

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
 Data File : VF060734.D  
 Acq On : 14 Nov 2018 19:52  
 Operator : VA/AP  
 Sample : J5915-01  
 Misc : 5.02g/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-1

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\_F\METHODS\82F111318S.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         | 4.089       | 345           | 351         | 362          | rVB2     | 84378          | 263720        | 3.06%           | 0.233%        |
| 2         | 4.838       | 417           | 427         | 440          | rBV2     | 169389         | 626416        | 7.26%           | 0.554%        |
| 3         | 5.578       | 496           | 502         | 512          | rBV      | 210333         | 585007        | 6.78%           | 0.517%        |
| 4         | 7.008       | 642           | 647         | 655          | rVB4     | 29291          | 103767        | 1.20%           | 0.092%        |
| 5         | 7.531       | 690           | 700         | 706          | rBV2     | 287169         | 792751        | 9.18%           | 0.701%        |
| 6         | 7.610       | 706           | 708         | 716          | rVV2     | 34423          | 93837         | 1.09%           | 0.083%        |
| 7         | 8.261       | 765           | 774         | 780          | rBV      | 227866         | 572582        | 6.63%           | 0.506%        |
| 8         | 8.439       | 780           | 792         | 800          | rBV3     | 97684          | 410850        | 4.76%           | 0.363%        |
| 9         | 8.597       | 803           | 808         | 813          | rBV      | 252660         | 743476        | 8.61%           | 0.657%        |
| 10        | 8.823       | 826           | 831         | 838          | rVB2     | 84832          | 238825        | 2.77%           | 0.211%        |
| 11        | 8.942       | 838           | 843         | 848          | rBV2     | 227115         | 595609        | 6.90%           | 0.526%        |
| 12        | 9.031       | 848           | 852         | 856          | rVB      | 41135          | 104492        | 1.21%           | 0.092%        |
| 13        | 9.198       | 865           | 869         | 873          | rBV6     | 31300          | 99460         | 1.15%           | 0.088%        |
| 14        | 9.396       | 883           | 889         | 893          | rBV4     | 57084          | 144519        | 1.67%           | 0.128%        |
| 15        | 9.514       | 893           | 901         | 907          | rBV3     | 122649         | 400597        | 4.64%           | 0.354%        |
| 16        | 9.672       | 913           | 917         | 920          | rBV3     | 52735          | 132511        | 1.54%           | 0.117%        |
| 17        | 9.751       | 920           | 925         | 930          | rVB2     | 380958         | 936788        | 10.85%          | 0.828%        |
| 18        | 9.958       | 941           | 946         | 951          | rVB3     | 73350          | 182548        | 2.12%           | 0.161%        |
| 19        | 10.047      | 951           | 955         | 961          | rVB3     | 72071          | 184708        | 2.14%           | 0.163%        |
| 20        | 10.214      | 965           | 972         | 980          | rBV2     | 464079         | 1561624       | 18.09%          | 1.380%        |
| 21        | 10.333      | 980           | 984         | 989          | rBV      | 201982         | 457125        | 5.30%           | 0.404%        |
| 22        | 10.500      | 994           | 1001        | 1004         | rBV2     | 465172         | 1198827       | 13.89%          | 1.059%        |
| 23        | 10.550      | 1004          | 1006        | 1008         | rVB      | 68461          | 94674         | 1.10%           | 0.084%        |
| 24        | 10.599      | 1008          | 1011        | 1012         | rBV2     | 69017          | 118808        | 1.38%           | 0.105%        |
| 25        | 10.658      | 1012          | 1017        | 1022         | rBV2     | 810135         | 1844887       | 21.37%          | 1.630%        |
| 26        | 10.767      | 1024          | 1028        | 1030         | rBV      | 231768         | 480560        | 5.57%           | 0.425%        |
| 27        | 10.816      | 1030          | 1033        | 1036         | rVB      | 334024         | 507711        | 5.88%           | 0.449%        |
| 28        | 10.925      | 1040          | 1044        | 1048         | rVB4     | 208530         | 577514        | 6.69%           | 0.510%        |
| 29        | 11.033      | 1048          | 1055        | 1060         | rBV5     | 365699         | 1048894       | 12.15%          | 0.927%        |
| 30        | 11.112      | 1060          | 1063        | 1064         | rBV2     | 117651         | 196387        | 2.28%           | 0.174%        |
| 31        | 11.250      | 1068          | 1077        | 1081         | rVB4     | 811372         | 2413354       | 27.96%          | 2.133%        |
| 32        | 11.428      | 1085          | 1095        | 1098         | rBV5     | 490174         | 2281351       | 26.43%          | 2.016%        |
| 33        | 11.477      | 1098          | 1100        | 1103         | rVB2     | 437458         | 739220        | 8.56%           | 0.653%        |
| 34        | 11.536      | 1103          | 1106        | 1109         | rVB      | 363537         | 533848        | 6.19%           | 0.472%        |

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 Sample : J5915-01  
 Misc : 5.02g/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-1

## 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\_F\METHODS\82F111318S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.605 | 1109 | 1113 | 1116 | rBV2 | 332920  | 613807  | 7.11%  | 0.542% |
| 36 | 11.664 | 1116 | 1119 | 1121 | rBV2 | 274694  | 456470  | 5.29%  | 0.403% |
| 37 | 11.714 | 1121 | 1124 | 1126 | rBV3 | 223965  | 386878  | 4.48%  | 0.342% |
| 38 | 11.763 | 1126 | 1129 | 1131 | rVB2 | 391016  | 629823  | 7.30%  | 0.557% |
| 39 | 11.812 | 1131 | 1134 | 1136 | rVB2 | 192364  | 261988  | 3.04%  | 0.232% |
| 40 | 11.871 | 1137 | 1140 | 1143 | rBV2 | 358642  | 715766  | 8.29%  | 0.633% |
| 41 | 11.941 | 1143 | 1147 | 1149 | rBV2 | 659518  | 1348606 | 15.63% | 1.192% |
| 42 | 11.990 | 1149 | 1152 | 1156 | rVB  | 2005420 | 3686797 | 42.72% | 3.258% |
| 43 | 12.059 | 1156 | 1159 | 1164 | rBV2 | 659349  | 1435786 | 16.64% | 1.269% |
| 44 | 12.138 | 1164 | 1167 | 1171 | rBV3 | 1018846 | 2587638 | 29.98% | 2.287% |
| 45 | 12.197 | 1171 | 1173 | 1176 | rVB2 | 577479  | 841447  | 9.75%  | 0.744% |
| 46 | 12.276 | 1178 | 1181 | 1184 | rBV4 | 574995  | 939805  | 10.89% | 0.831% |
| 47 | 12.325 | 1184 | 1186 | 1188 | rBV2 | 288857  | 383704  | 4.45%  | 0.339% |
| 48 | 12.375 | 1188 | 1191 | 1193 | rBV5 | 508525  | 898148  | 10.41% | 0.794% |
| 49 | 12.414 | 1193 | 1195 | 1198 | rVB2 | 437403  | 627071  | 7.27%  | 0.554% |
| 50 | 12.483 | 1199 | 1202 | 1205 | rBV4 | 262911  | 576482  | 6.68%  | 0.509% |
| 51 | 12.592 | 1210 | 1213 | 1216 | rBV  | 1861383 | 3032375 | 35.13% | 2.680% |
| 52 | 12.661 | 1217 | 1220 | 1222 | rBV3 | 217101  | 508660  | 5.89%  | 0.450% |
| 53 | 12.730 | 1224 | 1227 | 1229 | rBV2 | 593357  | 964304  | 11.17% | 0.852% |
| 54 | 12.779 | 1229 | 1232 | 1234 | rVB3 | 414935  | 634501  | 7.35%  | 0.561% |
| 55 | 12.838 | 1234 | 1238 | 1241 | rVB3 | 636968  | 1323189 | 15.33% | 1.169% |
| 56 | 12.927 | 1244 | 1247 | 1248 | rBV2 | 789434  | 1212930 | 14.05% | 1.072% |
| 57 | 13.006 | 1252 | 1255 | 1258 | rVB2 | 1383543 | 2523561 | 29.24% | 2.230% |
| 58 | 13.065 | 1258 | 1261 | 1262 | rBV2 | 533322  | 716622  | 8.30%  | 0.633% |
| 59 | 13.105 | 1262 | 1265 | 1267 | rBV2 | 1208725 | 1812350 | 21.00% | 1.602% |
| 60 | 13.144 | 1267 | 1269 | 1270 | rVB  | 379801  | 397490  | 4.61%  | 0.351% |
| 61 | 13.193 | 1270 | 1274 | 1277 | rVB2 | 1403880 | 2968202 | 34.39% | 2.623% |
| 62 | 13.243 | 1277 | 1279 | 1281 | rVB2 | 817065  | 965337  | 11.18% | 0.853% |
| 63 | 13.292 | 1281 | 1284 | 1286 | rBV3 | 823320  | 1886092 | 21.85% | 1.667% |
| 64 | 13.331 | 1286 | 1288 | 1290 | rVV3 | 675313  | 794988  | 9.21%  | 0.703% |
| 65 | 13.371 | 1290 | 1292 | 1294 | rVB3 | 1861684 | 2486696 | 28.81% | 2.198% |
| 66 | 13.440 | 1294 | 1299 | 1301 | rBV5 | 450115  | 959187  | 11.11% | 0.848% |
| 67 | 13.489 | 1301 | 1304 | 1306 | rBV  | 949298  | 1296282 | 15.02% | 1.146% |
| 68 | 13.548 | 1306 | 1310 | 1316 | rVB4 | 995397  | 3347246 | 38.78% | 2.958% |
| 69 | 13.627 | 1316 | 1318 | 1320 | rBV  | 839534  | 1440229 | 16.69% | 1.273% |
| 70 | 13.657 | 1320 | 1321 | 1323 | rBV  | 381321  | 464030  | 5.38%  | 0.410% |
| 71 | 13.726 | 1323 | 1328 | 1331 | rBV6 | 1025004 | 3112350 | 36.06% | 2.751% |

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Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-1

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 13.844 | 1337 | 1340 | 1344 | rBV  | 4568389 | 8631078 | 100.00% | 7.628% |
| 73 | 13.903 | 1344 | 1346 | 1349 | rVB2 | 1434581 | 2510705 | 29.09%  | 2.219% |
| 74 | 14.002 | 1354 | 1356 | 1358 | rBV2 | 695994  | 1195014 | 13.85%  | 1.056% |
| 75 | 14.051 | 1358 | 1361 | 1364 | rVB5 | 427754  | 898689  | 10.41%  | 0.794% |
| 76 | 14.121 | 1365 | 1368 | 1369 | rBV  | 1088421 | 1505798 | 17.45%  | 1.331% |
| 77 | 14.150 | 1369 | 1371 | 1376 | rVB5 | 1455536 | 3190977 | 36.97%  | 2.820% |
| 78 | 14.239 | 1376 | 1380 | 1383 | rBV6 | 602558  | 1483632 | 17.19%  | 1.311% |
| 79 | 14.298 | 1383 | 1386 | 1389 | rBV2 | 3266859 | 5383801 | 62.38%  | 4.758% |
| 80 | 14.347 | 1389 | 1391 | 1395 | rVB3 | 1461414 | 2292793 | 26.56%  | 2.026% |
| 81 | 14.416 | 1396 | 1398 | 1400 | rBV2 | 724225  | 1368030 | 15.85%  | 1.209% |
| 82 | 14.446 | 1400 | 1401 | 1403 | rVB2 | 996930  | 1053268 | 12.20%  | 0.931% |
| 83 | 14.485 | 1403 | 1405 | 1406 | rBV2 | 1073639 | 1323918 | 15.34%  | 1.170% |
| 84 | 14.604 | 1416 | 1417 | 1423 | rVB4 | 1314760 | 2112118 | 24.47%  | 1.867% |
| 85 | 14.900 | 1445 | 1447 | 1449 | rVB  | 596750  | 734588  | 8.51%   | 0.649% |
| 86 | 15.008 | 1453 | 1458 | 1461 | rBV2 | 1919734 | 3747943 | 43.42%  | 3.312% |
| 87 | 15.156 | 1470 | 1473 | 1479 | rVB5 | 1225810 | 2685316 | 31.11%  | 2.373% |
| 88 | 15.314 | 1487 | 1489 | 1493 | rVB3 | 371517  | 727629  | 8.43%   | 0.643% |
| 89 | 15.551 | 1511 | 1513 | 1515 | rBV  | 440781  | 501257  | 5.81%   | 0.443% |
| 90 | 15.797 | 1535 | 1538 | 1543 | rVB3 | 521862  | 973446  | 11.28%  | 0.860% |
| 91 | 16.044 | 1560 | 1563 | 1566 | rVB4 | 82265   | 166353  | 1.93%   | 0.147% |
| 92 | 16.103 | 1566 | 1569 | 1570 | rBV2 | 130322  | 164487  | 1.91%   | 0.145% |

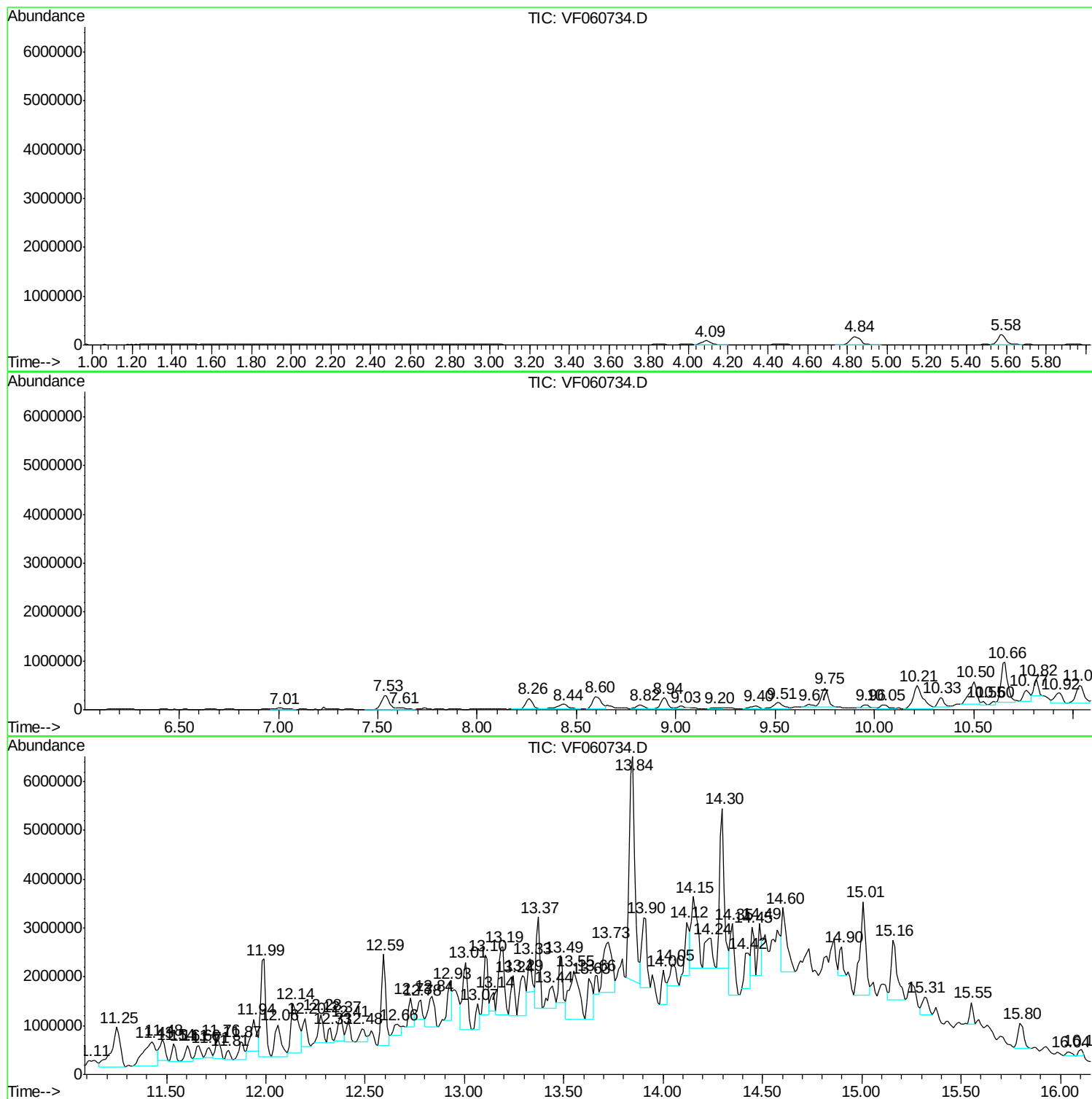
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Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111418\  
Data File : VF060734.D  
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Instrument :  
MSV0A\_F  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111418\  
Data File : VF060734.D  
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Sample : J5915-01  
Misc : 5.02g/5mL/MSV0A-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

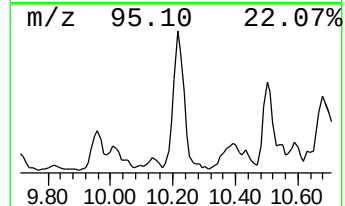
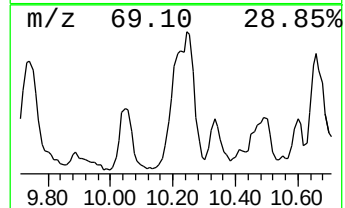
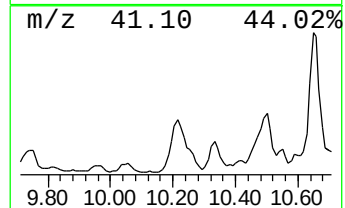
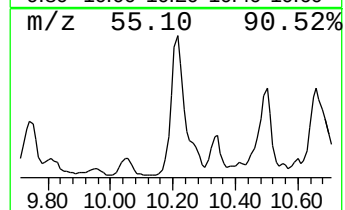
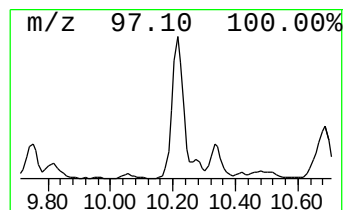
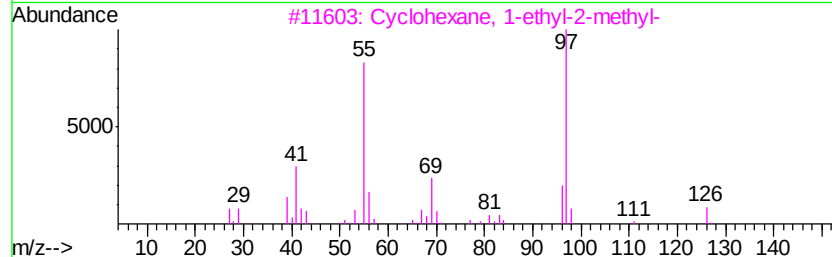
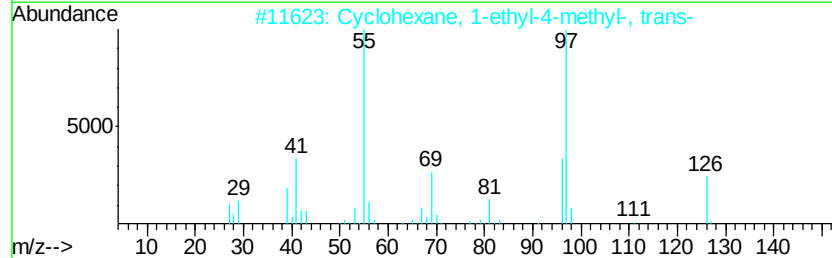
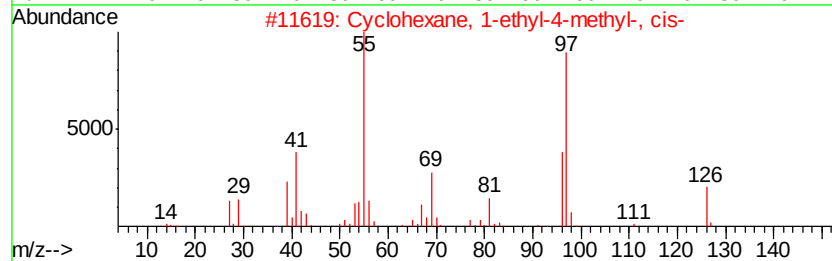
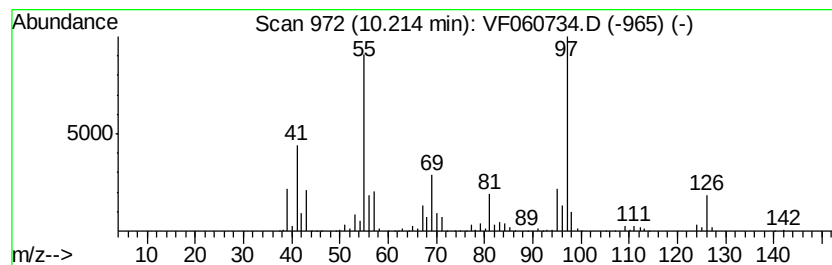
Instrument :  
MSV0A\_F  
ClientSampleId :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Cyclohexane, 1-ethyl-4-meth... Concentration Rank 4

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|------------|-------------------------------------|------------------|---------|-------------|------|
| 10.21   | 83.35 ug/l | 1561620                             | Chlorobenzene-d5 | 9.76    |             |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |            | Cyclohexane, 1-ethyl-4-methyl-, ... | 126              | C9H18   | 004926-78-7 | 81   |
| 2       |            | Cyclohexane, 1-ethyl-4-methyl-, ... | 126              | C9H18   | 006236-88-0 | 81   |
| 3       |            | Cyclohexane, 1-ethyl-2-methyl-      | 126              | C9H18   | 003728-54-9 | 81   |
| 4       |            | Cyclohexane, 1-ethyl-2-methyl-, ... | 126              | C9H18   | 004923-78-8 | 76   |
| 5       |            | 1-Ethyl-4-methylcyclohexane         | 126              | C9H18   | 003728-56-1 | 68   |



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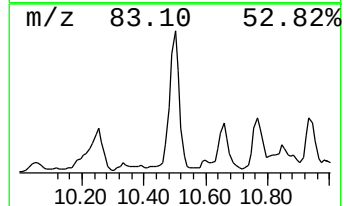
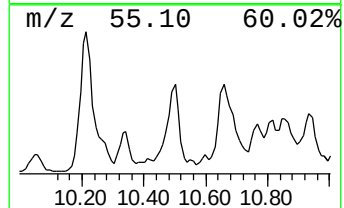
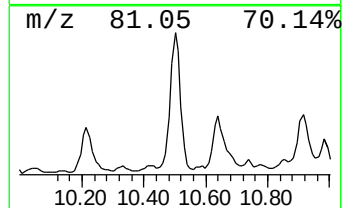
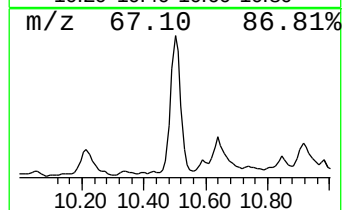
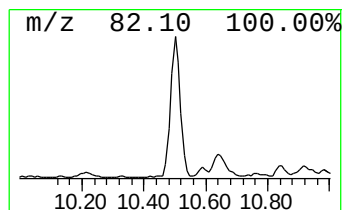
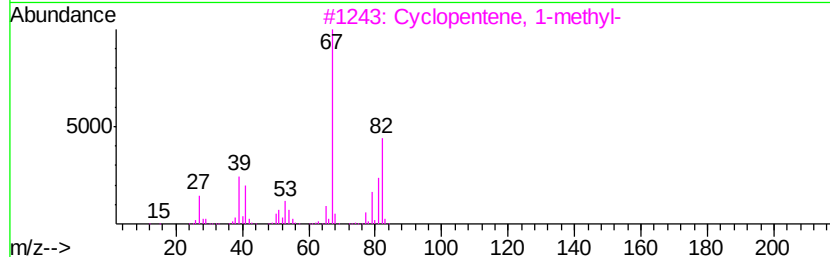
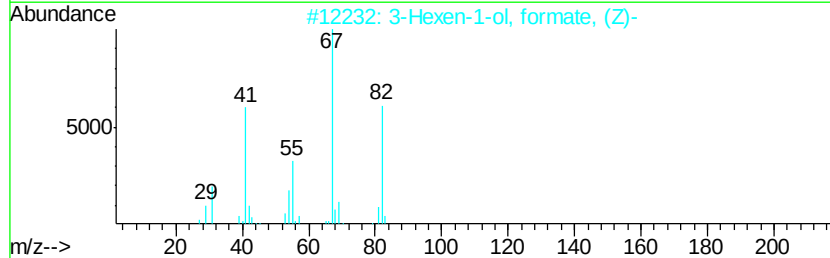
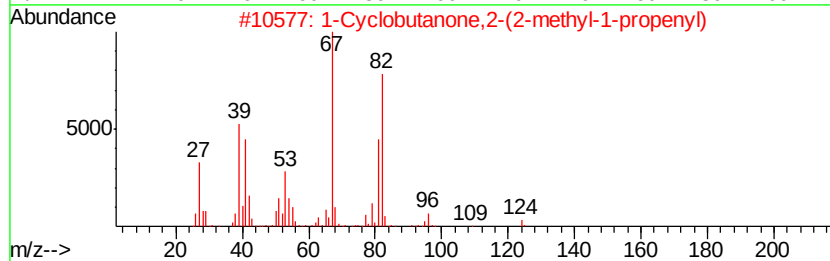
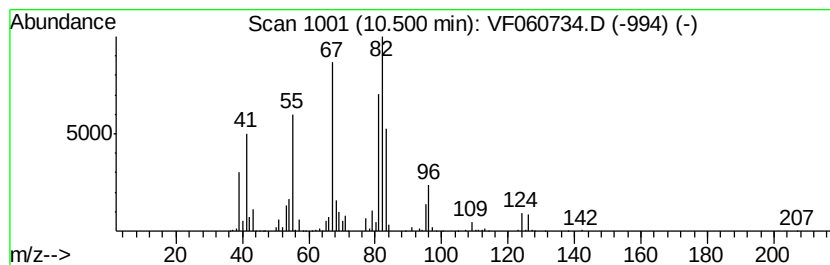
Instrument :  
MSVOA\_F  
ClientSampled :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 2 1-Cyclobutanone,2-(2-methyl... Concentration Rank 5

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.    |             |      |
|---------|------------|-------------------------------------|------------------|---------|-------------|------|
| 10.50   | 63.99 ug/l | 1198830                             | Chlorobenzene-d5 | 9.76    |             |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |            | 1-Cyclobutanone,2-(2-methyl-1-pr... | 124              | C8H12O  | 091531-45-2 | 53   |
| 2       |            | 3-Hexen-1-ol, formate, (Z)-         | 128              | C7H12O2 | 033467-73-1 | 50   |
| 3       |            | Cyclopentene, 1-methyl-             | 82               | C6H10   | 000693-89-0 | 50   |
| 4       |            | 2,4-Hexadiene, (E,Z)-               | 82               | C6H10   | 005194-50-3 | 50   |
| 5       |            | Carbonic acid, 3-hexenyl methyl ... | 158              | C8H14O3 | 067633-96-9 | 50   |



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Misc : 5.02g/5mL/MSV0A-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

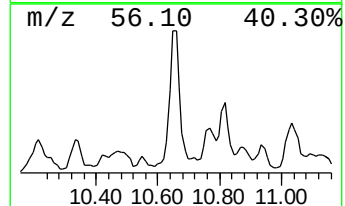
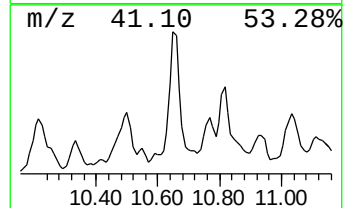
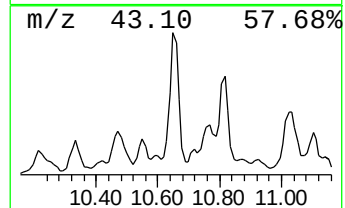
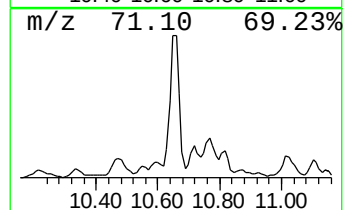
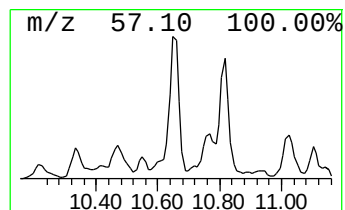
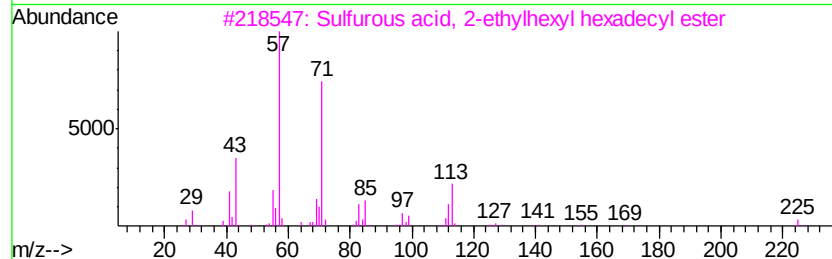
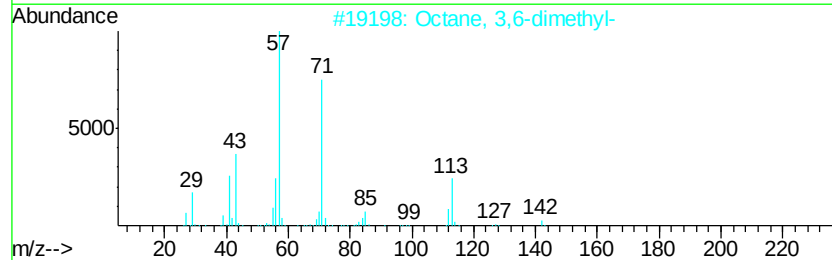
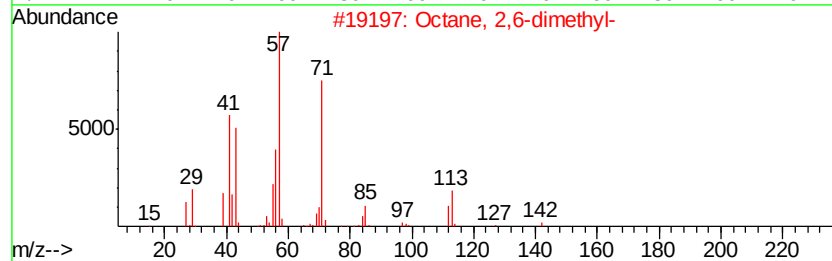
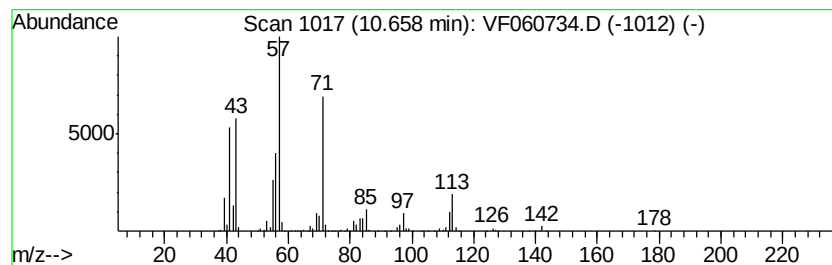
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MSV0A\_F  
ClientSampleId :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.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 2

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 10.66   | 98.47 ug/l                          | 1844890      | Chlorobenzene-d5 | 9.76         |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Octane, 2,6-dimethyl-               | 142          | C10H22           | 002051-30-1  | 95   |      |
| 2       | Octane, 3,6-dimethyl-               | 142          | C10H22           | 015869-94-0  | 76   |      |
| 3       | Sulfurous acid, 2-ethylhexyl hex... | 418          | C24H50O3S        | 1000309-19-9 | 53   |      |
| 4       | Sulfurous acid, 2-ethylhexyl non... | 320          | C17H36O3S        | 1000309-19-2 | 52   |      |
| 5       | Sulfurous acid, 2-ethylhexyl hex... | 278          | C14H30O3S        | 1000309-20-2 | 47   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSVOA-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

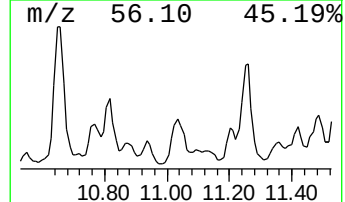
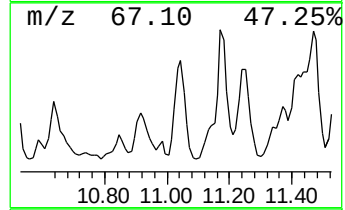
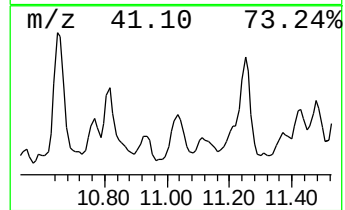
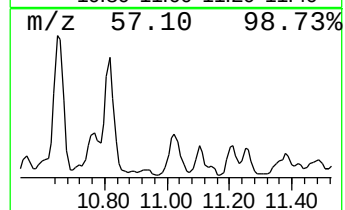
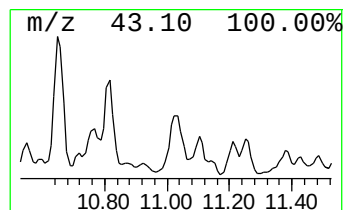
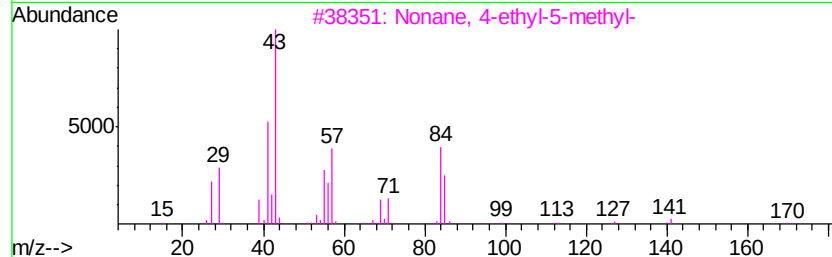
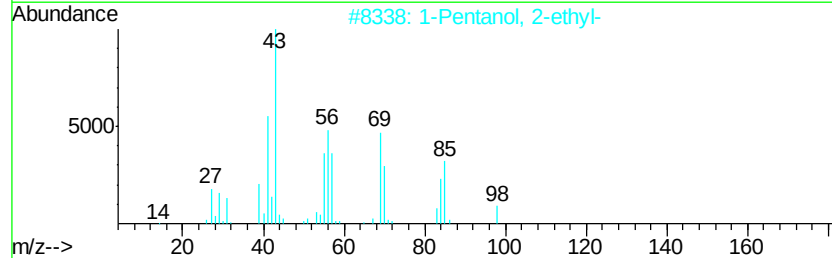
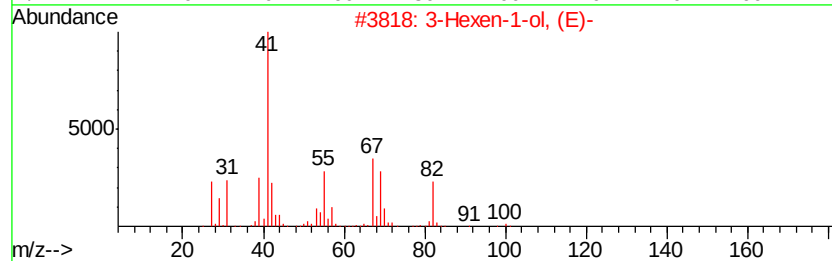
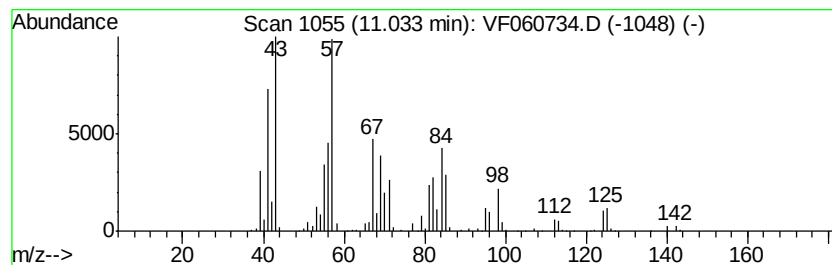
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown11.03 Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T. |
|-------|------------|---------|------------------|------|
| 11.03 | 55.98 ug/l | 1048890 | Chlorobenzene-d5 | 9.76 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Hexen-1-ol, (E)-                  | 100 | C6H12O  | 000928-97-2 | 35   |
| 2    |    | 1-Pentanol, 2-ethyl-                | 116 | C7H16O  | 027522-11-8 | 22   |
| 3    |    | Nonane, 4-ethyl-5-methyl-           | 170 | C12H26  | 001632-71-9 | 22   |
| 4    |    | Cyclopropane, 1-ethyl-2-methyl-,... | 84  | C6H12   | 019781-68-1 | 22   |
| 5    |    | 1,6-Heptadiene, 2,5-dimethyl-       | 124 | C9H16   | 068701-90-6 | 22   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSVOA-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

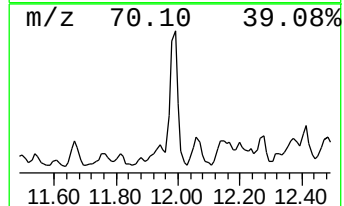
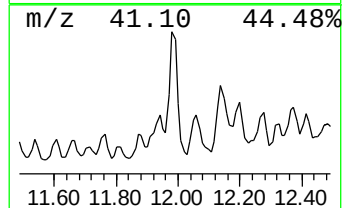
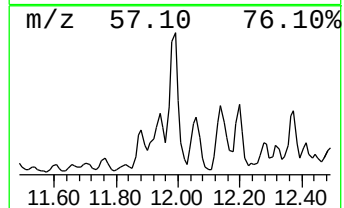
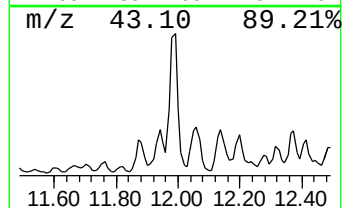
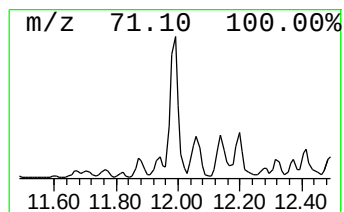
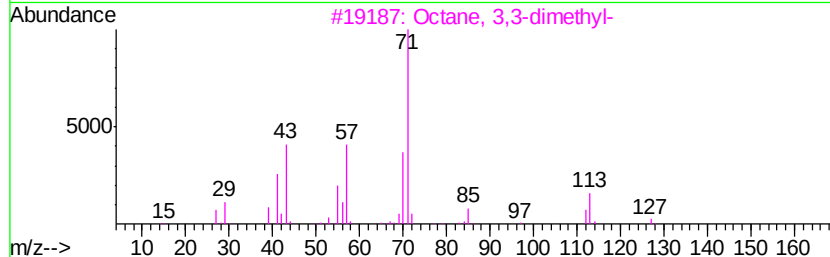
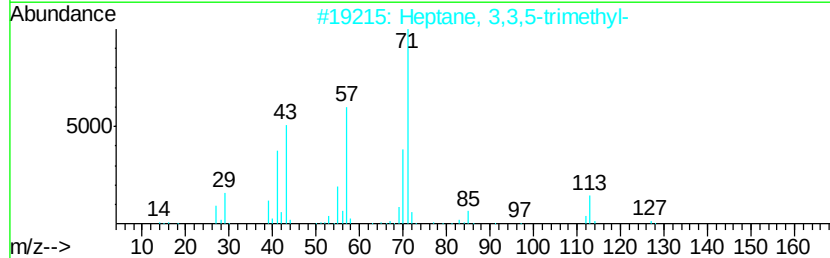
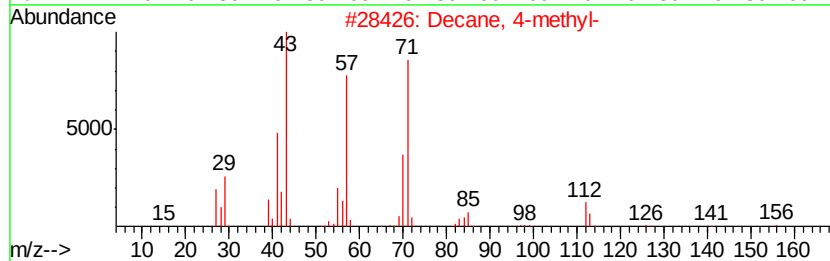
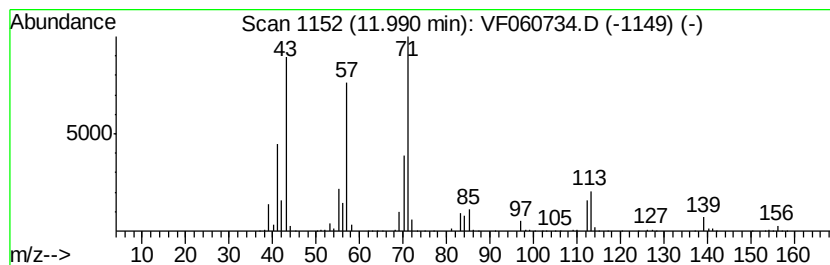
Instrument :  
MSVOA\_F  
ClientSampled :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Decane, 4-methyl- Concentration Rank 7

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 11.99   | 60.79 ug/l                          | 3686800      | 1,4-Dichlorobenzene-d4 | 12.54     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Decane, 4-methyl-                   | 156 C11H24   | 002847-72-5            | 87        |
| 2       | Heptane, 3,3,5-trimethyl-           | 142 C10H22   | 007154-80-5            | 78        |
| 3       | Octane, 3,3-dimethyl-               | 142 C10H22   | 004110-44-5            | 72        |
| 4       | Oxalic acid, 2-ethylhexyl pentyl... | 272 C15H28O4 | 1000309-38-7           | 64        |
| 5       | Heptane, 2,5,5-trimethyl-           | 142 C10H22   | 001189-99-7            | 59        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSVOA-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

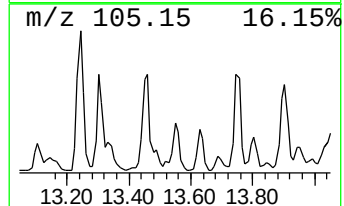
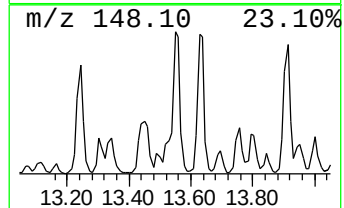
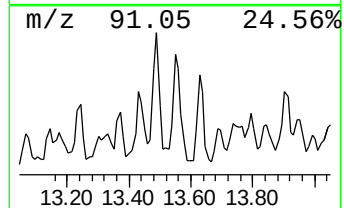
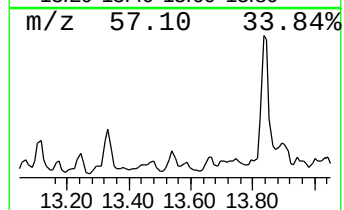
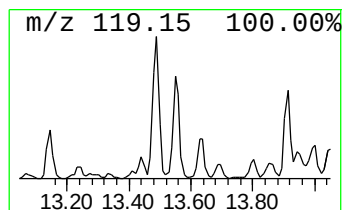
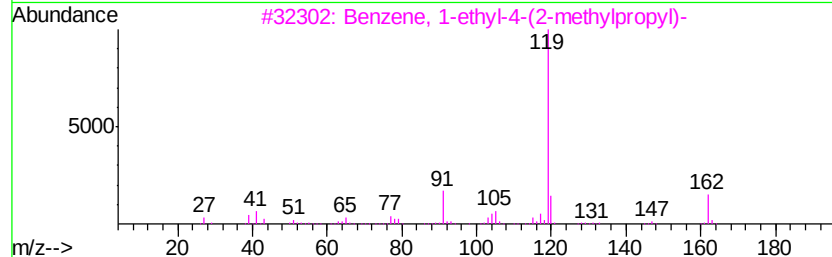
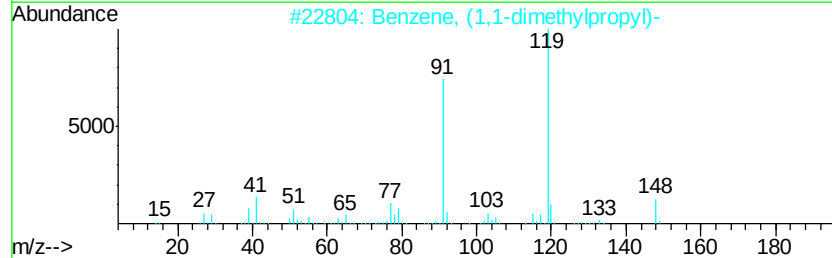
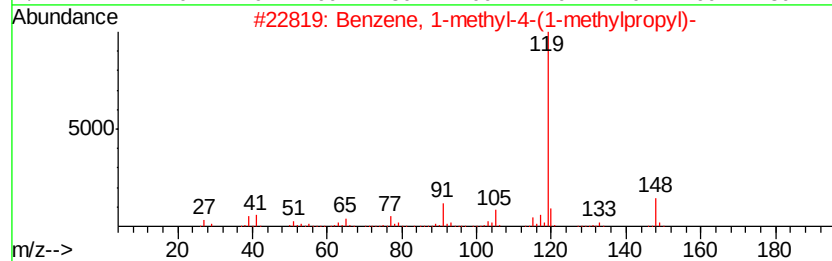
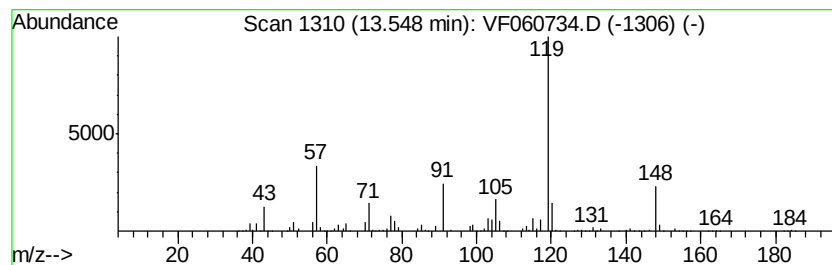
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1-methyl-4-(1-meth... Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.55 | 55.19 ug/l | 3347250 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 87   |
| 2    |    | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 64   |
| 3    |    | Benzene, 1-ethyl-4-(2-methylprop... | 162 | C12H18  | 100319-40-2 | 64   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 64   |
| 5    |    | Benzene, 1,4-dimethyl-2-(2-methy... | 162 | C12H18  | 055669-88-0 | 62   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSVOA-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

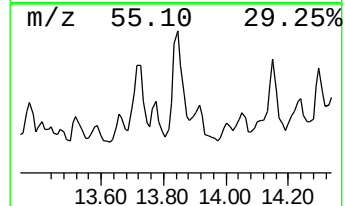
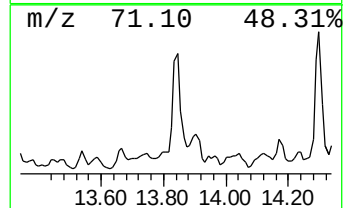
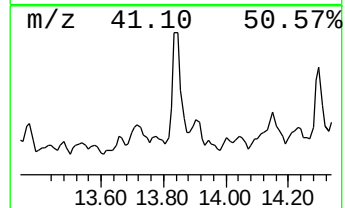
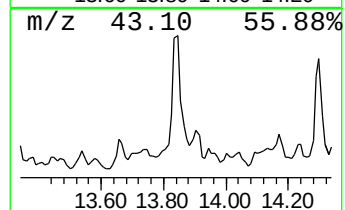
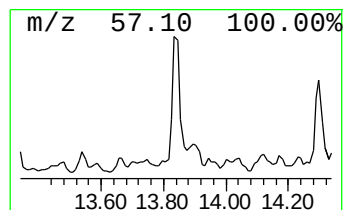
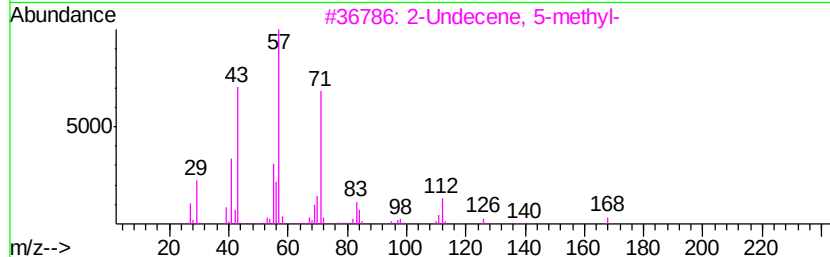
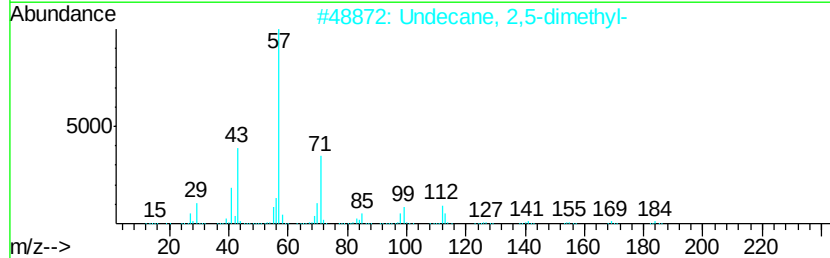
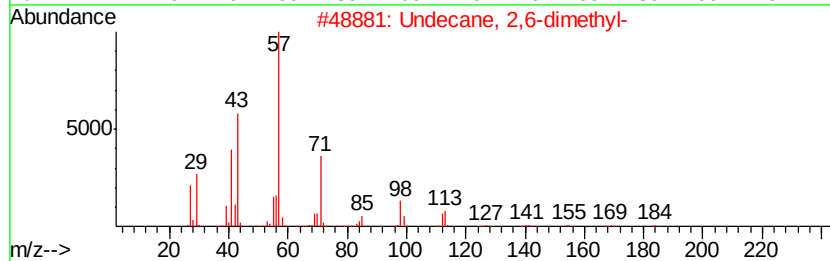
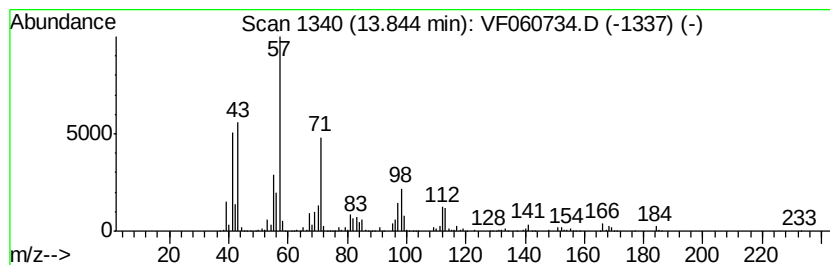
Instrument :  
MSVOA\_F  
ClientSampled :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 7 Undecane, 2,6-dimethyl- Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 13.84   | 142.32 ug/l                         | 8631080      | 1,4-Dichlorobenzene-d4 | 12.54     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Undecane, 2,6-dimethyl-             | 184 C13H28   | 017301-23-4            | 76        |
| 2       | Undecane, 2,5-dimethyl-             | 184 C13H28   | 017301-22-3            | 60        |
| 3       | 2-Undecene, 5-methyl-               | 168 C12H24   | 056851-34-4            | 58        |
| 4       | Nonane, 3-methyl-                   | 142 C10H22   | 005911-04-6            | 50        |
| 5       | Pentadecane, 2,6,10,14-tetramethyl- | 268 C19H40   | 001921-70-6            | 47        |



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSV0A-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

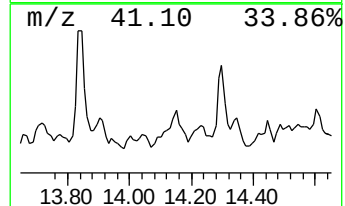
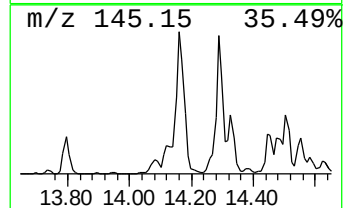
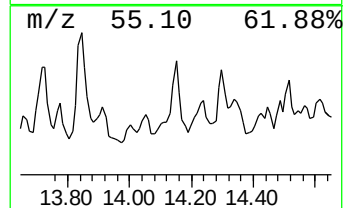
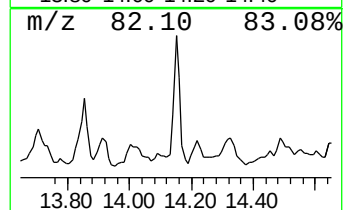
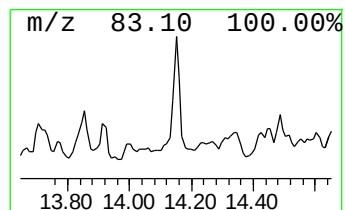
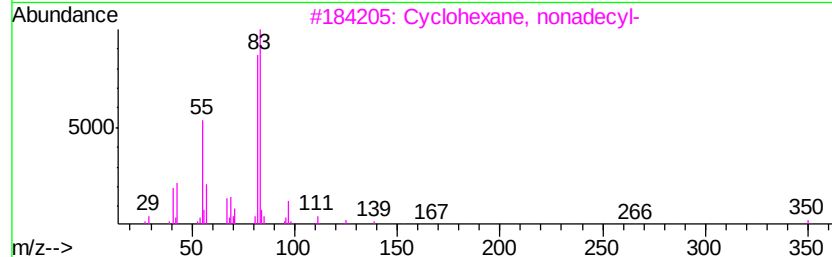
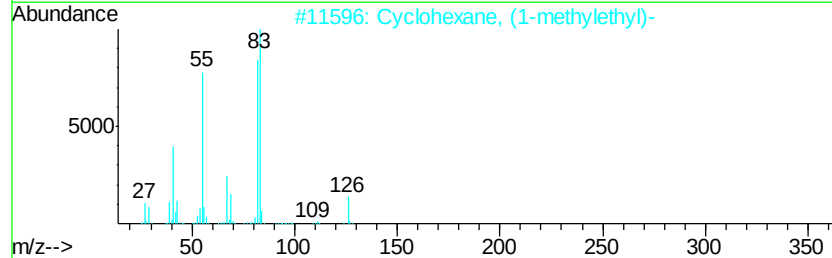
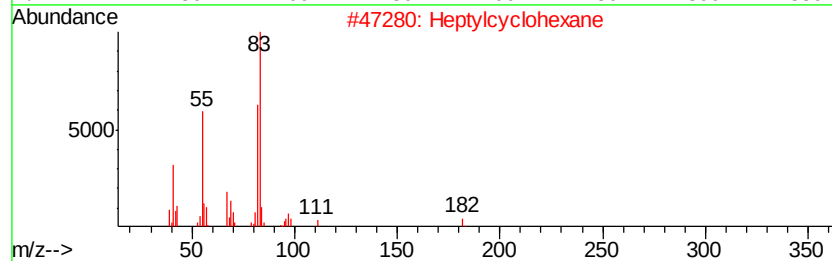
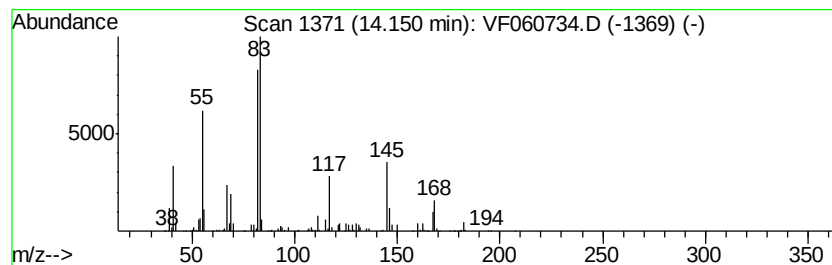
Instrument :  
MSV0A\_F  
ClientSampled :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 8 Heptylcyclohexane Concentration Rank 10

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.15   | 52.62 ug/l                          | 3190980      | 1,4-Dichlorobenzene-d4 | 12.54     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Heptylcyclohexane                   | 182 C13H26   | 005617-41-4            | 58        |
| 2       | Cyclohexane, (1-methylethyl)-       | 126 C9H18    | 000696-29-7            | 53        |
| 3       | Cyclohexane, nonadecyl-             | 350 C25H50   | 022349-03-7            | 50        |
| 4       | (Z)-Hex-3-enyl (E)-2-methylbut-2... | 182 C11H18O2 | 1000373-73-0           | 47        |
| 5       | Cyclohexane, propyl-                | 126 C9H18    | 001678-92-8            | 43        |



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSV0A-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

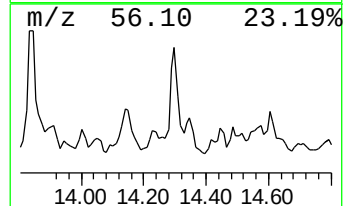
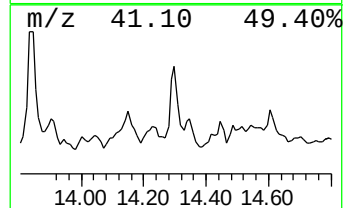
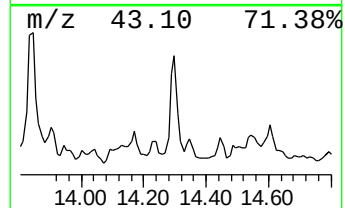
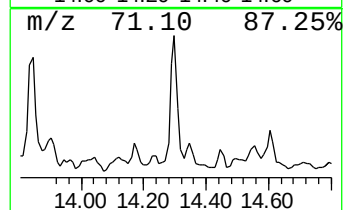
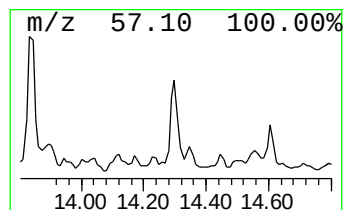
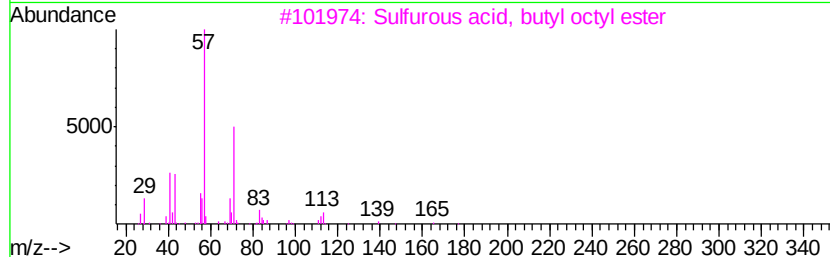
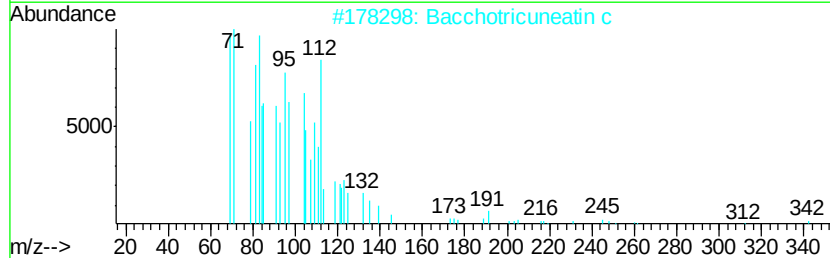
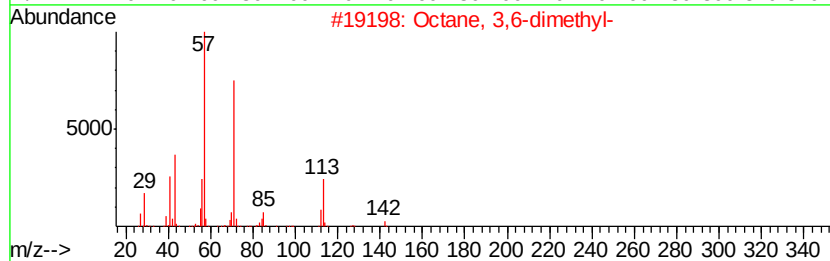
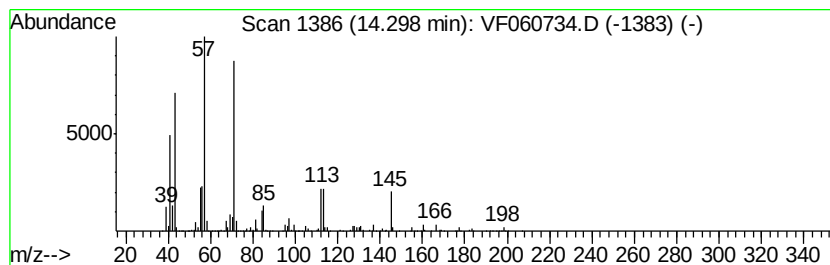
Instrument :  
MSV0A\_F  
ClientSampleId :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.            |
|---------|------------|-------------------------------------|------------------------|-----------------|
| 14.30   | 88.77 ug/l | 5383800                             | 1,4-Dichlorobenzene-d4 | 12.54           |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |            | Octane, 3,6-dimethyl-               | 142 C10H22             | 015869-94-0 59  |
| 2       |            | Bacchotricuneatin c                 | 342 C20H22O5           | 066563-30-2 58  |
| 3       |            | Sulfurous acid, butyl octyl ester   | 250 C12H26O3S          | 1000309-17-5 53 |
| 4       |            | Octane, 2-bromo-                    | 192 C8H17Br            | 000557-35-7 50  |
| 5       |            | Oxalic acid, 2-ethylhexyl nonyl ... | 328 C19H36O4           | 1000309-39-2 50 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
Data File : VF060734.D  
Acq On : 14 Nov 2018 19:52  
Operator : VA/AP  
Sample : J5915-01  
Misc : 5.02g/5mL/MSVOA-F/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
T-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

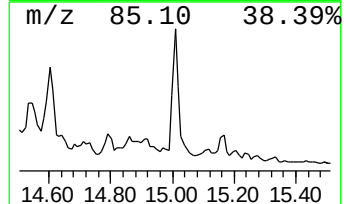
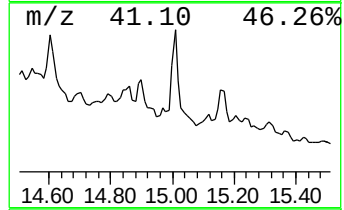
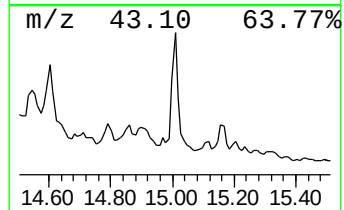
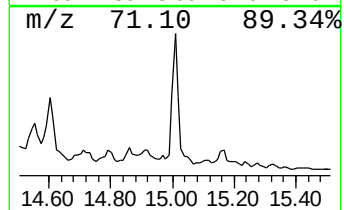
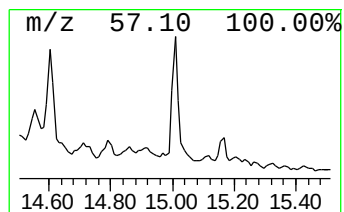
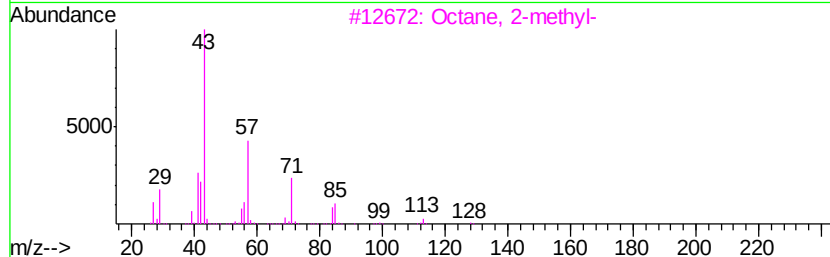
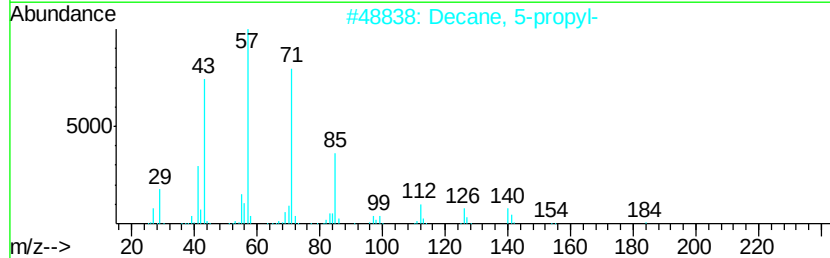
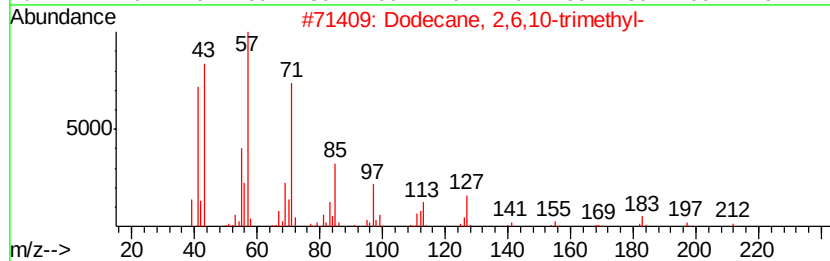
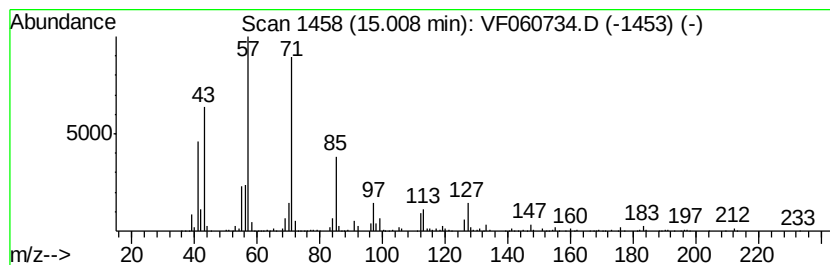
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Dodecane, 2,6,10-trimethyl- Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 15.01 | 61.80 ug/l | 3747940 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------|-----|----------|-------------|------|
| 1    | 5  | Dodecane, 2,6,10-trimethyl- | 212 | C15H32   | 003891-98-3 | 93   |
| 2    |    | Decane, 5-propyl-           | 184 | C13H28   | 017312-62-8 | 76   |
| 3    |    | Octane, 2-methyl-           | 128 | C9H20    | 003221-61-2 | 74   |
| 4    |    | Bacchotricuneatin c         | 342 | C20H22O5 | 066563-30-2 | 68   |
| 5    |    | Dodecane, 4,6-dimethyl-     | 198 | C14H30   | 061141-72-8 | 62   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF111418\  
 Data File : VF060734.D  
 Acq On : 14 Nov 2018 19:52  
 Operator : VA/AP  
 Sample : J5915-01  
 Misc : 5.02g/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.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 |
| Cyclohexane, 1-et... | 10.21 | 83.3    | ug/l  | 1561620  | 3                     | 9.76  | 936788  | 50.0 |
| 1-Cyclobutanone,2... | 10.50 | 64.0    | ug/l  | 1198830  | 3                     | 9.76  | 936788  | 50.0 |
| Octane, 2,6-dimet... | 10.66 | 98.5    | ug/l  | 1844890  | 3                     | 9.76  | 936788  | 50.0 |
| unknown11.03         | 11.03 | 56.0    | ug/l  | 1048890  | 3                     | 9.76  | 936788  | 50.0 |
| Decane, 4-methyl-    | 11.99 | 60.8    | ug/l  | 3686800  | 4                     | 12.54 | 3032380 | 50.0 |
| Benzene, 1-methyl... | 13.55 | 55.2    | ug/l  | 3347250  | 4                     | 12.54 | 3032380 | 50.0 |
| Undecane, 2,6-dim... | 13.84 | 142.3   | ug/l  | 8631080  | 4                     | 12.54 | 3032380 | 50.0 |
| Heptylcyclohexane    | 14.15 | 52.6    | ug/l  | 3190980  | 4                     | 12.54 | 3032380 | 50.0 |
| Octane, 3,6-dimet... | 14.30 | 88.8    | ug/l  | 5383800  | 4                     | 12.54 | 3032380 | 50.0 |
| Dodecane, 2,6,10-... | 15.01 | 61.8    | ug/l  | 3747940  | 4                     | 12.54 | 3032380 | 50.0 |