%  |
| 49 | 8.171  | 1026 | 1028 | 1033 | rBV5 | 1109    | 1450    | 0.03%   | 0.004%  |
| 50 | 8.268  | 1033 | 1044 | 1061 | rBV2 | 1578740 | 4543985 | 100.00% | 13.179% |
| 51 | 8.531  | 1085 | 1087 | 1089 | rBV3 | 1470    | 981     | 0.02%   | 0.003%  |
| 52 | 8.610  | 1098 | 1100 | 1102 | rBV3 | 1466    | 1357    | 0.03%   | 0.004%  |
| 53 | 8.689  | 1108 | 1113 | 1119 | rBV8 | 4418    | 8606    | 0.19%   | 0.025%  |
| 54 | 8.762  | 1124 | 1125 | 1127 | rBV  | 1265    | 1127    | 0.02%   | 0.003%  |
| 55 | 8.835  | 1127 | 1137 | 1152 | rBV  | 1452408 | 2907533 | 63.99%  | 8.433%  |
| 56 | 9.000  | 1162 | 1164 | 1165 | rBV2 | 1316    | 1022    | 0.02%   | 0.003%  |
| 57 | 9.030  | 1165 | 1169 | 1170 | rBV4 | 2285    | 2185    | 0.05%   | 0.006%  |
| 58 | 9.073  | 1170 | 1176 | 1186 | rVB2 | 25790   | 53588   | 1.18%   | 0.155%  |
| 59 | 9.140  | 1186 | 1187 | 1190 | rVB3 | 2112    | 1810    | 0.04%   | 0.005%  |
| 60 | 9.183  | 1193 | 1194 | 1196 | rBV2 | 950     | 925     | 0.02%   | 0.003%  |
| 61 | 9.268  | 1198 | 1208 | 1222 | rBV  | 1017474 | 2088038 | 45.95%  | 6.056%  |
| 62 | 9.512  | 1245 | 1248 | 1249 | rBV2 | 1570    | 1686    | 0.04%   | 0.005%  |
| 63 | 9.530  | 1249 | 1251 | 1258 | rVB7 | 4100    | 7023    | 0.15%   | 0.020%  |
| 64 | 9.591  | 1258 | 1261 | 1264 | rVB5 | 1437    | 1577    | 0.03%   | 0.005%  |
| 65 | 9.652  | 1266 | 1271 | 1272 | rBV4 | 2314    | 4142    | 0.09%   | 0.012%  |
| 66 | 9.756  | 1285 | 1288 | 1289 | rBV3 | 1568    | 1670    | 0.04%   | 0.005%  |
| 67 | 9.878  | 1305 | 1308 | 1311 | rBV5 | 1353    | 1659    | 0.04%   | 0.005%  |
| 68 | 9.951  | 1317 | 1320 | 1321 | rBV3 | 966     | 1181    | 0.03%   | 0.003%  |
| 69 | 10.030 | 1325 | 1333 | 1341 | rBV  | 527385  | 939091  | 20.67%  | 2.724%  |
| 70 | 10.207 | 1358 | 1362 | 1369 | rBV3 | 7785    | 13750   | 0.30%   | 0.040%  |
| 71 | 10.323 | 1373 | 1381 | 1388 | rBV  | 2042659 | 3703791 | 81.51%  | 10.743% |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFEX1

## 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\SOM2WLM120519S.M  
 Title : VOC Analysis

|     |        |      |      |      |       |         |         |        |        |
|-----|--------|------|------|------|-------|---------|---------|--------|--------|
| 72  | 10.378 | 1388 | 1390 | 1397 | rVB2  | 11839   | 23482   | 0.52%  | 0.068% |
| 73  | 10.573 | 1415 | 1422 | 1430 | rBV   | 317195  | 551660  | 12.14% | 1.600% |
| 74  | 10.701 | 1437 | 1443 | 1450 | rBV   | 77124   | 138785  | 3.05%  | 0.403% |
| 75  | 10.786 | 1452 | 1457 | 1458 | rBV5  | 3984    | 6886    | 0.15%  | 0.020% |
| 76  | 10.920 | 1473 | 1479 | 1491 | rBV   | 452687  | 792890  | 17.45% | 2.300% |
| 77  | 11.061 | 1497 | 1502 | 1508 | rBV2  | 56338   | 103292  | 2.27%  | 0.300% |
| 78  | 11.439 | 1559 | 1564 | 1569 | rBV2  | 68333   | 113619  | 2.50%  | 0.330% |
| 79  | 11.628 | 1588 | 1595 | 1609 | rVB   | 1773881 | 3018908 | 66.44% | 8.756% |
| 80  | 12.176 | 1681 | 1685 | 1692 | rVB2  | 29994   | 55748   | 1.23%  | 0.162% |
| 81  | 12.256 | 1692 | 1698 | 1703 | rBV10 | 16977   | 37872   | 0.83%  | 0.110% |
| 82  | 12.603 | 1750 | 1755 | 1762 | rBV   | 191224  | 341571  | 7.52%  | 0.991% |
| 83  | 12.688 | 1763 | 1769 | 1776 | rVV   | 573612  | 975599  | 21.47% | 2.830% |
| 84  | 12.865 | 1788 | 1798 | 1800 | rBV4  | 53834   | 143593  | 3.16%  | 0.416% |
| 85  | 13.298 | 1859 | 1869 | 1884 | rBV7  | 134004  | 614483  | 13.52% | 1.782% |
| 86  | 13.457 | 1884 | 1895 | 1905 | rVV4  | 125798  | 531925  | 11.71% | 1.543% |
| 87  | 13.554 | 1905 | 1911 | 1922 | rVB   | 1293740 | 2081011 | 45.80% | 6.036% |
| 88  | 13.853 | 1953 | 1960 | 1967 | rBV   | 1191789 | 2059585 | 45.33% | 5.974% |
| 89  | 14.066 | 1991 | 1995 | 2007 | rVB3  | 103679  | 271780  | 5.98%  | 0.788% |
| 90  | 14.255 | 2024 | 2026 | 2027 | rBV2  | 15448   | 11661   | 0.26%  | 0.034% |
| 91  | 14.523 | 2062 | 2070 | 2072 | rBV4  | 65009   | 138026  | 3.04%  | 0.400% |
| 92  | 14.792 | 2111 | 2114 | 2120 | rVB4  | 63419   | 108903  | 2.40%  | 0.316% |
| 93  | 15.072 | 2154 | 2160 | 2171 | rVB4  | 80538   | 262615  | 5.78%  | 0.762% |
| 94  | 15.328 | 2197 | 2202 | 2209 | rBV   | 84491   | 155612  | 3.42%  | 0.451% |
| 95  | 15.432 | 2215 | 2219 | 2223 | rBV4  | 75680   | 142264  | 3.13%  | 0.413% |
| 96  | 15.493 | 2225 | 2229 | 2237 | rVB2  | 118694  | 313377  | 6.90%  | 0.909% |
| 97  | 15.627 | 2244 | 2251 | 2265 | rVB3  | 143410  | 464208  | 10.22% | 1.346% |
| 98  | 16.285 | 2356 | 2359 | 2364 | rVB2  | 39340   | 57612   | 1.27%  | 0.167% |
| 99  | 16.371 | 2368 | 2373 | 2379 | rVV3  | 86578   | 230665  | 5.08%  | 0.669% |
| 100 | 16.438 | 2380 | 2384 | 2396 | rVB9  | 99644   | 341119  | 7.51%  | 0.989% |

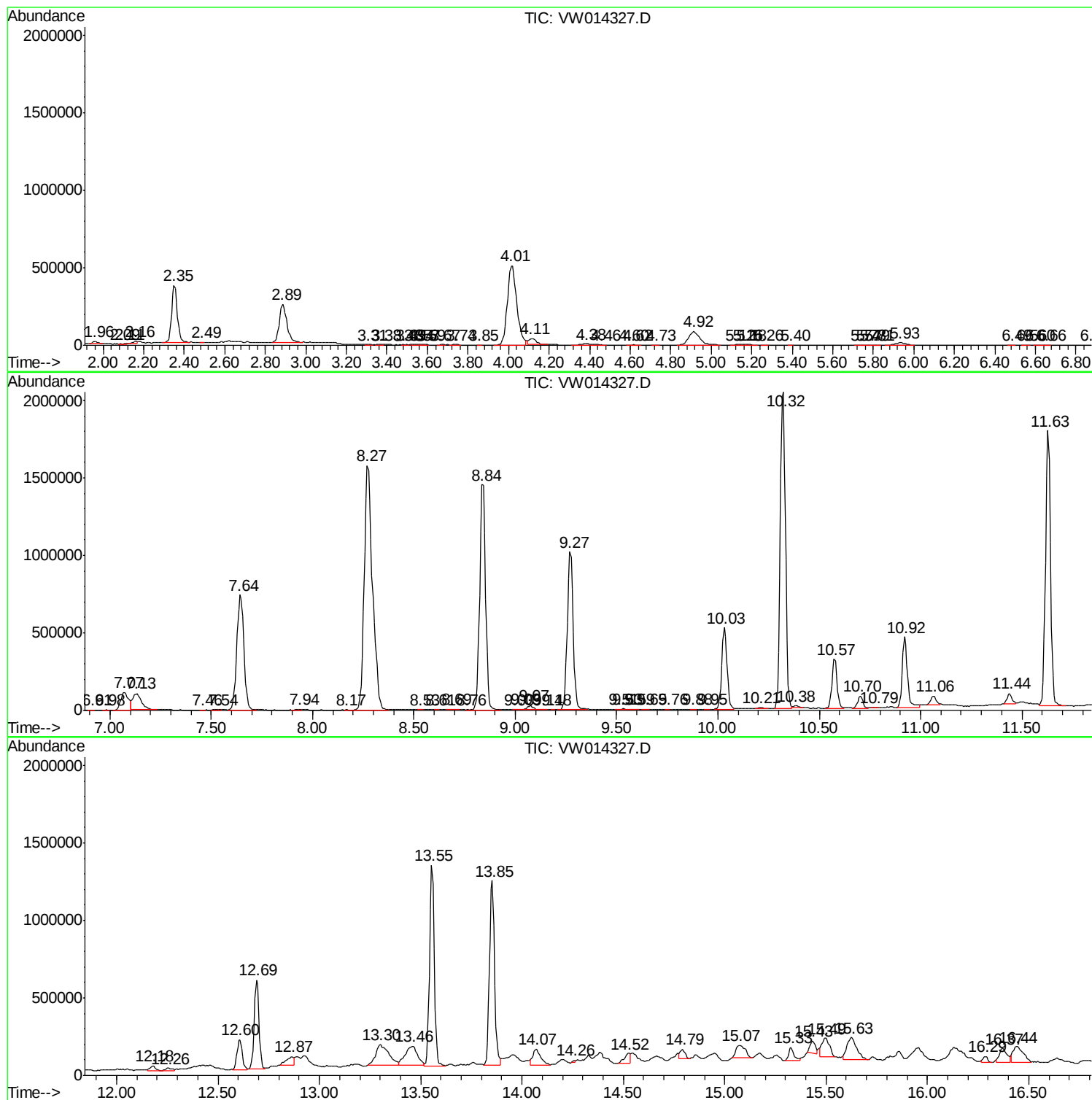
Sum of corrected areas: 34477729

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Instrument :  
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ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
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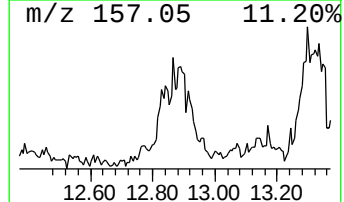
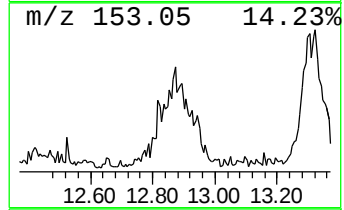
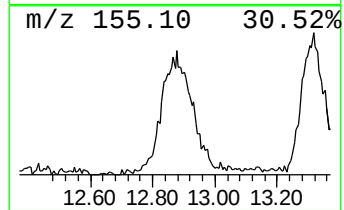
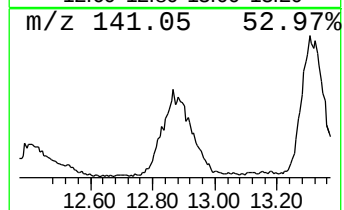
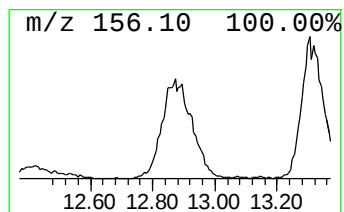
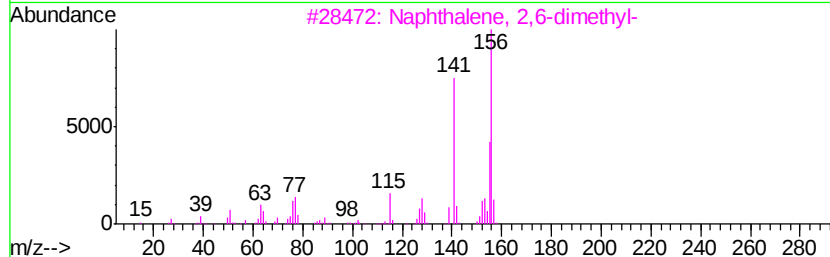
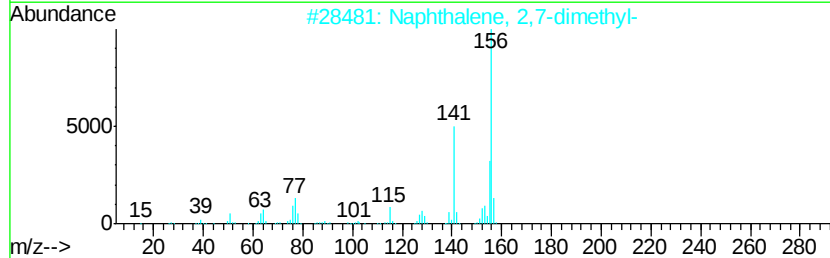
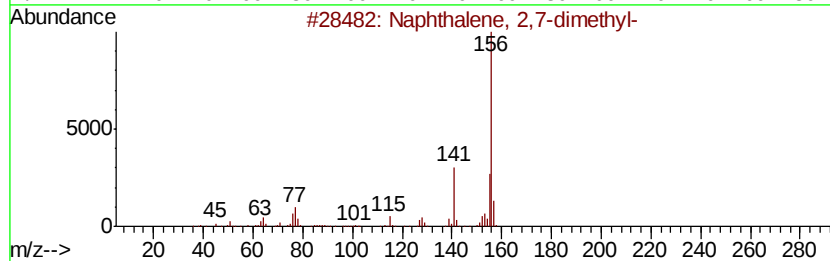
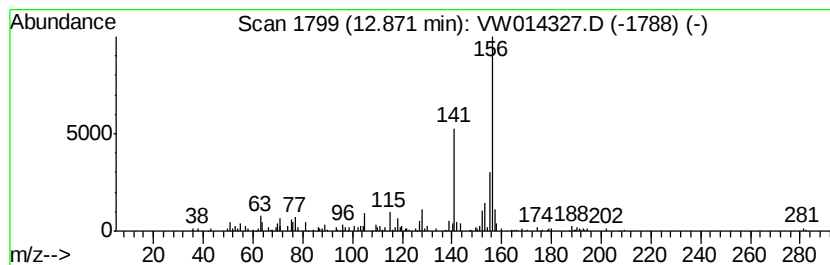
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 13

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.87 | 1.73 ug/L | 143593 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 93   |
| 2    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 93   |
| 3    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 93   |
| 4    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 91   |
| 5    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 91   |



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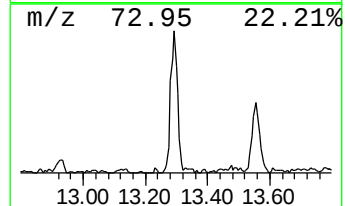
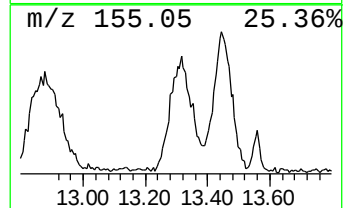
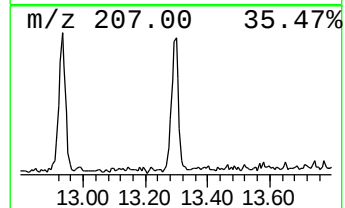
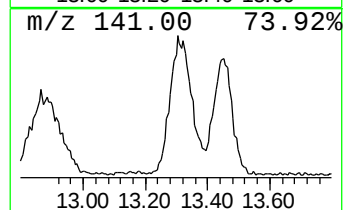
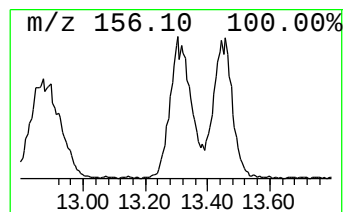
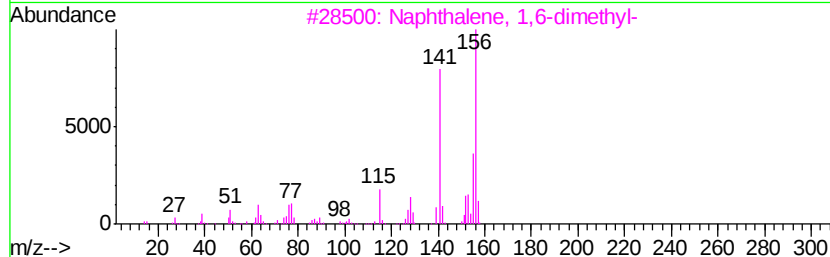
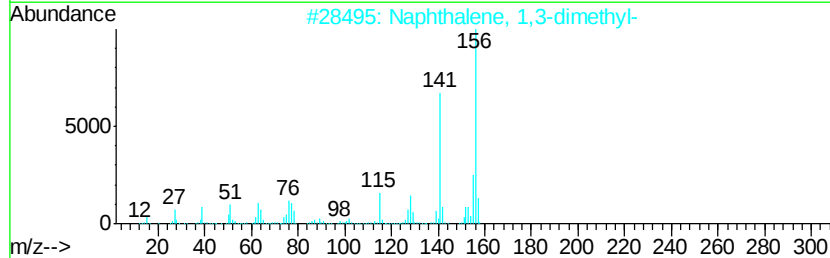
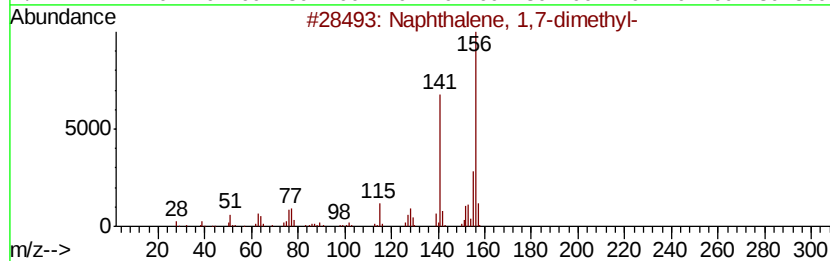
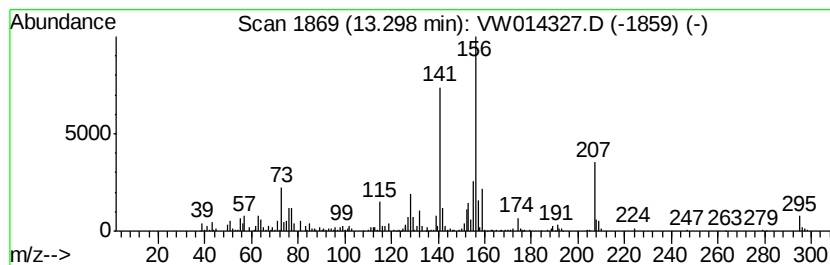
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 5 Naphthalene, 1,7-dimethyl- Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.30 | 7.38 ug/L | 614483 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 2    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 4    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 5    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

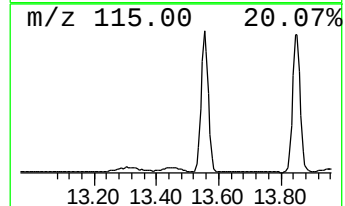
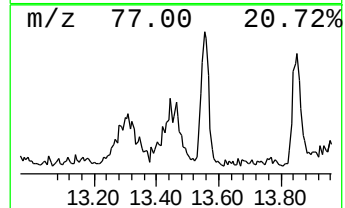
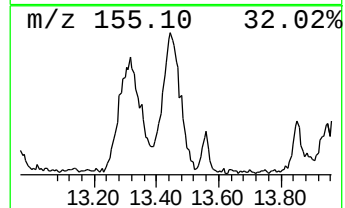
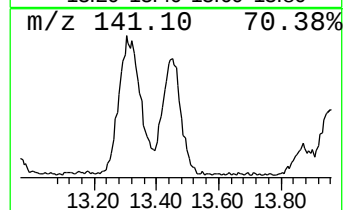
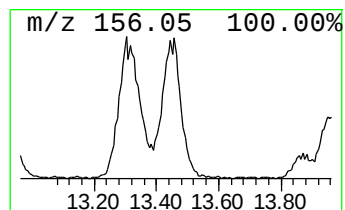
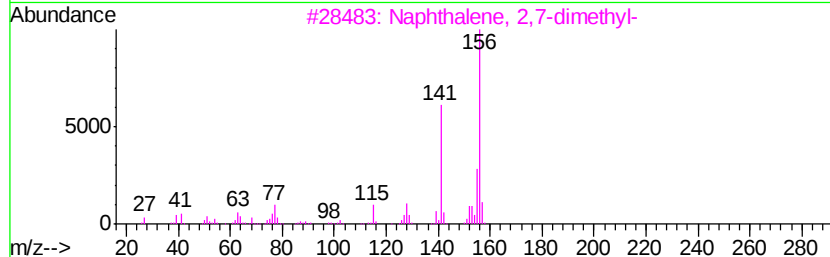
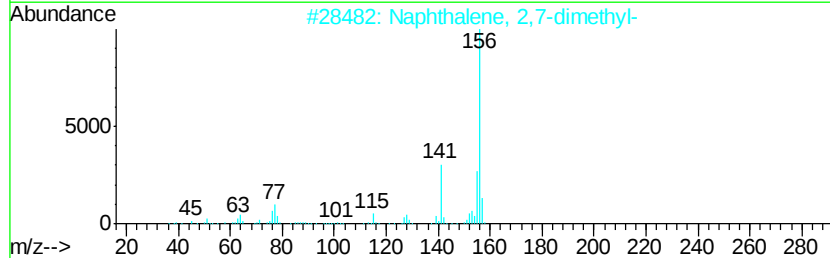
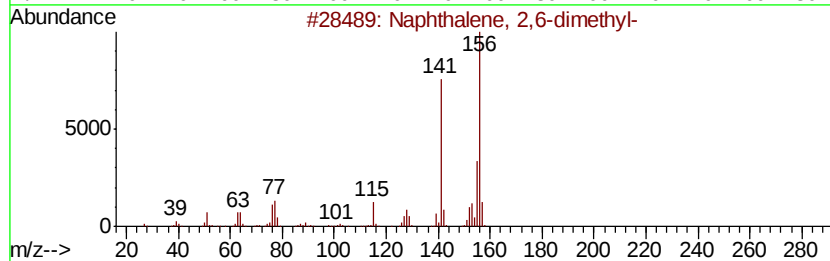
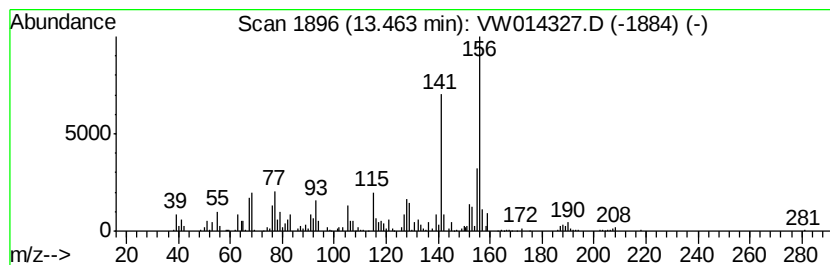
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 6 Naphthalene, 2,6-dimethyl- Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.46 | 6.39 ug/L | 531925 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 2    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |
| 3    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |
| 4    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 95   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

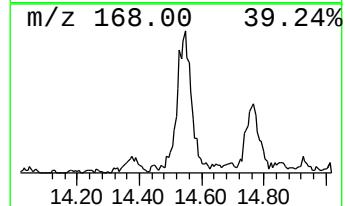
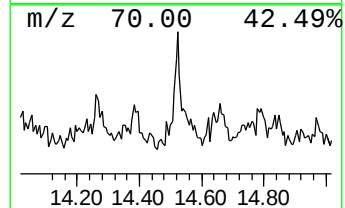
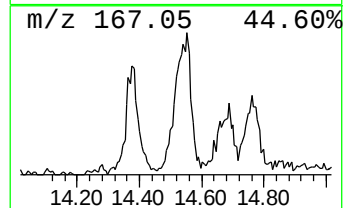
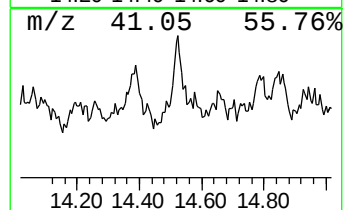
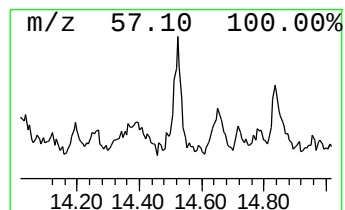
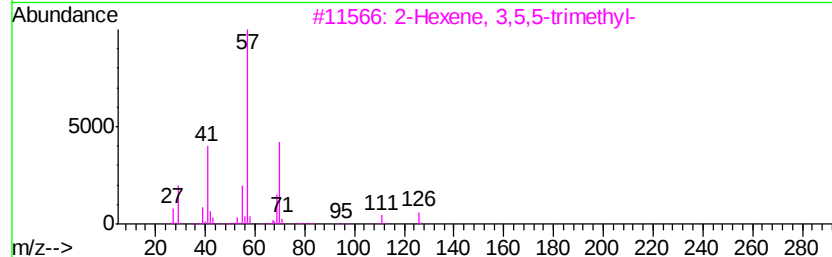
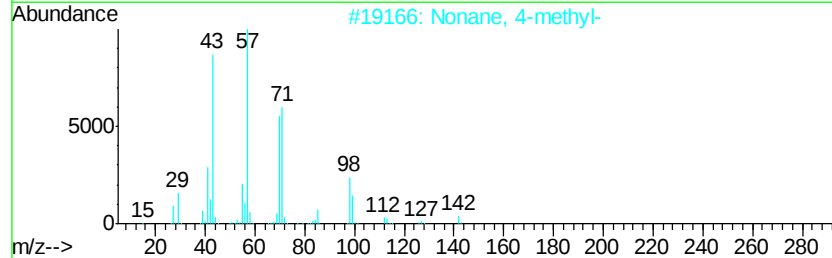
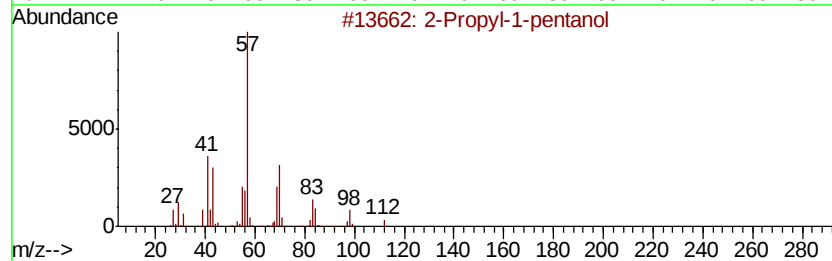
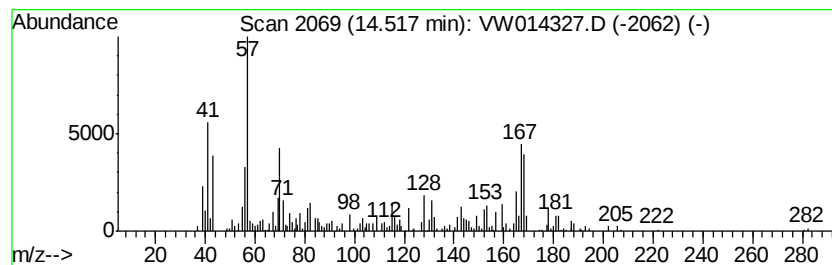
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 unknown-01 Concentration Rank 15

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.52 | 1.66 ug/L | 138026 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 2-Propyl-1-pentanol                 | 130 | C8H18O     | 058175-57-8 | 10   |
| 2    |    | Nonane, 4-methyl-                   | 142 | C10H22     | 017301-94-9 | 10   |
| 3    |    | 2-Hexene, 3,5,5-trimethyl-          | 126 | C9H18      | 026456-76-8 | 10   |
| 4    |    | 2-Bromopropionic acid, 2-ethylhe... | 264 | C11H21BrO2 | 130841-38-2 | 10   |
| 5    |    | 2-Undecene, 2,5-dimethyl-           | 182 | C13H26     | 049622-16-4 | 10   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

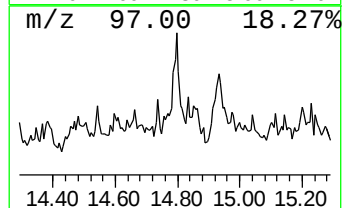
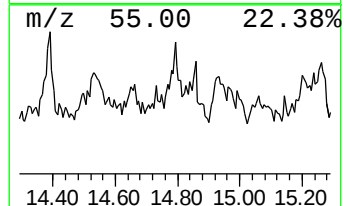
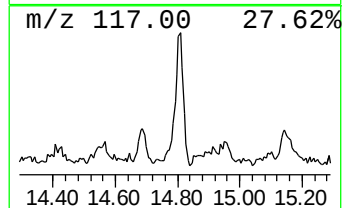
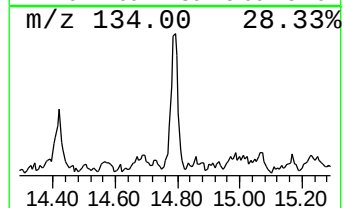
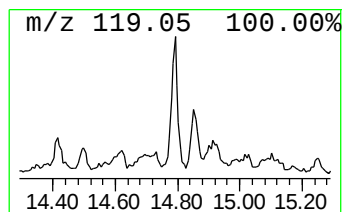
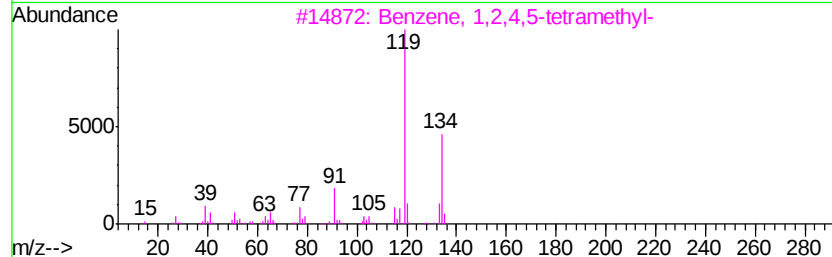
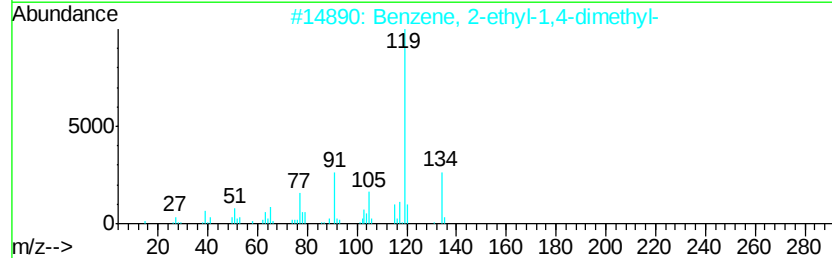
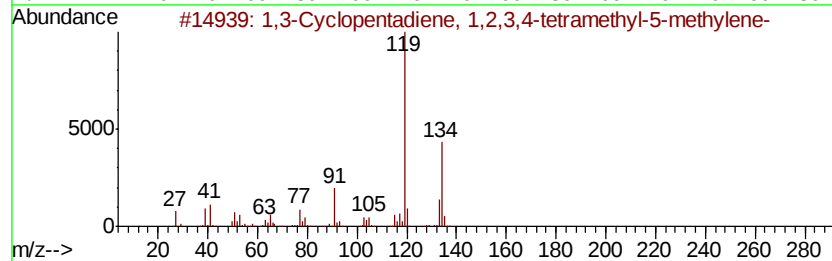
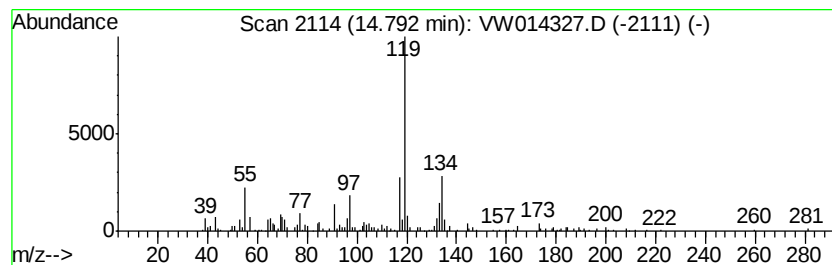
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1,3-Cyclopentadiene, 1,2,3,... Concentration Rank 16

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.79 | 1.31 ug/L | 108903 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 64   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 64   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 64   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 62   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 62   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

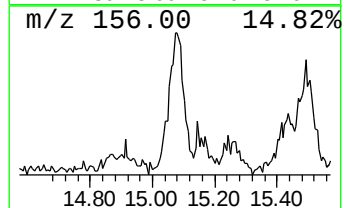
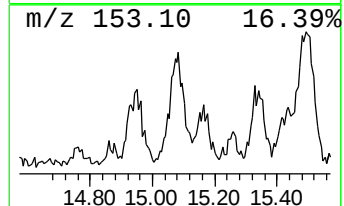
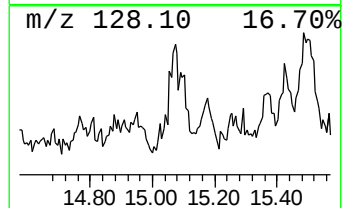
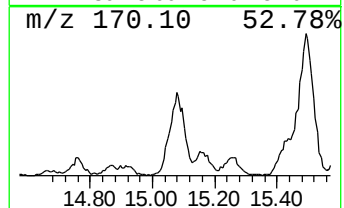
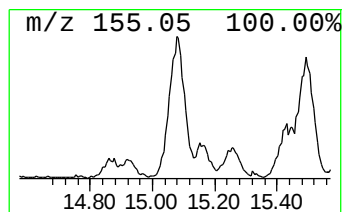
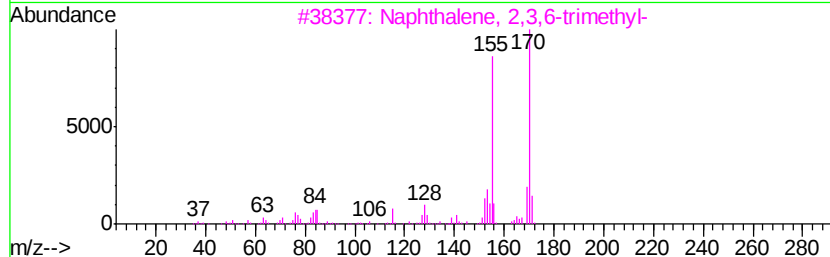
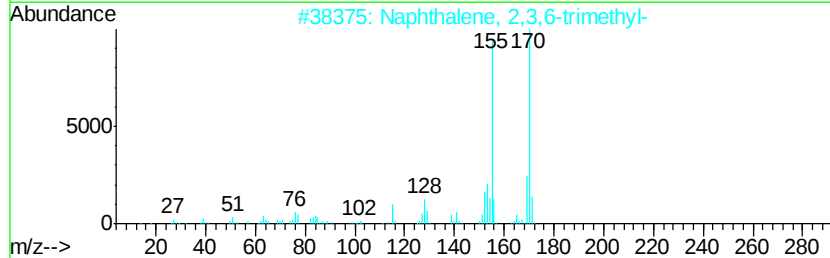
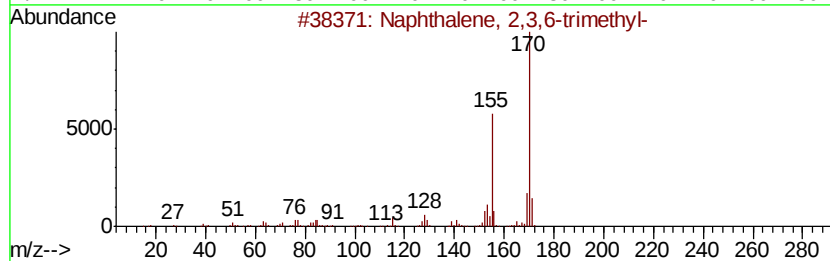
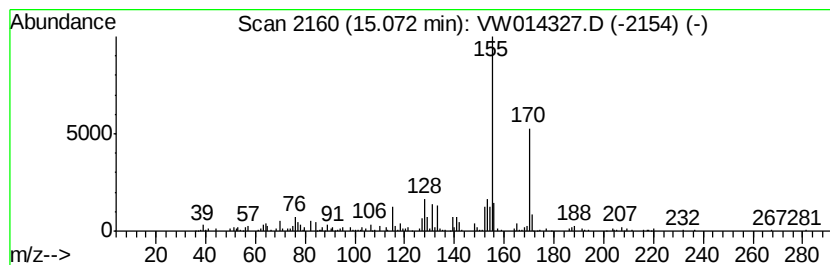
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 2,3,6-trimethyl- Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.07 | 3.15 ug/L | 262615 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---|---------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 91   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 91   |
| 3    |    |   | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 91   |
| 4    |    |   | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14  | 1000187-78-5 | 87   |
| 5    |    |   | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0  | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

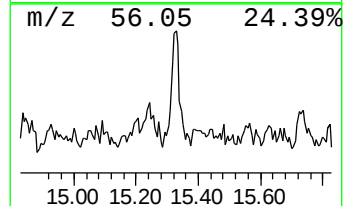
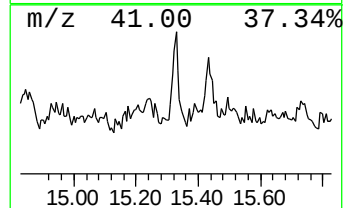
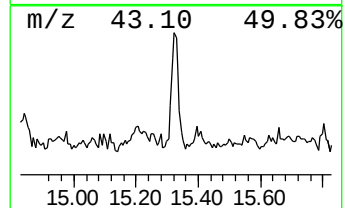
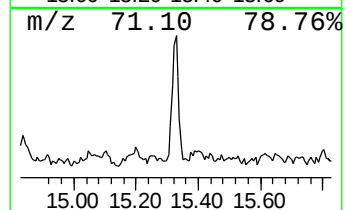
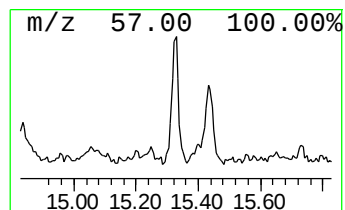
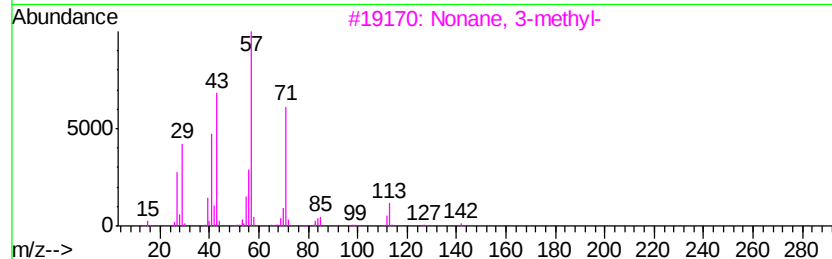
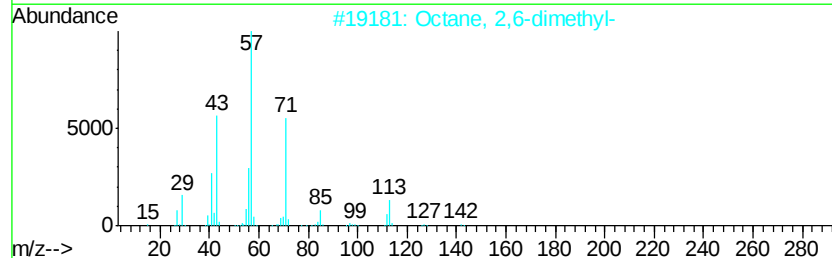
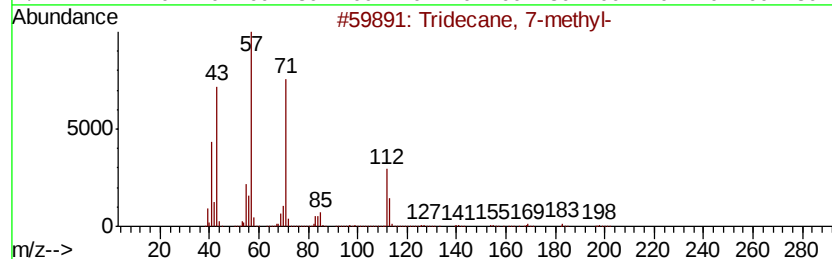
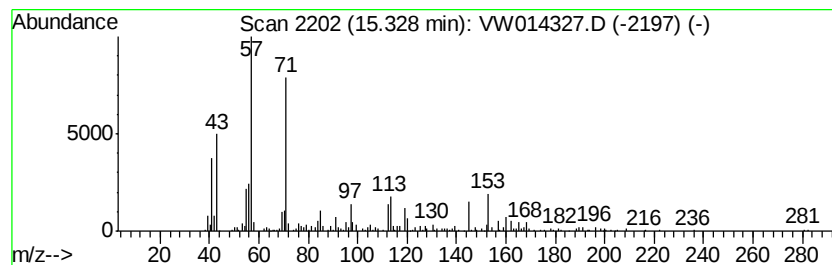
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.      | EstConc               | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-----------------------|--------|------------------------|-------------|------|
| 15.33     | 1.87 ug/L             | 155612 | 1,4-Dichlorobenzene-d4 | 13.55       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm                | CAS#        | Qual |
| 1         | Tridecane, 7-methyl-  | 198    | C14H30                 | 026730-14-3 | 64   |
| 2         | Octane, 2,6-dimethyl- | 142    | C10H22                 | 002051-30-1 | 64   |
| 3         | Nonane, 3-methyl-     | 142    | C10H22                 | 005911-04-6 | 59   |
| 4         | Octane, 3,6-dimethyl- | 142    | C10H22                 | 015869-94-0 | 59   |
| 5         | Bacchotricuneatin c   | 342    | C20H22O5               | 066563-30-2 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

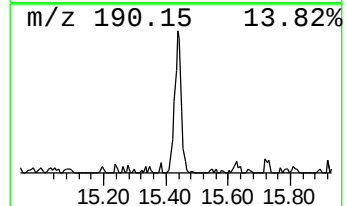
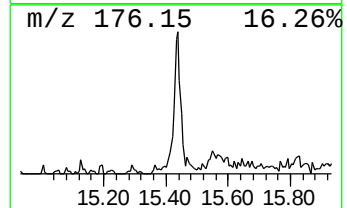
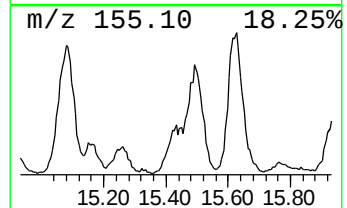
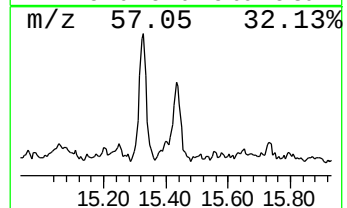
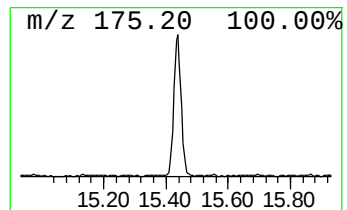
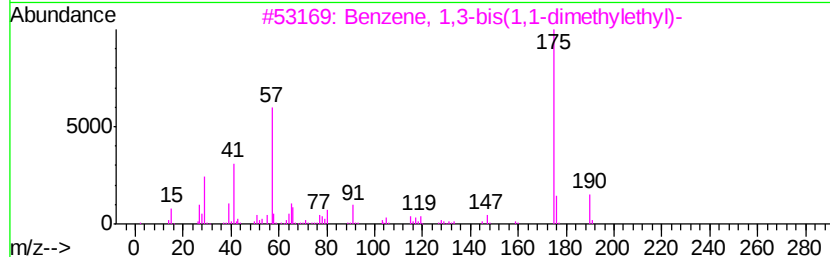
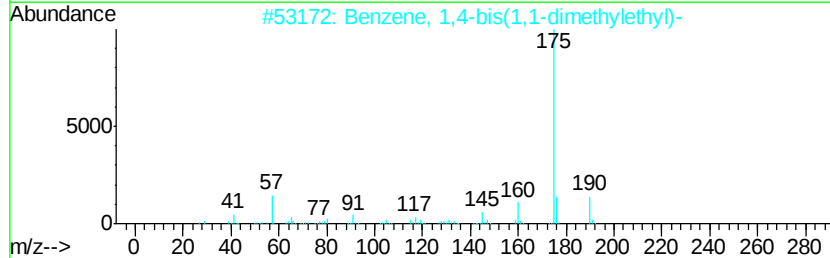
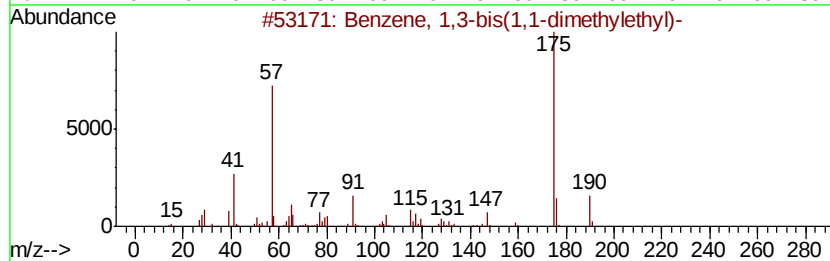
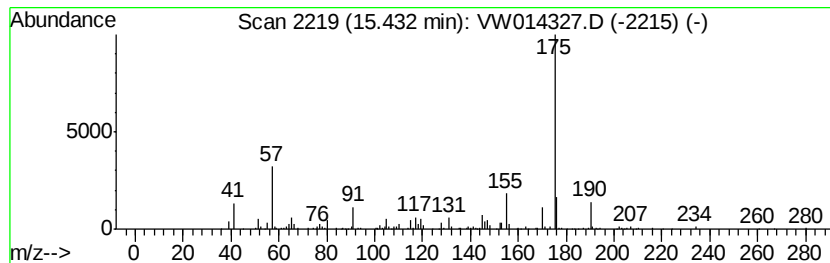
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Benzene, 1,3-bis(1,1-dimeth... Concentration Rank 14

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.43 | 1.71 ug/L | 142264 | 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 | 62   |
| 2    |    | Benzene, 1,4-bis(1,1-dimethylethyl)- | 190 | C14H22  | 001012-72-2 | 59   |
| 3    |    | Benzene, 1,3-bis(1,1-dimethylethyl)- | 190 | C14H22  | 001014-60-4 | 59   |
| 4    |    | m-Cymene, 5-tert-butyl-              | 190 | C14H22  | 029577-19-3 | 59   |
| 5    |    | Benzene, 1,3-bis(1,1-dimethylethyl)- | 190 | C14H22  | 001014-60-4 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

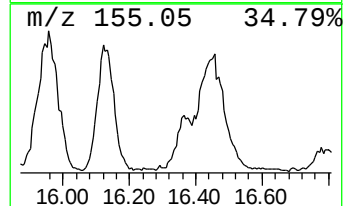
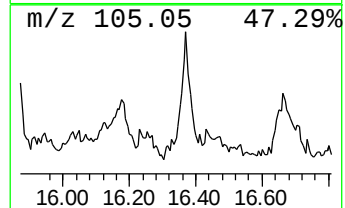
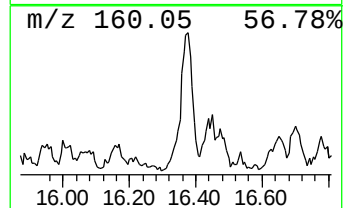
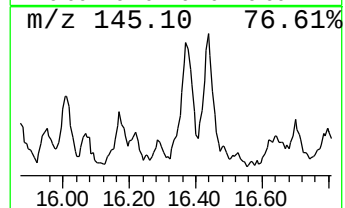
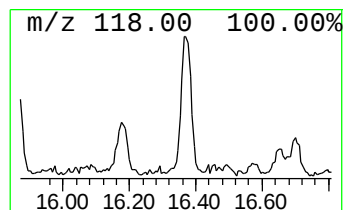
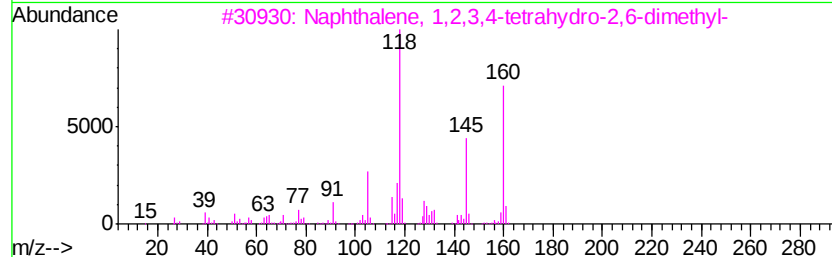
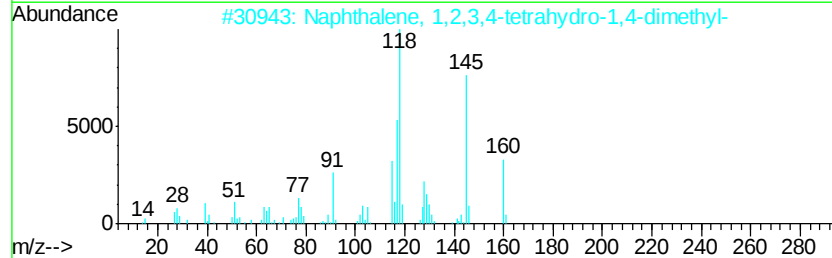
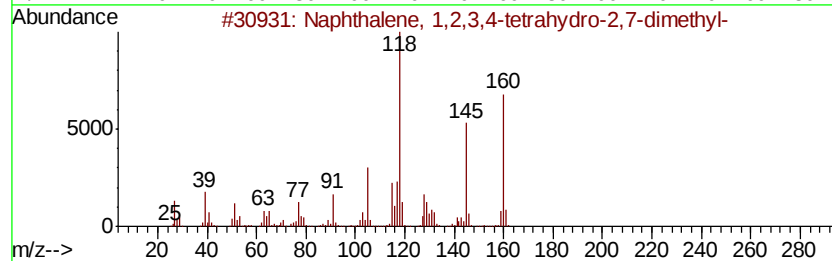
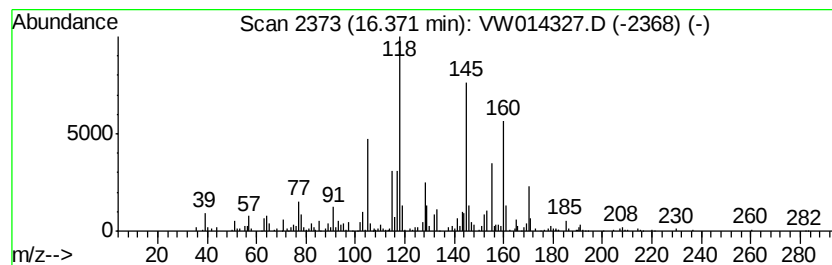
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Naphthalene, 1,2,3,4-tetra... Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.37 | 2.77 ug/L | 230665 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1 | 90   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 76   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2 | 74   |
| 4    |    | Benzene, (3-methyl-1-methylenebu... | 160 | C12H16  | 038212-14-5 | 68   |
| 5    |    | 2,5-Dimethylbenzyl cyanide          | 145 | C10H11N | 016213-85-7 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
Quant Title : VOC Analysis

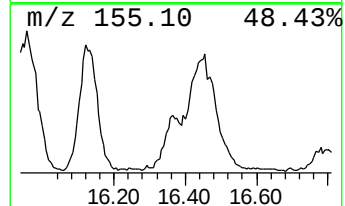
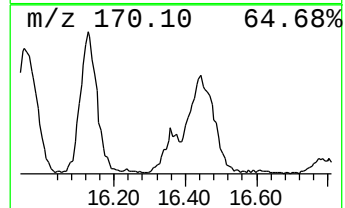
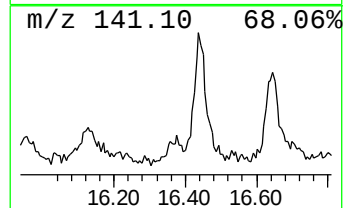
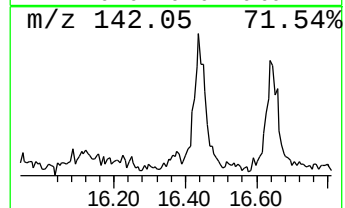
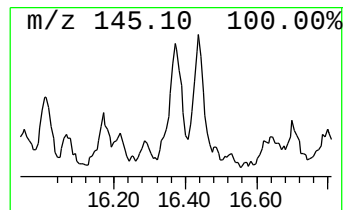
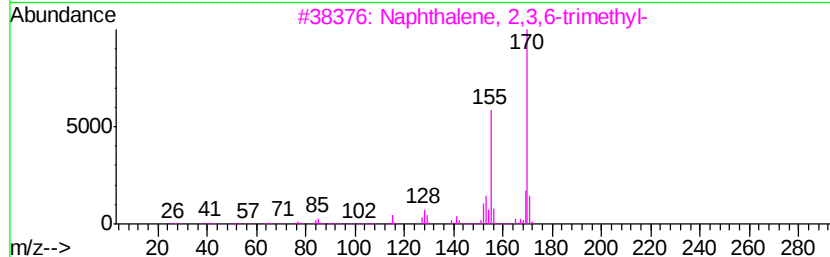
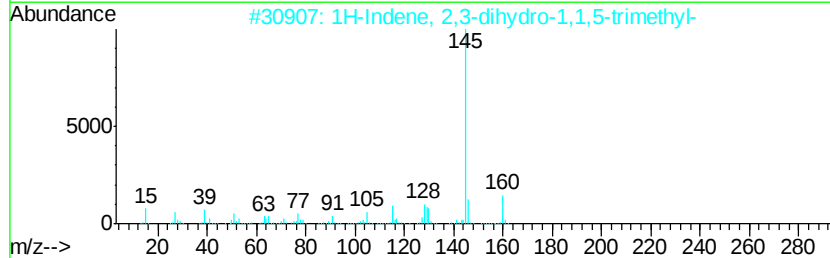
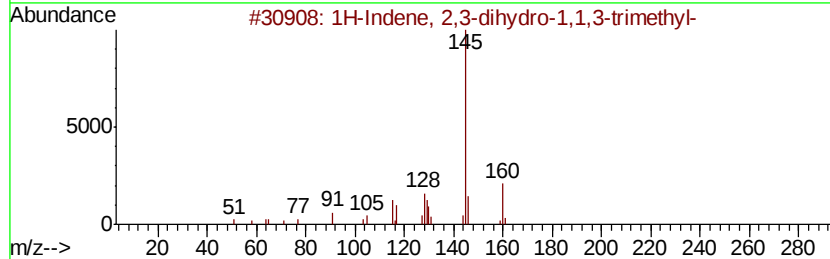
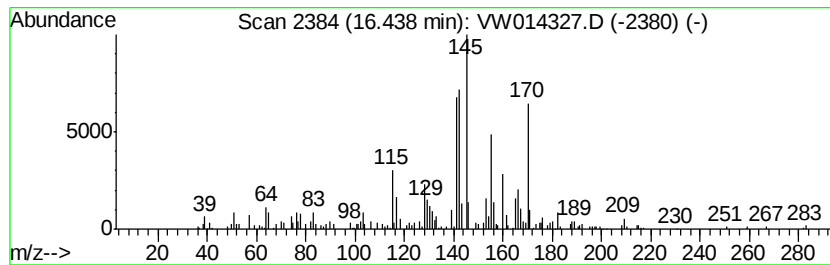
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown-02 Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.44 | 4.10 ug/L | 341119 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16  | 002613-76-5 | 47   |
| 2    |    |   | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160 | C12H16  | 040650-41-7 | 38   |
| 3    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5 | 30   |
| 4    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 001076-61-5 | 25   |
| 5    |    |   | Benzene, (1,3-dimethyl-2-butenyl)-  | 160 | C12H16  | 050704-01-3 | 25   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121219\  
Data File : VW014327.D  
Acq On : 12 Dec 2019 15:43  
Operator : SY/VA  
Sample : K6236-15  
Misc : 5.84G/10ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFEX1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.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 |
| Naphthalene, 2,7-... | 12.87 | 1.7     | ug/L  | 143593   | 3                     | 13.55 | 2081010 | 25.0 |
| Naphthalene, 1,7-... | 13.30 | 7.4     | ug/L  | 614483   | 3                     | 13.55 | 2081010 | 25.0 |
| Naphthalene, 2,6-... | 13.46 | 6.4     | ug/L  | 531925   | 3                     | 13.55 | 2081010 | 25.0 |
| unknown-01           | 14.52 | 1.7     | ug/L  | 138026   | 3                     | 13.55 | 2081010 | 25.0 |
| 1,3-Cyclopentadie... | 14.79 | 1.3     | ug/L  | 108903   | 3                     | 13.55 | 2081010 | 25.0 |
| Naphthalene, 2,3,... | 15.07 | 3.1     | ug/L  | 262615   | 3                     | 13.55 | 2081010 | 25.0 |
| (DEL) Alkane: Str... | 15.33 | 1.9     | ug/L  | 155612   | 3                     | 13.55 | 2081010 | 25.0 |
| Benzene, 1,3-bis(... | 15.43 | 1.7     | ug/L  | 142264   | 3                     | 13.55 | 2081010 | 25.0 |
| Naphthalene, 1,2,... | 16.37 | 2.8     | ug/L  | 230665   | 3                     | 13.55 | 2081010 | 25.0 |
| unknown-02           | 16.44 | 4.1     | ug/L  | 341119   | 3                     | 13.55 | 2081010 | 25.0 |