

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
 Data File : VD066762.D  
 Acq On : 18 Sep 2020 13:23  
 Operator : VA/SY  
 Sample : L4057-01  
 Misc : 1.01G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JA-DRUM-COMP

Integration Parameters: RTEINT.P

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

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
 Title : SW846 8260

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.332       | 558           | 580         | 608          | rVB3     | 282505         | 1561592       | 2.75%           | 0.411%        |
| 2         | 5.791       | 644           | 658         | 674          | rBV4     | 182848         | 789182        | 1.39%           | 0.208%        |
| 3         | 6.297       | 731           | 744         | 758          | rBV2     | 986100         | 3195726       | 5.62%           | 0.841%        |
| 4         | 7.244       | 895           | 905         | 923          | rVB      | 2128298        | 6341739       | 11.15%          | 1.669%        |
| 5         | 8.126       | 1034          | 1055        | 1064         | rBV4     | 4362138        | 14709416      | 25.86%          | 3.871%        |
| 6         | 8.202       | 1064          | 1068        | 1078         | rVV      | 496185         | 1177461       | 2.07%           | 0.310%        |
| 7         | 8.314       | 1078          | 1087        | 1094         | rVV      | 1739554        | 4113565       | 7.23%           | 1.083%        |
| 8         | 8.373       | 1094          | 1097        | 1105         | rVV3     | 287394         | 660420        | 1.16%           | 0.174%        |
| 9         | 8.473       | 1105          | 1114        | 1123         | rVV3     | 935075         | 2324616       | 4.09%           | 0.612%        |
| 10        | 8.579       | 1123          | 1132        | 1137         | rVV2     | 1509342        | 3928222       | 6.91%           | 1.034%        |
| 11        | 8.643       | 1137          | 1143        | 1148         | rVV3     | 1376034        | 3789158       | 6.66%           | 0.997%        |
| 12        | 8.708       | 1148          | 1154        | 1164         | rVV      | 2109315        | 4809229       | 8.45%           | 1.266%        |
| 13        | 8.820       | 1164          | 1173        | 1187         | rVB      | 4121192        | 8516758       | 14.97%          | 2.242%        |
| 14        | 8.961       | 1187          | 1197        | 1211         | rBV      | 2450238        | 5043891       | 8.87%           | 1.327%        |
| 15        | 9.432       | 1260          | 1277        | 1293         | rBV      | 10504369       | 26010413      | 45.73%          | 6.846%        |
| 16        | 9.602       | 1294          | 1306        | 1313         | rVV      | 1438805        | 2970885       | 5.22%           | 0.782%        |
| 17        | 9.691       | 1313          | 1321        | 1331         | rVV      | 1089488        | 2418166       | 4.25%           | 0.636%        |
| 18        | 9.832       | 1335          | 1345        | 1355         | rVB2     | 1459284        | 2999938       | 5.27%           | 0.790%        |
| 19        | 9.973       | 1363          | 1369        | 1372         | rBV      | 587913         | 1066354       | 1.87%           | 0.281%        |
| 20        | 10.026      | 1372          | 1378        | 1391         | rVB2     | 3519188        | 8433652       | 14.83%          | 2.220%        |
| 21        | 10.161      | 1391          | 1401        | 1414         | rVB      | 2594590        | 5642591       | 9.92%           | 1.485%        |
| 22        | 10.308      | 1414          | 1426        | 1431         | rBV3     | 433200         | 1110726       | 1.95%           | 0.292%        |
| 23        | 10.385      | 1431          | 1439        | 1443         | rBV2     | 6869836        | 13775179      | 24.22%          | 3.625%        |
| 24        | 10.449      | 1443          | 1450        | 1456         | rVV      | 15204897       | 30186714      | 53.07%          | 7.945%        |
| 25        | 10.502      | 1456          | 1459        | 1462         | rVV      | 811661         | 1342862       | 2.36%           | 0.353%        |
| 26        | 10.555      | 1462          | 1468        | 1478         | rVB      | 8934227        | 16632279      | 29.24%          | 4.377%        |
| 27        | 10.673      | 1478          | 1488        | 1490         | rBV2     | 388125         | 770813        | 1.36%           | 0.203%        |
| 28        | 10.714      | 1490          | 1495        | 1504         | rVB      | 1941309        | 3718780       | 6.54%           | 0.979%        |
| 29        | 10.808      | 1504          | 1511        | 1521         | rBV      | 1489177        | 3316569       | 5.83%           | 0.873%        |
| 30        | 10.890      | 1521          | 1525        | 1532         | rVB      | 682846         | 1166043       | 2.05%           | 0.307%        |
| 31        | 10.979      | 1532          | 1540        | 1546         | rBV      | 1435435        | 2394281       | 4.21%           | 0.630%        |
| 32        | 11.079      | 1552          | 1557        | 1564         | rVV      | 702356         | 1486316       | 2.61%           | 0.391%        |
| 33        | 11.149      | 1564          | 1569        | 1572         | rVV2     | 954672         | 1572412       | 2.76%           | 0.414%        |
| 34        | 11.220      | 1572          | 1581        | 1585         | rVV      | 3017064        | 6450534       | 11.34%          | 1.698%        |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JA-DRUM-COMP

## Integration Parameters: RTEINT.P

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

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 35 | 11.273 | 1585 | 1590 | 1595 | rVV  | 2067978  | 3986085  | 7.01%   | 1.049%  |
| 36 | 11.373 | 1602 | 1607 | 1612 | rVV2 | 1356996  | 2331715  | 4.10%   | 0.614%  |
| 37 | 11.443 | 1612 | 1619 | 1631 | rVB3 | 2892491  | 7922031  | 13.93%  | 2.085%  |
| 38 | 11.549 | 1631 | 1637 | 1642 | rBV  | 2292421  | 3725910  | 6.55%   | 0.981%  |
| 39 | 11.667 | 1651 | 1657 | 1667 | rBV  | 2624221  | 4661948  | 8.20%   | 1.227%  |
| 40 | 11.761 | 1667 | 1673 | 1682 | rBV  | 8673413  | 15593985 | 27.41%  | 4.104%  |
| 41 | 11.867 | 1682 | 1691 | 1701 | rVV2 | 29858193 | 56884313 | 100.00% | 14.971% |
| 42 | 11.943 | 1701 | 1704 | 1710 | rVB2 | 1145333  | 2054452  | 3.61%   | 0.541%  |
| 43 | 12.084 | 1721 | 1728 | 1734 | rVB4 | 285077   | 639772   | 1.12%   | 0.168%  |
| 44 | 12.196 | 1734 | 1747 | 1754 | rBV  | 13663652 | 26193583 | 46.05%  | 6.894%  |
| 45 | 12.279 | 1757 | 1761 | 1765 | rVB  | 766737   | 1192040  | 2.10%   | 0.314%  |
| 46 | 12.367 | 1771 | 1776 | 1779 | rBV  | 936859   | 1656733  | 2.91%   | 0.436%  |
| 47 | 12.490 | 1792 | 1797 | 1802 | rBV  | 1447104  | 2372788  | 4.17%   | 0.624%  |
| 48 | 12.590 | 1812 | 1814 | 1818 | rVB  | 527926   | 638884   | 1.12%   | 0.168%  |
| 49 | 12.643 | 1818 | 1823 | 1828 | rBV  | 1624269  | 2796543  | 4.92%   | 0.736%  |
| 50 | 12.826 | 1846 | 1854 | 1859 | rVV  | 2452837  | 4626745  | 8.13%   | 1.218%  |
| 51 | 12.890 | 1859 | 1865 | 1869 | rVV  | 5947102  | 10142477 | 17.83%  | 2.669%  |
| 52 | 12.926 | 1869 | 1871 | 1874 | rVV  | 2495328  | 3658692  | 6.43%   | 0.963%  |
| 53 | 12.961 | 1874 | 1877 | 1884 | rVV2 | 3450929  | 6390133  | 11.23%  | 1.682%  |
| 54 | 13.131 | 1897 | 1906 | 1912 | rBV  | 2437369  | 4283438  | 7.53%   | 1.127%  |
| 55 | 13.196 | 1912 | 1917 | 1924 | rVB5 | 306664   | 594989   | 1.05%   | 0.157%  |
| 56 | 13.279 | 1924 | 1931 | 1942 | rBV  | 6126748  | 9898257  | 17.40%  | 2.605%  |
| 57 | 13.408 | 1947 | 1953 | 1957 | rVV2 | 434661   | 730323   | 1.28%   | 0.192%  |
| 58 | 13.467 | 1957 | 1963 | 1968 | rVV2 | 592086   | 1095835  | 1.93%   | 0.288%  |
| 59 | 13.584 | 1977 | 1983 | 1985 | rVV  | 1204794  | 2070012  | 3.64%   | 0.545%  |
| 60 | 13.614 | 1985 | 1988 | 1997 | rVB  | 1738315  | 2606416  | 4.58%   | 0.686%  |
| 61 | 13.779 | 2011 | 2016 | 2021 | rBV2 | 1116151  | 1867259  | 3.28%   | 0.491%  |
| 62 | 13.902 | 2032 | 2037 | 2044 | rVB3 | 632538   | 972308   | 1.71%   | 0.256%  |
| 63 | 14.126 | 2070 | 2075 | 2080 | rVB  | 383863   | 572810   | 1.01%   | 0.151%  |
| 64 | 14.231 | 2088 | 2093 | 2099 | rVB2 | 515234   | 875783   | 1.54%   | 0.230%  |
| 65 | 14.831 | 2188 | 2195 | 2202 | rBV4 | 498135   | 1246856  | 2.19%   | 0.328%  |
| 66 | 14.990 | 2216 | 2222 | 2229 | rVB  | 409775   | 673380   | 1.18%   | 0.177%  |
| 67 | 15.255 | 2262 | 2267 | 2274 | rVB2 | 324193   | 571406   | 1.00%   | 0.150%  |

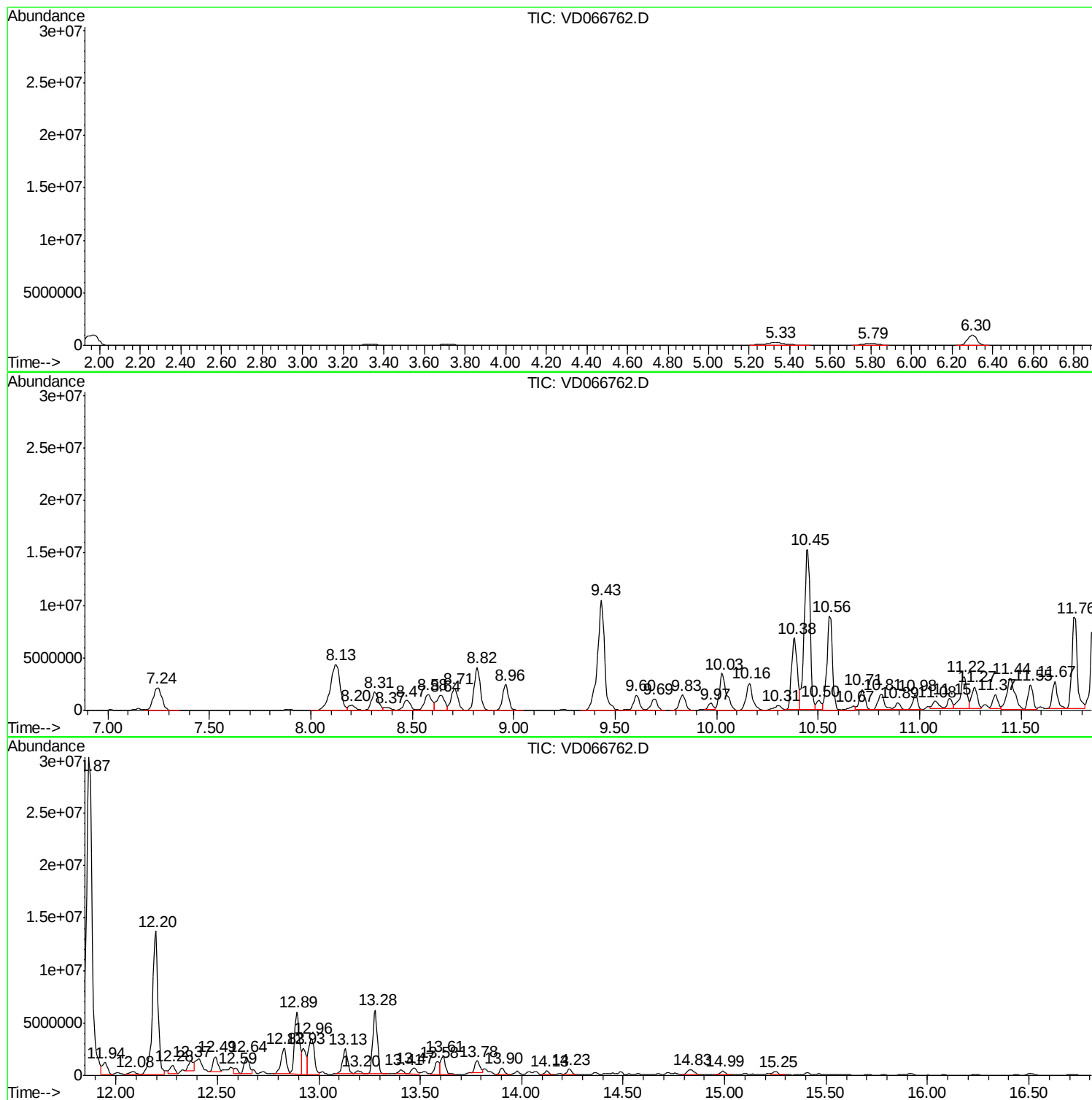
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
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Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

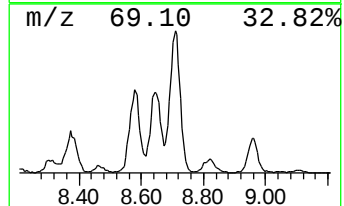
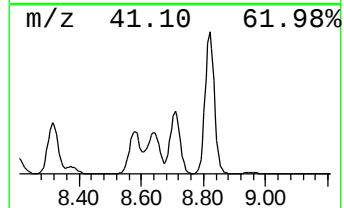
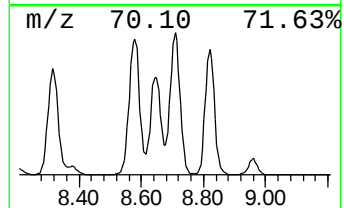
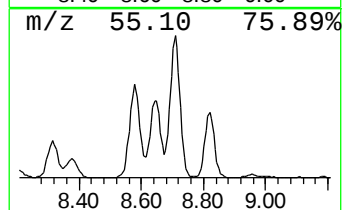
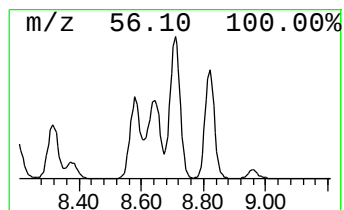
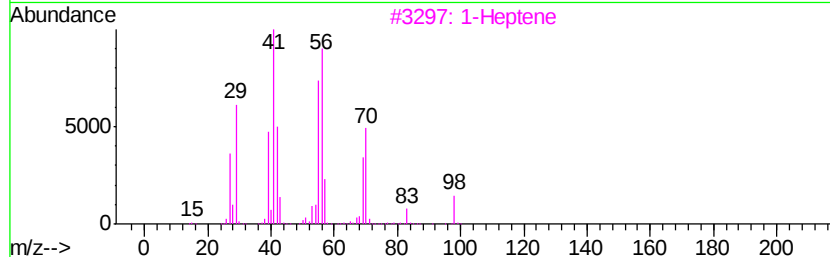
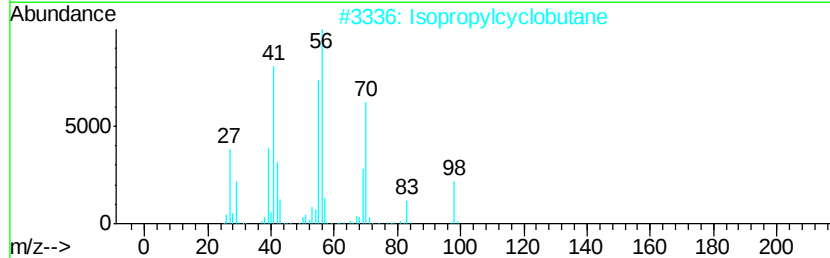
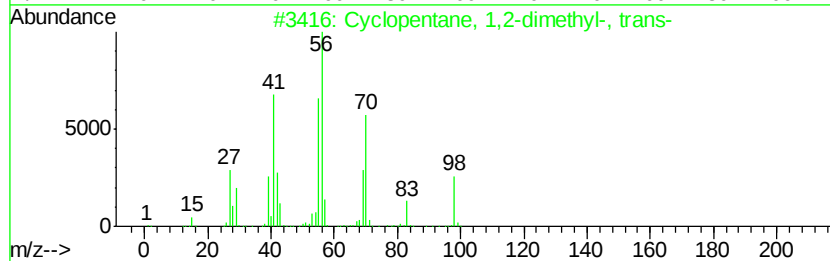
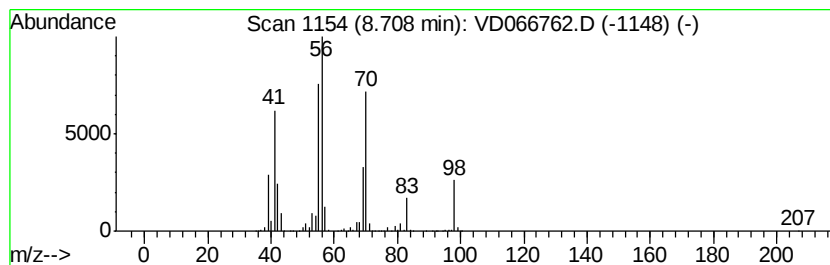
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Cyclopentane, 1,2-dimethyl-... Concentration Rank 9

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 8.71 | 47.67 ug/l | 4809230 | 1,4-Difluorobenzene | 8.96 |

| Hit# | of | Tentative ID                        | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|----|---------|-------------|------|
| 1    | 5  | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14   | 000822-50-4 | 94   |
| 2    |    | Isopropylcyclobutane                | 98 | C7H14   | 000872-56-0 | 93   |
| 3    |    | 1-Heptene                           | 98 | C7H14   | 000592-76-7 | 90   |
| 4    |    | Cyclopentane, 1,2-dimethyl-, cis-   | 98 | C7H14   | 001192-18-3 | 86   |
| 5    |    | 3-Heptene, (E)-                     | 98 | C7H14   | 014686-14-7 | 72   |



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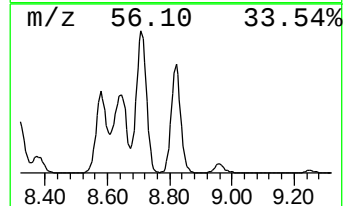
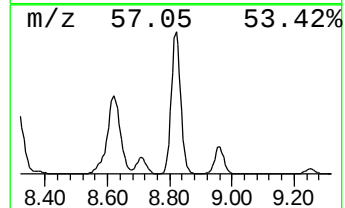
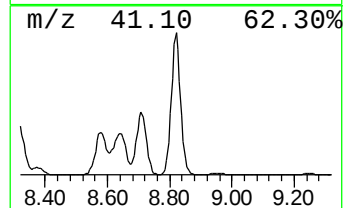
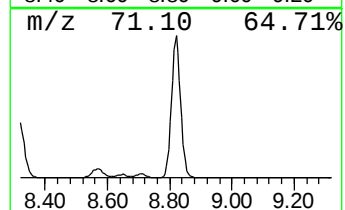
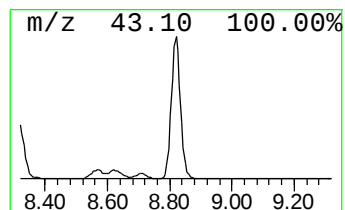
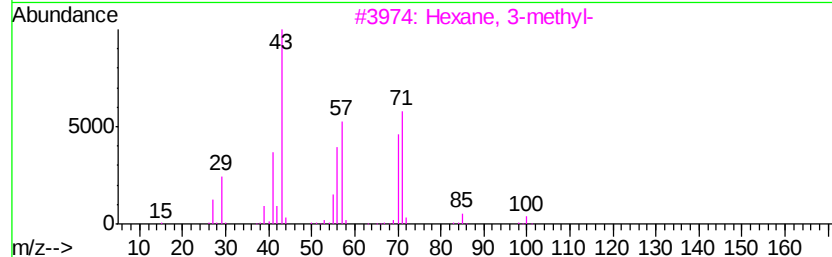
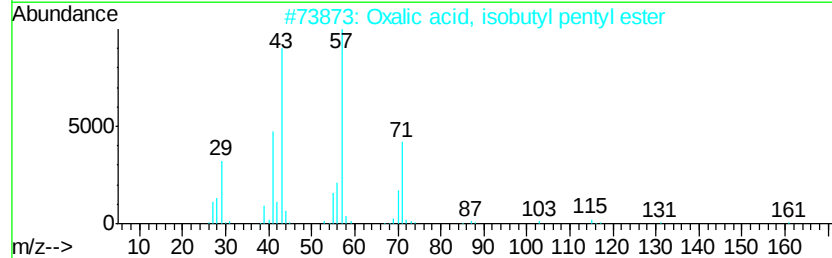
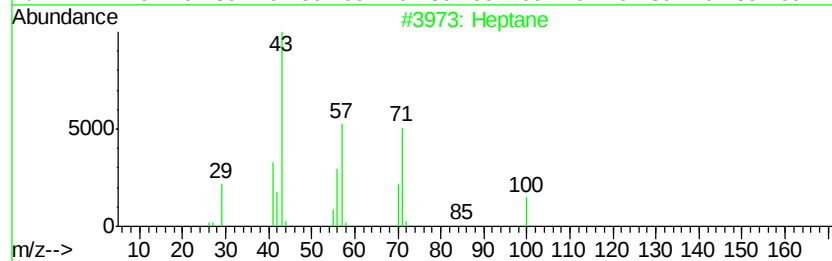
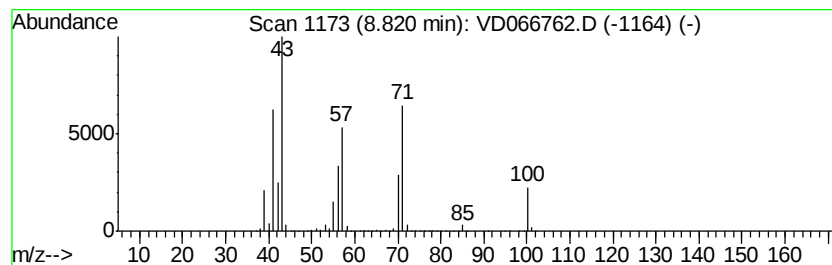
Instrument :  
MSVOA\_D  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Heptane Concentration Rank 5

| R.T.      | EstConc                            | Area    | Relative to ISTD    | R.T.         |      |
|-----------|------------------------------------|---------|---------------------|--------------|------|
| 8.82      | 84.43 ug/l                         | 8516760 | 1,4-Difluorobenzene | 8.96         |      |
| Hit# of 5 | Tentative ID                       | MW      | MolForm             | CAS#         | Qual |
| 1         | Heptane                            | 100     | C7H16               | 000142-82-5  | 91   |
| 2         | Oxalic acid, isobutyl pentyl ester | 216     | C11H20O4            | 1000309-37-0 | 40   |
| 3         | Hexane, 3-methyl-                  | 100     | C7H16               | 000589-34-4  | 40   |
| 4         | Pentane, 2,3,4-trimethyl-          | 114     | C8H18               | 000565-75-3  | 40   |
| 5         | Butane, 2,2-dimethyl-              | 86      | C6H14               | 000075-83-2  | 37   |



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Quant Title : SW846 8260

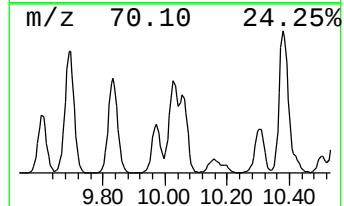
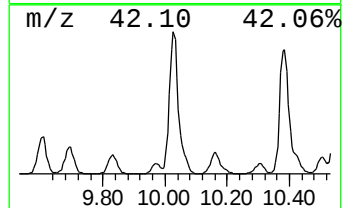
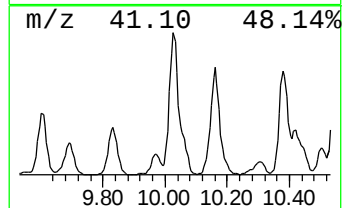
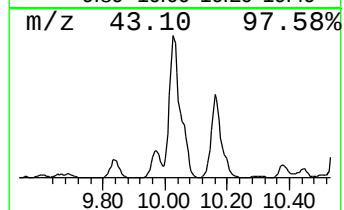
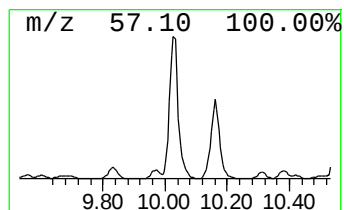
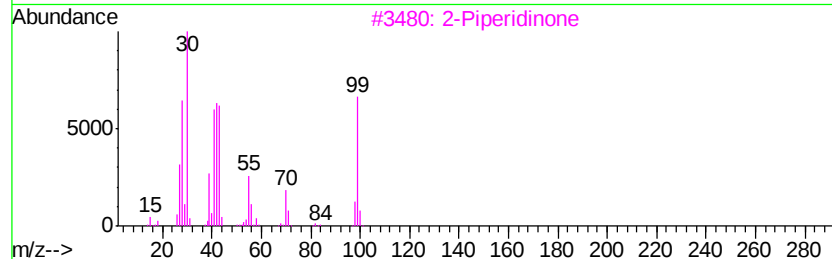
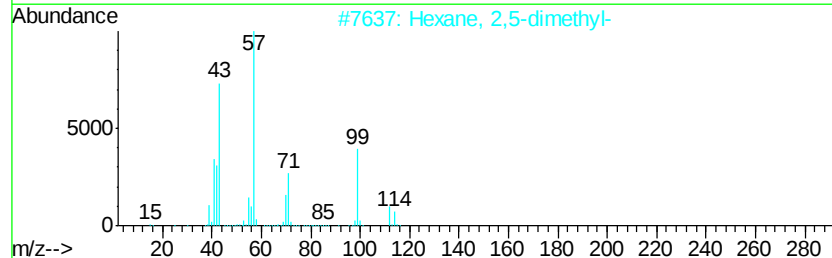
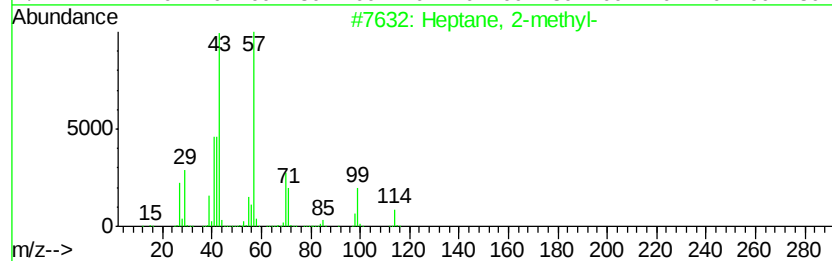
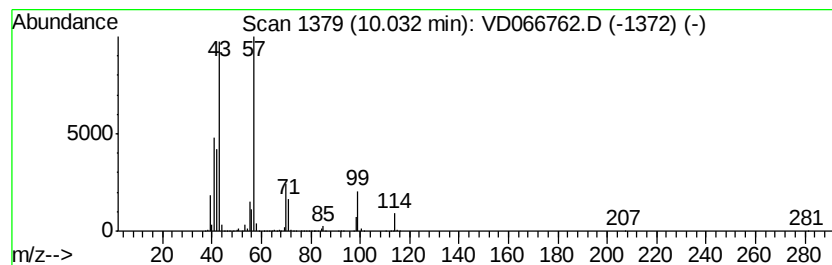
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Heptane, 2-methyl- Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD    | R.T. |
|-------|------------|---------|---------------------|------|
| 10.03 | 83.60 ug/l | 8433650 | 1,4-Difluorobenzene | 8.96 |

| Hit# of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------------|-----|---------|-------------|------|
| 1       |   | Heptane, 2-methyl-               | 114 | C8H18   | 000592-27-8 | 97   |
| 2       |   | Hexane, 2,5-dimethyl-            | 114 | C8H18   | 000592-13-2 | 80   |
| 3       |   | 2-Piperidinone                   | 99  | C5H9NO  | 000675-20-7 | 40   |
| 4       |   | Hexane, 2,4,4-trimethyl-         | 128 | C9H20   | 016747-30-1 | 38   |
| 5       |   | Butane, 1-(ethenyloxy)-3-methyl- | 114 | C7H14O  | 039782-38-2 | 35   |



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Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

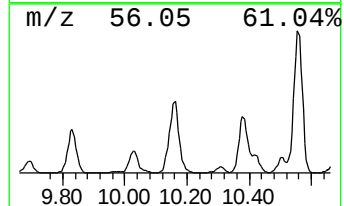
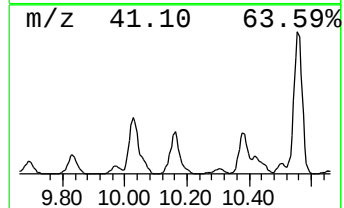
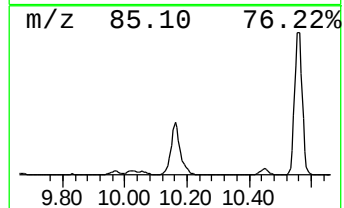
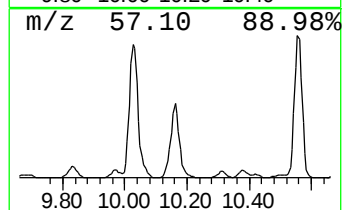
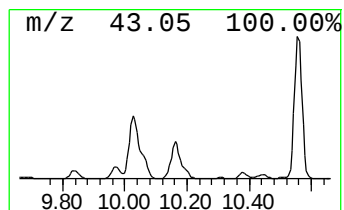
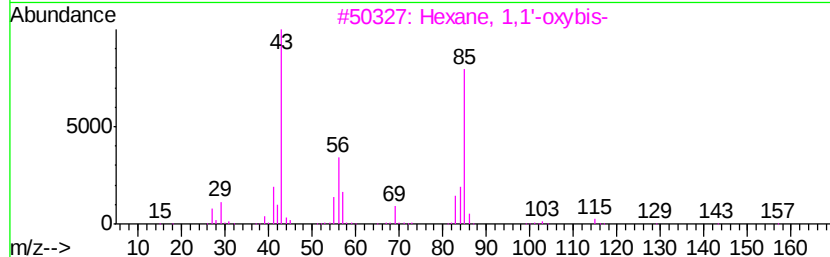
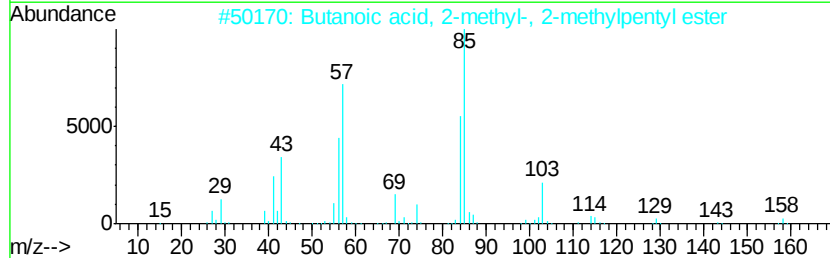
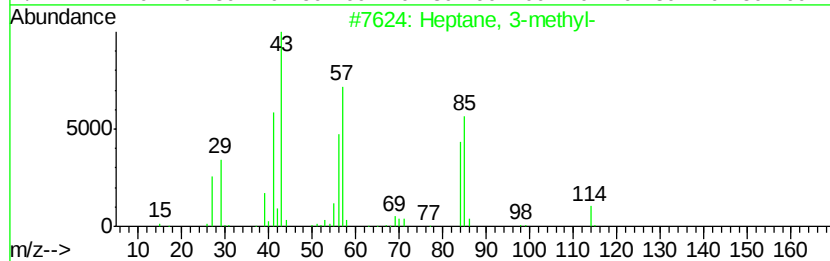
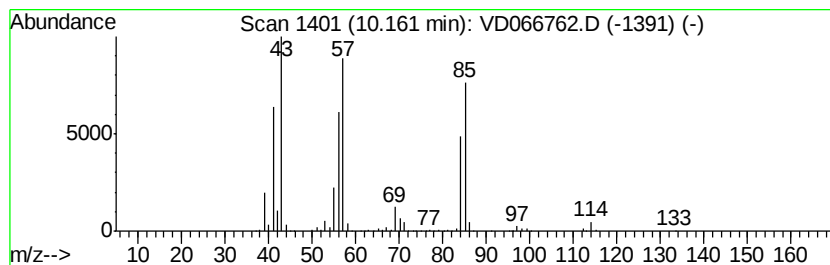
Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Heptane, 3-methyl- Concentration Rank 8

| R.T.    | EstConc                             | Area         | Relative to ISTD    | R.T.      |
|---------|-------------------------------------|--------------|---------------------|-----------|
| 10.16   | 55.93 ug/l                          | 5642590      | 1,4-Difluorobenzene | 8.96      |
| Hit# of | 5                                   | Tentative ID | MW MolForm          | CAS# Qual |
| 1       | Heptane, 3-methyl-                  | 114 C8H18    | 000589-81-1         | 83        |
| 2       | Butanoic acid, 2-methyl-, 2-meth... | 186 C11H22O2 | 083783-88-4         | 64        |
| 3       | Hexane, 1,1'-oxybis-                | 186 C12H26O  | 000112-58-3         | 59        |
| 4       | Hexane, 3-ethyl-                    | 114 C8H18    | 000619-99-8         | 59        |
| 5       | Hexane, 2,4-dimethyl-               | 114 C8H18    | 000589-43-5         | 58        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

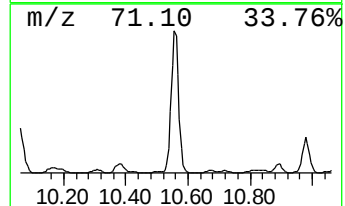
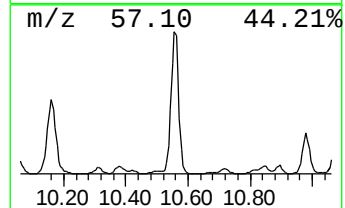
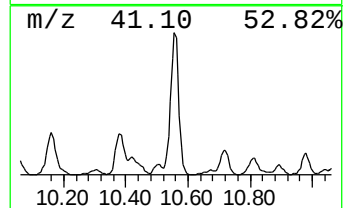
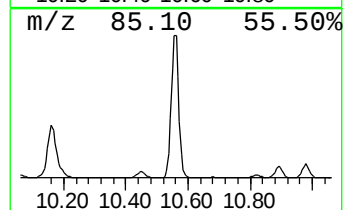
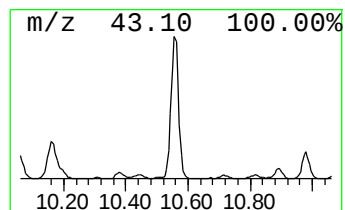
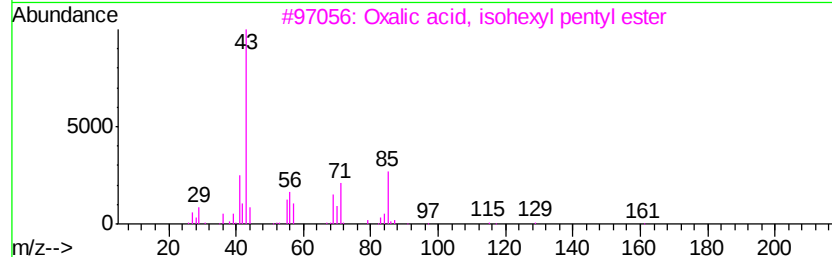
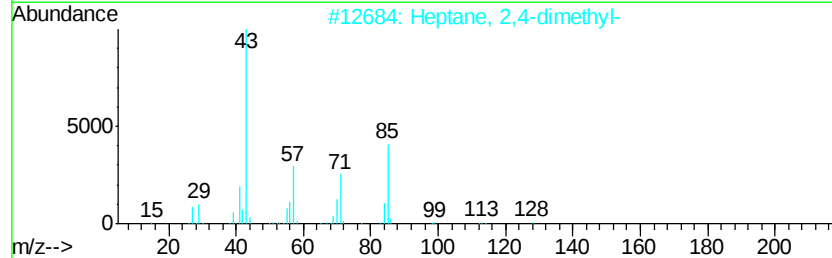
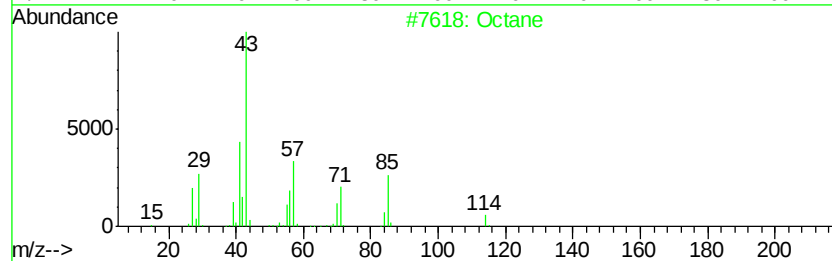
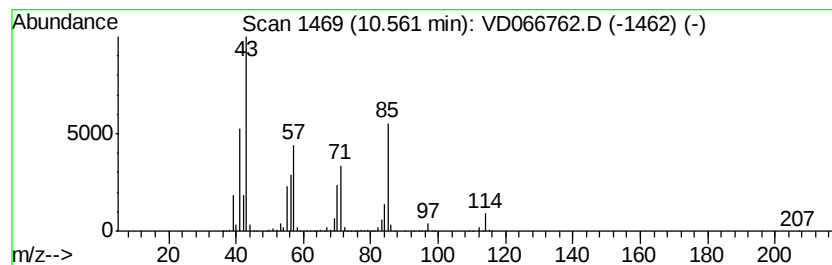
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Octane Concentration Rank 2

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 10.56 | 178.38 ug/l | 16632300 | Chlorobenzene-d5 | 11.67 |

| Hit# of | 5                                  | Tentative ID | MW  | MolForm  | CAS#         | Qual |
|---------|------------------------------------|--------------|-----|----------|--------------|------|
| 1       | Octane                             |              | 114 | C8H18    | 000111-65-9  | 91   |
| 2       | Heptane, 2,4-dimethyl-             |              | 128 | C9H20    | 002213-23-2  | 72   |
| 3       | Oxalic acid, isohexyl pentyl ester |              | 244 | C13H24O4 | 1000309-32-8 | 72   |
| 4       | Hexane, 3-ethyl-                   |              | 114 | C8H18    | 000619-99-8  | 53   |
| 5       | Heptane, 4,4-dimethyl-             |              | 128 | C9H20    | 001068-19-5  | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

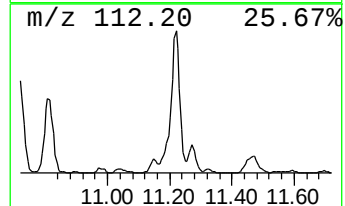
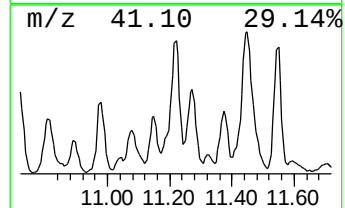
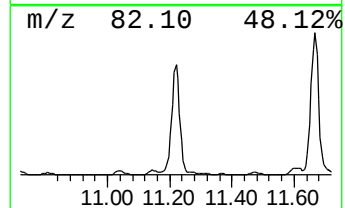
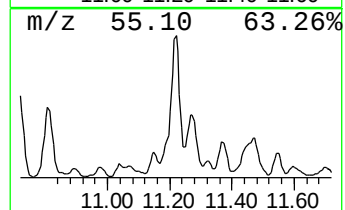
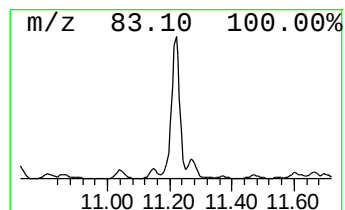
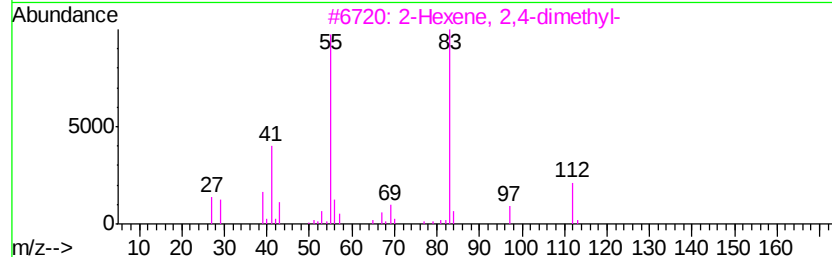
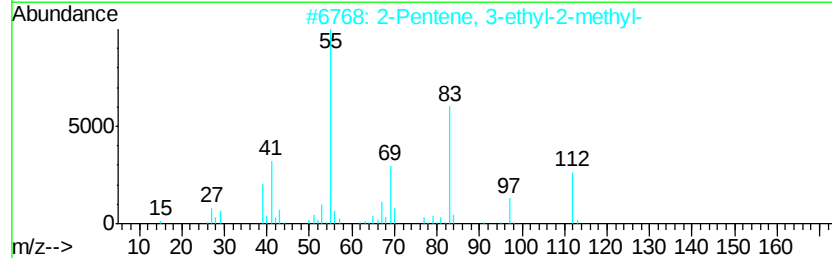
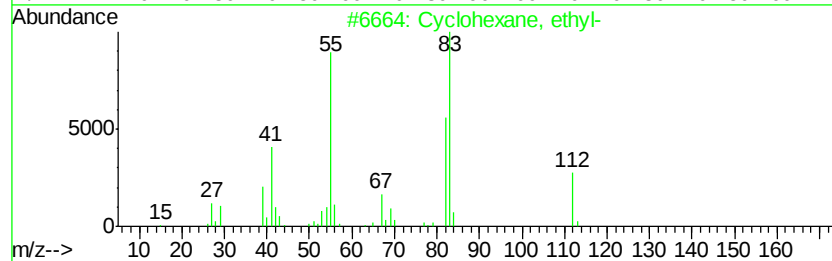
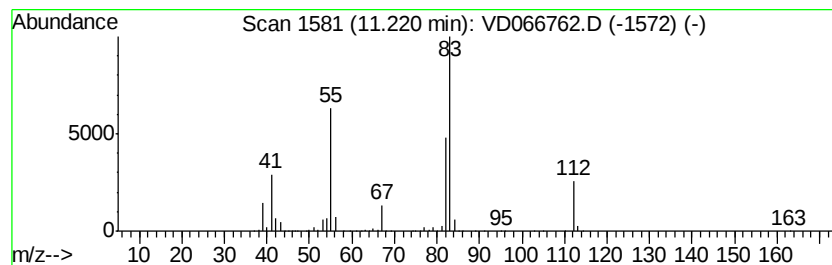
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Cyclohexane, ethyl- Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.22 | 69.18 ug/l | 6450530 | Chlorobenzene-d5 | 11.67 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, ethyl-          | 112 | C8H16   | 001678-91-7 | 91   |
| 2    |    | 2-Pentene, 3-ethyl-2-methyl- | 112 | C8H16   | 019780-67-7 | 59   |
| 3    |    | 2-Hexene, 2,4-dimethyl-      | 112 | C8H16   | 014255-23-3 | 53   |
| 4    |    | 2-Hexene, 2,3-dimethyl-      | 112 | C8H16   | 007145-20-2 | 53   |
| 5    |    | 3,4-Dimethyl-2-hexene        | 112 | C8H16   | 002213-37-8 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

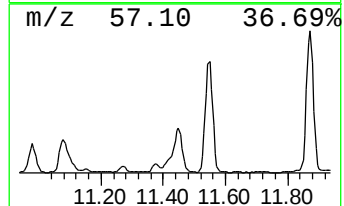
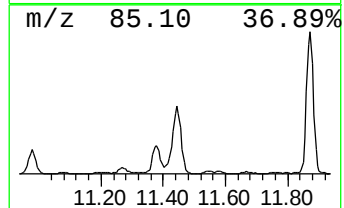
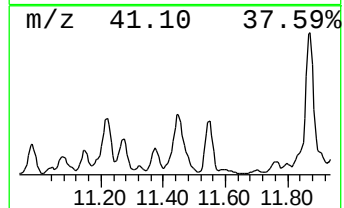
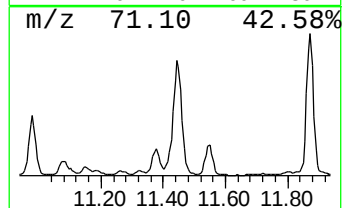
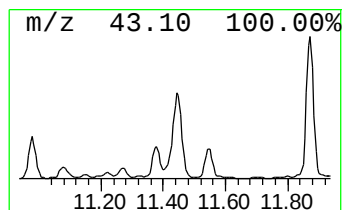
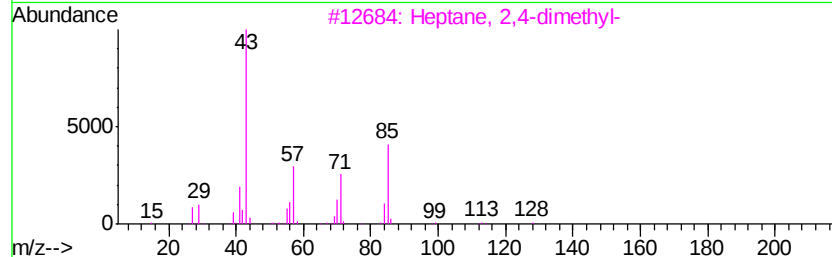
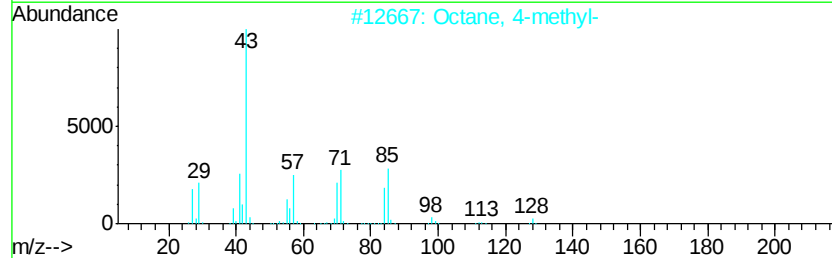
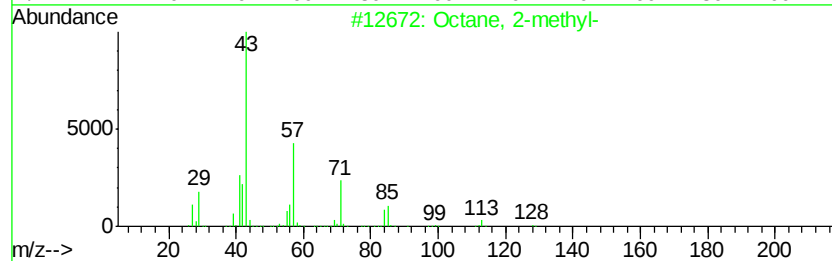
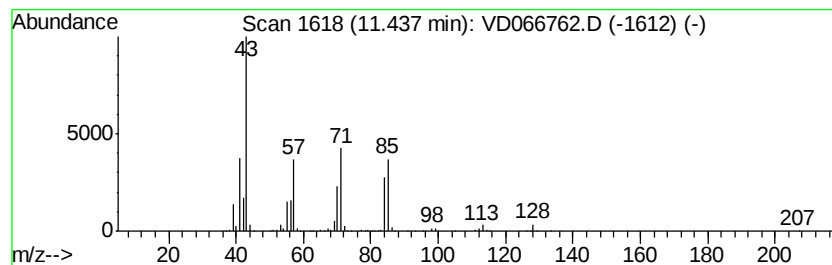
Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

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

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Peak Number 7 Octane, 2-methyl- Concentration Rank 4

| R.T.    | EstConc    | Area                              | Relative to ISTD | R.T.    |             |      |
|---------|------------|-----------------------------------|------------------|---------|-------------|------|
| 11.44   | 84.96 ug/l | 7922030                           | Chlorobenzene-d5 | 11.67   |             |      |
| Hit# of | 5          | Tentative ID                      | MW               | MolForm | CAS#        | Qual |
| 1       |            | Octane, 2-methyl-                 | 128              | C9H20   | 003221-61-2 | 80   |
| 2       |            | Octane, 4-methyl-                 | 128              | C9H20   | 002216-34-4 | 64   |
| 3       |            | Heptane, 2,4-dimethyl-            | 128              | C9H20   | 002213-23-2 | 64   |
| 4       |            | Hexane, 3,3-dimethyl-             | 114              | C8H18   | 000563-16-6 | 53   |
| 5       |            | Formic acid, 2-methylpentyl ester | 130              | C7H14O2 | 381670-34-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

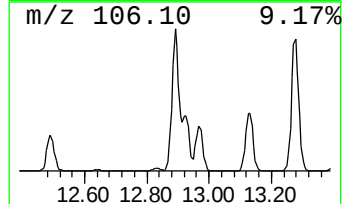
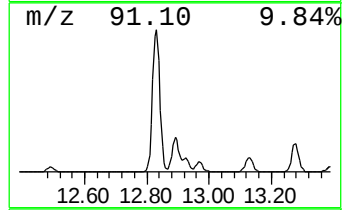
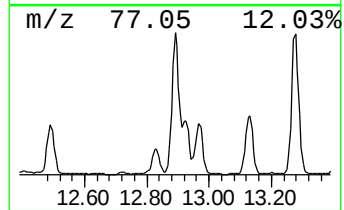
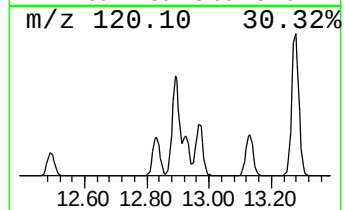
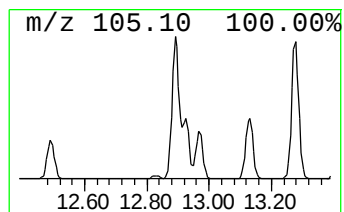
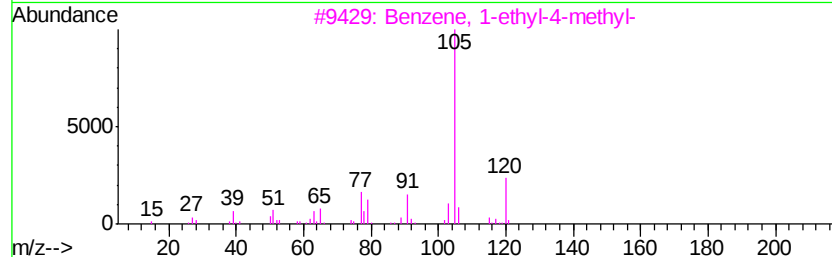
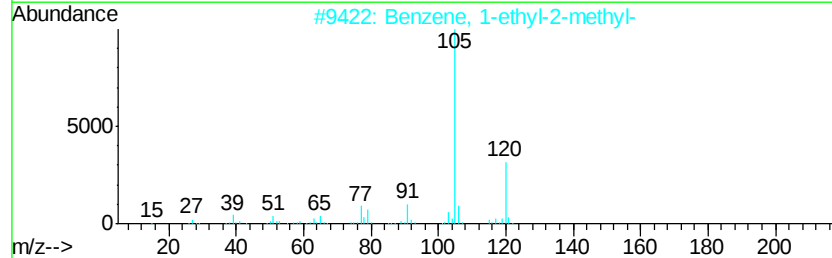
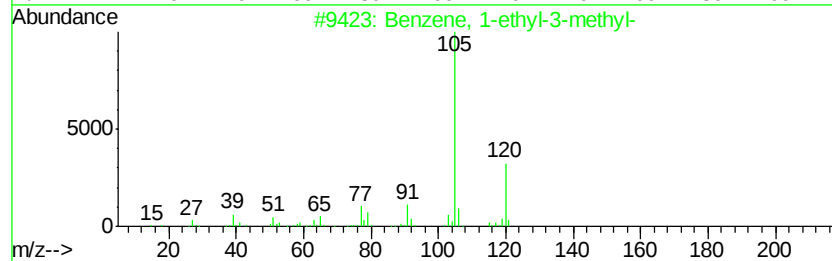
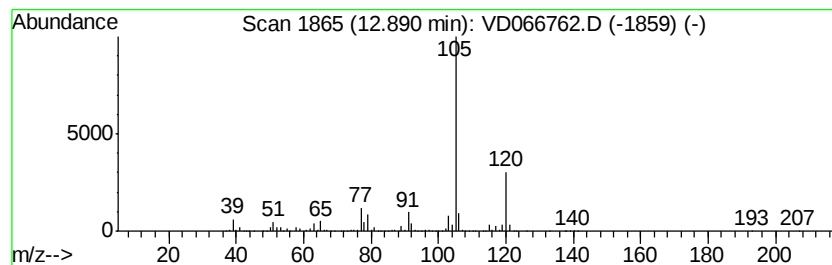
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Quant Title : SW846 8260

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

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Peak Number 8 Benzene, 1-ethyl-3-methyl- Concentration Rank 1

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 12.89 | 244.99 ug/l | 10142500 | 1,4-Dichlorobenzene-d4 | 13.58 |

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

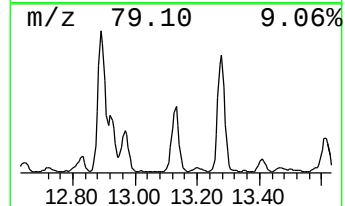
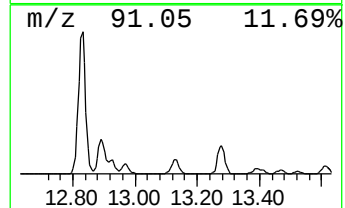
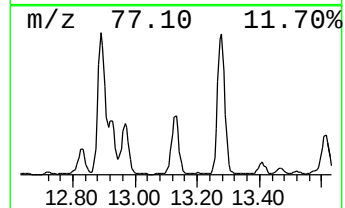
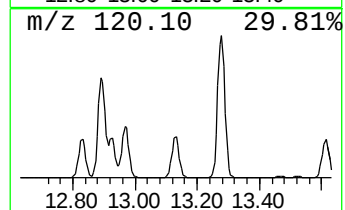
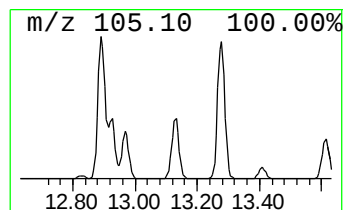
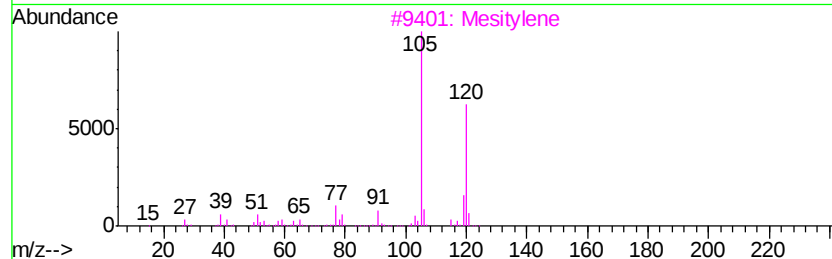
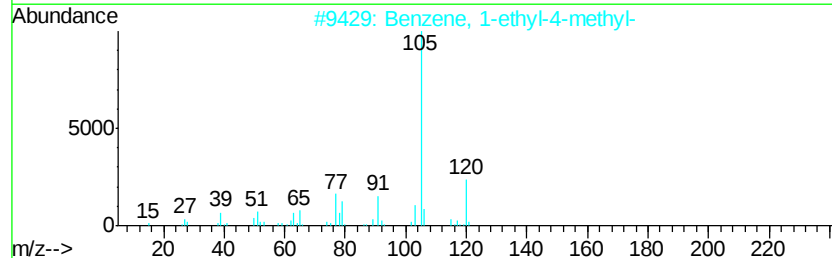
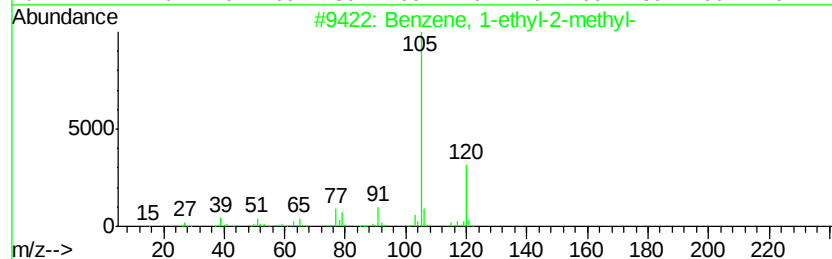
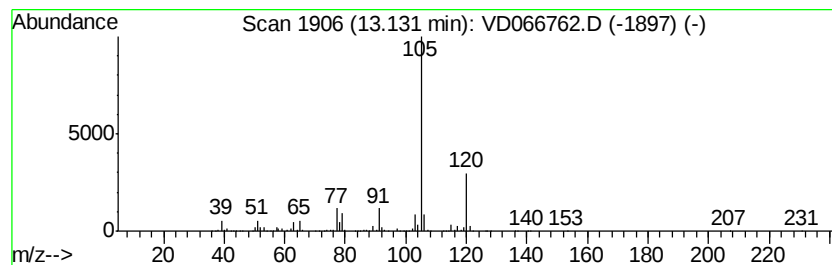
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.13 | 103.46 ug/l | 4283440 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 94   |
| 3    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

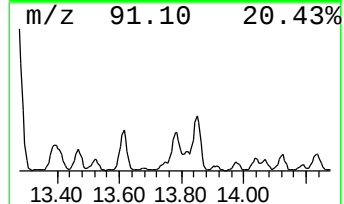
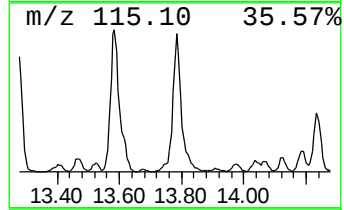
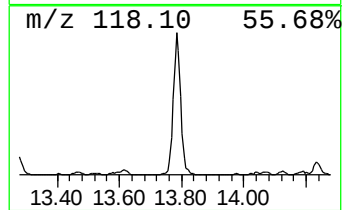
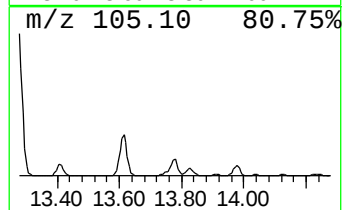
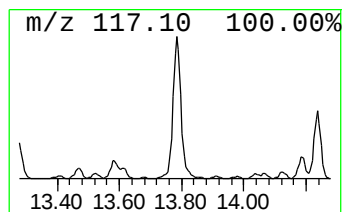
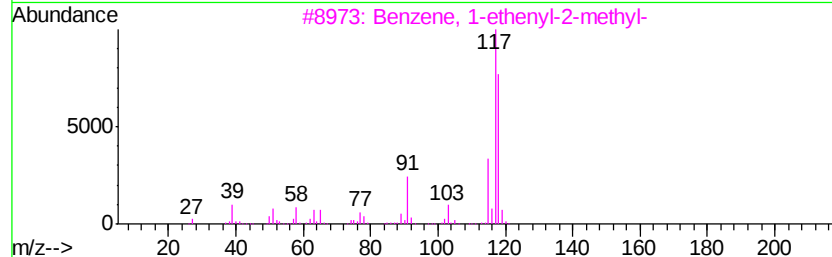
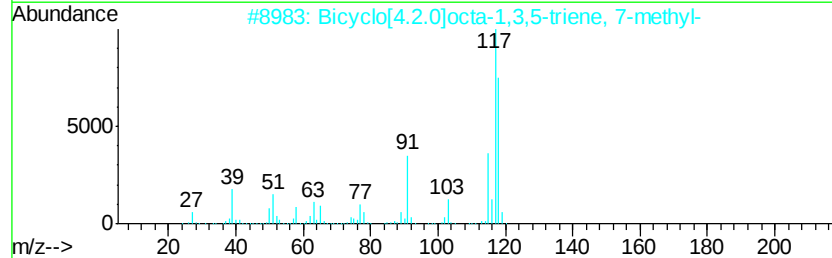
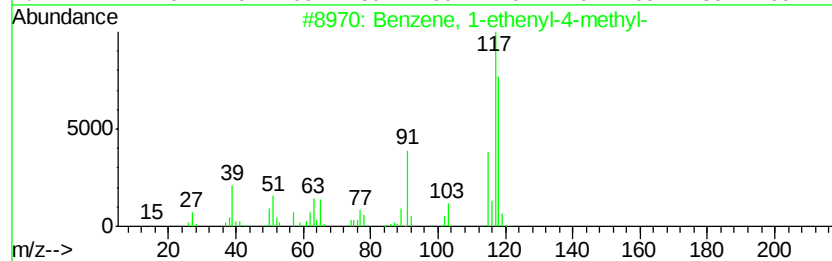
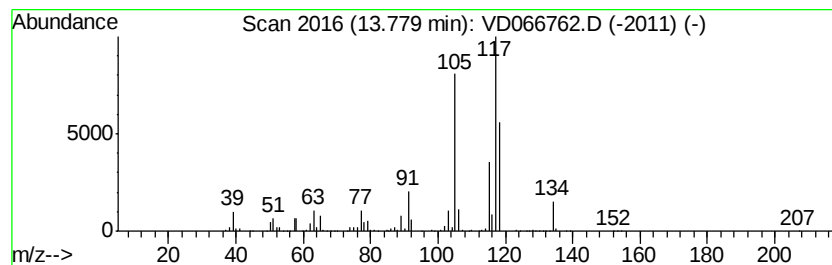
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1-ethenyl-4-methyl- Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.78 | 45.10 ug/l | 1867260 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-4-methyl-        | 118 | C9H10   | 000622-97-9 | 86   |
| 2    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10   | 055337-80-9 | 70   |
| 3    |    | Benzene, 1-ethenyl-2-methyl-        | 118 | C9H10   | 000611-15-4 | 64   |
| 4    |    | Benzene, cyclopropyl-               | 118 | C9H10   | 000873-49-4 | 64   |
| 5    |    | Indane                              | 118 | C9H10   | 000496-11-7 | 64   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD091820\  
Data File : VD066762.D  
Acq On : 18 Sep 2020 13:23  
Operator : VA/SY  
Sample : L4057-01  
Misc : 1.01G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
JA-DRUM-COMP

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Cyclopentane, 1,2... | 8.71  | 47.7    | ug/l  | 4809230  | 2                     | 8.96  | 5043890 | 50.0 |
| Heptane              | 8.82  | 84.4    | ug/l  | 8516760  | 2                     | 8.96  | 5043890 | 50.0 |
| Heptane, 2-methyl-   | 10.03 | 83.6    | ug/l  | 8433650  | 2                     | 8.96  | 5043890 | 50.0 |
| Heptane, 3-methyl-   | 10.16 | 55.9    | ug/l  | 5642590  | 2                     | 8.96  | 5043890 | 50.0 |
| Octane               | 10.56 | 178.4   | ug/l  | 16632300 | 3                     | 11.67 | 4661950 | 50.0 |
| Cyclohexane, ethyl-  | 11.22 | 69.2    | ug/l  | 6450530  | 3                     | 11.67 | 4661950 | 50.0 |
| Octane, 2-methyl-    | 11.44 | 85.0    | ug/l  | 7922030  | 3                     | 11.67 | 4661950 | 50.0 |
| Benzene, 1-ethyl-... | 12.89 | 245.0   | ug/l  | 10142500 | 4                     | 13.58 | 2070010 | 50.0 |
| Benzene, 1-ethyl-... | 13.13 | 103.5   | ug/l  | 4283440  | 4                     | 13.58 | 2070010 | 50.0 |
| Benzene, 1-etheny... | 13.78 | 45.1    | ug/l  | 1867260  | 4                     | 13.58 | 2070010 | 50.0 |