

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
 Data File : VW005762.D  
 Acq On : 02 Oct 2018 04:06  
 Operator : SY/AP  
 Sample : J5181-09  
 Misc : 3.98G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JLC38

## 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\SOM2WLM092818S.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         | 2.196       | 46            | 48          | 49           | rBV      | 1058           | 546           | 0.07%           | 0.008%        |
| 2         | 2.355       | 65            | 74          | 86           | rBV      | 36245          | 80041         | 10.99%          | 1.171%        |
| 3         | 2.898       | 155           | 163         | 173          | rBV      | 29301          | 76866         | 10.56%          | 1.124%        |
| 4         | 3.196       | 210           | 212         | 214          | rBV3     | 1276           | 1143          | 0.16%           | 0.017%        |
| 5         | 3.507       | 261           | 263         | 264          | rBV2     | 707            | 442           | 0.06%           | 0.006%        |
| 6         | 3.818       | 312           | 314         | 317          | rBV2     | 613            | 791           | 0.11%           | 0.012%        |
| 7         | 4.013       | 334           | 346         | 359          | rBV      | 69546          | 219152        | 30.10%          | 3.205%        |
| 8         | 4.141       | 359           | 367         | 384          | rVB2     | 31885          | 101055        | 13.88%          | 1.478%        |
| 9         | 4.385       | 398           | 407         | 416          | rVB3     | 4542           | 13647         | 1.87%           | 0.200%        |
| 10        | 4.684       | 451           | 456         | 458          | rVV2     | 391            | 742           | 0.10%           | 0.011%        |
| 11        | 4.915       | 483           | 494         | 509          | rBV      | 21677          | 72783         | 10.00%          | 1.065%        |
| 12        | 5.775       | 630           | 635         | 636          | rBV2     | 1132           | 1159          | 0.16%           | 0.017%        |
| 13        | 5.934       | 652           | 661         | 674          | rBV3     | 13491          | 40186         | 5.52%           | 0.588%        |
| 14        | 6.123       | 683           | 692         | 694          | rBV5     | 709            | 1731          | 0.24%           | 0.025%        |
| 15        | 6.659       | 777           | 780         | 783          | rBV3     | 278            | 419           | 0.06%           | 0.006%        |
| 16        | 6.799       | 801           | 803         | 809          | rBV3     | 267            | 490           | 0.07%           | 0.007%        |
| 17        | 6.903       | 815           | 820         | 821          | rBV3     | 479            | 629           | 0.09%           | 0.009%        |
| 18        | 6.921       | 821           | 823         | 828          | rVB3     | 772            | 1071          | 0.15%           | 0.016%        |
| 19        | 7.000       | 832           | 836         | 837          | rBV3     | 422            | 442           | 0.06%           | 0.006%        |
| 20        | 7.092       | 842           | 851         | 857          | rBV      | 26144          | 75227         | 10.33%          | 1.100%        |
| 21        | 7.549       | 922           | 926         | 932          | rVV5     | 861            | 1883          | 0.26%           | 0.028%        |
| 22        | 7.653       | 933           | 943         | 957          | rVB      | 134708         | 328632        | 45.14%          | 4.807%        |
| 23        | 8.025       | 1002          | 1004        | 1009         | rBV2     | 378            | 451           | 0.06%           | 0.007%        |
| 24        | 8.281       | 1035          | 1046        | 1061         | rBV2     | 237340         | 728003        | 100.00%         | 10.648%       |
| 25        | 8.403       | 1061          | 1066        | 1071         | rVB3     | 663            | 1147          | 0.16%           | 0.017%        |
| 26        | 8.555       | 1086          | 1091        | 1092         | rBV3     | 367            | 474           | 0.07%           | 0.007%        |
| 27        | 8.707       | 1109          | 1116        | 1125         | rVB4     | 1792           | 4359          | 0.60%           | 0.064%        |
| 28        | 8.848       | 1130          | 1139        | 1152         | rBV      | 285452         | 560516        | 76.99%          | 8.198%        |
| 29        | 9.073       | 1170          | 1176        | 1185         | rBV9     | 2580           | 6917          | 0.95%           | 0.101%        |
| 30        | 9.281       | 1200          | 1210        | 1220         | rBV      | 177212         | 359933        | 49.44%          | 5.264%        |
| 31        | 9.665       | 1269          | 1273        | 1277         | rBV4     | 910            | 1427          | 0.20%           | 0.021%        |
| 32        | 9.756       | 1284          | 1288        | 1295         | rVB3     | 1180           | 2548          | 0.35%           | 0.037%        |
| 33        | 9.902       | 1306          | 1312        | 1318         | rVB5     | 2648           | 5199          | 0.71%           | 0.076%        |
| 34        | 9.963       | 1318          | 1322        | 1325         | rVB3     | 577            | 972           | 0.13%           | 0.014%        |

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 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

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 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\SOM2WLM092818S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 10.036 | 1327 | 1334 | 1342 | rBV  | 72786  | 134100 | 18.42% | 1.961% |
| 36 | 10.128 | 1345 | 1349 | 1354 | rVB5 | 1003   | 1598   | 0.22%  | 0.023% |
| 37 | 10.219 | 1360 | 1364 | 1367 | rBV4 | 1541   | 1934   | 0.27%  | 0.028% |
| 38 | 10.329 | 1374 | 1382 | 1389 | rBV  | 300567 | 521241 | 71.60% | 7.624% |
| 39 | 10.390 | 1389 | 1392 | 1399 | rVB  | 7450   | 11792  | 1.62%  | 0.172% |
| 40 | 10.506 | 1407 | 1411 | 1416 | rBV4 | 1775   | 2597   | 0.36%  | 0.038% |
| 41 | 10.579 | 1416 | 1423 | 1433 | rBV  | 47878  | 84948  | 11.67% | 1.242% |
| 42 | 10.671 | 1433 | 1438 | 1440 | rBV3 | 954    | 1548   | 0.21%  | 0.023% |
| 43 | 10.707 | 1440 | 1444 | 1450 | rVV  | 9631   | 16650  | 2.29%  | 0.244% |
| 44 | 10.762 | 1451 | 1453 | 1459 | rVB5 | 1323   | 1794   | 0.25%  | 0.026% |
| 45 | 10.859 | 1464 | 1469 | 1474 | rVB7 | 1632   | 3184   | 0.44%  | 0.047% |
| 46 | 10.933 | 1474 | 1481 | 1493 | rBV  | 100532 | 177632 | 24.40% | 2.598% |
| 47 | 11.067 | 1498 | 1503 | 1513 | rVV  | 16433  | 30399  | 4.18%  | 0.445% |
| 48 | 11.140 | 1513 | 1515 | 1519 | rVV4 | 999    | 1396   | 0.19%  | 0.020% |
| 49 | 11.183 | 1519 | 1522 | 1525 | rVV4 | 1377   | 2304   | 0.32%  | 0.034% |
| 50 | 11.237 | 1525 | 1531 | 1536 | rVB4 | 4456   | 8961   | 1.23%  | 0.131% |
| 51 | 11.286 | 1536 | 1539 | 1541 | rBV3 | 903    | 1007   | 0.14%  | 0.015% |
| 52 | 11.335 | 1544 | 1547 | 1551 | rVB4 | 1171   | 1819   | 0.25%  | 0.027% |
| 53 | 11.445 | 1559 | 1565 | 1573 | rVB3 | 7258   | 14624  | 2.01%  | 0.214% |
| 54 | 11.512 | 1573 | 1576 | 1581 | rBV4 | 1062   | 2065   | 0.28%  | 0.030% |
| 55 | 11.634 | 1588 | 1596 | 1605 | rBV  | 346585 | 588938 | 80.90% | 8.614% |
| 56 | 11.737 | 1608 | 1613 | 1618 | rBV2 | 6914   | 12315  | 1.69%  | 0.180% |
| 57 | 11.847 | 1623 | 1631 | 1649 | rVB4 | 13477  | 40748  | 5.60%  | 0.596% |
| 58 | 11.981 | 1649 | 1653 | 1658 | rBV7 | 1731   | 3680   | 0.51%  | 0.054% |
| 59 | 12.054 | 1663 | 1665 | 1670 | rVB4 | 737    | 846    | 0.12%  | 0.012% |
| 60 | 12.170 | 1673 | 1684 | 1691 | rBV4 | 13035  | 35147  | 4.83%  | 0.514% |
| 61 | 12.237 | 1692 | 1695 | 1703 | rVB6 | 2380   | 4162   | 0.57%  | 0.061% |
| 62 | 12.292 | 1703 | 1704 | 1706 | rBV2 | 489    | 455    | 0.06%  | 0.007% |
| 63 | 12.359 | 1706 | 1715 | 1722 | rBV5 | 7470   | 23759  | 3.26%  | 0.348% |
| 64 | 12.469 | 1729 | 1733 | 1738 | rVB5 | 6807   | 11233  | 1.54%  | 0.164% |
| 65 | 12.530 | 1738 | 1743 | 1748 | rVB2 | 11727  | 18266  | 2.51%  | 0.267% |
| 66 | 12.615 | 1752 | 1757 | 1762 | rBV  | 21730  | 35794  | 4.92%  | 0.524% |
| 67 | 12.695 | 1764 | 1770 | 1781 | rBV  | 135451 | 238724 | 32.79% | 3.492% |
| 68 | 12.786 | 1781 | 1785 | 1794 | rVB8 | 6931   | 17217  | 2.36%  | 0.252% |
| 69 | 12.871 | 1794 | 1799 | 1802 | rBV  | 21203  | 37719  | 5.18%  | 0.552% |
| 70 | 12.932 | 1804 | 1809 | 1822 | rVB3 | 66389  | 188422 | 25.88% | 2.756% |
| 71 | 13.054 | 1823 | 1829 | 1832 | rBV2 | 33653  | 59623  | 8.19%  | 0.872% |

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 MSVOA\_W  
 ClientSampleId :  
 JLC38

## Integration Parameters: LSCINT.P

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 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\SOM2WLM092818S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.097 | 1832 | 1836 | 1845 | rVB3 | 45013  | 84243  | 11.57% | 1.232% |
| 73  | 13.255 | 1858 | 1862 | 1867 | rBV  | 31093  | 50193  | 6.89%  | 0.734% |
| 74  | 13.450 | 1890 | 1894 | 1899 | rBV4 | 15534  | 25851  | 3.55%  | 0.378% |
| 75  | 13.505 | 1899 | 1903 | 1906 | rVB  | 12483  | 18131  | 2.49%  | 0.265% |
| 76  | 13.566 | 1907 | 1913 | 1921 | rBV2 | 248222 | 439784 | 60.41% | 6.432% |
| 77  | 13.761 | 1941 | 1945 | 1947 | rBV2 | 13162  | 20613  | 2.83%  | 0.301% |
| 78  | 13.798 | 1947 | 1951 | 1955 | rVB  | 37696  | 57188  | 7.86%  | 0.836% |
| 79  | 13.859 | 1955 | 1961 | 1971 | rVB  | 197278 | 353139 | 48.51% | 5.165% |
| 80  | 13.956 | 1974 | 1977 | 1981 | rVB  | 9908   | 13043  | 1.79%  | 0.191% |
| 81  | 14.017 | 1983 | 1987 | 1990 | rBV3 | 17789  | 30231  | 4.15%  | 0.442% |
| 82  | 14.048 | 1990 | 1992 | 1995 | rVB  | 17294  | 17432  | 2.39%  | 0.255% |
| 83  | 14.213 | 2014 | 2019 | 2024 | rVB2 | 24450  | 39069  | 5.37%  | 0.571% |
| 84  | 14.267 | 2024 | 2028 | 2034 | rVB8 | 5792   | 11150  | 1.53%  | 0.163% |
| 85  | 14.341 | 2036 | 2040 | 2045 | rVV3 | 17607  | 29965  | 4.12%  | 0.438% |
| 86  | 14.395 | 2045 | 2049 | 2050 | rVV4 | 9739   | 13516  | 1.86%  | 0.198% |
| 87  | 14.426 | 2051 | 2054 | 2057 | rVV  | 21904  | 36456  | 5.01%  | 0.533% |
| 88  | 14.469 | 2057 | 2061 | 2065 | rVV  | 54182  | 84334  | 11.58% | 1.233% |
| 89  | 14.511 | 2065 | 2068 | 2071 | rVV2 | 23306  | 32788  | 4.50%  | 0.480% |
| 90  | 14.548 | 2071 | 2074 | 2082 | rVB4 | 21630  | 36017  | 4.95%  | 0.527% |
| 91  | 14.694 | 2094 | 2098 | 2102 | rBV3 | 13615  | 22353  | 3.07%  | 0.327% |
| 92  | 14.737 | 2102 | 2105 | 2110 | rVB2 | 25882  | 37166  | 5.11%  | 0.544% |
| 93  | 14.804 | 2110 | 2116 | 2123 | rBV5 | 46816  | 120667 | 16.58% | 1.765% |
| 94  | 14.865 | 2123 | 2126 | 2133 | rVB5 | 17684  | 28123  | 3.86%  | 0.411% |
| 95  | 14.969 | 2140 | 2143 | 2145 | rBV3 | 6073   | 8288   | 1.14%  | 0.121% |
| 96  | 15.072 | 2156 | 2160 | 2164 | rBV5 | 24580  | 49335  | 6.78%  | 0.722% |
| 97  | 15.182 | 2174 | 2178 | 2186 | rVB3 | 31400  | 68084  | 9.35%  | 0.996% |
| 98  | 15.664 | 2251 | 2257 | 2266 | rBV3 | 17686  | 39237  | 5.39%  | 0.574% |
| 99  | 15.962 | 2302 | 2306 | 2312 | rVB6 | 10211  | 18928  | 2.60%  | 0.277% |
| 100 | 16.651 | 2414 | 2419 | 2427 | rVB7 | 9007   | 22123  | 3.04%  | 0.324% |

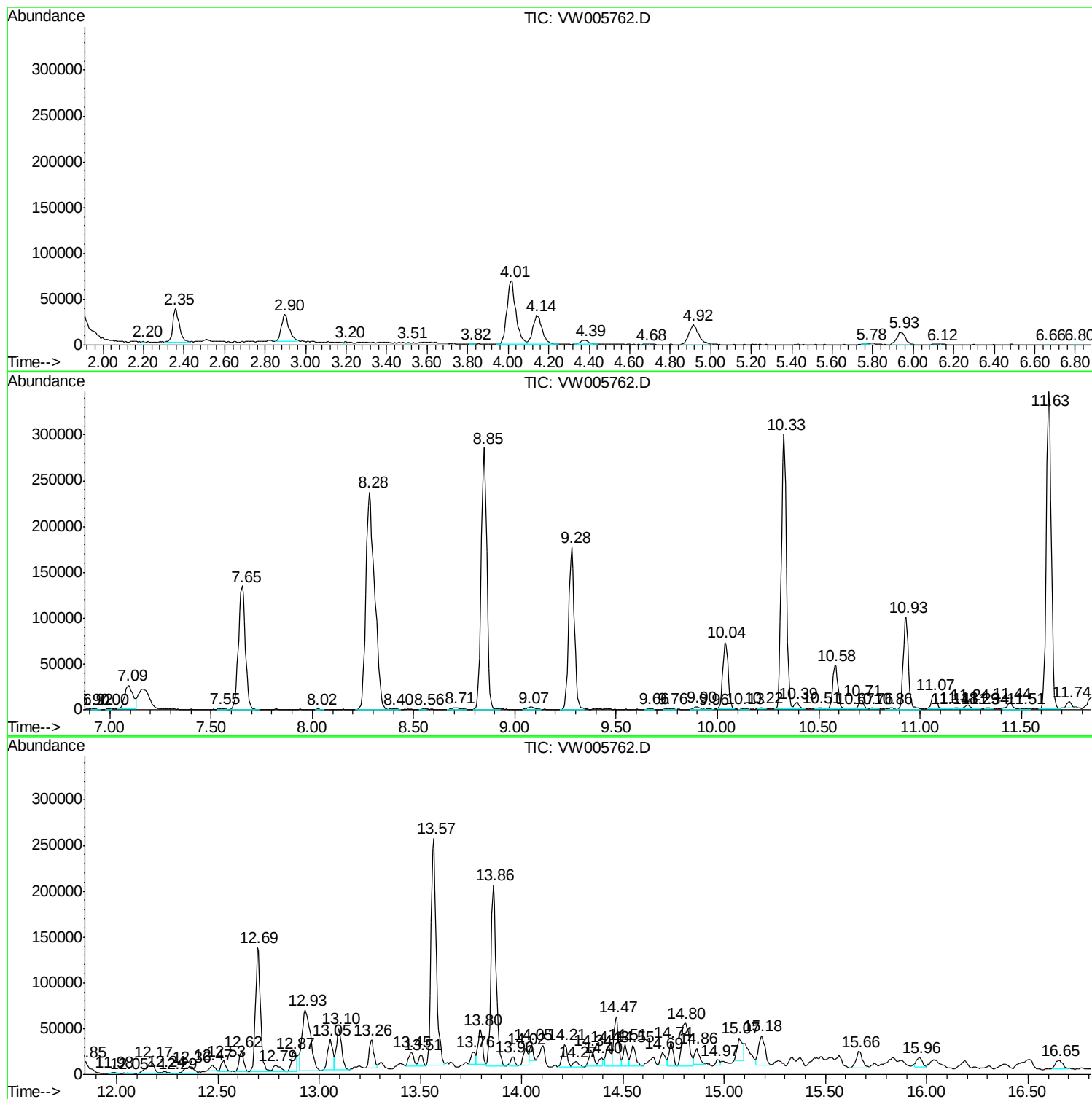
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

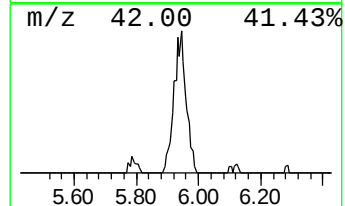
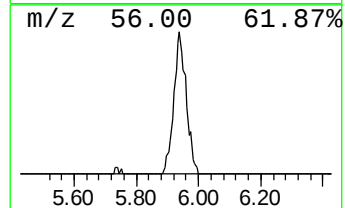
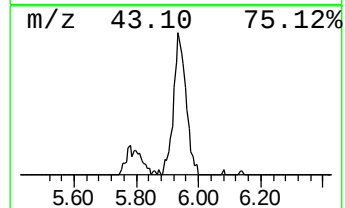
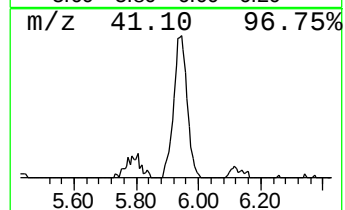
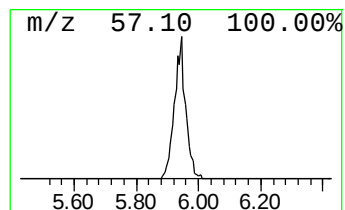
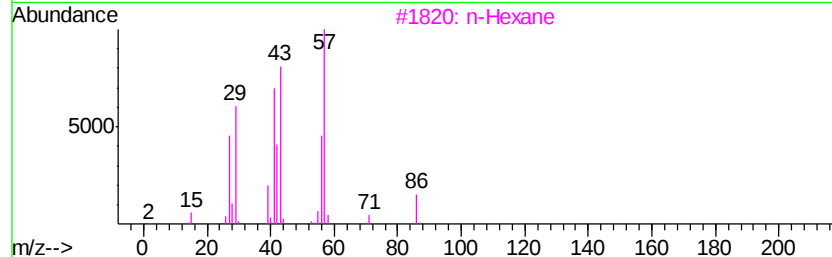
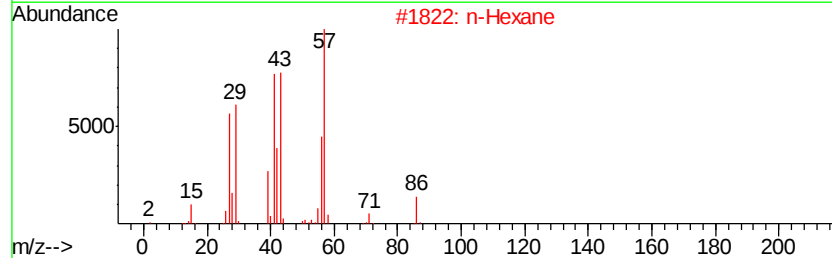
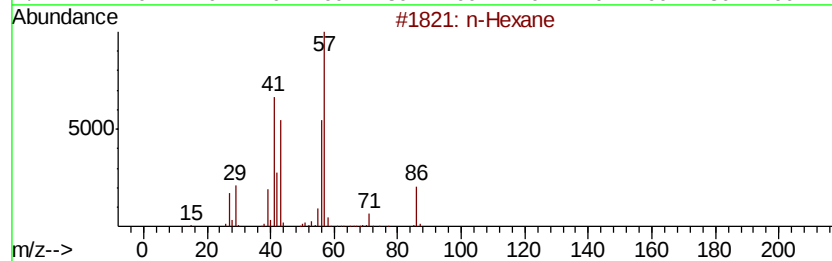
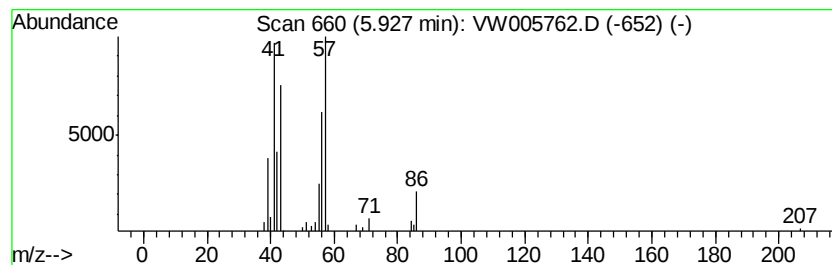
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.93 | 1.79 ug/L | 40186 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|----------------------|----|---------|-------------|------|
| 1    | 5  | n-Hexane             | 86 | C6H14   | 000110-54-3 | 58   |
| 2    |    | n-Hexane             | 86 | C6H14   | 000110-54-3 | 56   |
| 3    |    | n-Hexane             | 86 | C6H14   | 000110-54-3 | 53   |
| 4    |    | 1-Pentene, 4-methyl- | 84 | C6H12   | 000691-37-2 | 42   |
| 5    |    | 1-Pentene, 4-methyl- | 84 | C6H12   | 000691-37-2 | 42   |



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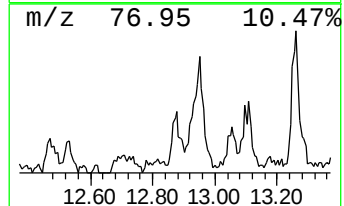
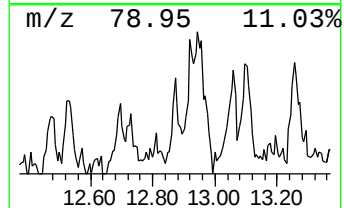
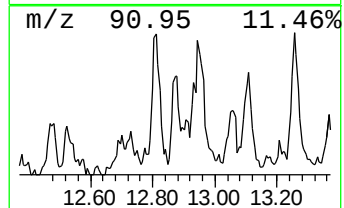
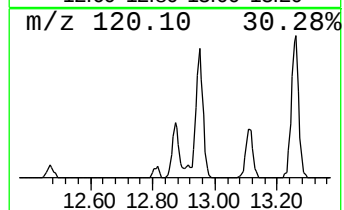
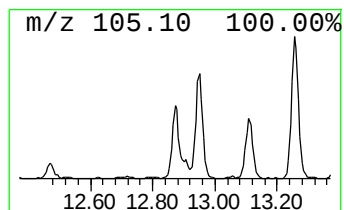
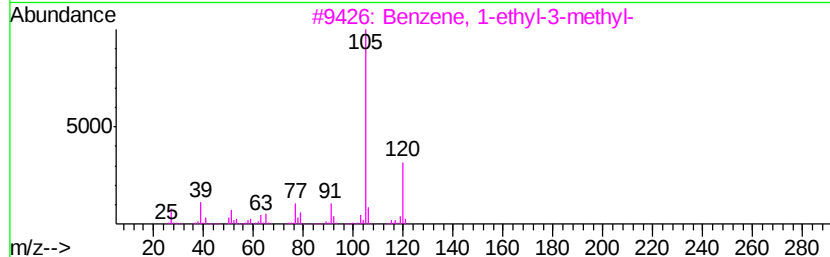
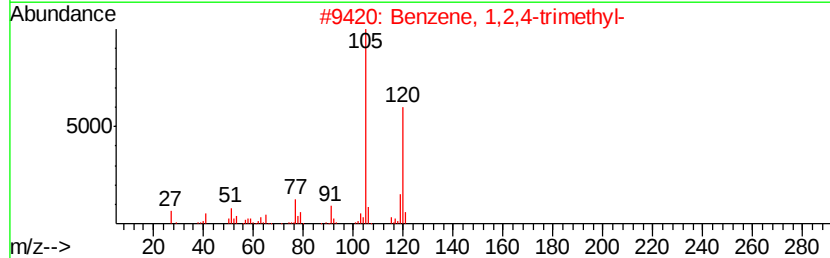
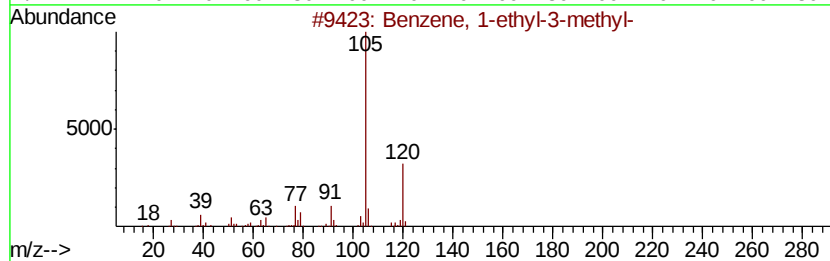
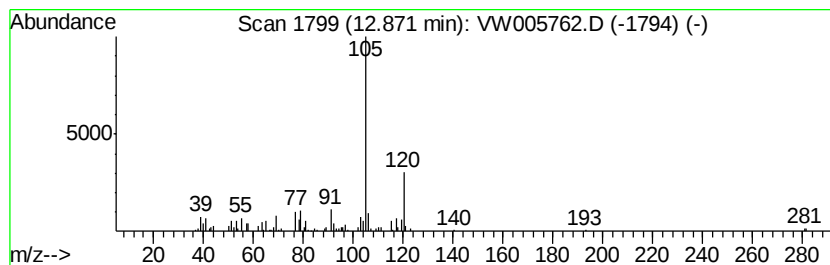
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 5 Benzene, 1-ethyl-3-methyl- Concentration Rank 13

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.87 | 2.14 ug/L | 37719 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 87   |
| 2    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 87   |
| 3    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 87   |
| 4    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 87   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 81   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

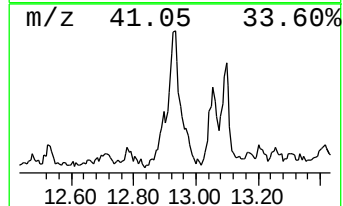
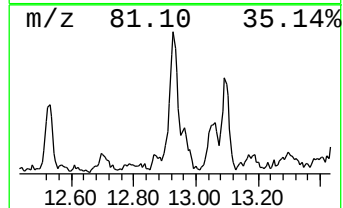
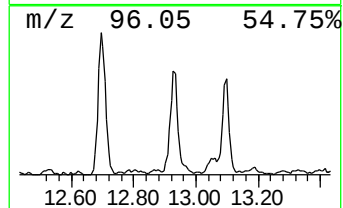
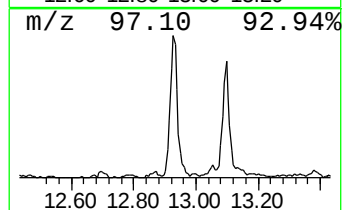
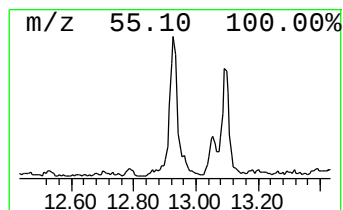
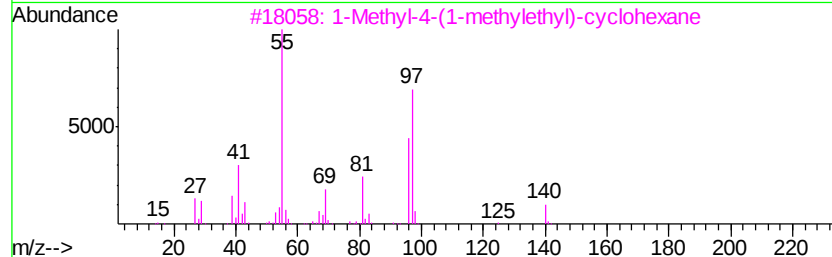
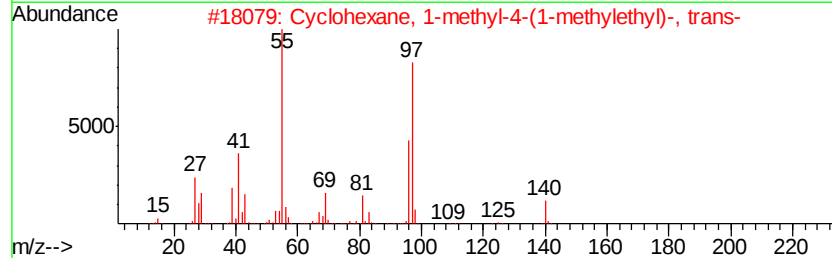
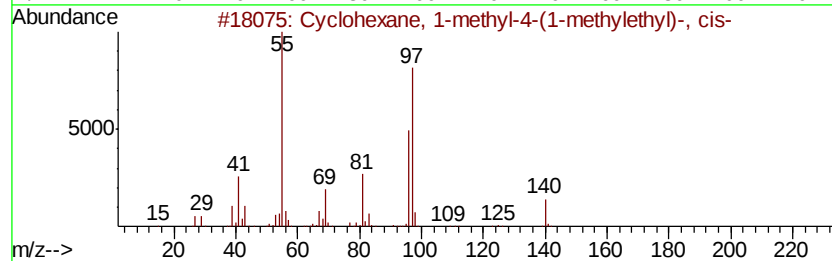
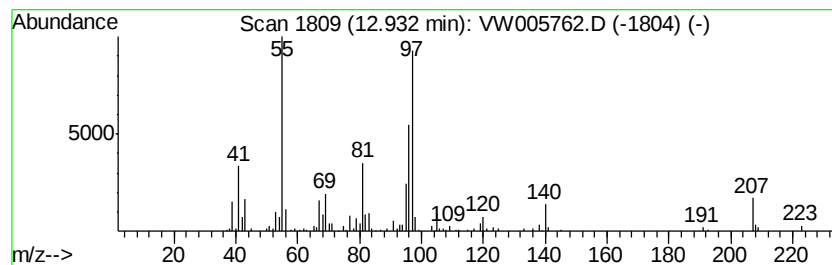
Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Cyclic12.93 Concentration Rank 1

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 12.93   | 10.71 ug/L | 188422                              | 1,4-Dichlorobenzene-d4 | 13.57          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Cyclohexane, 1-methyl-4-(1-methy... | 140 C10H20             | 006069-98-3 94 |
| 2       |            | Cyclohexane, 1-methyl-4-(1-methy... | 140 C10H20             | 001678-82-6 76 |
| 3       |            | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 C10H20             | 000099-82-1 70 |
| 4       |            | m-Menthane, (1S,3S)-(+)-            | 140 C10H20             | 013837-67-7 68 |
| 5       |            | Cyclohexane, 1-methyl-4-(1-methy... | 140 C10H20             | 001678-82-6 68 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

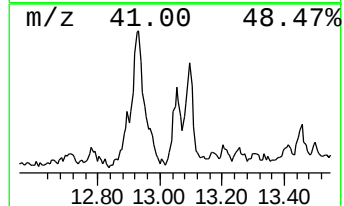
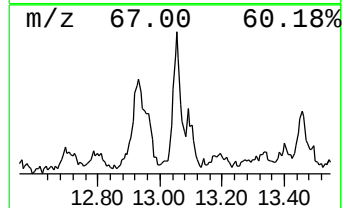
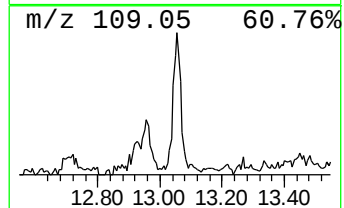
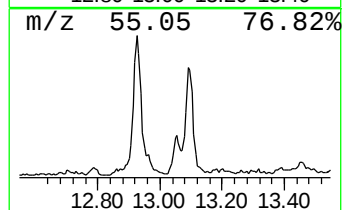
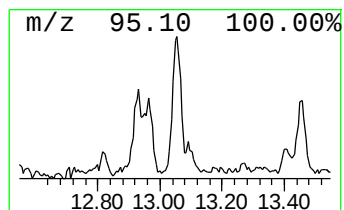
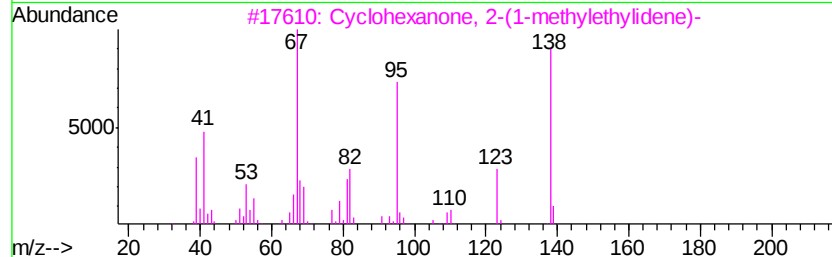
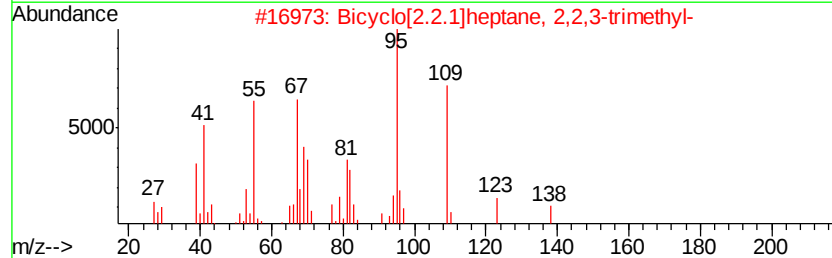
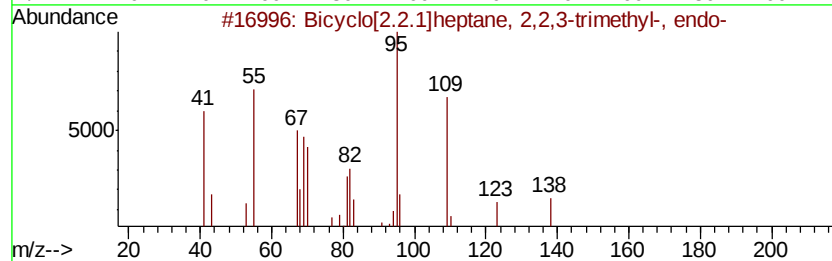
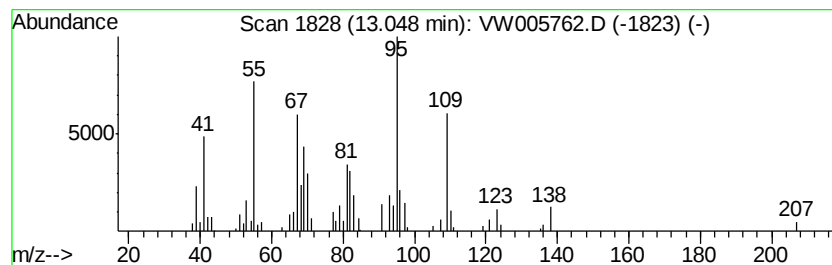
Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 7 Bicyclo[2.2.1]heptane, 2,2,... Concentration Rank 7

| R.T.    | EstConc                              | Area         | Relative to ISTD       | R.T.         |      |      |
|---------|--------------------------------------|--------------|------------------------|--------------|------|------|
| 13.05   | 3.39 ug/L                            | 59623        | 1,4-Dichlorobenzene-d4 | 13.57        |      |      |
| Hit# of | 5                                    | Tentative ID | MW                     | MolForm      | CAS# | Qual |
| 1       | Bicyclo[2.2.1]heptane, 2,2,3-tri...  | 138          | C10H18                 | 020536-40-7  | 94   |      |
| 2       | Bicyclo[2.2.1]heptane, 2,2,3-tri...  | 138          | C10H18                 | 000473-19-8  | 93   |      |
| 3       | Cyclohexanone, 2-(1-methylethylid... | 138          | C9H14O                 | 013747-73-4  | 76   |      |
| 4       | Bicyclo[3.1.1]heptane, 2,6,6-tri...  | 138          | C10H18                 | 004863-59-6  | 76   |      |
| 5       | (2Z,4E)-3,7-Dimethyl-2,4-octadiene   | 138          | C10H18                 | 1000374-08-4 | 64   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

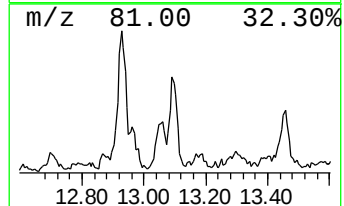
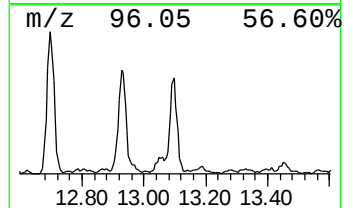
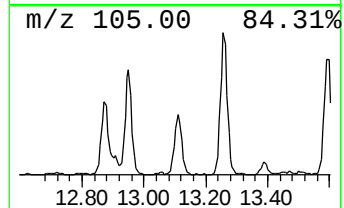
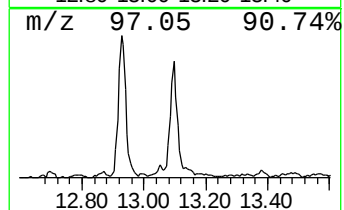
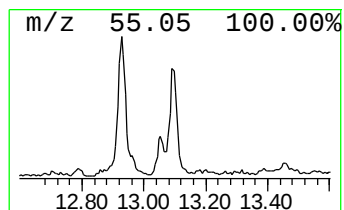
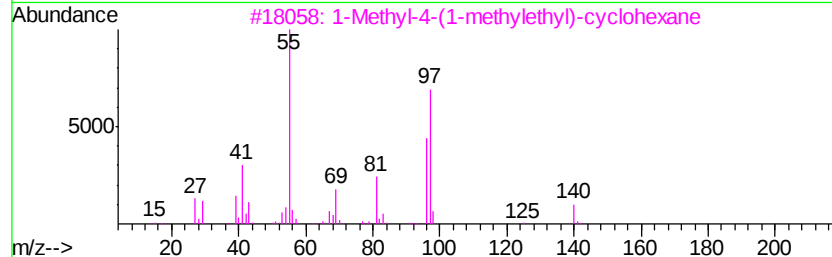
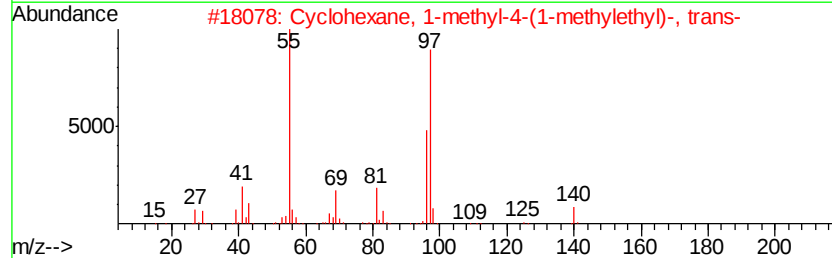
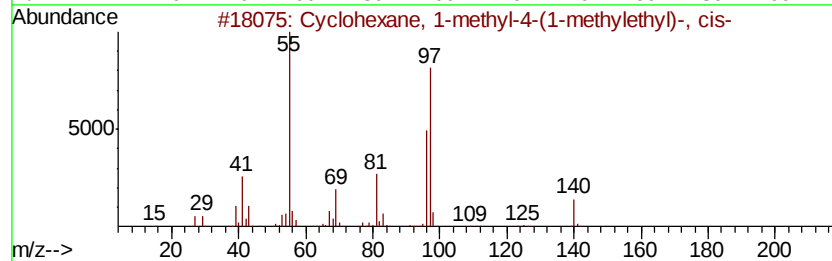
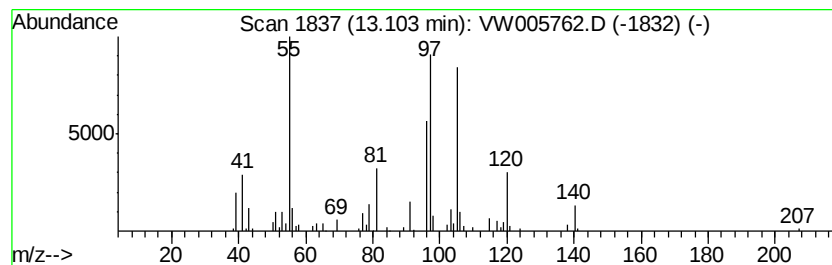
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Cyclic13.10 Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.10 | 4.79 ug/L | 84243 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 76   |
| 2    |    | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 68   |
| 3    |    | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20  | 000099-82-1 | 68   |
| 4    |    | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 64   |
| 5    |    | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

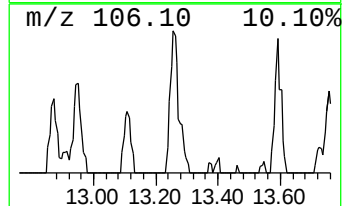
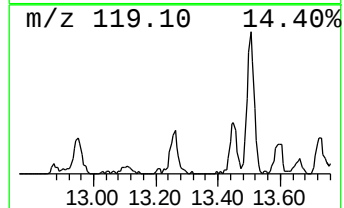
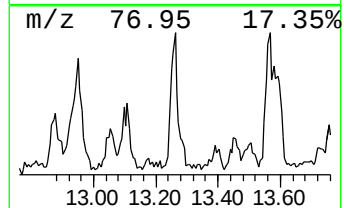
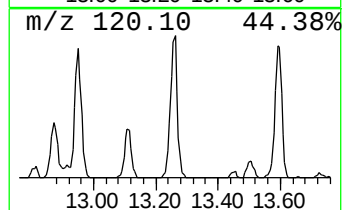
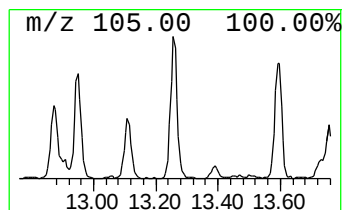
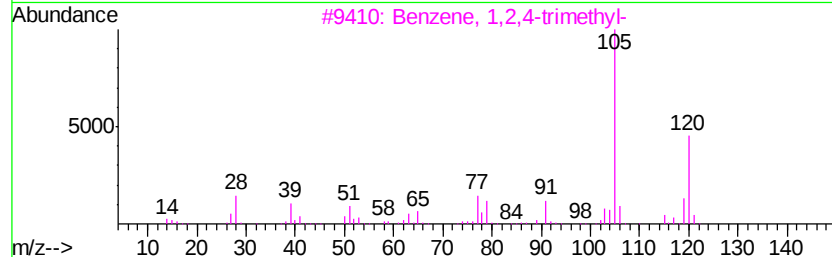
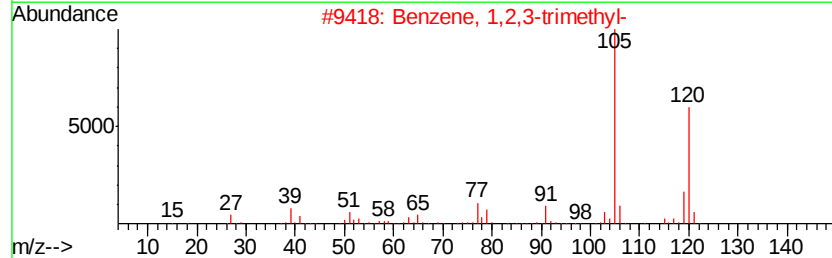
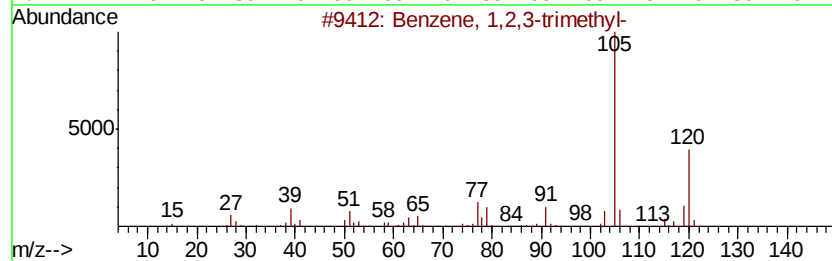
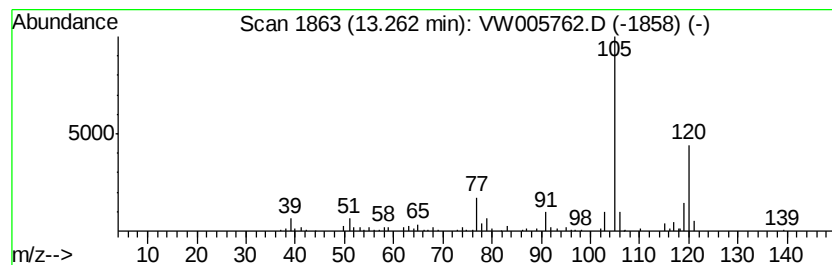
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Quant Title : VOC Analysis

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

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Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.26 | 2.85 ug/L | 50193 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 95   |
| 2    |    | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 94   |
| 3    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |
| 4    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 91   |
| 5    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

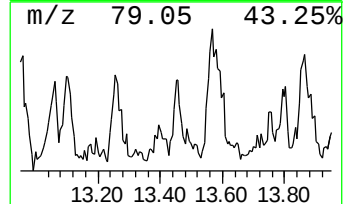
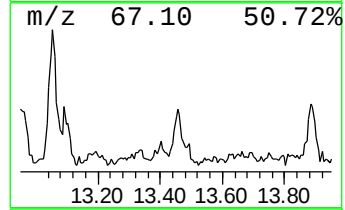
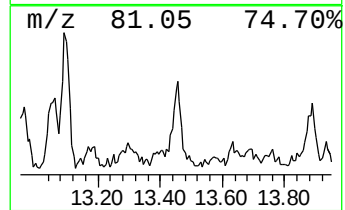
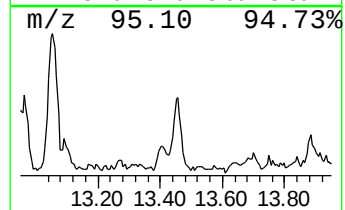
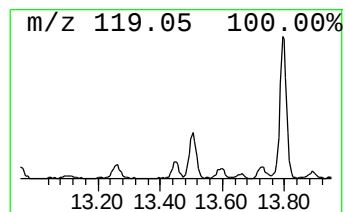
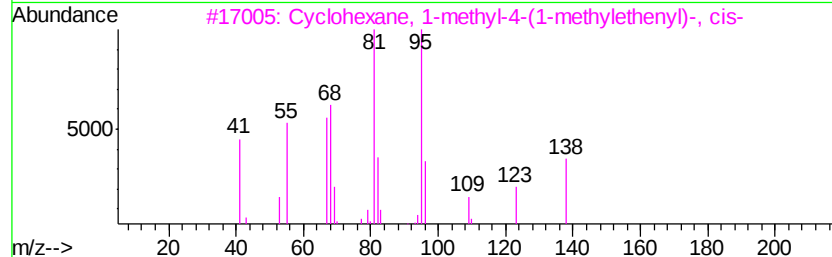
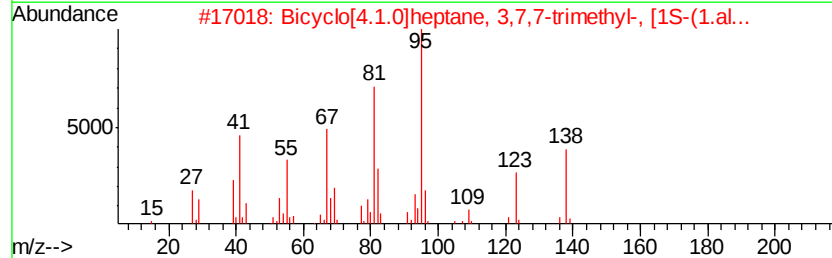
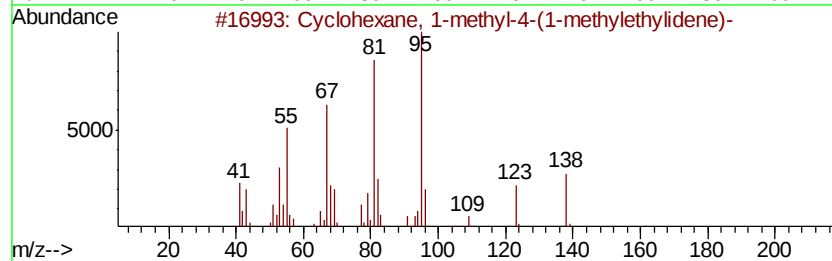
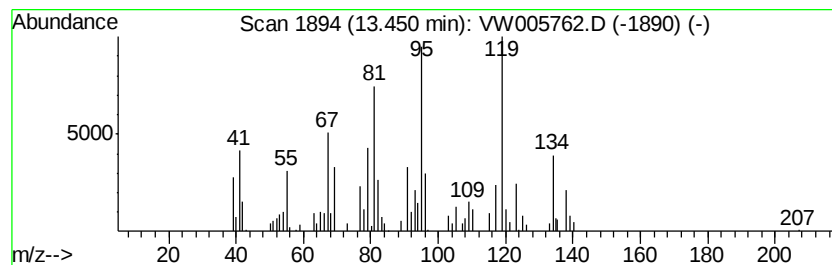
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Cyclohexane, 1-methyl-4-(1-... Concentration Rank 23

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.45 | 1.47 ug/L | 25851 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18  | 001124-27-2 | 53   |
| 2    |    |   | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18  | 002778-68-9 | 49   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18  | 001879-07-8 | 43   |
| 4    |    |   | 4-Acetyl-1-methylcyclohexene        | 138 | C9H14O  | 006090-09-1 | 38   |
| 5    |    |   | 2-Methyl-3-trans-propenylpyrazine   | 134 | C8H10N2 | 232255-41-3 | 30   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

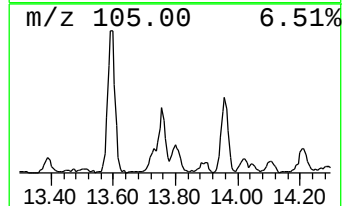
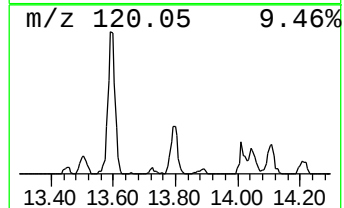
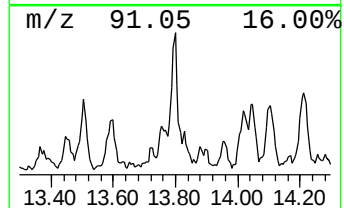
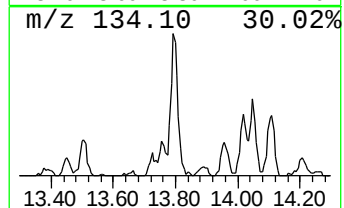
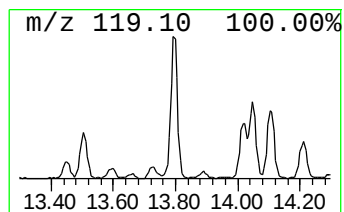
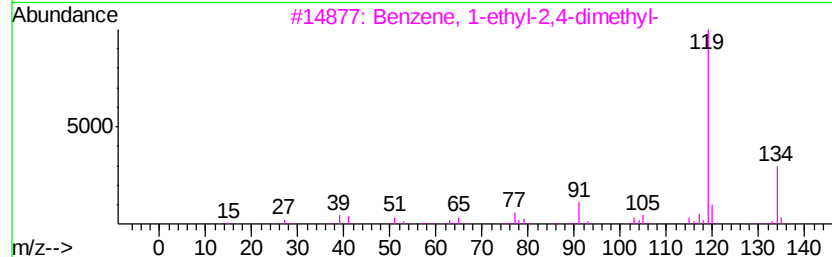
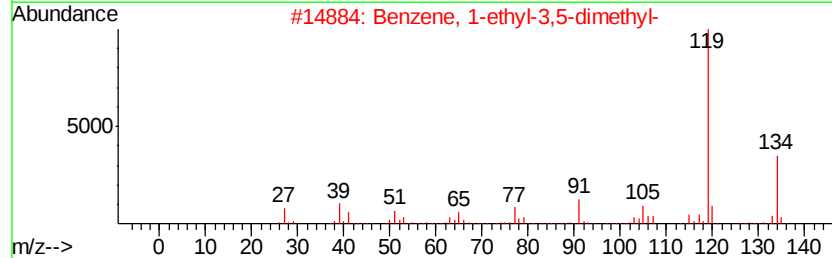
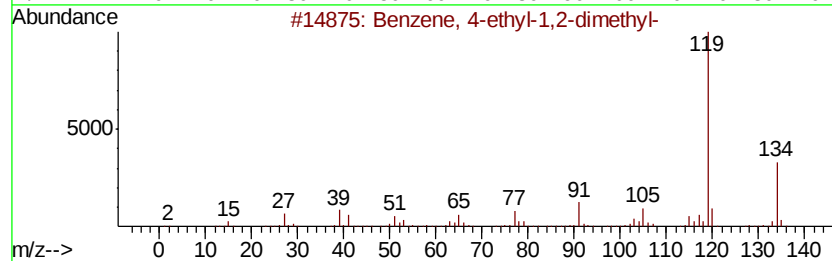
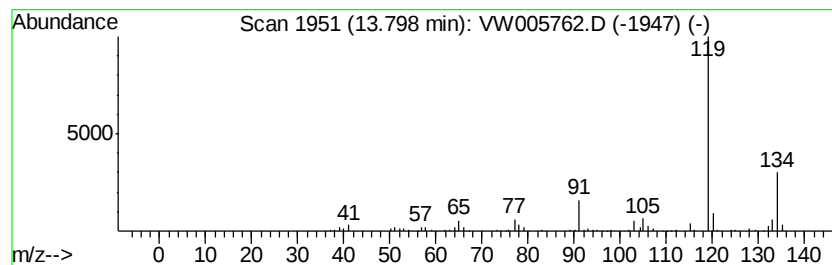
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.80 | 3.25 ug/L | 57188 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 91   |
| 2    |    | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 91   |
| 3    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 91   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 91   |
| 5    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

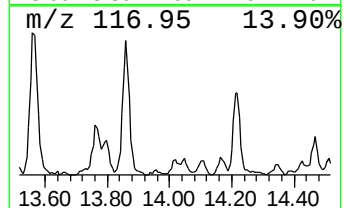
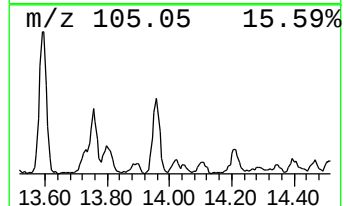
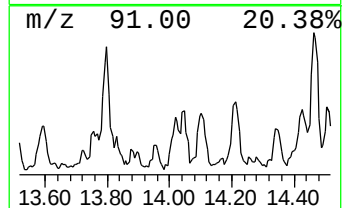
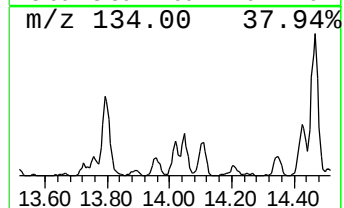
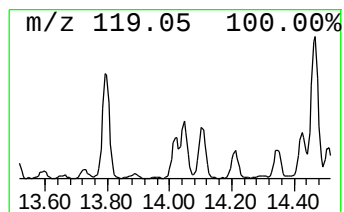
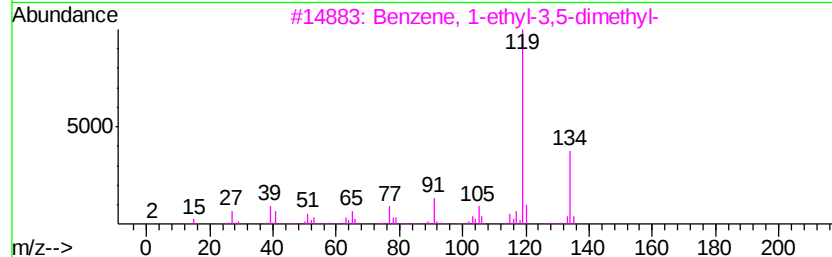
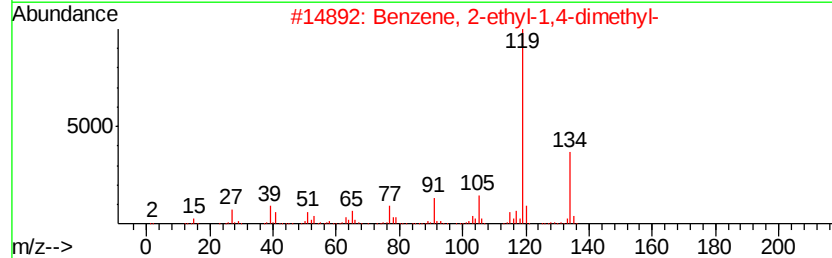
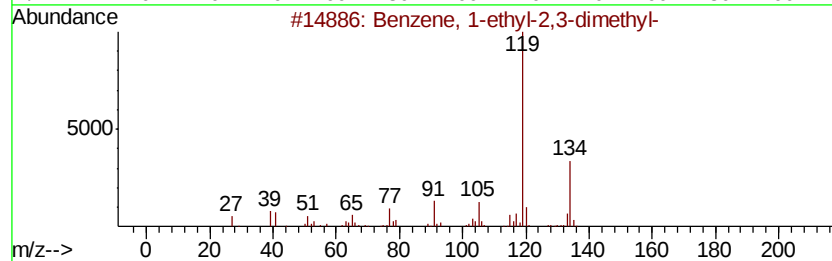
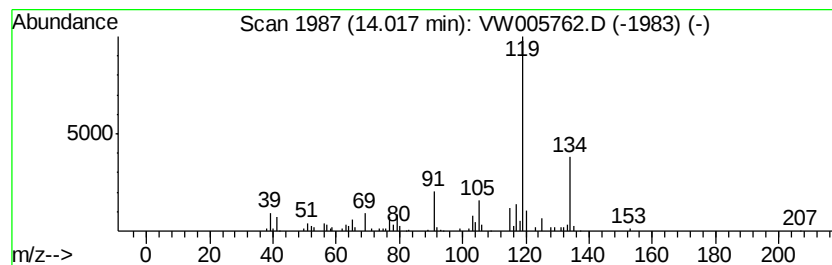
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 20

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.02 | 1.72 ug/L | 30231 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 91   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 91   |
| 3    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 90   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 90   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

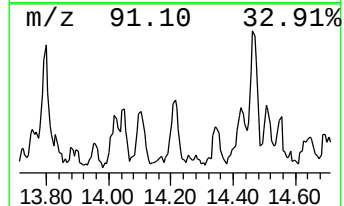
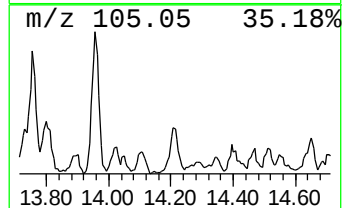
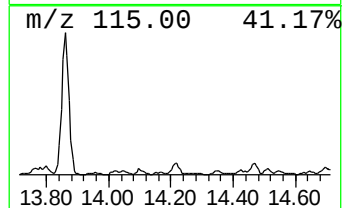
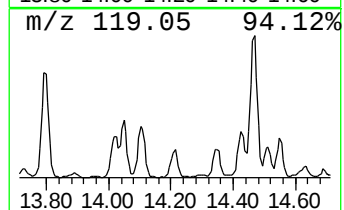
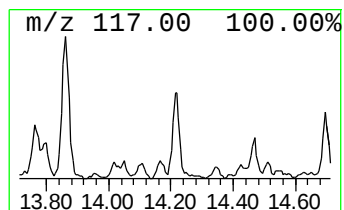
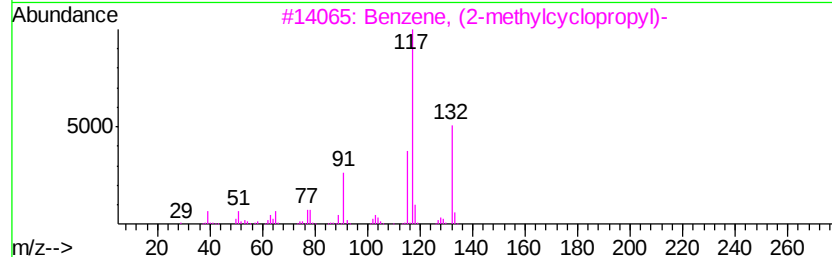
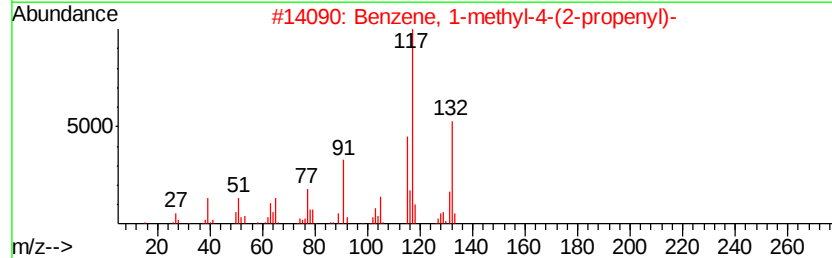
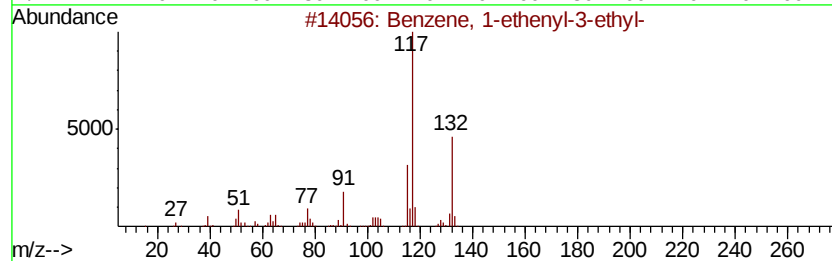
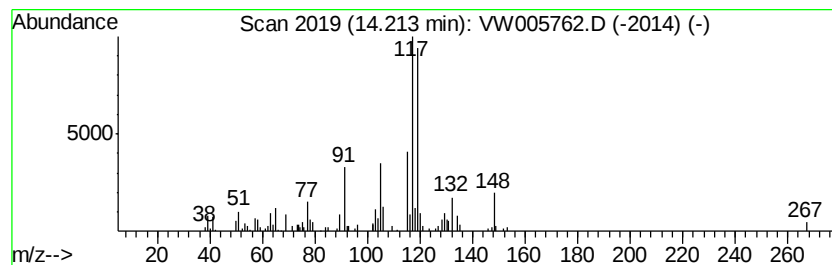
Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 13 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 12

| R.T.    | EstConc   | Area                              | Relative to ISTD       | R.T.            |
|---------|-----------|-----------------------------------|------------------------|-----------------|
| 14.21   | 2.22 ug/L | 39069                             | 1,4-Dichlorobenzene-d4 | 13.57           |
| Hit# of | 5         | Tentative ID                      | MW MolForm             | CAS# Qual       |
| 1       |           | Benzene, 1-ethenyl-3-ethyl-       | 132 C10H12             | 007525-62-4 50  |
| 2       |           | Benzene, 1-methyl-4-(2-propenyl)- | 132 C10H12             | 003333-13-9 45  |
| 3       |           | Benzene, (2-methylcyclopropyl)-   | 132 C10H12             | 1000327-39-0 43 |
| 4       |           | 3-Phenylbut-1-ene                 | 132 C10H12             | 000934-10-1 43  |
| 5       |           | 2,4-Dimethylstyrene               | 132 C10H12             | 002234-20-0 43  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

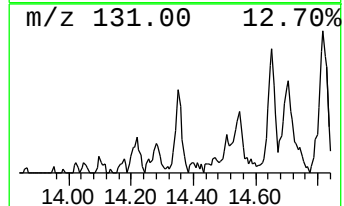
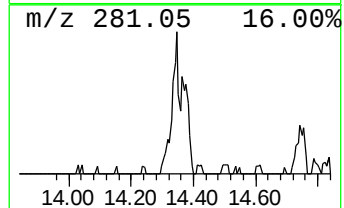
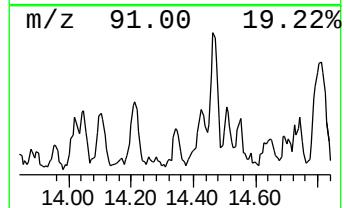
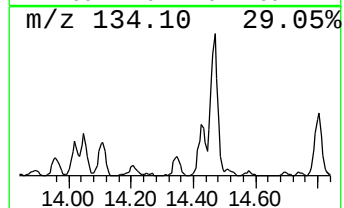
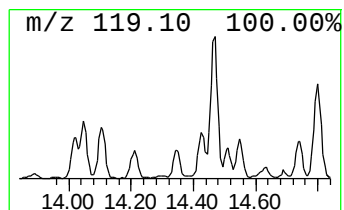
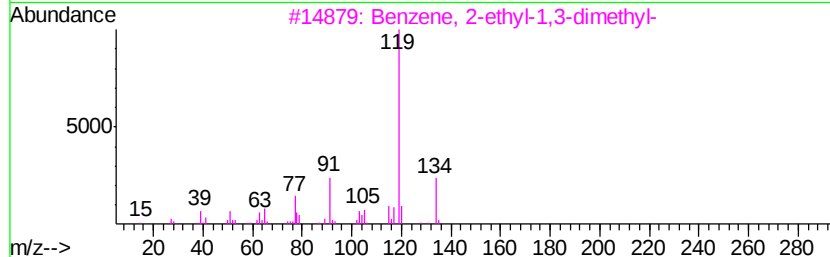
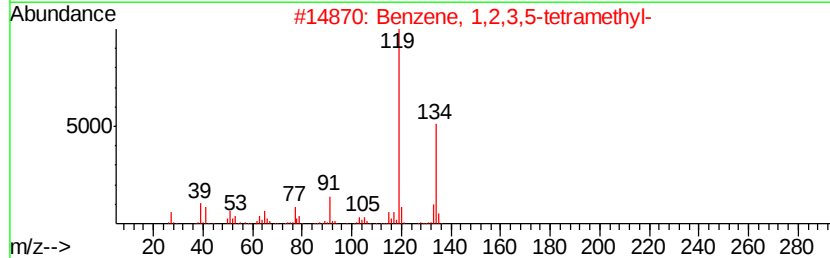
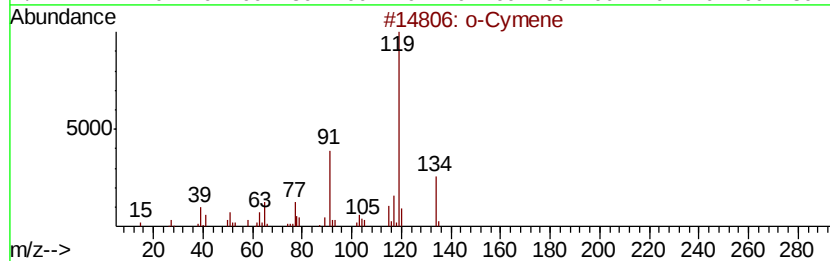
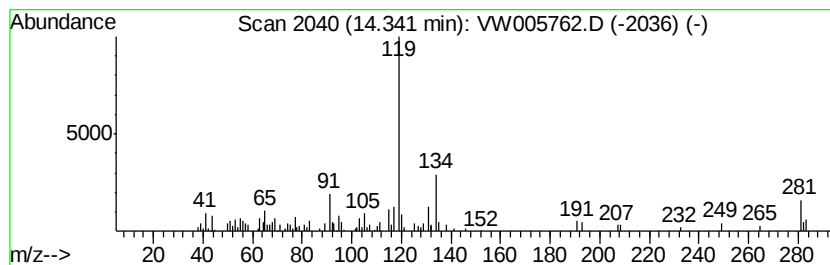
Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 14 o-Cymene Concentration Rank 21

| R.T.    | EstConc   | Area                           | Relative to ISTD       | R.T.           |
|---------|-----------|--------------------------------|------------------------|----------------|
| 14.34   | 1.70 ug/L | 29965                          | 1,4-Dichlorobenzene-d4 | 13.57          |
| Hit# of | 5         | Tentative ID                   | MW MolForm             | CAS# Qual      |
| 1       |           | o-Cymene                       | 134 C10H14             | 000527-84-4 70 |
| 2       |           | Benzene, 1,2,3,5-tetramethyl-  | 134 C10H14             | 000527-53-7 70 |
| 3       |           | Benzene, 2-ethyl-1,3-dimethyl- | 134 C10H14             | 002870-04-4 70 |
| 4       |           | Benzene, 1-ethyl-2,4-dimethyl- | 134 C10H14             | 000874-41-9 70 |
| 5       |           | Benzene, 4-ethyl-1,2-dimethyl- | 134 C10H14             | 000934-80-5 70 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

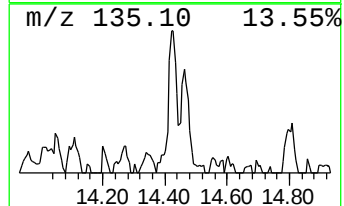
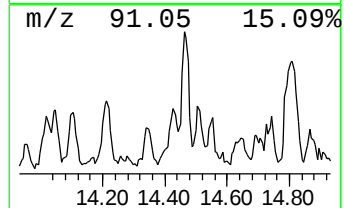
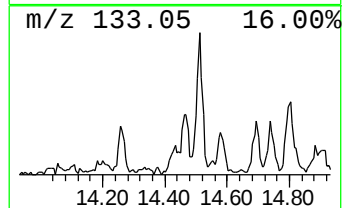
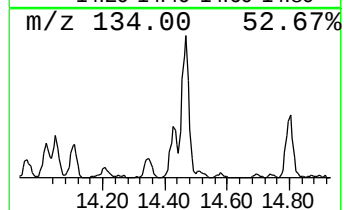
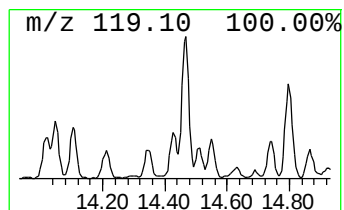
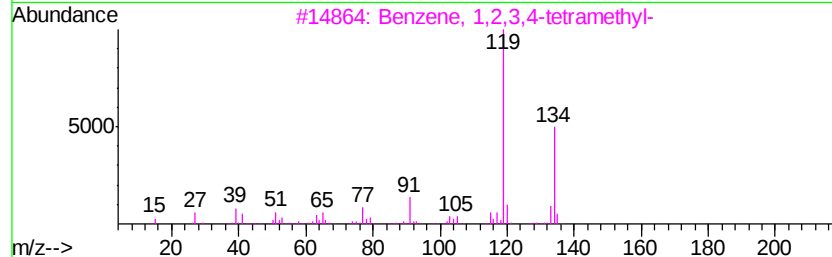
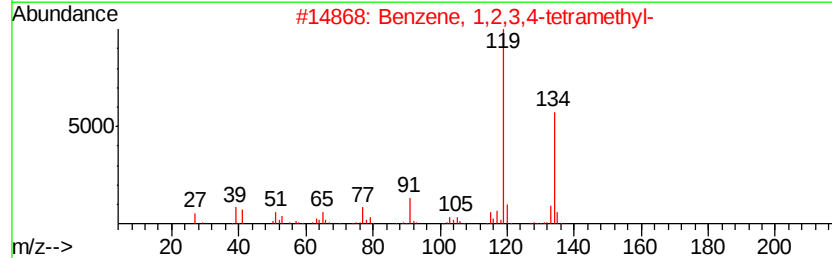
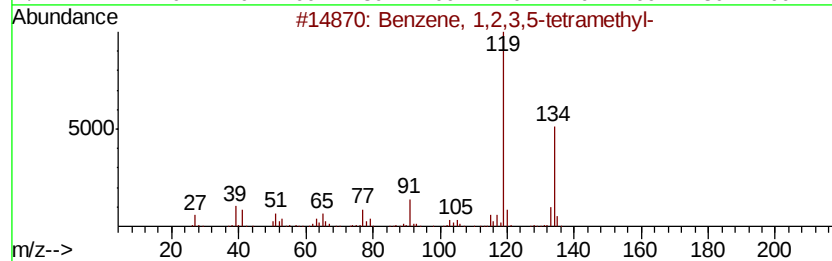
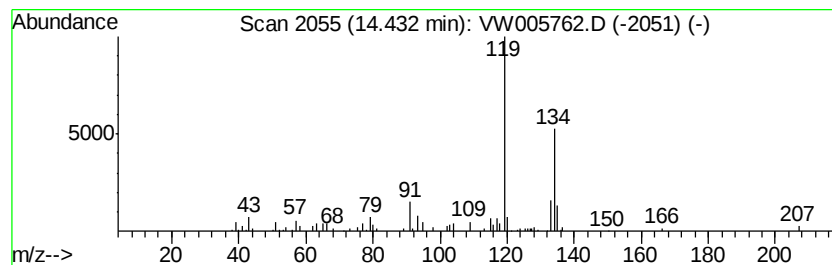
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 15

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.43 | 2.07 ug/L | 36456 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 91   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 91   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 91   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 90   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

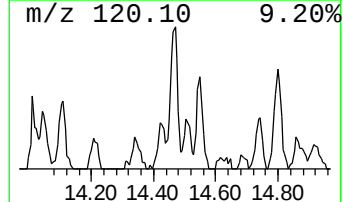
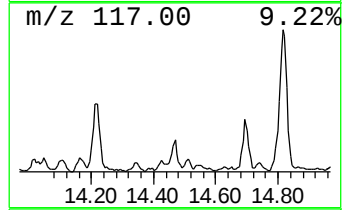
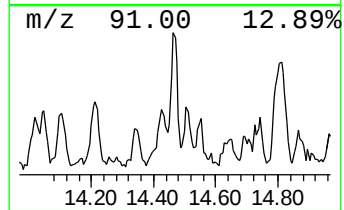
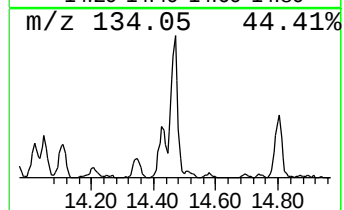
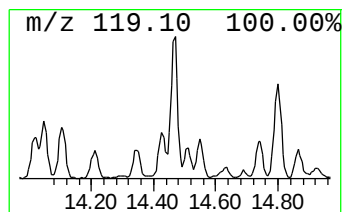
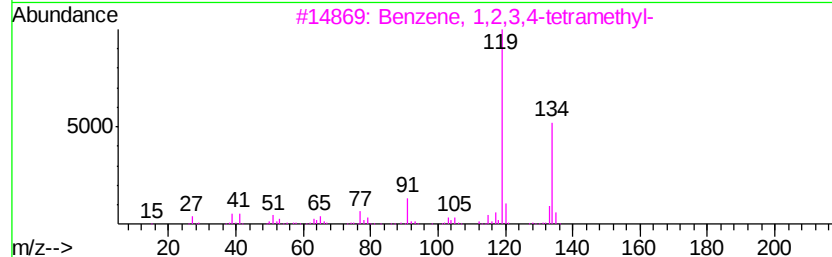
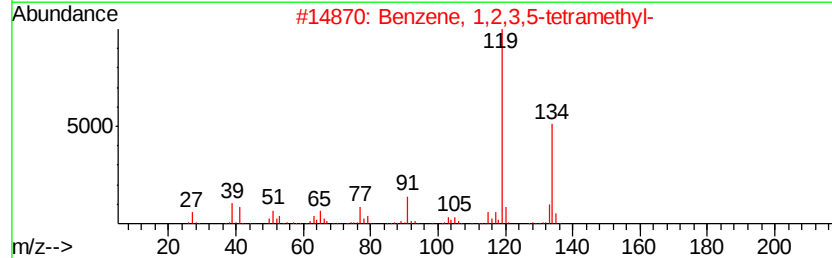
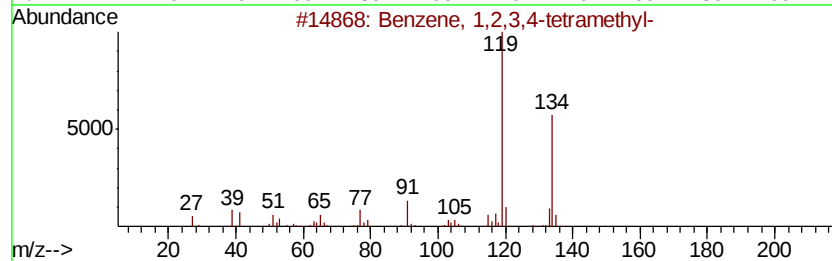
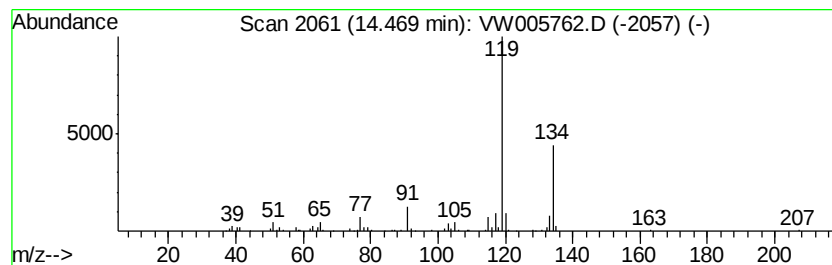
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.47 | 4.79 ug/L | 84334 | 1,4-Dichlorobenzene-d4 | 13.57 |

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

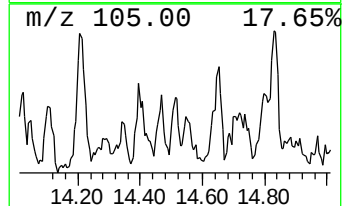
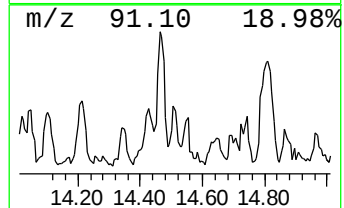
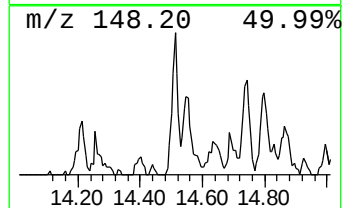
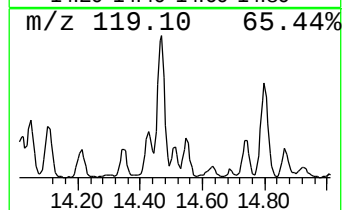
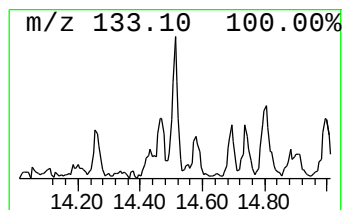
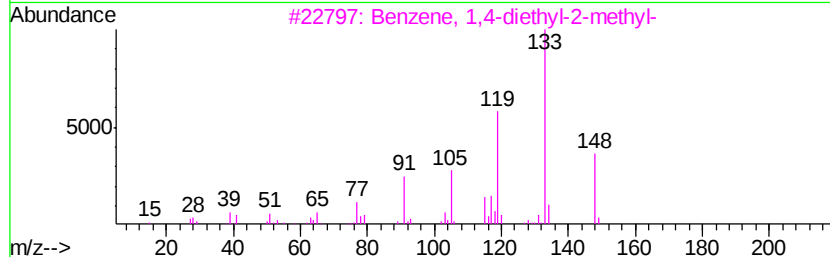
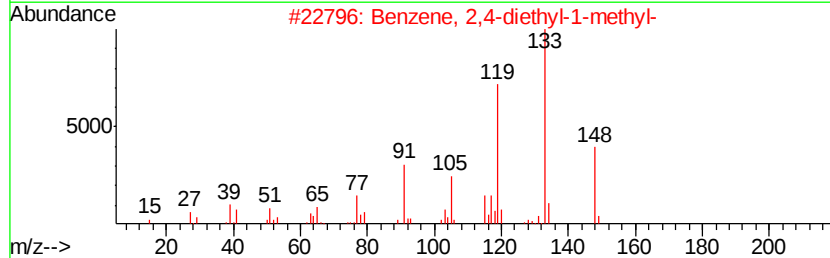
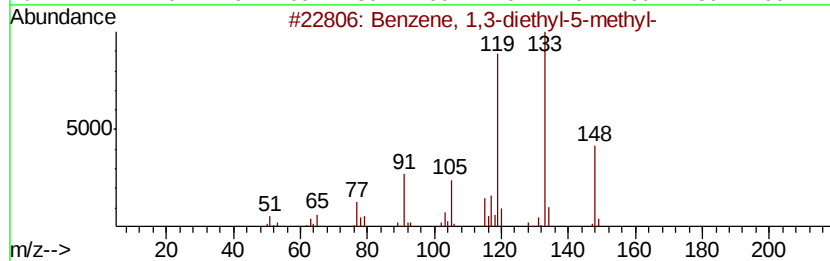
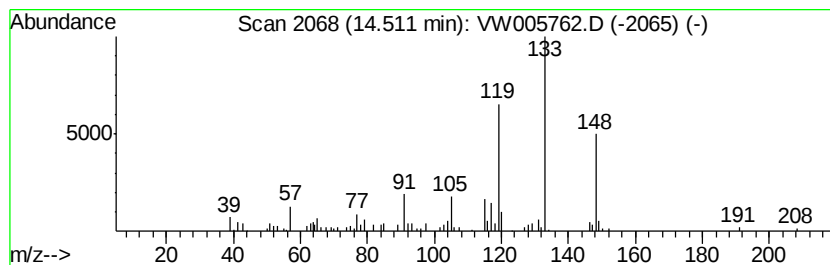
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 18

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.51 | 1.86 ug/L | 32788 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16  | 002050-24-0 | 91   |
| 2    |    | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16  | 001758-85-6 | 90   |
| 3    |    | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16  | 013632-94-5 | 87   |
| 4    |    | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16  | 002050-24-0 | 87   |
| 5    |    | Benzene, pentamethyl-          | 148 | C11H16  | 000700-12-9 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

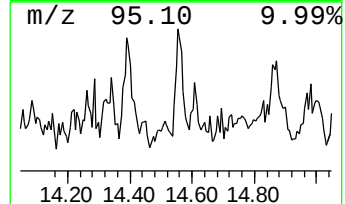
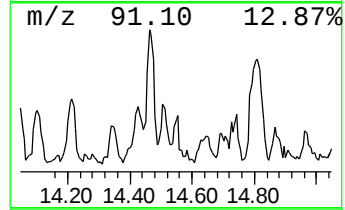
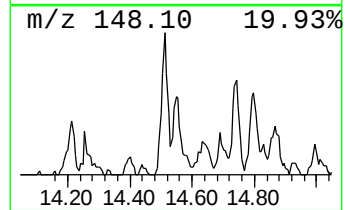
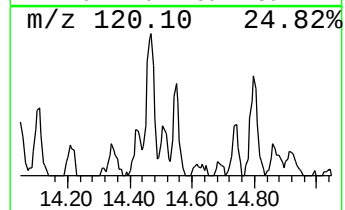
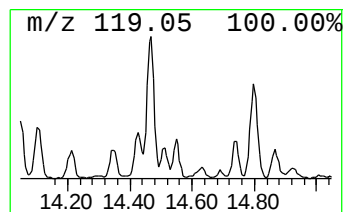
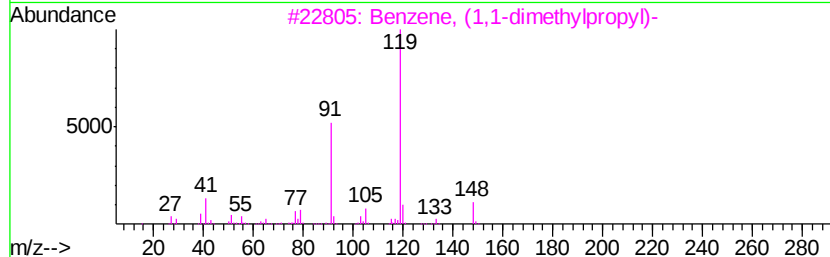
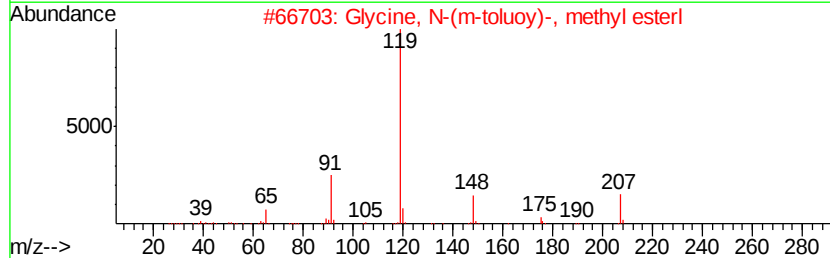
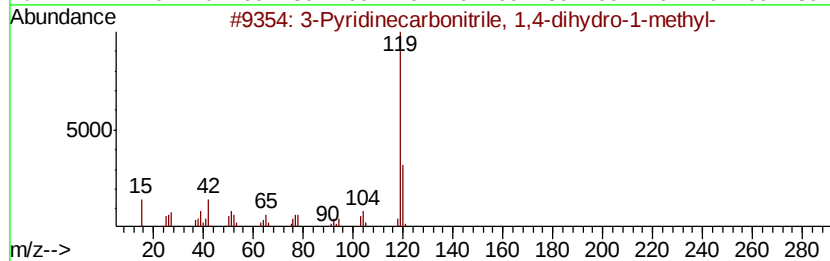
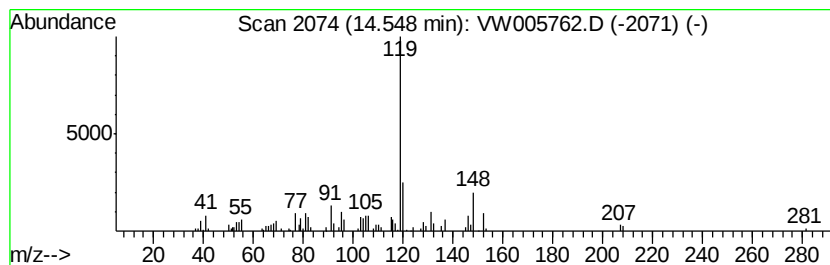
Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 18 unknown-01 Concentration Rank 16

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.            |
|---------|-----------|-------------------------------------|------------------------|-----------------|
| 14.55   | 2.05 ug/L | 36017                               | 1,4-Dichlorobenzene-d4 | 13.57           |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |           | 3-Pyridinecarbonitrile, 1,4-dihy... | 120 C7H8N2             | 019424-15-8 47  |
| 2       |           | Glycine, N-(m-toluoy)-, methyl e... | 207 C11H13NO3          | 1000299-63-8 47 |
| 3       |           | Benzene, (1,1-dimethylpropyl)-      | 148 C11H16             | 002049-95-8 47  |
| 4       |           | Benzene, (1,1-dimethylpropyl)-      | 148 C11H16             | 002049-95-8 47  |
| 5       |           | 1-Chloromethyl-3,5-dimethylbenzene  | 154 C9H11Cl            | 002745-54-2 43  |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

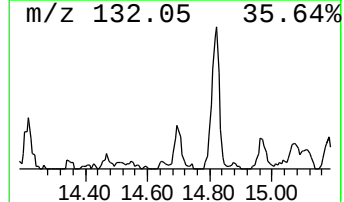
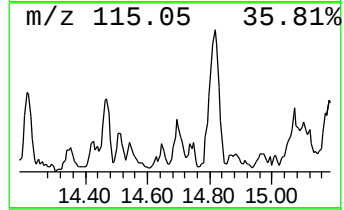
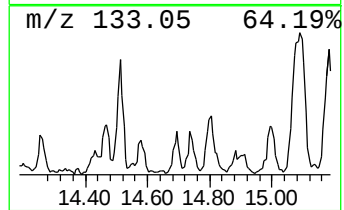
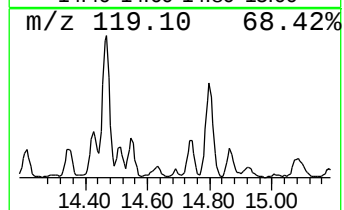
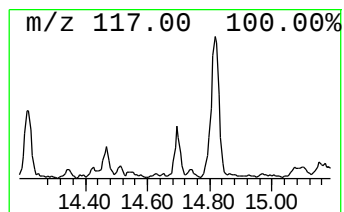
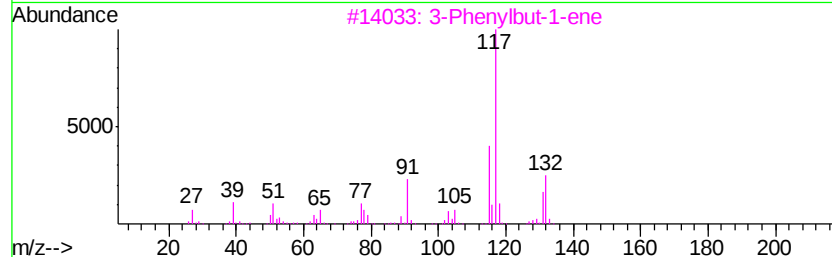
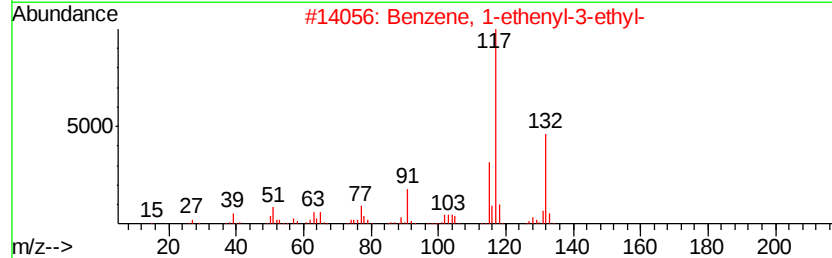
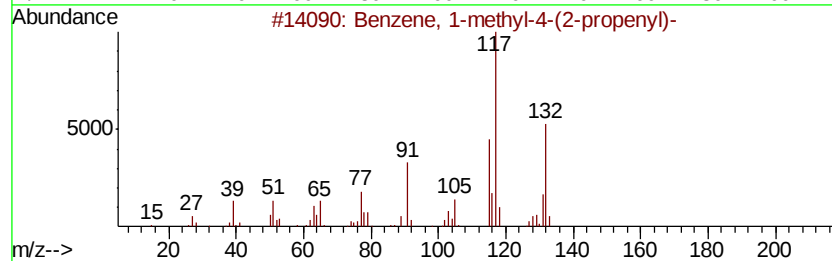
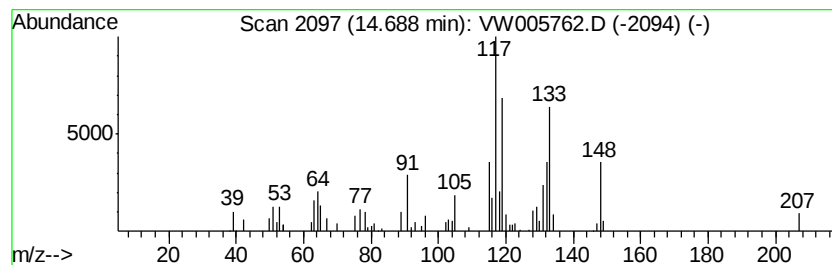
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Benzene, 1-methyl-4-(2-prop... Concentration Rank 25

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.69 | 1.27 ug/L | 22353 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 60   |
| 2    |    | Benzene, 1-ethenyl-3-ethyl-       | 132 | C10H12  | 007525-62-4 | 60   |
| 3    |    | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 58   |
| 4    |    | 1H-Indene, 2,3-dihydro-4-methyl-  | 132 | C10H12  | 000824-22-6 | 53   |
| 5    |    | (E)-1-Phenyl-1-butene             | 132 | C10H12  | 001005-64-7 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

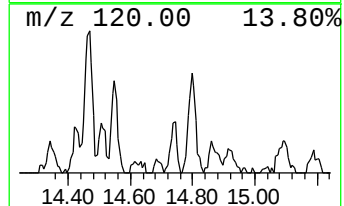
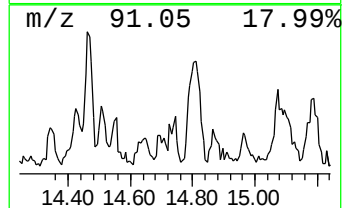
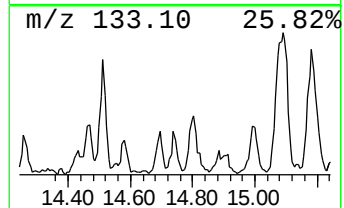
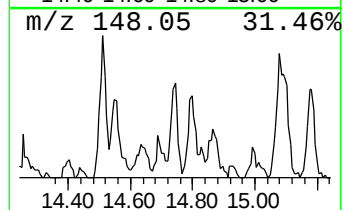
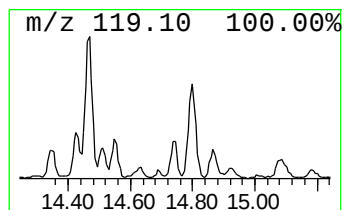
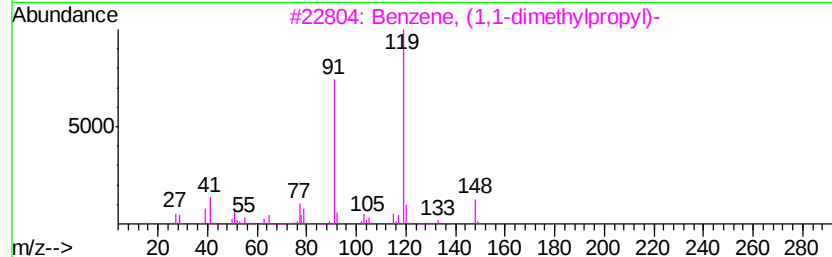
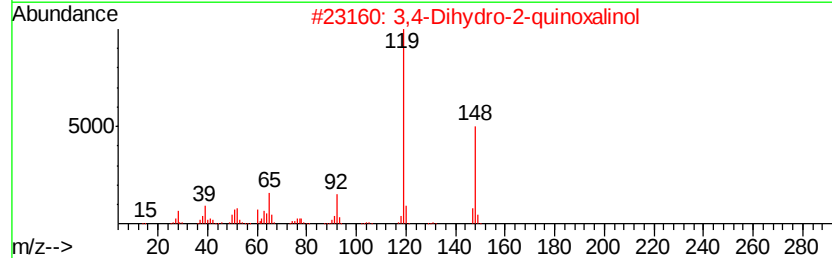
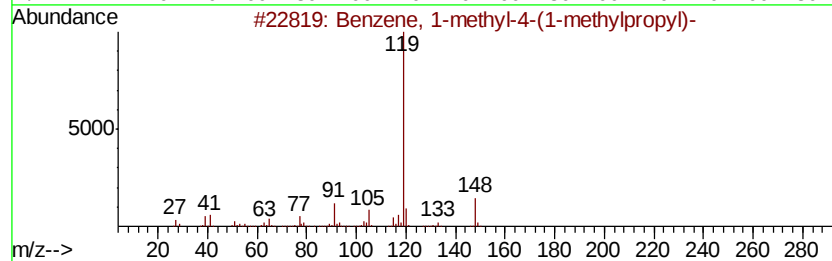
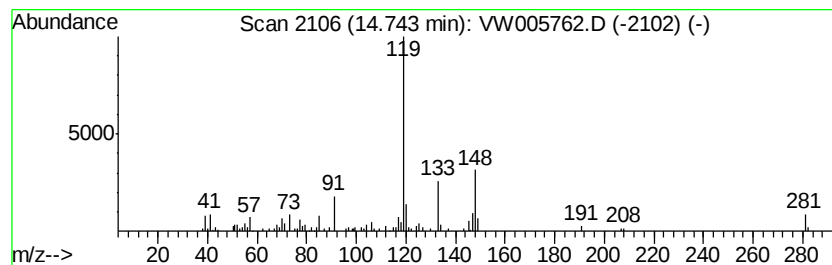
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Benzene, 1-methyl-4-(1-meth... Concentration Rank 14

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.74 | 2.11 ug/L | 37166 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16   | 001595-16-0  | 62   |
| 2    |    | 3,4-Dihydro-2-quinoxalinol          | 148 | C8H8N2O  | 1000332-36-8 | 53   |
| 3    |    | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16   | 002049-95-8  | 53   |
| 4    |    | 6-Isobutyl-4-methyl-5,6-dihydro-... | 176 | C11H16N2 | 1000185-72-5 | 53   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14   | 000488-23-3  | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

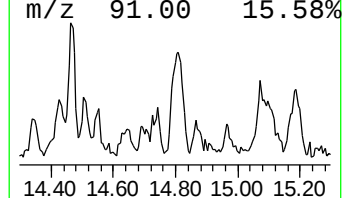
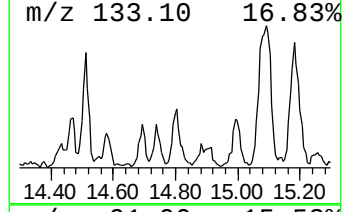
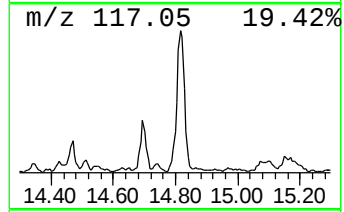
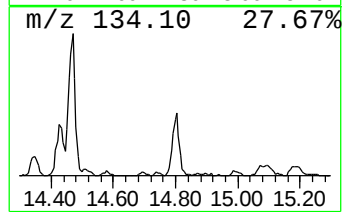
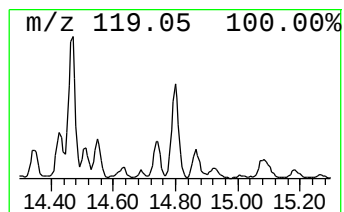
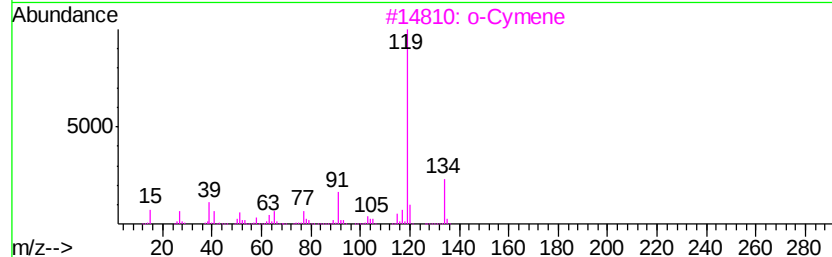
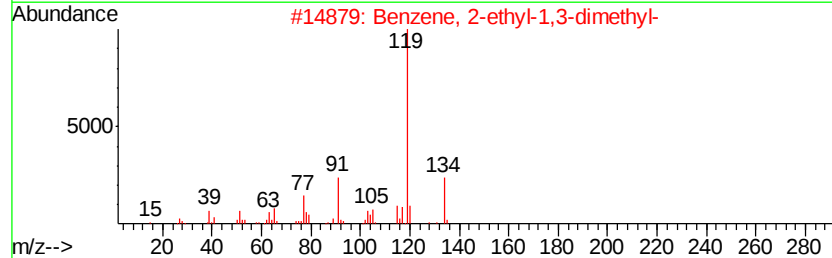
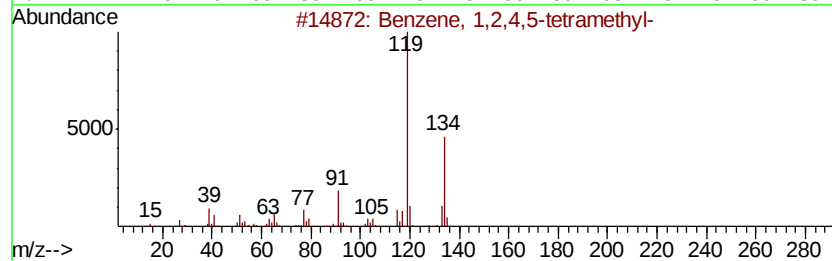
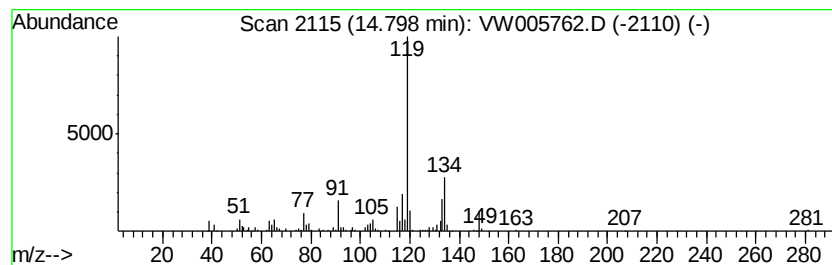
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.80 | 6.86 ug/L | 120667 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 60   |
| 2    |    |   | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 55   |
| 3    |    |   | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 55   |
| 4    |    |   | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 55   |
| 5    |    |   | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

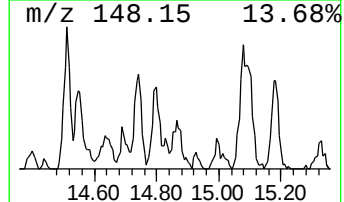
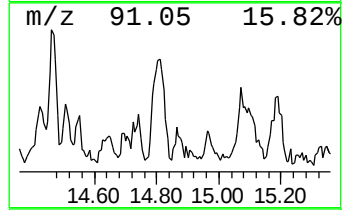
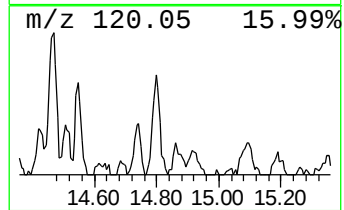
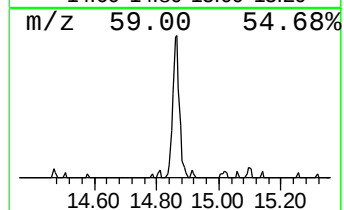
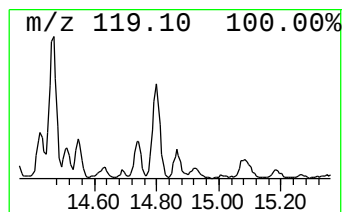
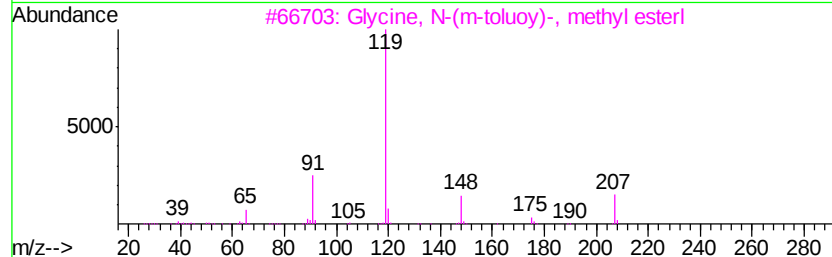
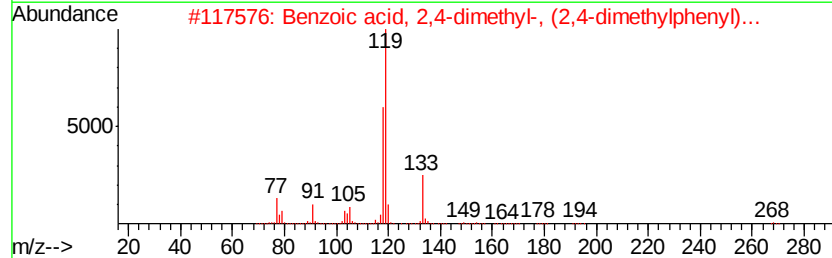
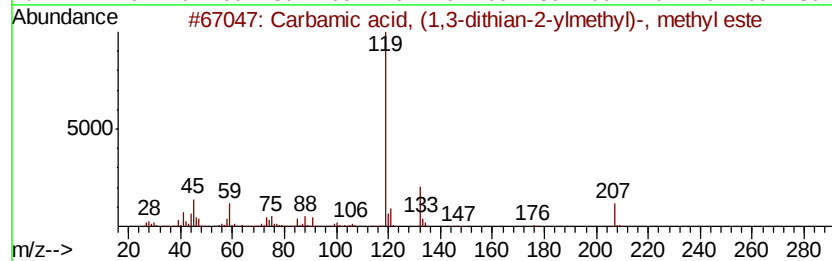
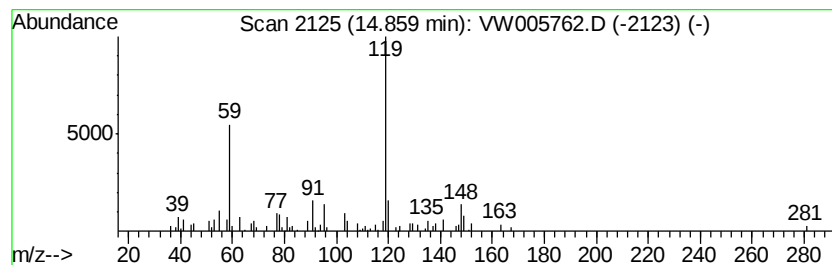
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 unknown-02 Concentration Rank 22

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.86 | 1.60 ug/L | 28123 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Carbamic acid, (1,3-dithian-2-yl... | 207 | C7H13N02S2 | 139540-22-0  | 47   |
| 2    |    | Benzoic acid, 2,4-dimethyl-, (2,... | 268 | C18H20O2   | 055000-43-6  | 47   |
| 3    |    | Glycine, N-(m-toluoy)-, methyl e... | 207 | C11H13N03  | 1000299-63-8 | 47   |
| 4    |    | Glycine, N-(4-methylbenzoyl)-, m... | 207 | C11H13N03  | 001208-23-7  | 47   |
| 5    |    | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16     | 001595-16-0  | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

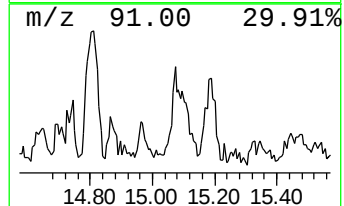
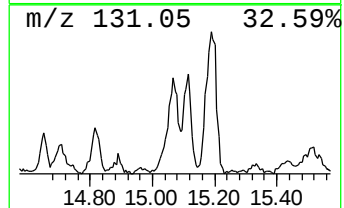
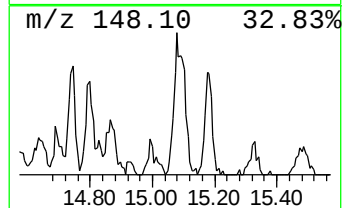
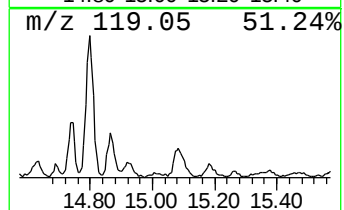
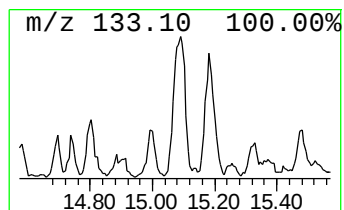
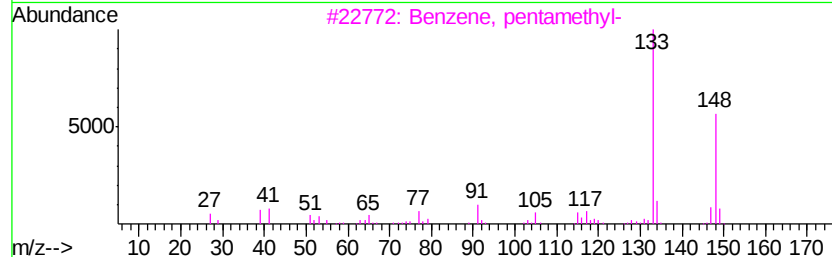
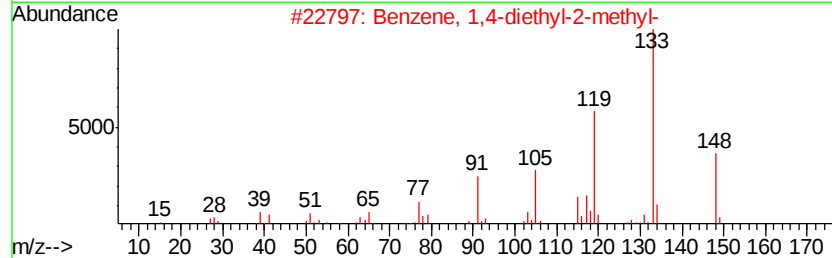
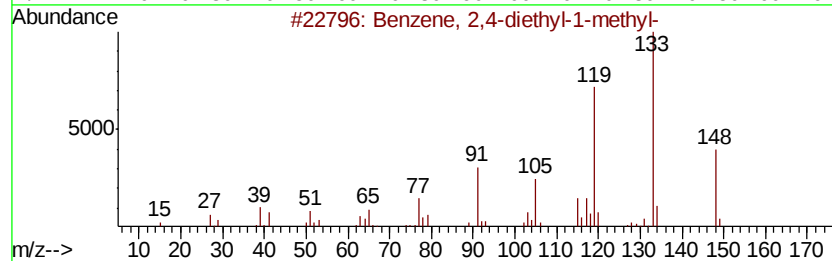
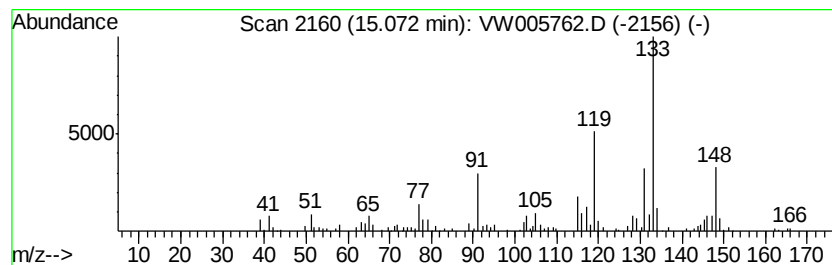
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 Benzene, 2,4-diethyl-1-methyl- Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.07 | 2.80 ug/L | 49335 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2,4-diethyl-1-methyl-      | 148 | C11H16  | 001758-85-6 | 81   |
| 2    |    | Benzene, 1,4-diethyl-2-methyl-      | 148 | C11H16  | 013632-94-5 | 74   |
| 3    |    | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 70   |
| 4    |    | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 70   |
| 5    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 62   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

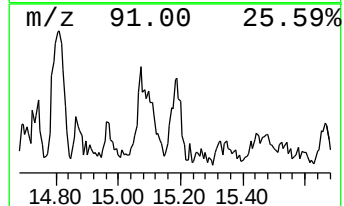
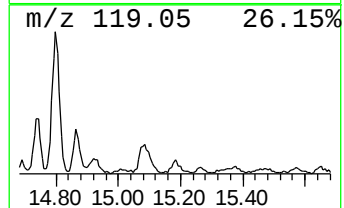
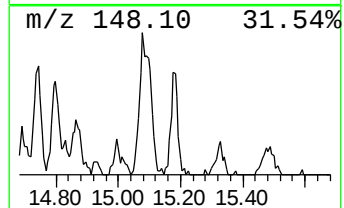
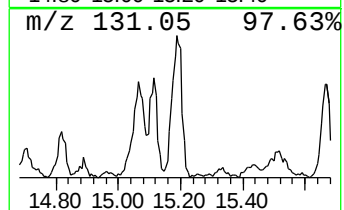
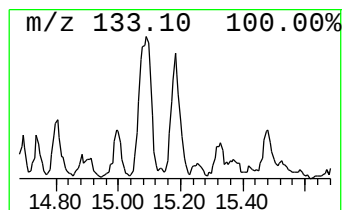
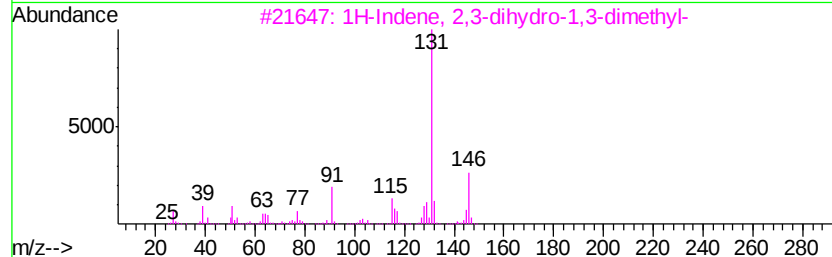
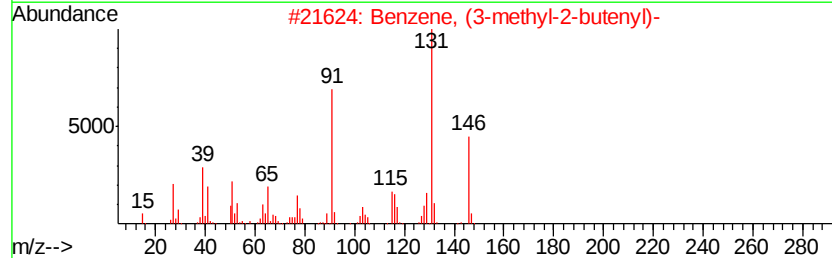
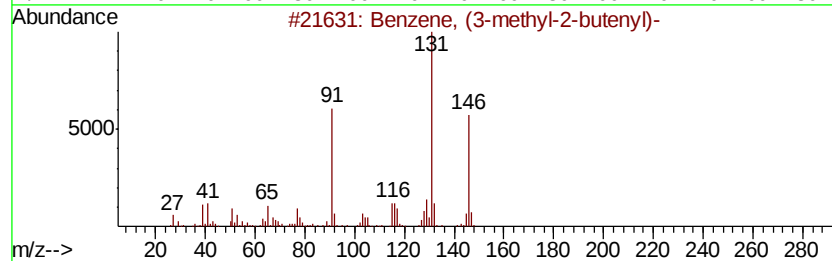
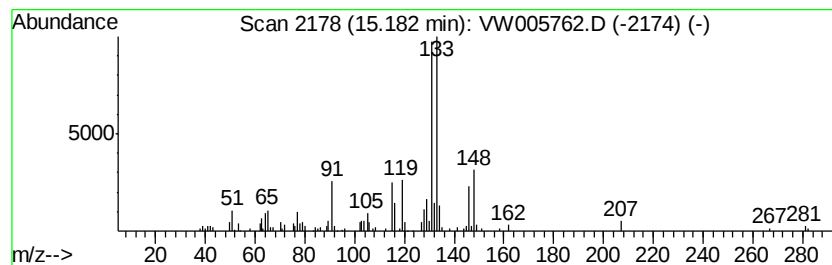
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 24 Benzene, (3-methyl-2-butenyl)- Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.18 | 3.87 ug/L | 68084 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 86   |
| 2    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 50   |
| 3    |    | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14  | 004175-53-5 | 50   |
| 4    |    | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 50   |
| 5    |    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14  | 020836-11-7 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

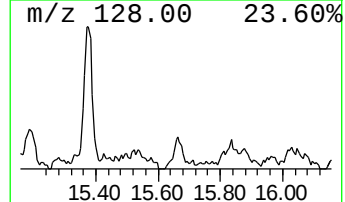
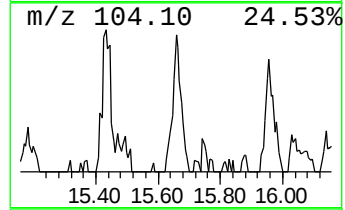
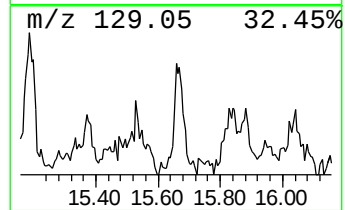
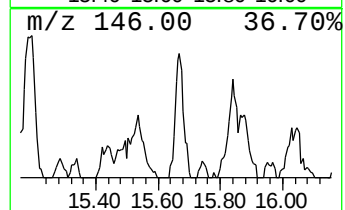
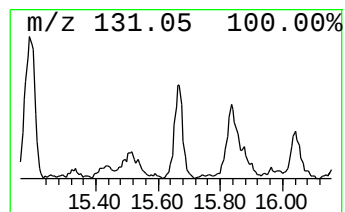
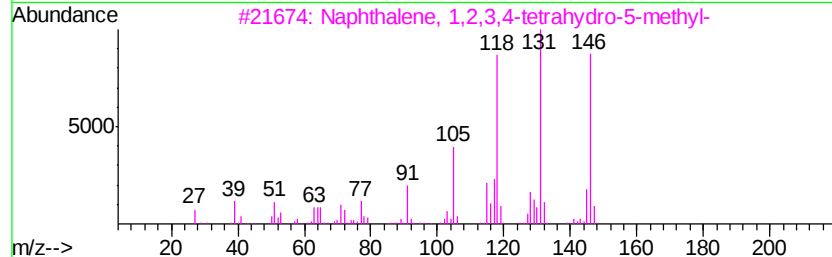
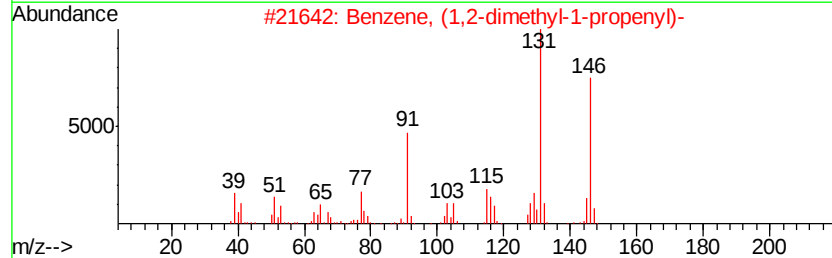
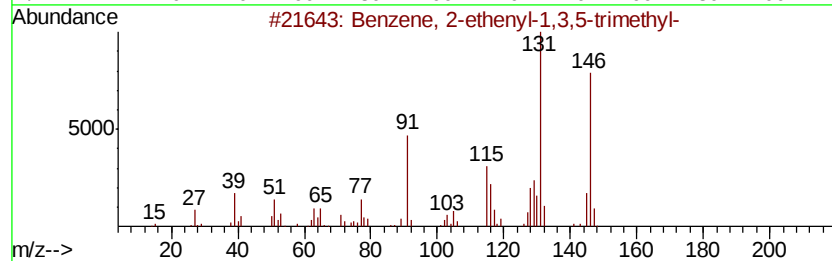
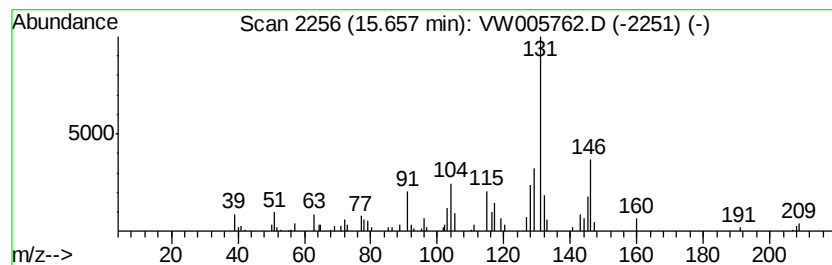
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 25 Benzene, 2-ethenyl-1,3,5-tr... Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.66 | 2.23 ug/L | 39237 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 81   |
| 2    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 70   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 59   |
| 4    |    | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 58   |
| 5    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 58   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
Data File : VW005762.D  
Acq On : 02 Oct 2018 04:06  
Operator : SY/AP  
Sample : J5181-09  
Misc : 3.98G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
JLC38

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis

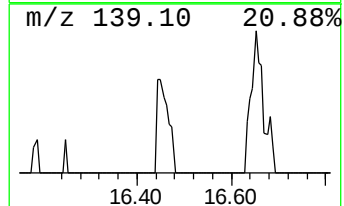
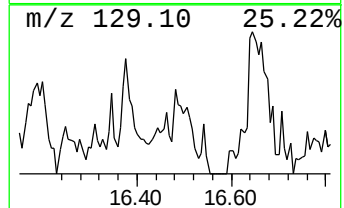
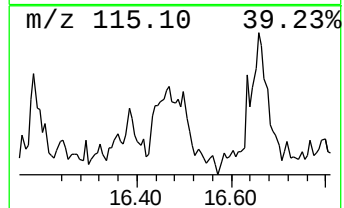
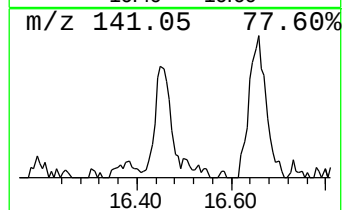
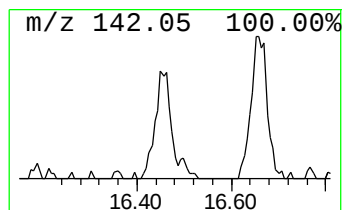
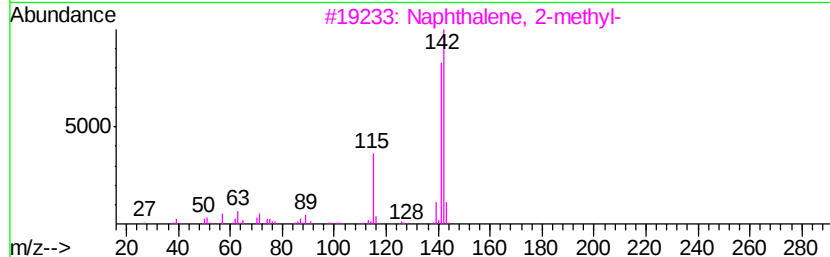
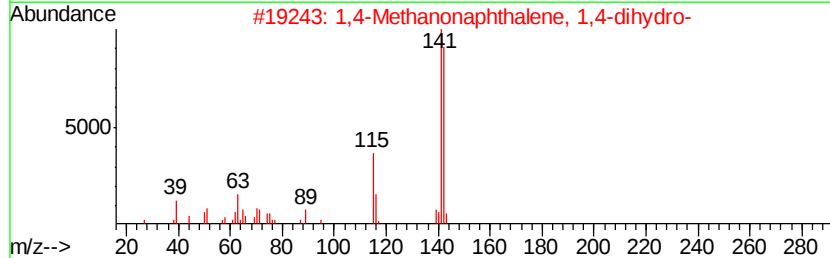
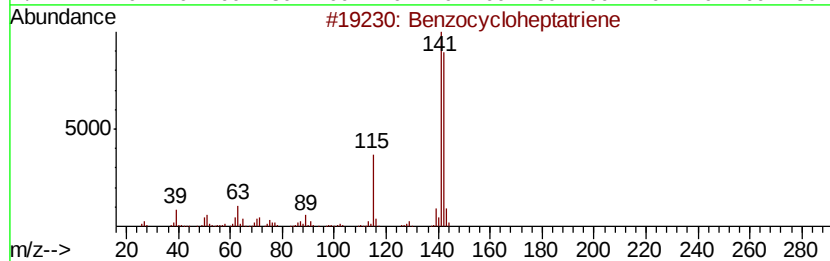
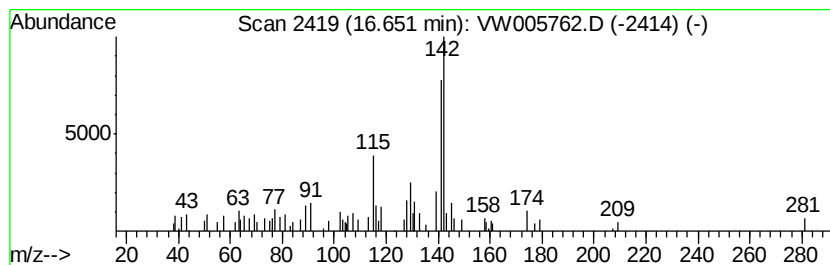
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 26 Benzocycloheptatriene Concentration Rank 26

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 16.65 | 1.26 ug/L | 22123 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 64   |
| 2    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 59   |
| 3    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 59   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 59   |
| 5    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 59   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW100118\  
 Data File : VW005762.D  
 Acq On : 02 Oct 2018 04:06  
 Operator : SY/AP  
 Sample : J5181-09  
 Misc : 3.98G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JLC38

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.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... | 5.93  | 1.8     | ug/L  | 40186    | 1                     | 8.85  | 560516 | 25.0 |
| Benzene, 1-ethyl-... | 12.87 | 2.1     | ug/L  | 37719    | 3                     | 13.57 | 439784 | 25.0 |
| (DEL) Alkane: Cyc... | 12.93 | 10.7    | ug/L  | 188422   | 3                     | 13.57 | 439784 | 25.0 |
| Bicyclo[2.2.1]hep... | 13.05 | 3.4     | ug/L  | 59623    | 3                     | 13.57 | 439784 | 25.0 |
| (DEL) Alkane: Cyc... | 13.10 | 4.8     | ug/L  | 84243    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1,2,3-tr... | 13.26 | 2.9     | ug/L  | 50193    | 3                     | 13.57 | 439784 | 25.0 |
| Cyclohexane, 1-me... | 13.45 | 1.5     | ug/L  | 25851    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 4-ethyl-... | 13.80 | 3.3     | ug/L  | 57188    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1-ethyl-... | 14.02 | 1.7     | ug/L  | 30231    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1-etheny... | 14.21 | 2.2     | ug/L  | 39069    | 3                     | 13.57 | 439784 | 25.0 |
| o-Cymene             | 14.34 | 1.7     | ug/L  | 29965    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1,2,3,5-... | 14.43 | 2.1     | ug/L  | 36456    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1,2,3,4-... | 14.47 | 4.8     | ug/L  | 84334    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1,3-diet... | 14.51 | 1.9     | ug/L  | 32788    | 3                     | 13.57 | 439784 | 25.0 |
| unknown-01           | 14.55 | 2.0     | ug/L  | 36017    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1-methyl... | 14.69 | 1.3     | ug/L  | 22353    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1-methyl... | 14.74 | 2.1     | ug/L  | 37166    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 1,2,4,5-... | 14.80 | 6.9     | ug/L  | 120667   | 3                     | 13.57 | 439784 | 25.0 |
| unknown-02           | 14.86 | 1.6     | ug/L  | 28123    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 2,4-diet... | 15.07 | 2.8     | ug/L  | 49335    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, (3-methy... | 15.18 | 3.9     | ug/L  | 68084    | 3                     | 13.57 | 439784 | 25.0 |
| Benzene, 2-etheny... | 15.66 | 2.2     | ug/L  | 39237    | 3                     | 13.57 | 439784 | 25.0 |
| Benzocycloheptatr... | 16.65 | 1.3     | ug/L  | 22123    | 3                     | 13.57 | 439784 | 25.0 |