

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
 Data File : VD060407.D  
 Acq On : 16 Nov 2018 19:28  
 Operator : JC/SY  
 Sample : J5970-04  
 Misc : 6.89g/5ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-GF-02-028-B

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\82D110618S.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         | 3.166       | 162           | 167         | 177          | rBV2     | 54641          | 171095        | 4.24%           | 0.375%        |
| 2         | 3.727       | 219           | 224         | 236          | rVB      | 89864          | 286329        | 7.09%           | 0.628%        |
| 3         | 4.524       | 299           | 305         | 313          | rVB      | 24549          | 74779         | 1.85%           | 0.164%        |
| 4         | 5.656       | 412           | 420         | 429          | rBV      | 105797         | 346827        | 8.59%           | 0.760%        |
| 5         | 6.335       | 483           | 489         | 493          | rBV      | 521691         | 1348274       | 33.38%          | 2.956%        |
| 6         | 6.414       | 493           | 497         | 515          | rVB      | 1232772        | 3286303       | 81.36%          | 7.205%        |
| 7         | 6.798       | 529           | 536         | 547          | rBV      | 384960         | 1006347       | 24.92%          | 2.206%        |
| 8         | 7.447       | 596           | 602         | 624          | rBV      | 1646297        | 4038979       | 100.00%         | 8.855%        |
| 9         | 8.038       | 656           | 662         | 671          | rBV8     | 12787          | 57360         | 1.42%           | 0.126%        |
| 10        | 9.464       | 801           | 807         | 814          | rBV      | 1596171        | 3544154       | 87.75%          | 7.770%        |
| 11        | 9.553       | 814           | 816         | 823          | rVB      | 49349          | 98478         | 2.44%           | 0.216%        |
| 12        | 9.799       | 838           | 841         | 846          | rVB2     | 25615          | 54023         | 1.34%           | 0.118%        |
| 13        | 9.957       | 850           | 857         | 863          | rBV2     | 37984          | 97374         | 2.41%           | 0.213%        |
| 14        | 10.114      | 868           | 873         | 877          | rBV2     | 22777          | 49875         | 1.23%           | 0.109%        |
| 15        | 10.193      | 877           | 881         | 889          | rVB2     | 26626          | 69041         | 1.71%           | 0.151%        |
| 16        | 10.321      | 889           | 894         | 900          | rVB      | 18942          | 41143         | 1.02%           | 0.090%        |
| 17        | 10.449      | 900           | 907         | 912          | rBV      | 38510          | 75249         | 1.86%           | 0.165%        |
| 18        | 10.586      | 917           | 921         | 923          | rBV      | 24344          | 53242         | 1.32%           | 0.117%        |
| 19        | 10.636      | 923           | 926         | 930          | rBV3     | 20509          | 47132         | 1.17%           | 0.103%        |
| 20        | 10.704      | 930           | 933         | 937          | rVB      | 74072          | 143154        | 3.54%           | 0.314%        |
| 21        | 10.783      | 937           | 941         | 945          | rBV      | 94561          | 189597        | 4.69%           | 0.416%        |
| 22        | 10.852      | 945           | 948         | 953          | rVB3     | 28129          | 61660         | 1.53%           | 0.135%        |
| 23        | 10.990      | 959           | 962         | 965          | rBV      | 28007          | 46478         | 1.15%           | 0.102%        |
| 24        | 11.049      | 965           | 968         | 970          | rBV2     | 105970         | 213942        | 5.30%           | 0.469%        |
| 25        | 11.098      | 970           | 973         | 978          | rVB2     | 138335         | 294525        | 7.29%           | 0.646%        |
| 26        | 11.216      | 978           | 985         | 988          | rBV      | 130945         | 249243        | 6.17%           | 0.546%        |
| 27        | 11.285      | 988           | 992         | 999          | rVB      | 2176385        | 3713924       | 91.95%          | 8.143%        |
| 28        | 11.452      | 1004          | 1009        | 1013         | rVB2     | 57623          | 161955        | 4.01%           | 0.355%        |
| 29        | 11.561      | 1013          | 1020        | 1022         | rBV      | 285195         | 598291        | 14.81%          | 1.312%        |
| 30        | 11.629      | 1022          | 1027        | 1036         | rVB2     | 852585         | 1824833       | 45.18%          | 4.001%        |
| 31        | 11.757      | 1036          | 1040        | 1043         | rBV2     | 35764          | 71386         | 1.77%           | 0.157%        |
| 32        | 11.895      | 1049          | 1054        | 1056         | rBV3     | 205580         | 468602        | 11.60%          | 1.027%        |
| 33        | 11.935      | 1056          | 1058        | 1061         | rBV      | 179996         | 238512        | 5.91%           | 0.523%        |
| 34        | 12.092      | 1070          | 1074        | 1078         | rBV3     | 184669         | 429156        | 10.63%          | 0.941%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
 Data File : VD060407.D  
 Acq On : 16 Nov 2018 19:28  
 Operator : JC/SY  
 Sample : J5970-04  
 Misc : 6.89g/5ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-GF-02-028-B

## 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\82D110618S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.190 | 1078 | 1084 | 1088 | rBV2 | 368238  | 756147  | 18.72% | 1.658% |
| 36 | 12.279 | 1090 | 1093 | 1096 | rVB  | 141325  | 232728  | 5.76%  | 0.510% |
| 37 | 12.358 | 1096 | 1101 | 1103 | rBV3 | 174988  | 407223  | 10.08% | 0.893% |
| 38 | 12.436 | 1103 | 1109 | 1112 | rVB3 | 1322765 | 2419970 | 59.92% | 5.306% |
| 39 | 12.486 | 1112 | 1114 | 1116 | rVB2 | 58444   | 69630   | 1.72%  | 0.153% |
| 40 | 12.525 | 1116 | 1118 | 1121 | rBV  | 196617  | 299503  | 7.42%  | 0.657% |
| 41 | 12.584 | 1121 | 1124 | 1128 | rVB3 | 166370  | 295837  | 7.32%  | 0.649% |
| 42 | 12.643 | 1128 | 1130 | 1132 | rVB  | 97142   | 104759  | 2.59%  | 0.230% |
| 43 | 12.712 | 1132 | 1137 | 1139 | rBV  | 481246  | 738314  | 18.28% | 1.619% |
| 44 | 12.751 | 1139 | 1141 | 1143 | rVV2 | 152033  | 215100  | 5.33%  | 0.472% |
| 45 | 12.801 | 1143 | 1146 | 1147 | rVV2 | 700001  | 1165820 | 28.86% | 2.556% |
| 46 | 12.820 | 1147 | 1148 | 1153 | rVB  | 1163275 | 1516444 | 37.55% | 3.325% |
| 47 | 12.948 | 1157 | 1161 | 1164 | rBV3 | 202426  | 427149  | 10.58% | 0.936% |
| 48 | 13.056 | 1170 | 1172 | 1174 | rBV  | 101758  | 120637  | 2.99%  | 0.264% |
| 49 | 13.096 | 1174 | 1176 | 1183 | rVB  | 1524550 | 2085020 | 51.62% | 4.571% |
| 50 | 13.184 | 1183 | 1185 | 1186 | rBV  | 39541   | 57462   | 1.42%  | 0.126% |
| 51 | 13.224 | 1186 | 1189 | 1191 | rBV2 | 113877  | 174886  | 4.33%  | 0.383% |
| 52 | 13.293 | 1194 | 1196 | 1200 | rBV  | 371753  | 554354  | 13.73% | 1.215% |
| 53 | 13.371 | 1201 | 1204 | 1207 | rVV  | 1985543 | 3019671 | 74.76% | 6.620% |
| 54 | 13.411 | 1207 | 1208 | 1213 | rVB  | 457329  | 668099  | 16.54% | 1.465% |
| 55 | 13.499 | 1213 | 1217 | 1220 | rVB2 | 109449  | 180412  | 4.47%  | 0.396% |
| 56 | 13.558 | 1220 | 1223 | 1224 | rBV2 | 143287  | 181340  | 4.49%  | 0.398% |
| 57 | 13.588 | 1224 | 1226 | 1228 | rVB  | 269361  | 307932  | 7.62%  | 0.675% |
| 58 | 13.627 | 1228 | 1230 | 1232 | rBV  | 409493  | 561086  | 13.89% | 1.230% |
| 59 | 13.657 | 1232 | 1233 | 1237 | rVV2 | 187898  | 259563  | 6.43%  | 0.569% |
| 60 | 13.735 | 1239 | 1241 | 1246 | rVV3 | 431029  | 665905  | 16.49% | 1.460% |
| 61 | 13.824 | 1249 | 1250 | 1252 | rVV  | 106987  | 155397  | 3.85%  | 0.341% |
| 62 | 13.854 | 1252 | 1253 | 1256 | rVV  | 168442  | 213300  | 5.28%  | 0.468% |
| 63 | 13.903 | 1256 | 1258 | 1261 | rVB  | 242497  | 315236  | 7.80%  | 0.691% |
| 64 | 13.952 | 1261 | 1263 | 1265 | rBV3 | 29946   | 52428   | 1.30%  | 0.115% |
| 65 | 14.001 | 1265 | 1268 | 1272 | rVB2 | 159314  | 312948  | 7.75%  | 0.686% |
| 66 | 14.070 | 1272 | 1275 | 1278 | rVB3 | 70813   | 144595  | 3.58%  | 0.317% |
| 67 | 14.119 | 1278 | 1280 | 1283 | rBV2 | 90347   | 191441  | 4.74%  | 0.420% |
| 68 | 14.168 | 1283 | 1285 | 1286 | rVV  | 50754   | 60897   | 1.51%  | 0.134% |
| 69 | 14.198 | 1286 | 1288 | 1289 | rVV  | 113428  | 129114  | 3.20%  | 0.283% |
| 70 | 14.227 | 1289 | 1291 | 1294 | rVB  | 232442  | 265244  | 6.57%  | 0.582% |
| 71 | 14.277 | 1294 | 1296 | 1298 | rBV2 | 105653  | 142848  | 3.54%  | 0.313% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

## 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\82D110618S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 72 | 14.316 | 1298 | 1300 | 1304 | rVB2 | 54085  | 82330  | 2.04% | 0.181% |
| 73 | 14.424 | 1304 | 1311 | 1313 | rBV4 | 61356  | 155414 | 3.85% | 0.341% |
| 74 | 14.483 | 1313 | 1317 | 1319 | rVV3 | 36823  | 89872  | 2.23% | 0.197% |
| 75 | 14.523 | 1319 | 1321 | 1326 | rVB2 | 271794 | 365156 | 9.04% | 0.801% |
| 76 | 14.592 | 1326 | 1328 | 1330 | rVB2 | 59500  | 78307  | 1.94% | 0.172% |
| 77 | 14.641 | 1330 | 1333 | 1337 | rVB2 | 147925 | 233009 | 5.77% | 0.511% |
| 78 | 14.759 | 1337 | 1345 | 1346 | rBV4 | 51243  | 134117 | 3.32% | 0.294% |
| 79 | 14.779 | 1346 | 1347 | 1349 | rVB  | 59129  | 46620  | 1.15% | 0.102% |
| 80 | 14.847 | 1349 | 1354 | 1357 | rBV3 | 64566  | 125463 | 3.11% | 0.275% |
| 81 | 14.975 | 1363 | 1367 | 1370 | rBV2 | 102056 | 238498 | 5.90% | 0.523% |
| 82 | 15.015 | 1370 | 1371 | 1374 | rVV2 | 104906 | 124857 | 3.09% | 0.274% |
| 83 | 15.074 | 1374 | 1377 | 1379 | rVV2 | 74863  | 121364 | 3.00% | 0.266% |
| 84 | 15.162 | 1382 | 1386 | 1388 | rVB5 | 31478  | 67330  | 1.67% | 0.148% |
| 85 | 15.212 | 1388 | 1391 | 1395 | rBV3 | 45633  | 94026  | 2.33% | 0.206% |
| 86 | 15.330 | 1400 | 1403 | 1404 | rVV2 | 50570  | 89819  | 2.22% | 0.197% |
| 87 | 15.359 | 1404 | 1406 | 1410 | rVV  | 121602 | 170064 | 4.21% | 0.373% |
| 88 | 15.428 | 1410 | 1413 | 1415 | rVV3 | 25851  | 45257  | 1.12% | 0.099% |
| 89 | 15.477 | 1415 | 1418 | 1421 | rVV2 | 42073  | 77450  | 1.92% | 0.170% |
| 90 | 15.585 | 1425 | 1429 | 1431 | rVV  | 79445  | 109905 | 2.72% | 0.241% |
| 91 | 15.694 | 1438 | 1440 | 1442 | rVV2 | 25567  | 45404  | 1.12% | 0.100% |
| 92 | 15.733 | 1442 | 1444 | 1446 | rVV  | 42448  | 65768  | 1.63% | 0.144% |
| 93 | 15.772 | 1446 | 1448 | 1454 | rVB3 | 48256  | 83941  | 2.08% | 0.184% |
| 94 | 15.910 | 1459 | 1462 | 1466 | rBV  | 28033  | 47652  | 1.18% | 0.104% |

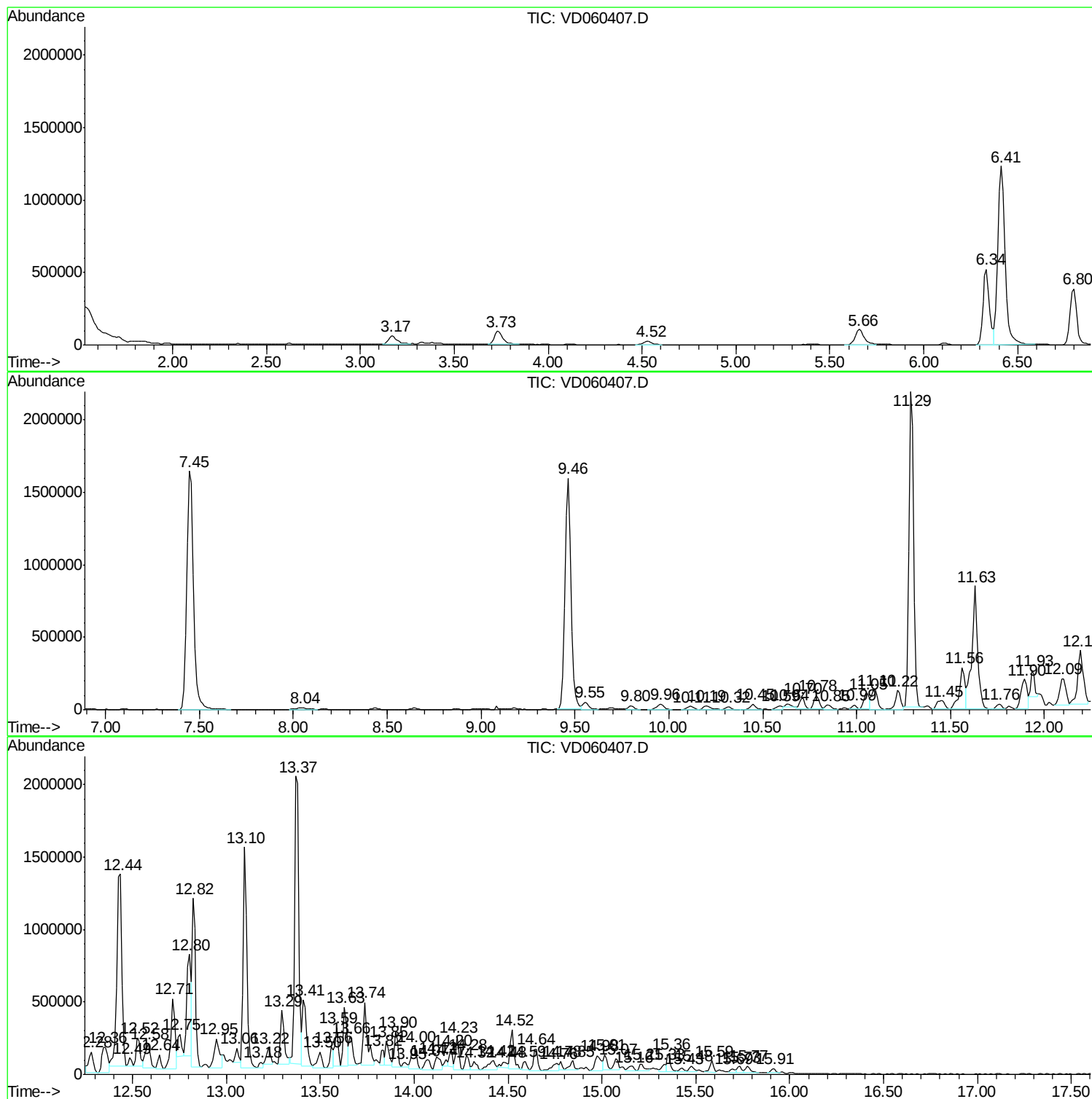
Sum of corrected areas: 45611324

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89µl/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

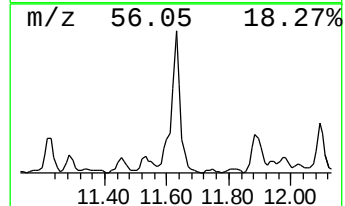
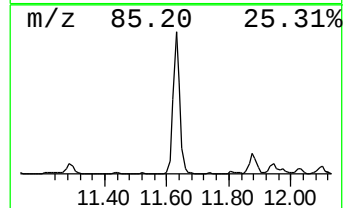
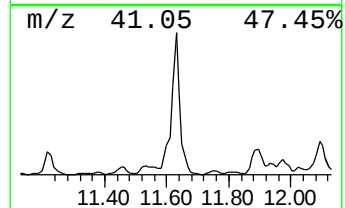
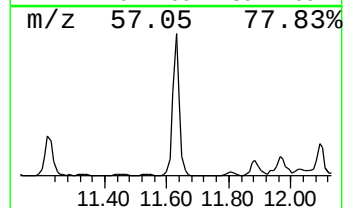
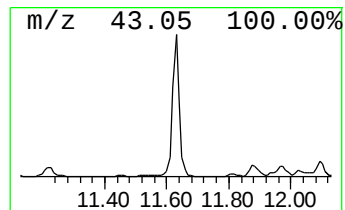
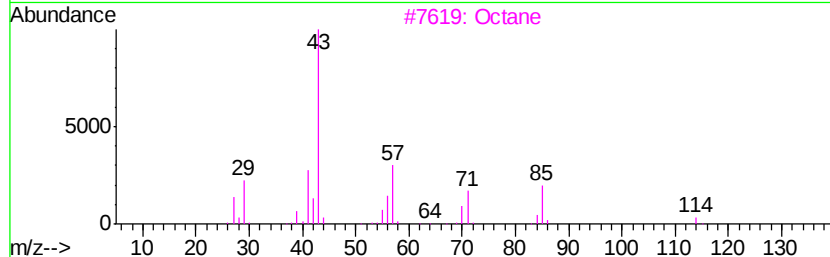
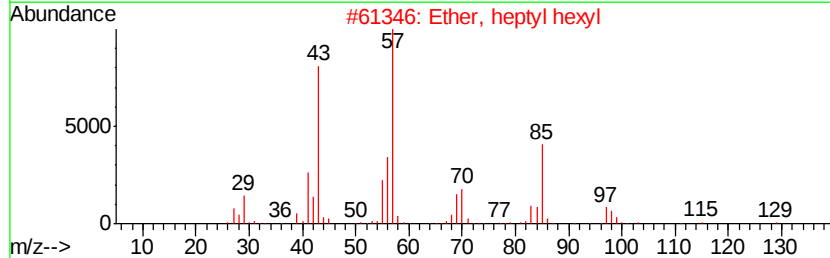
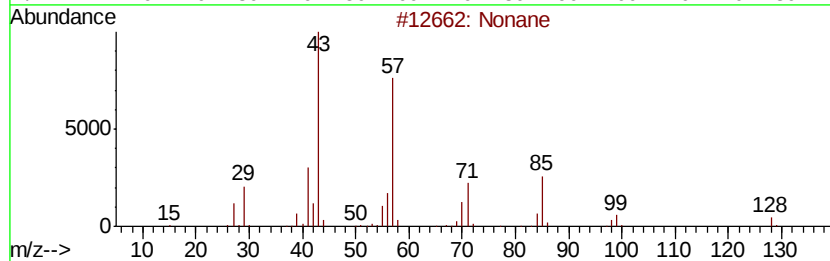
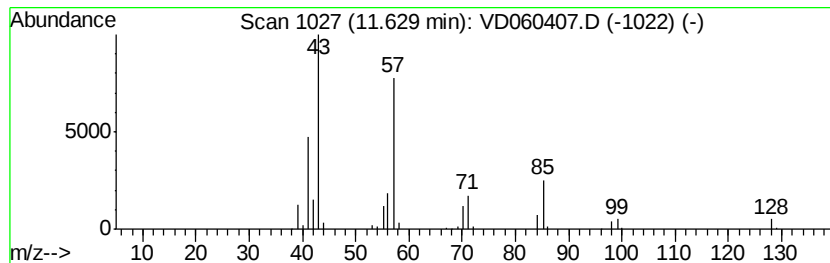
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Nonane Concentration Rank 1

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.    |             |      |
|---------|------------------------|--------------|------------------|---------|-------------|------|
| 11.63   | 24.57 ug/l             | 1824830      | Chlorobenzene-d5 | 11.29   |             |      |
| Hit# of | 5                      | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | Nonane                 |              | 128              | C9H20   | 000111-84-2 | 94   |
| 2       | Ether, heptyl hexyl    |              | 200              | C13H28O | 007289-40-9 | 59   |
| 3       | Octane                 |              | 114              | C8H18   | 000111-65-9 | 53   |
| 4       | Heptane, 2,4-dimethyl- |              | 128              | C9H20   | 002213-23-2 | 53   |
| 5       | Hexane, 2,4-dimethyl-  |              | 114              | C8H18   | 000589-43-5 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

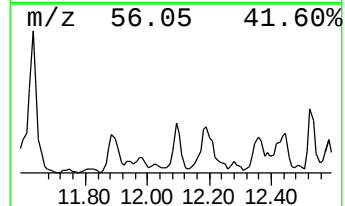
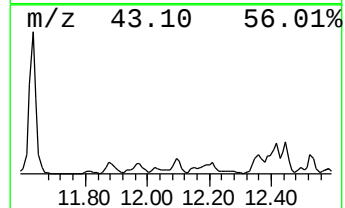
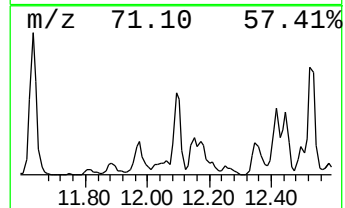
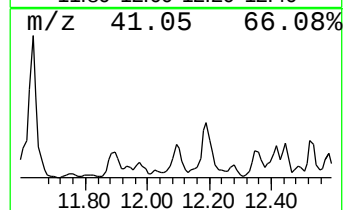
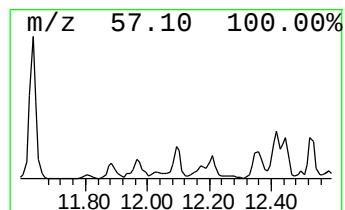
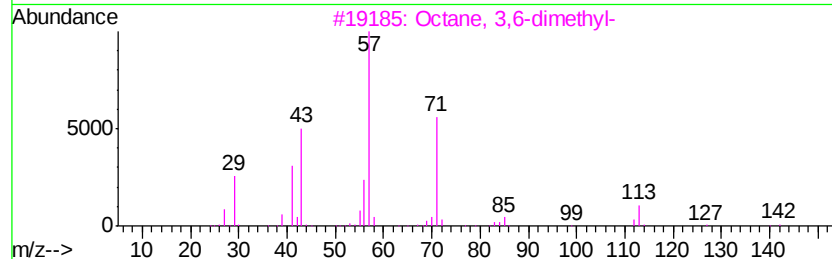
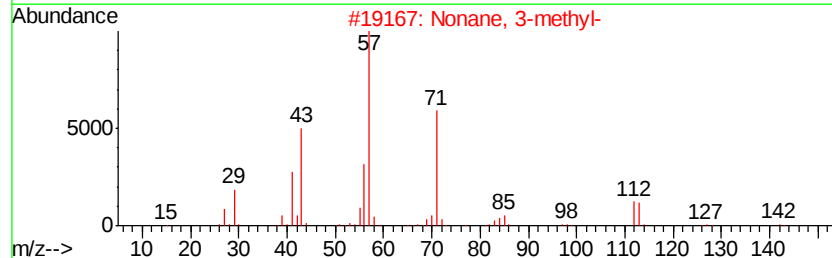
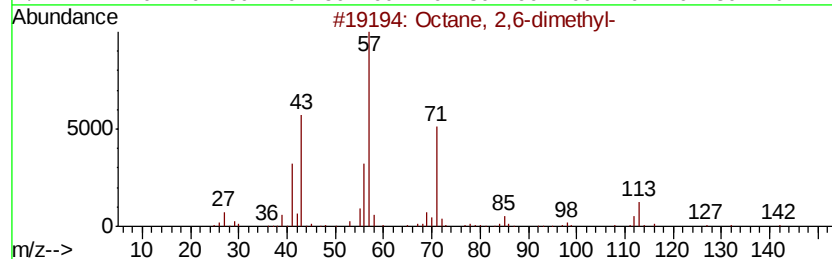
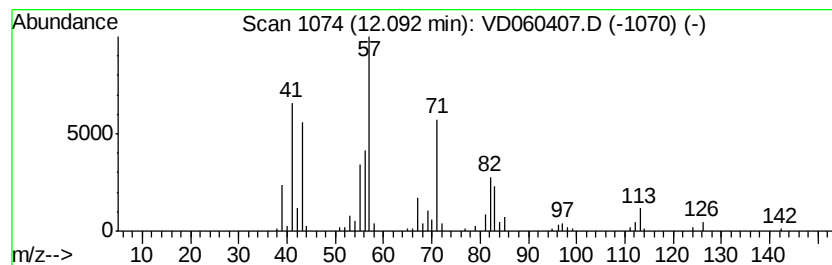
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Octane, 2,6-dimethyl- Concentration Rank 9

| R.T.    | EstConc   | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|-----------|-------------------------------------|------------------|-----------|--------------|------|
| 12.09   | 5.78 ug/l | 429156                              | Chlorobenzene-d5 | 11.29     |              |      |
| Hit# of | 5         | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |           | Octane, 2,6-dimethyl-               | 142              | C10H22    | 002051-30-1  | 64   |
| 2       |           | Nonane, 3-methyl-                   | 142              | C10H22    | 005911-04-6  | 55   |
| 3       |           | Octane, 3,6-dimethyl-               | 142              | C10H22    | 015869-94-0  | 49   |
| 4       |           | Oxirane, pentyl-                    | 114              | C7H14O    | 005063-65-0  | 43   |
| 5       |           | Sulfurous acid, 2-ethylhexyl non... | 320              | C17H36O3S | 1000309-19-2 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

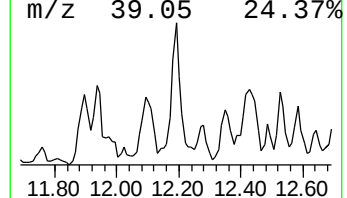
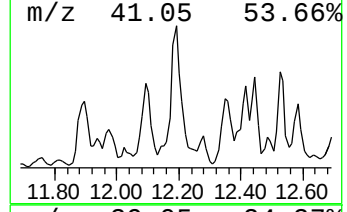
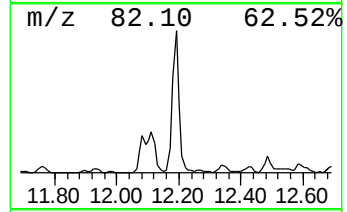
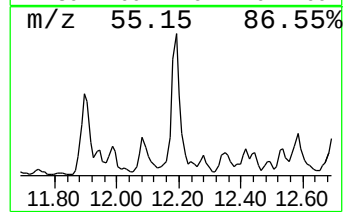
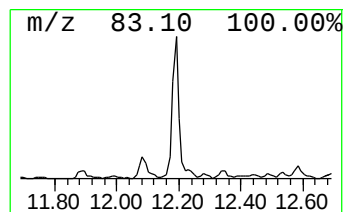
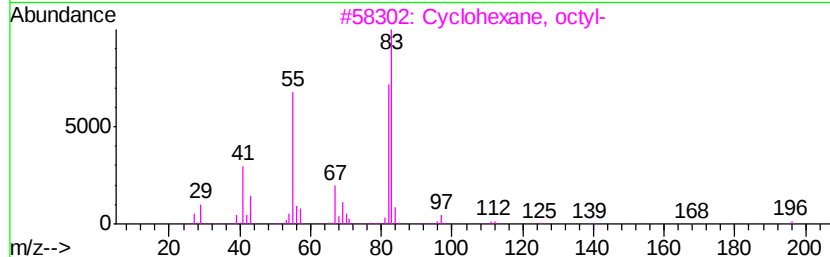
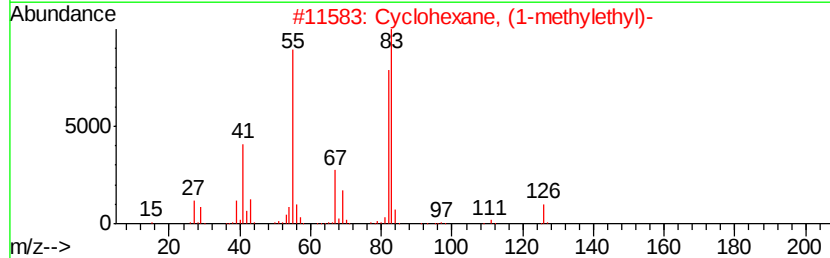
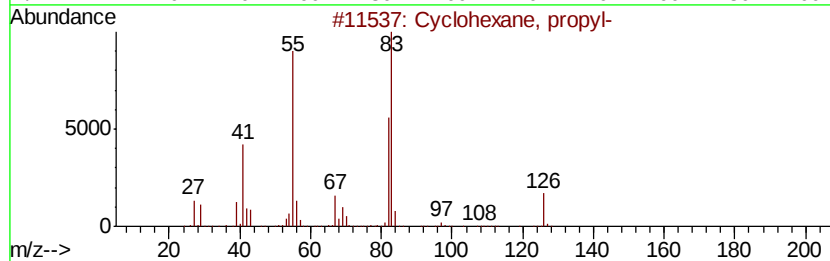
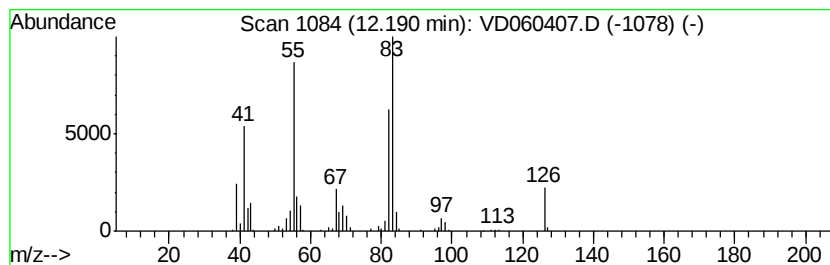
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Cyclohexane, propyl- Concentration Rank 4

| R.T.    | EstConc    | Area                          | Relative to ISTD | R.T.    |             |      |
|---------|------------|-------------------------------|------------------|---------|-------------|------|
| 12.19   | 10.18 ug/l | 756147                        | Chlorobenzene-d5 | 11.29   |             |      |
| Hit# of | 5          | Tentative ID                  | MW               | MolForm | CAS#        | Qual |
| 1       |            | Cvclohexane, propyl-          | 126              | C9H18   | 001678-92-8 | 94   |
| 2       |            | Cvclohexane, (1-methylethyl)- | 126              | C9H18   | 000696-29-7 | 90   |
| 3       |            | Cvclohexane, octyl-           | 196              | C14H28  | 001795-15-9 | 72   |
| 4       |            | Cvclohexane, 2-propenyl-      | 124              | C9H16   | 002114-42-3 | 64   |
| 5       |            | Cyclohexane, ethyl-           | 112              | C8H16   | 001678-91-7 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

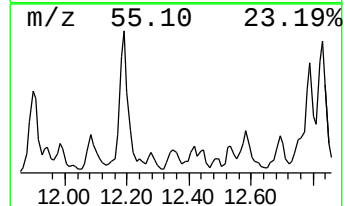
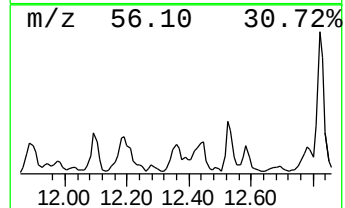
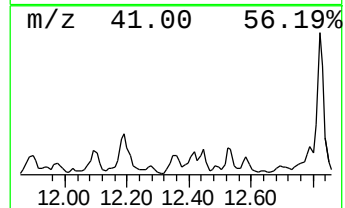
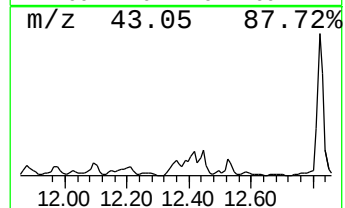
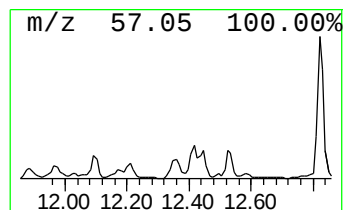
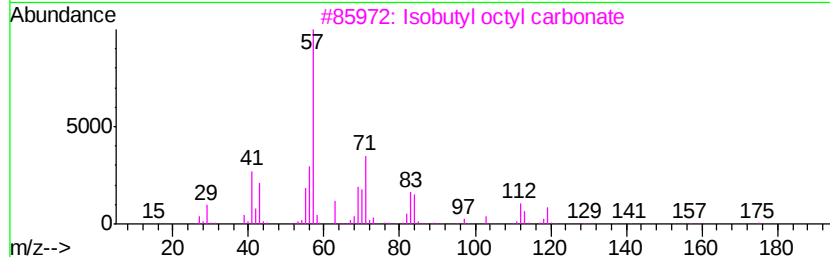
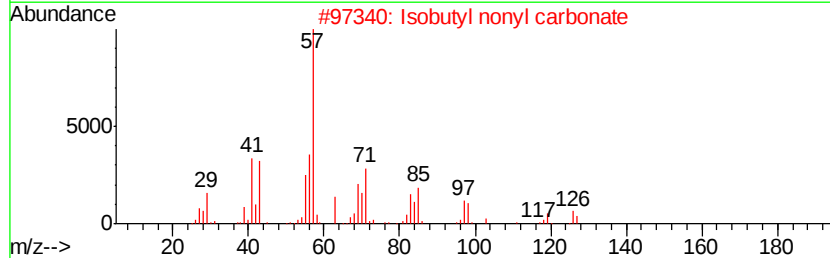
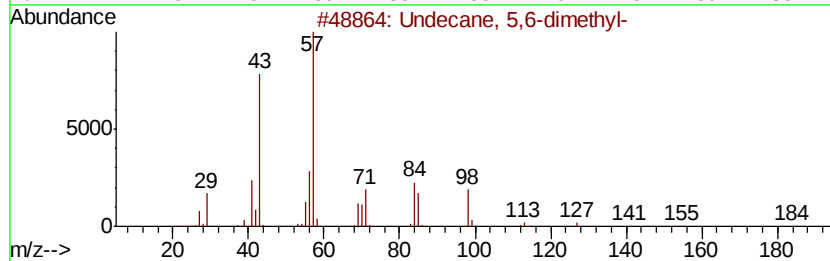
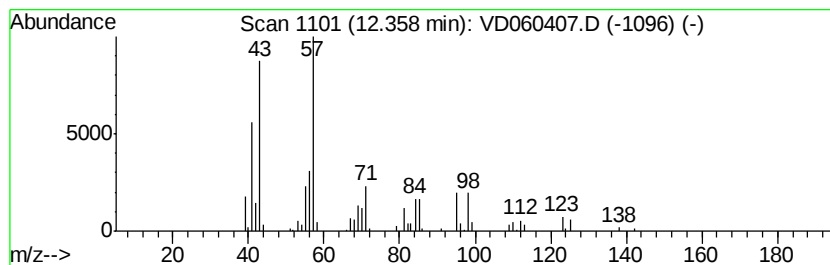
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Undecane, 5,6-dimethyl- Concentration Rank 7

| R.T.    | EstConc                  | Area         | Relative to ISTD       | R.T.      |
|---------|--------------------------|--------------|------------------------|-----------|
| 12.36   | 6.74 ug/l                | 407223       | 1,4-Dichlorobenzene-d4 | 13.38     |
| Hit# of | 5                        | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Undecane, 5,6-dimethyl-  | 184 C13H28   | 017615-91-7            | 52        |
| 2       | Isobutyl nonyl carbonate | 244 C14H28O3 | 959311-27-4            | 47        |
| 3       | Isobutyl octyl carbonate | 230 C13H26O3 | 1000372-74-6           | 38        |
| 4       | Octane, 2,3-dimethyl-    | 142 C10H22   | 007146-60-3            | 38        |
| 5       | Butane, 2,2-dimethyl-    | 86 C6H14     | 000075-83-2            | 35        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

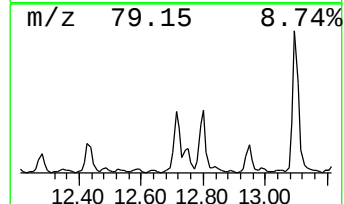
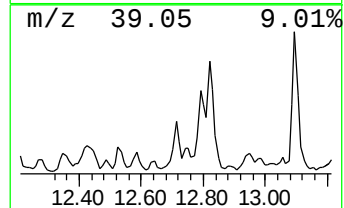
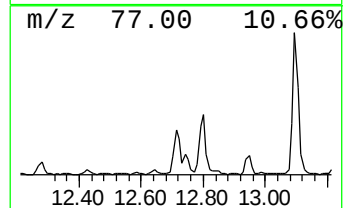
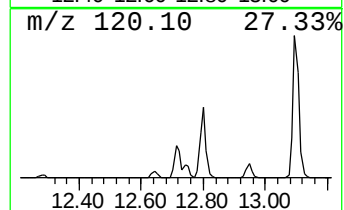
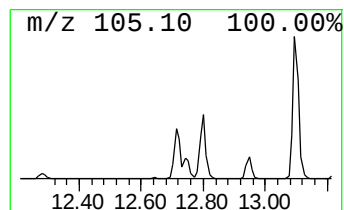
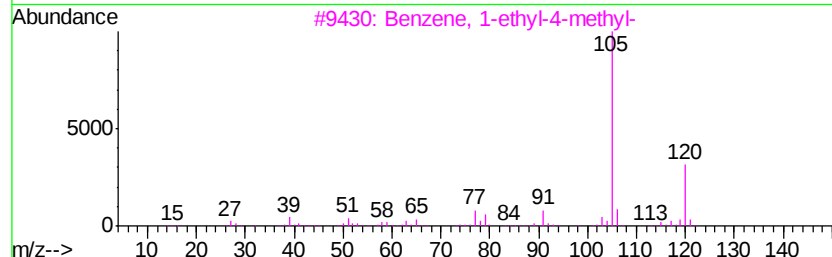
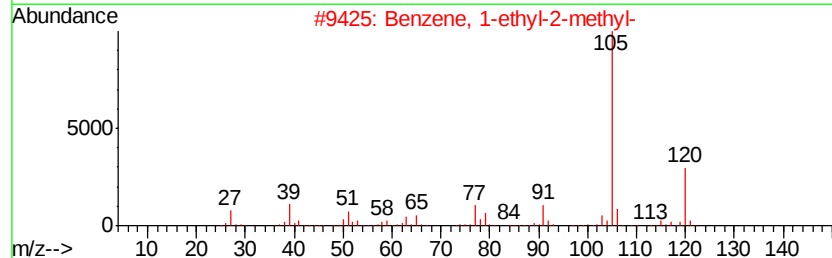
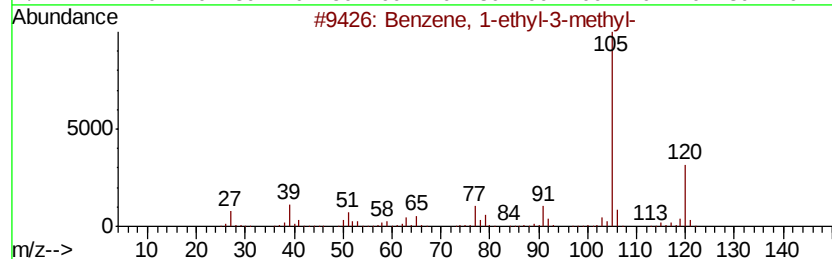
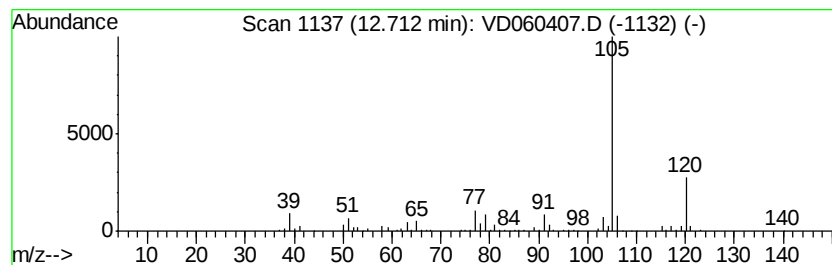
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Benzene, 1-ethyl-3-methyl- Concentration Rank 2

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.    |             |      |
|---------|------------|----------------------------|------------------------|---------|-------------|------|
| 12.71   | 12.23 ug/l | 738314                     | 1,4-Dichlorobenzene-d4 | 13.38   |             |      |
| Hit# of | 5          | Tentative ID               | MW                     | MolForm | CAS#        | Qual |
| 1       |            | 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, 1,2,3-trimethyl-  | 120                    | C9H12   | 000526-73-8 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

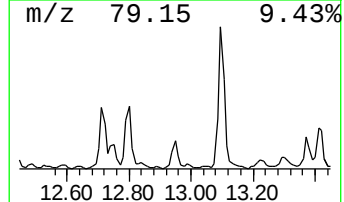
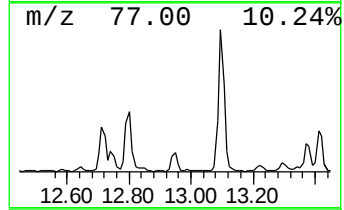
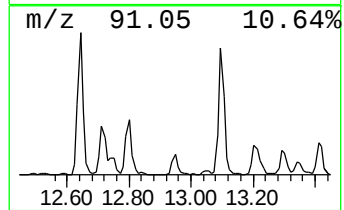
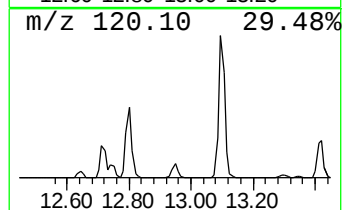
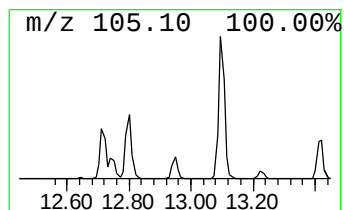
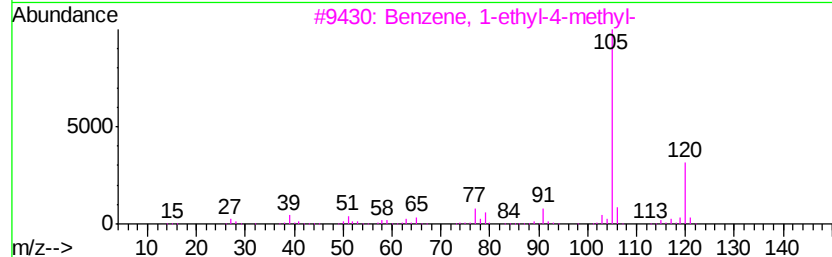
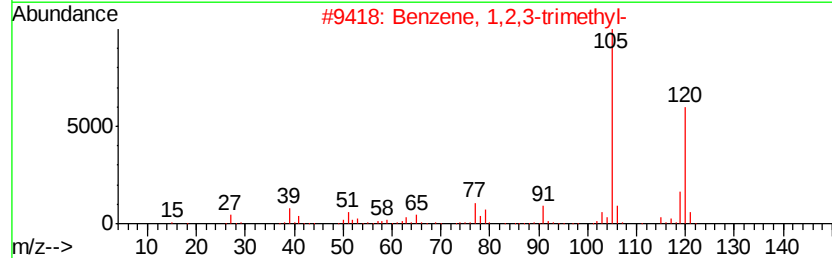
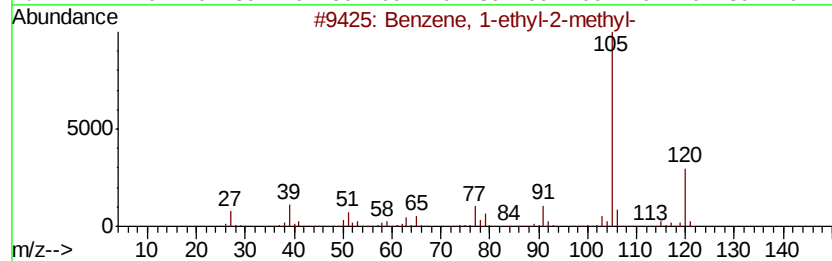
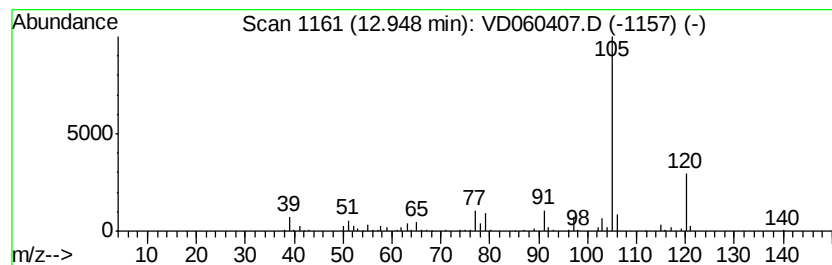
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 6

| R.T.    | EstConc                    | Area         | Relative to ISTD       | R.T.        |      |      |
|---------|----------------------------|--------------|------------------------|-------------|------|------|
| 12.95   | 7.07 ug/l                  | 427149       | 1,4-Dichlorobenzene-d4 | 13.38       |      |      |
| Hit# of | 5                          | Tentative ID | MW                     | MolForm     | CAS# | Qual |
| 1       | Benzene, 1-ethyl-2-methyl- | 120          | C9H12                  | 000611-14-3 | 95   |      |
| 2       | Benzene, 1,2,3-trimethyl-  | 120          | C9H12                  | 000526-73-8 | 90   |      |
| 3       | Benzene, 1-ethyl-4-methyl- | 120          | C9H12                  | 000622-96-8 | 90   |      |
| 4       | Benzene, 1-ethyl-3-methyl- | 120          | C9H12                  | 000620-14-4 | 90   |      |
| 5       | Mesitylene                 | 120          | C9H12                  | 000108-67-8 | 90   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

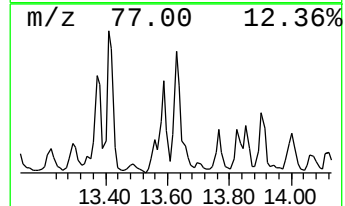
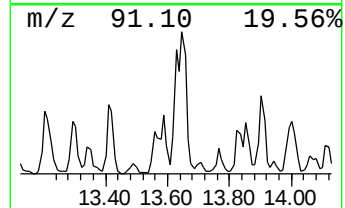
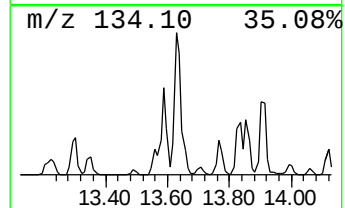
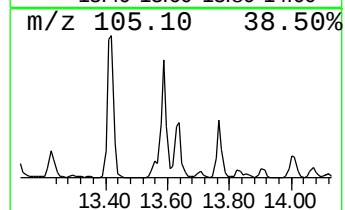
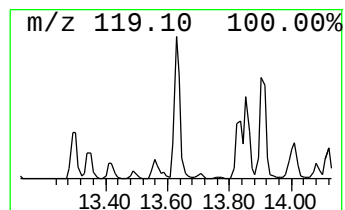
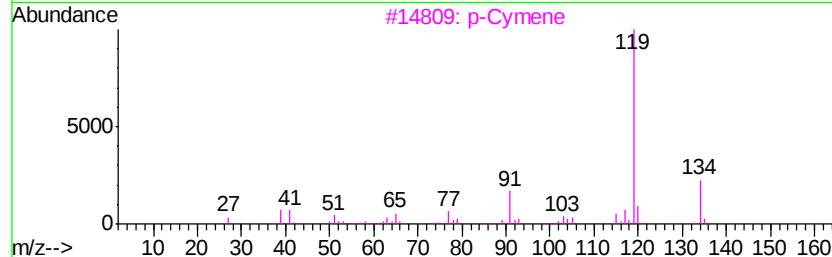
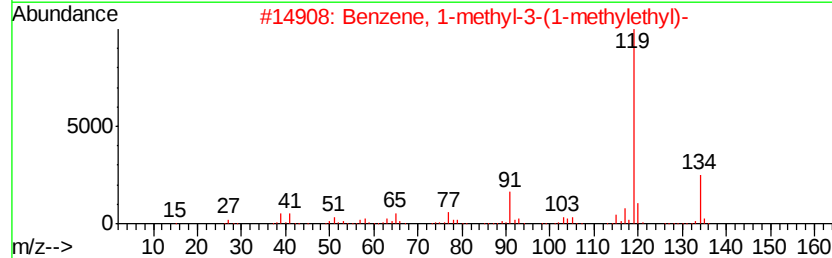
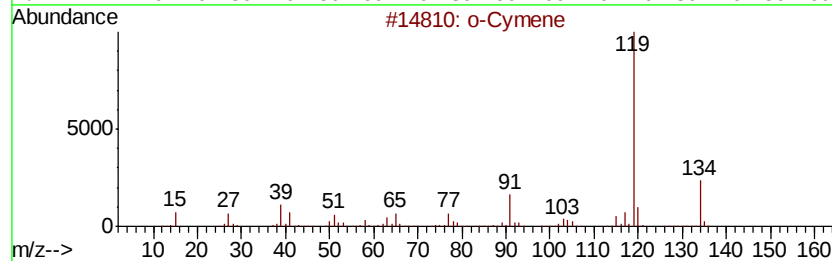
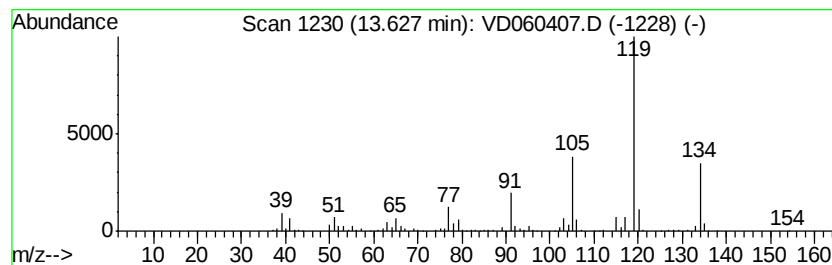
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 o-Cymene Concentration Rank 5

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 13.63   | 9.29 ug/l | 561086                              | 1,4-Dichlorobenzene-d4 | 13.38          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | o-Cymene                            | 134 C10H14             | 000527-84-4 94 |
| 2       |           | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14             | 000535-77-3 94 |
| 3       |           | p-Cymene                            | 134 C10H14             | 000099-87-6 93 |
| 4       |           | Benzene, 2-ethyl-1,4-dimethyl-      | 134 C10H14             | 001758-88-9 91 |
| 5       |           | Benzene, 1-ethyl-2,3-dimethyl-      | 134 C10H14             | 000933-98-2 91 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

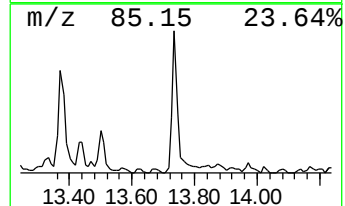
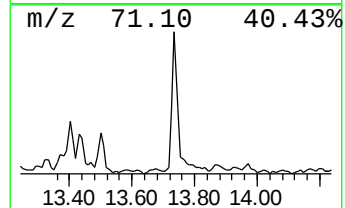
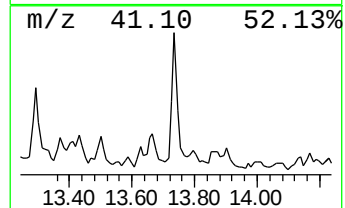
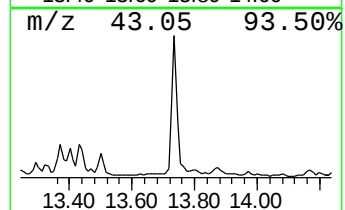
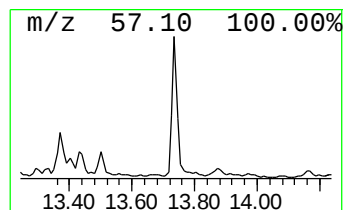
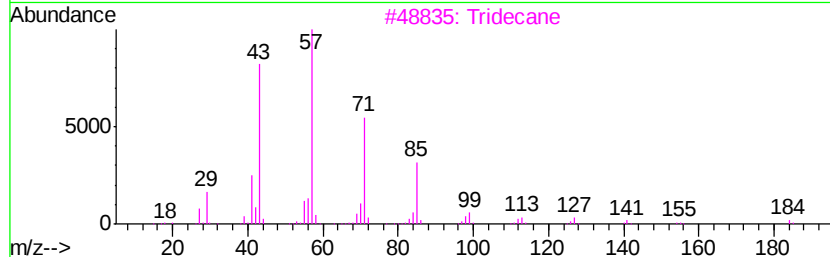
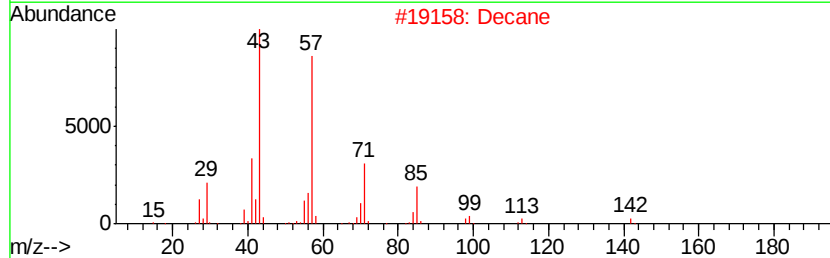
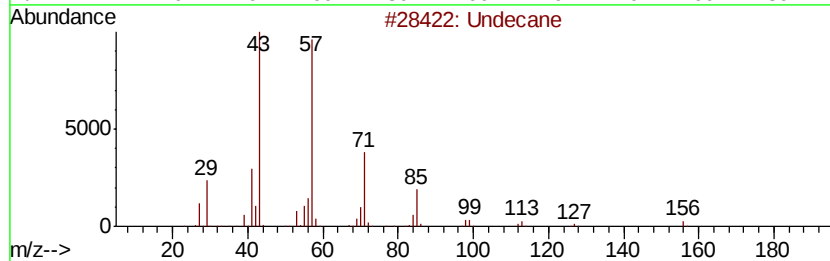
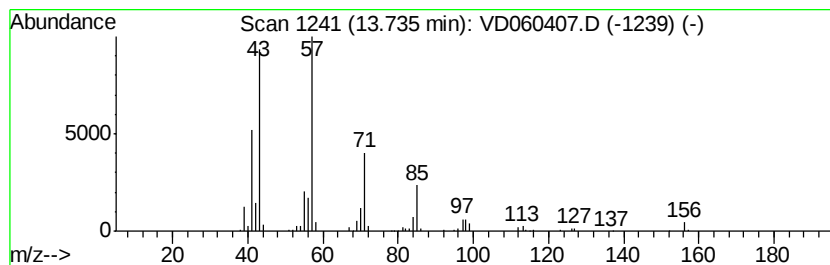
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 Undecane Concentration Rank 3

| R.T.    | EstConc               | Area         | Relative to ISTD       | R.T.      |
|---------|-----------------------|--------------|------------------------|-----------|
| 13.74   | 11.03 ug/l            | 665905       | 1,4-Dichlorobenzene-d4 | 13.38     |
| Hit# of | 5                     | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Undecane              | 156 C11H24   | 001120-21-4            | 95        |
| 2       | Decane                | 142 C10H22   | 000124-18-5            | 86        |
| 3       | Tridecane             | 184 C13H28   | 000629-50-5            | 78        |
| 4       | Hexadecane            | 226 C16H34   | 000544-76-3            | 64        |
| 5       | Decane, 2,4-dimethyl- | 170 C12H26   | 002801-84-5            | 50        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

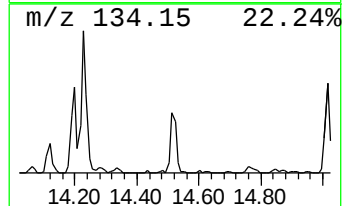
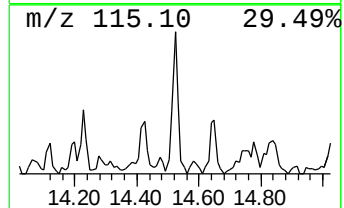
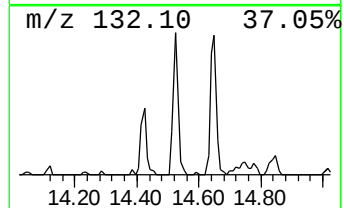
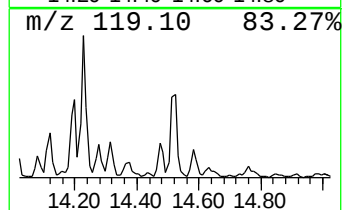
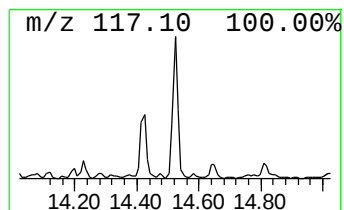
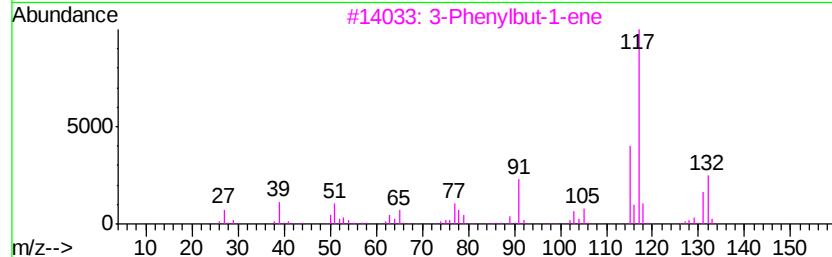
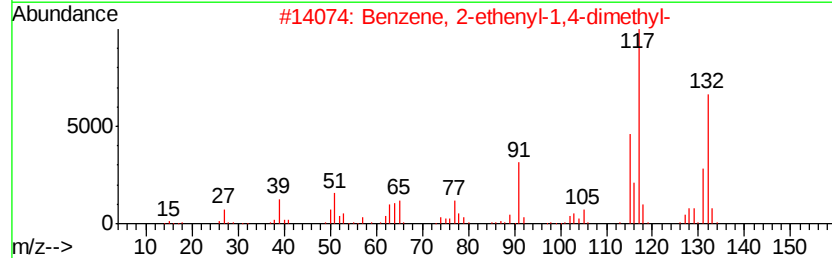
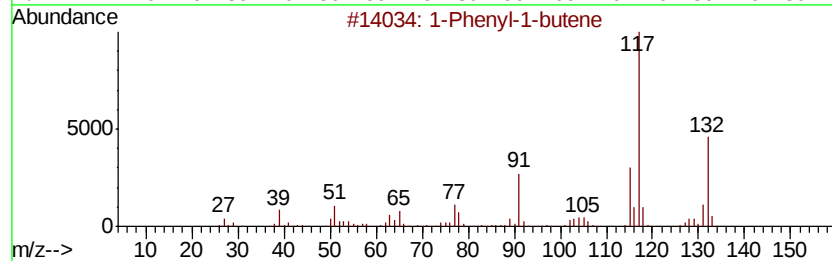
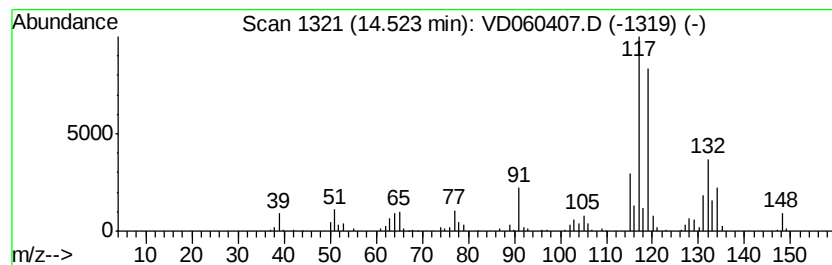
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 10 1-Phenyl-1-butene Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.52 | 6.05 ug/l | 365156 | 1,4-Dichlorobenzene-d4 | 13.38 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Phenyl-1-butene                   | 132 | C10H12  | 000824-90-8 | 87   |
| 2    |    |   | Benzene, 2-ethenyl-1,4-dimethyl-    | 132 | C10H12  | 002039-89-6 | 83   |
| 3    |    |   | 3-Phenylbut-1-ene                   | 132 | C10H12  | 000934-10-1 | 55   |
| 4    |    |   | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3 | 55   |
| 5    |    |   | Benzene, 1-ethenyl-4-ethyl-         | 132 | C10H12  | 003454-07-7 | 55   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD111618\  
Data File : VD060407.D  
Acq On : 16 Nov 2018 19:28  
Operator : JC/SY  
Sample : J5970-04  
Misc : 6.89g/5ml/MSVOA\_D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-GF-02-028-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.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 |
| Nonane               | 11.63 | 24.6    | ug/l  | 1824830  | 3                     | 11.29 | 3713920 | 50.0 |
| Octane, 2,6-dimet... | 12.09 | 5.8     | ug/l  | 429156   | 3                     | 11.29 | 3713920 | 50.0 |
| Cyclohexane, propyl- | 12.19 | 10.2    | ug/l  | 756147   | 3                     | 11.29 | 3713920 | 50.0 |
| Undecane, 5,6-dim... | 12.36 | 6.7     | ug/l  | 407223   | 4                     | 13.38 | 3019670 | 50.0 |
| Benzene, 1-ethyl-... | 12.71 | 12.2    | ug/l  | 738314   | 4                     | 13.38 | 3019670 | 50.0 |
| Benzene, 1-ethyl-... | 12.95 | 7.1     | ug/l  | 427149   | 4                     | 13.38 | 3019670 | 50.0 |
| o-Cymene             | 13.63 | 9.3     | ug/l  | 561086   | 4                     | 13.38 | 3019670 | 50.0 |
| Undecane             | 13.74 | 11.0    | ug/l  | 665905   | 4                     | 13.38 | 3019670 | 50.0 |
| 1-Phenyl-1-butene    | 14.52 | 6.0     | ug/l  | 365156   | 4                     | 13.38 | 3019670 | 50.0 |