

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
 Data File : VF060428.D  
 Acq On : 3 Oct 2018 21:29  
 Operator : VA/AP  
 Sample : J5194-03  
 Misc : 6.89/5mL/MSVOA F/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 HR-06-100218-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\_F\METHODS\82F100118S.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         | 1.137       | 44            | 51          | 52           | rBV4     | 11413          | 35540         | 2.46%           | 0.196%        |
| 2         | 2.271       | 162           | 166         | 167          | rBV3     | 25300          | 47091         | 3.26%           | 0.259%        |
| 3         | 4.173       | 351           | 359         | 363          | rBV2     | 12381          | 52395         | 3.62%           | 0.289%        |
| 4         | 4.272       | 363           | 369         | 381          | rVB2     | 263006         | 808673        | 55.94%          | 4.454%        |
| 5         | 5.011       | 436           | 444         | 460          | rBV2     | 429270         | 1445499       | 100.00%         | 7.961%        |
| 6         | 5.741       | 512           | 518         | 529          | rBV      | 457058         | 1208823       | 83.63%          | 6.657%        |
| 7         | 7.692       | 710           | 716         | 721          | rBV      | 510520         | 1241183       | 85.87%          | 6.835%        |
| 8         | 7.751       | 721           | 722         | 728          | rVB2     | 26700          | 45165         | 3.12%           | 0.249%        |
| 9         | 9.900       | 934           | 940         | 947          | rVV      | 537176         | 1200804       | 83.07%          | 6.613%        |
| 10        | 10.009      | 947           | 951         | 958          | rVB6     | 30041          | 85854         | 5.94%           | 0.473%        |
| 11        | 10.245      | 971           | 975         | 980          | rBV      | 42648          | 94948         | 6.57%           | 0.523%        |
| 12        | 10.344      | 982           | 985         | 990          | rBV5     | 8582           | 21755         | 1.51%           | 0.120%        |
| 13        | 10.630      | 1007          | 1014        | 1018         | rVV7     | 5662           | 22353         | 1.55%           | 0.123%        |
| 14        | 10.768      | 1022          | 1028        | 1029         | rBV3     | 15968          | 32776         | 2.27%           | 0.181%        |
| 15        | 10.817      | 1029          | 1033        | 1037         | rVV      | 73905          | 152723        | 10.57%          | 0.841%        |
| 16        | 10.925      | 1041          | 1044        | 1051         | rVV8     | 8035           | 28964         | 2.00%           | 0.160%        |
| 17        | 11.133      | 1059          | 1065        | 1067         | rBV5     | 6437           | 22401         | 1.55%           | 0.123%        |
| 18        | 11.211      | 1070          | 1073        | 1078         | rVV5     | 24022          | 57745         | 3.99%           | 0.318%        |
| 19        | 11.349      | 1085          | 1087        | 1092         | rVB5     | 19778          | 35516         | 2.46%           | 0.196%        |
| 20        | 11.497      | 1098          | 1102        | 1112         | rBV      | 539292         | 930338        | 64.36%          | 5.124%        |
| 21        | 11.635      | 1112          | 1116        | 1118         | rVV3     | 27282          | 58292         | 4.03%           | 0.321%        |
| 22        | 11.675      | 1118          | 1120        | 1123         | rVV      | 55806          | 86156         | 5.96%           | 0.474%        |
| 23        | 11.734      | 1123          | 1126        | 1128         | rVV      | 66797          | 104619        | 7.24%           | 0.576%        |
| 24        | 11.793      | 1128          | 1132        | 1137         | rVV      | 202113         | 422415        | 29.22%          | 2.326%        |
| 25        | 11.901      | 1140          | 1143        | 1147         | rVB      | 180922         | 273955        | 18.95%          | 1.509%        |
| 26        | 12.099      | 1157          | 1163        | 1167         | rVB      | 200944         | 329170        | 22.77%          | 1.813%        |
| 27        | 12.276      | 1178          | 1181        | 1185         | rVV      | 404088         | 573198        | 39.65%          | 3.157%        |
| 28        | 12.375      | 1187          | 1191        | 1196         | rVV      | 59783          | 101170        | 7.00%           | 0.557%        |
| 29        | 12.444      | 1196          | 1198        | 1200         | rVV2     | 14141          | 23037         | 1.59%           | 0.127%        |
| 30        | 12.493      | 1200          | 1203        | 1205         | rVV      | 67890          | 124529        | 8.61%           | 0.686%        |
| 31        | 12.522      | 1205          | 1206        | 1212         | rVB2     | 51503          | 74318         | 5.14%           | 0.409%        |
| 32        | 12.621      | 1212          | 1216        | 1219         | rBV2     | 519935         | 866541        | 59.95%          | 4.772%        |
| 33        | 12.680      | 1219          | 1222        | 1228         | rVV      | 401666         | 610918        | 42.26%          | 3.364%        |
| 34        | 12.798      | 1230          | 1234        | 1236         | rVV3     | 101074         | 208976        | 14.46%          | 1.151%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
 Data File : VF060428.D  
 Acq On : 3 Oct 2018 21:29  
 Operator : VA/AP  
 Sample : J5194-03  
 Misc : 6.89/5mL/MSVOA F/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 HR-06-100218-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\_F\METHODS\82F100118S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 12.838 | 1236 | 1238 | 1240 | rVV  | 178153 | 274356 | 18.98% | 1.511% |
| 36 | 12.897 | 1240 | 1244 | 1248 | rVB3 | 189108 | 519545 | 35.94% | 2.861% |
| 37 | 12.996 | 1251 | 1254 | 1258 | rVV  | 58789  | 95196  | 6.59%  | 0.524% |
| 38 | 13.065 | 1258 | 1261 | 1265 | rVV  | 200738 | 286734 | 19.84% | 1.579% |
| 39 | 13.153 | 1265 | 1270 | 1274 | rVV  | 222062 | 510317 | 35.30% | 2.810% |
| 40 | 13.212 | 1274 | 1276 | 1281 | rVV  | 214264 | 361029 | 24.98% | 1.988% |
| 41 | 13.291 | 1281 | 1284 | 1288 | rVV2 | 89947  | 243769 | 16.86% | 1.342% |
| 42 | 13.350 | 1288 | 1290 | 1294 | rVV2 | 46812  | 115806 | 8.01%  | 0.638% |
| 43 | 13.439 | 1297 | 1299 | 1301 | rVV2 | 29741  | 41801  | 2.89%  | 0.230% |
| 44 | 13.479 | 1301 | 1303 | 1307 | rVV  | 125032 | 182602 | 12.63% | 1.006% |
| 45 | 13.557 | 1308 | 1311 | 1313 | rVV  | 109891 | 157259 | 10.88% | 0.866% |
| 46 | 13.597 | 1313 | 1315 | 1318 | rVV  | 210350 | 305577 | 21.14% | 1.683% |
| 47 | 13.636 | 1318 | 1319 | 1321 | rVV  | 46868  | 45064  | 3.12%  | 0.248% |
| 48 | 13.666 | 1321 | 1322 | 1324 | rVV  | 24505  | 37602  | 2.60%  | 0.207% |
| 49 | 13.695 | 1324 | 1325 | 1329 | rVB  | 29892  | 33388  | 2.31%  | 0.184% |
| 50 | 13.764 | 1329 | 1332 | 1335 | rBV2 | 188409 | 281505 | 19.47% | 1.550% |
| 51 | 13.814 | 1335 | 1337 | 1340 | rVV2 | 55611  | 84123  | 5.82%  | 0.463% |
| 52 | 13.873 | 1340 | 1343 | 1344 | rVV  | 72816  | 109797 | 7.60%  | 0.605% |
| 53 | 13.932 | 1344 | 1349 | 1351 | rVV2 | 247185 | 633618 | 43.83% | 3.489% |
| 54 | 13.971 | 1351 | 1353 | 1356 | rVV2 | 81465  | 121491 | 8.40%  | 0.669% |
| 55 | 14.031 | 1356 | 1359 | 1362 | rVV  | 229782 | 310720 | 21.50% | 1.711% |
| 56 | 14.109 | 1364 | 1367 | 1368 | rBV2 | 32151  | 51552  | 3.57%  | 0.284% |
| 57 | 14.139 | 1368 | 1370 | 1372 | rVB  | 46905  | 60656  | 4.20%  | 0.334% |
| 58 | 14.208 | 1372 | 1377 | 1380 | rBV3 | 116352 | 261971 | 18.12% | 1.443% |
| 59 | 14.267 | 1381 | 1383 | 1387 | rVV2 | 78221  | 133528 | 9.24%  | 0.735% |
| 60 | 14.356 | 1389 | 1392 | 1394 | rVB3 | 23016  | 26902  | 1.86%  | 0.148% |
| 61 | 14.415 | 1394 | 1398 | 1400 | rBV3 | 28963  | 53421  | 3.70%  | 0.294% |
| 62 | 14.464 | 1400 | 1403 | 1406 | rVV  | 85874  | 133684 | 9.25%  | 0.736% |
| 63 | 14.514 | 1406 | 1408 | 1416 | rVB4 | 103901 | 235507 | 16.29% | 1.297% |
| 64 | 14.612 | 1416 | 1418 | 1420 | rBV2 | 18650  | 33336  | 2.31%  | 0.184% |
| 65 | 14.642 | 1420 | 1421 | 1424 | rVB2 | 24251  | 30754  | 2.13%  | 0.169% |
| 66 | 14.790 | 1433 | 1436 | 1439 | rVB  | 182345 | 248747 | 17.21% | 1.370% |
| 67 | 14.987 | 1455 | 1456 | 1459 | rVB3 | 11782  | 14667  | 1.01%  | 0.081% |
| 68 | 15.046 | 1459 | 1462 | 1468 | rBV2 | 112607 | 186116 | 12.88% | 1.025% |
| 69 | 15.164 | 1471 | 1474 | 1477 | rBV  | 90508  | 130911 | 9.06%  | 0.721% |
| 70 | 15.213 | 1477 | 1479 | 1485 | rVB7 | 25179  | 48002  | 3.32%  | 0.264% |
| 71 | 15.342 | 1485 | 1492 | 1494 | rBV4 | 22009  | 47721  | 3.30%  | 0.263% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

## 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\82F100118S.M  
Title : SW846 8260

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 72 | 15.401 | 1494 | 1498 | 1502 | rVB4 | 34921 | 74841 | 5.18% | 0.412% |
| 73 | 15.460 | 1502 | 1504 | 1507 | rBV  | 17943 | 27174 | 1.88% | 0.150% |
| 74 | 15.706 | 1526 | 1529 | 1533 | rVB  | 30801 | 59667 | 4.13% | 0.329% |
| 75 | 15.765 | 1533 | 1535 | 1539 | rBV4 | 7217  | 15079 | 1.04% | 0.083% |
| 76 | 15.844 | 1539 | 1543 | 1546 | rBV2 | 24197 | 46170 | 3.19% | 0.254% |
| 77 | 16.002 | 1556 | 1559 | 1561 | rBV3 | 10999 | 23362 | 1.62% | 0.129% |
| 78 | 16.051 | 1561 | 1564 | 1568 | rVB5 | 10476 | 35081 | 2.43% | 0.193% |

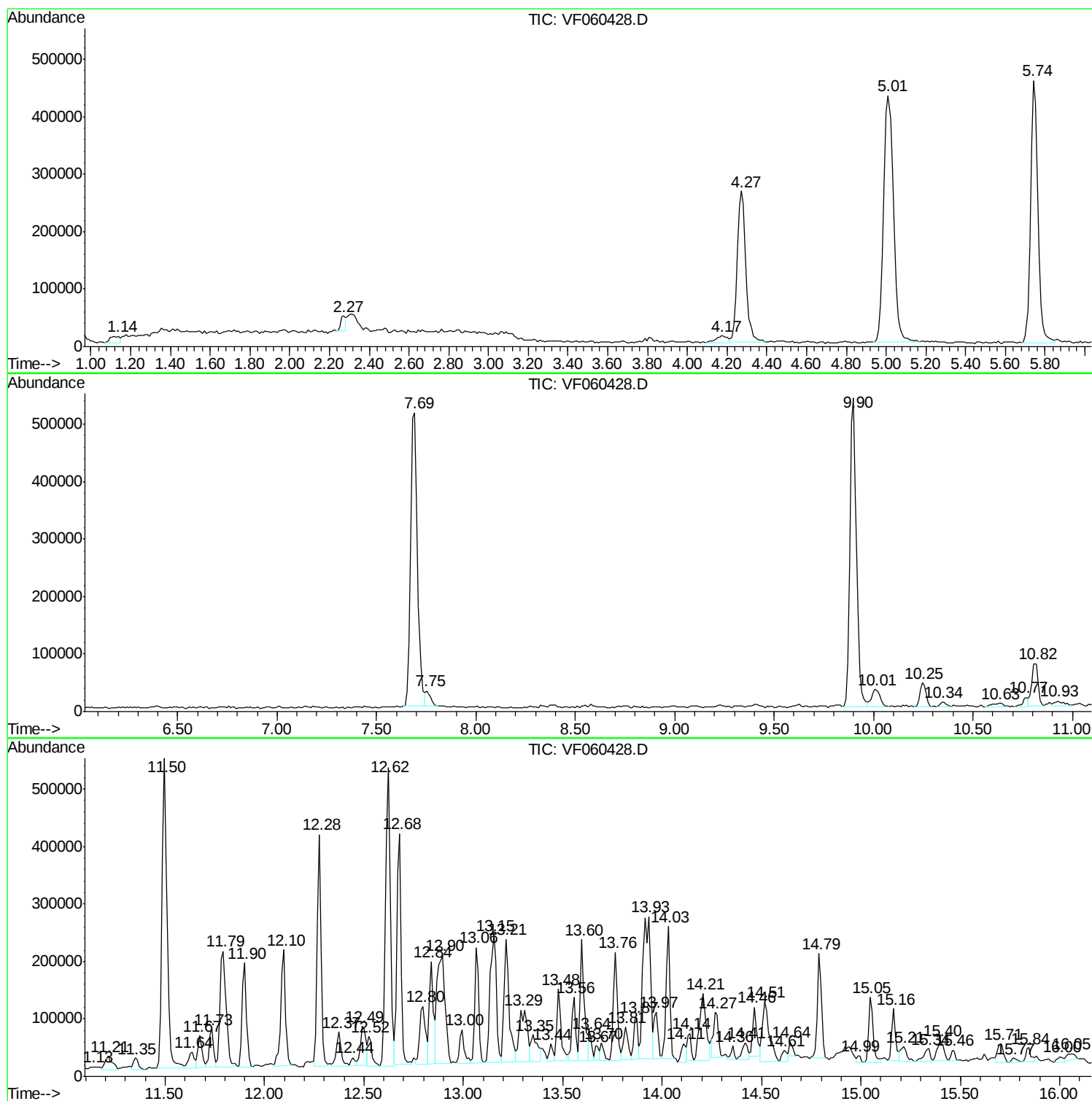
Sum of corrected areas: 18157988

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

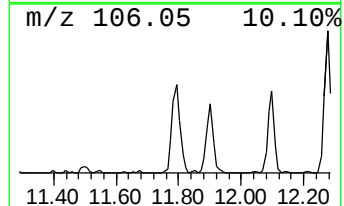
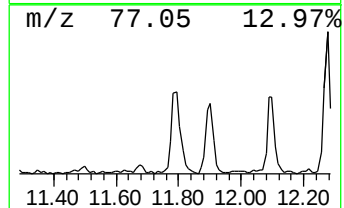
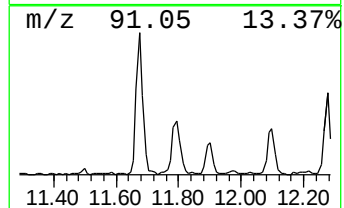
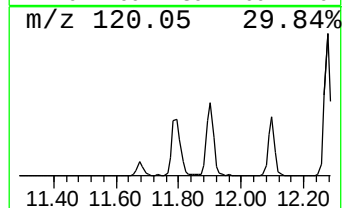
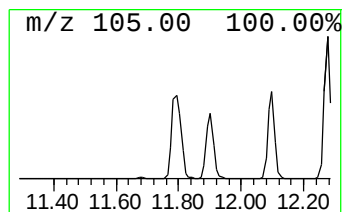
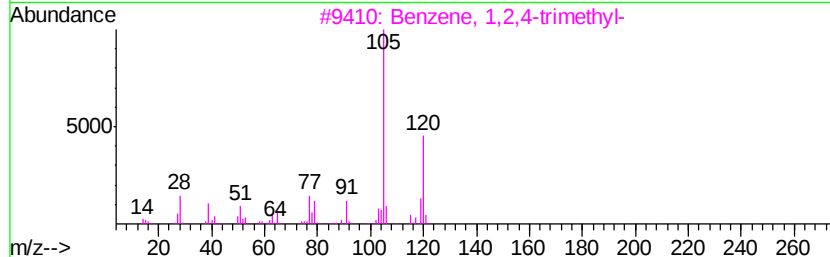
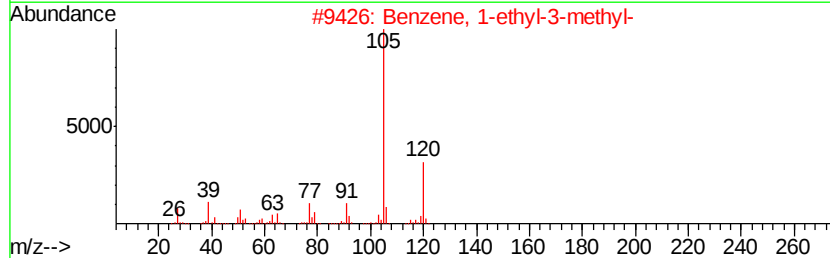
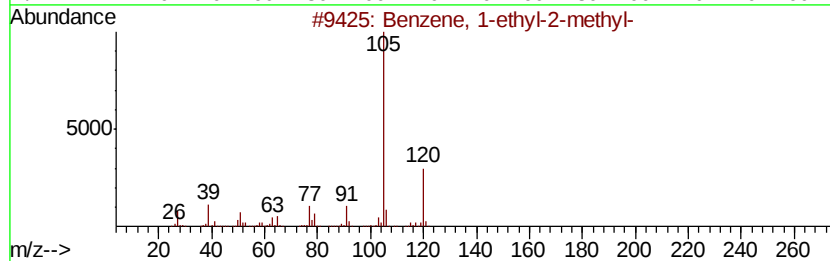
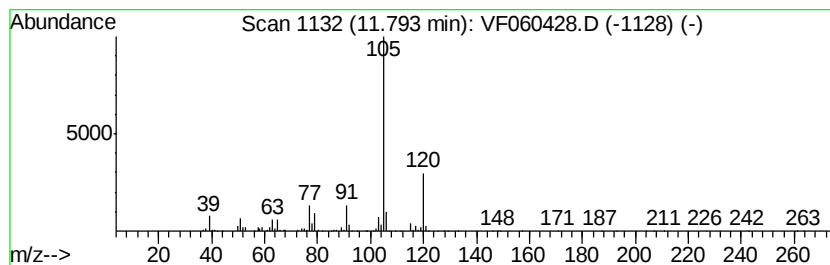
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 11.79 | 24.37 ug/l | 422415 | 1,4-Dichlorobenzene-d4 | 12.62 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

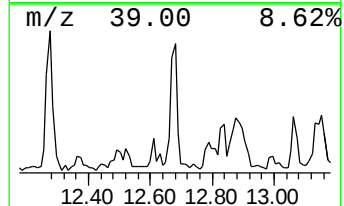
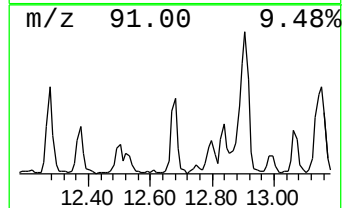
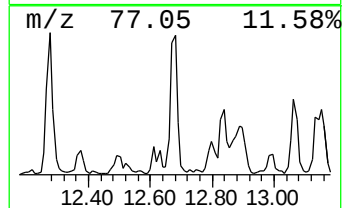
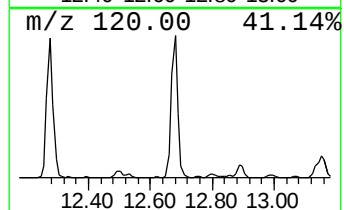
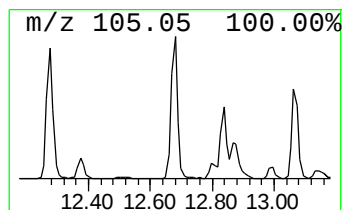
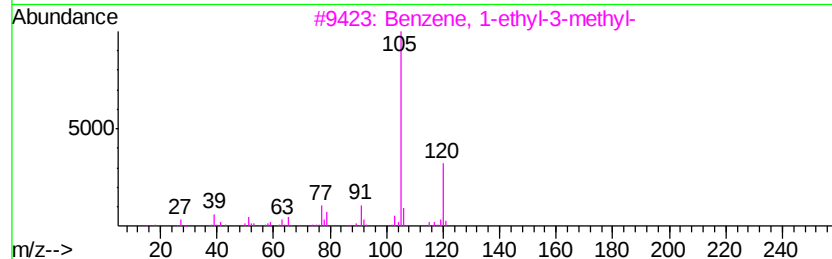
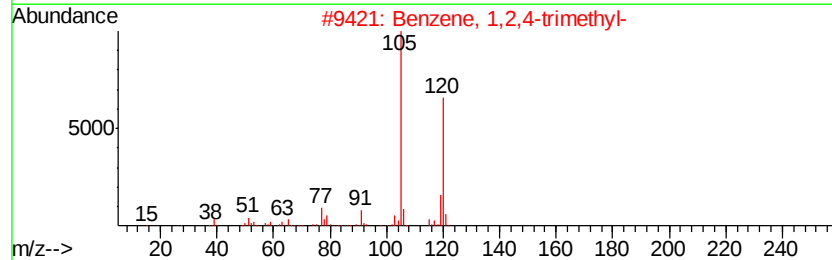
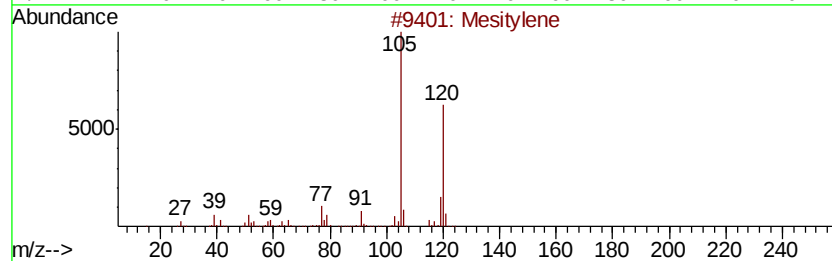
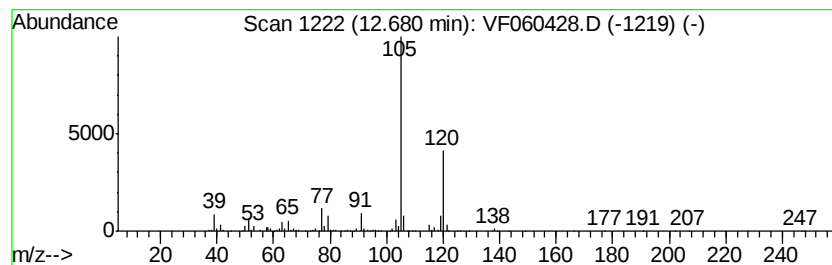
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Mesitylene Concentration Rank 2

| R.T.    | EstConc                    | Area         | Relative to ISTD       | R.T.      |
|---------|----------------------------|--------------|------------------------|-----------|
| 12.68   | 35.25 ug/l                 | 610918       | 1,4-Dichlorobenzene-d4 | 12.62     |
| Hit# of | 5                          | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Mesitylene                 | 120 C9H12    | 000108-67-8            | 91        |
| 2       | Benzene, 1,2,4-trimethyl-  | 120 C9H12    | 000095-63-6            | 91        |
| 3       | Benzene, 1-ethyl-3-methyl- | 120 C9H12    | 000620-14-4            | 91        |
| 4       | Benzene, 1-ethyl-4-methyl- | 120 C9H12    | 000622-96-8            | 91        |
| 5       | Benzene, 1-ethyl-2-methyl- | 120 C9H12    | 000611-14-3            | 91        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

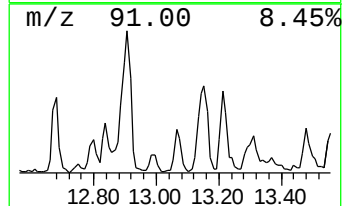
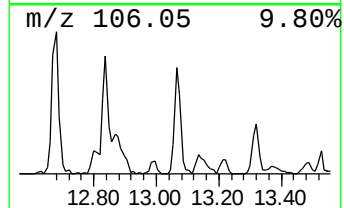
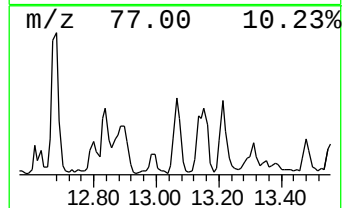
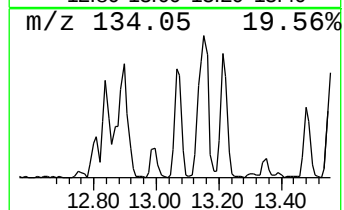
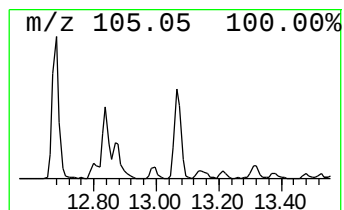
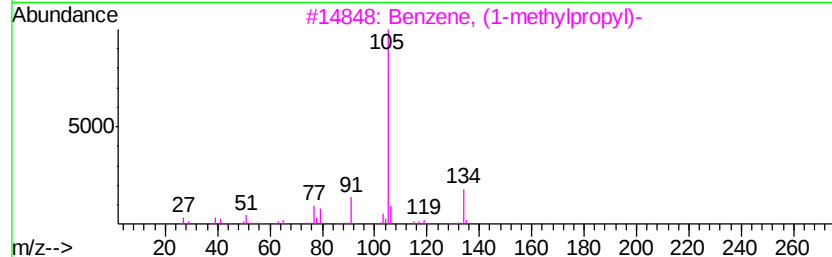
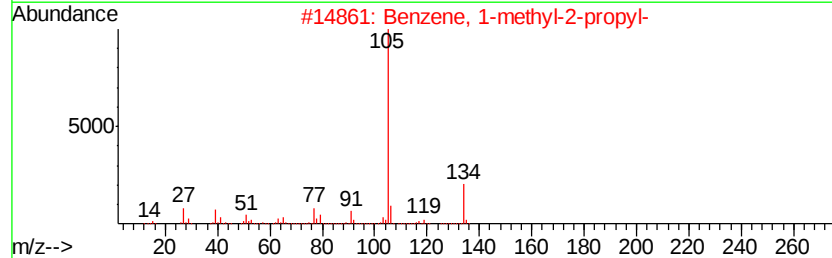
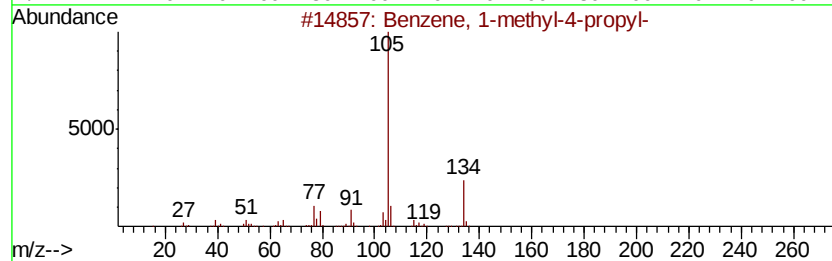
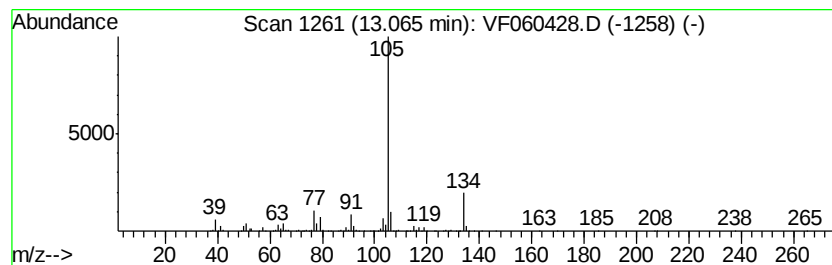
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Benzene, 1-methyl-4-propyl- Concentration Rank 9

| R.T.    | EstConc                     | Area         | Relative to ISTD       | R.T.      |
|---------|-----------------------------|--------------|------------------------|-----------|
| 13.06   | 16.54 ug/l                  | 286734       | 1,4-Dichlorobenzene-d4 | 12.62     |
| Hit# of | 5                           | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-methyl-4-propyl- | 134 C10H14   | 001074-55-1            | 95        |
| 2       | Benzene, 1-methyl-2-propyl- | 134 C10H14   | 001074-17-5            | 94        |
| 3       | Benzene, (1-methylpropyl)-  | 134 C10H14   | 000135-98-8            | 91        |
| 4       | Benzene, 1-methyl-3-propyl- | 134 C10H14   | 001074-43-7            | 90        |
| 5       | 2-Indanol                   | 134 C9H10O   | 004254-29-9            | 72        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

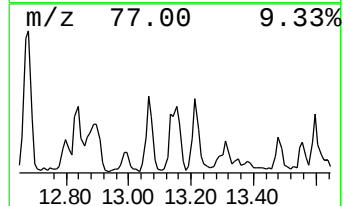
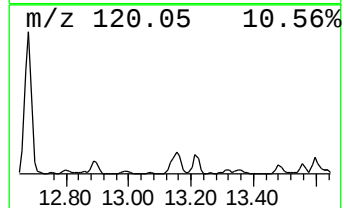
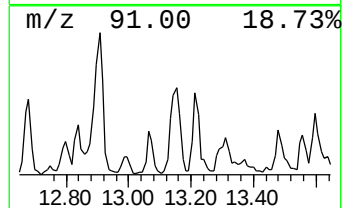
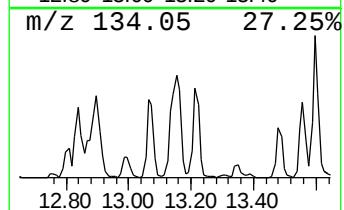
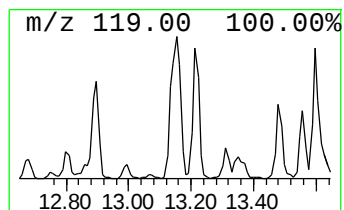
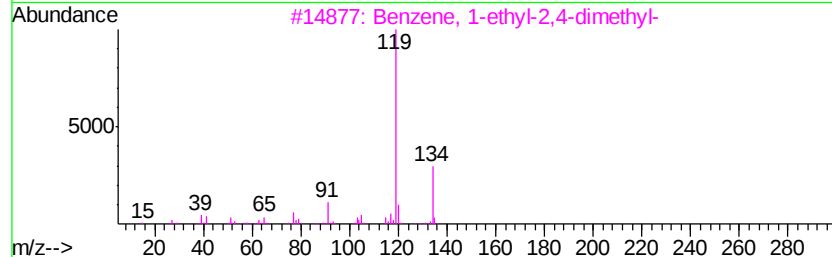
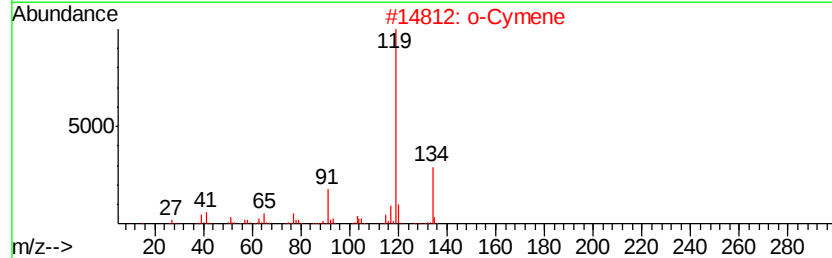
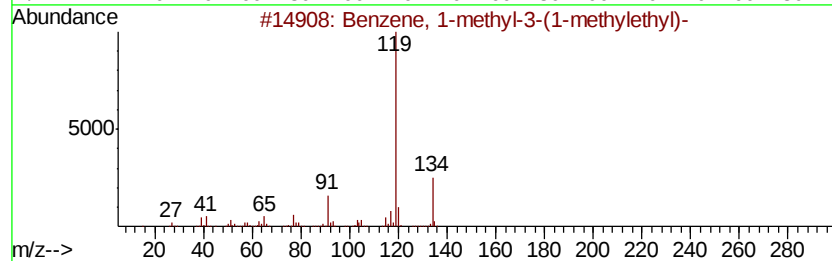
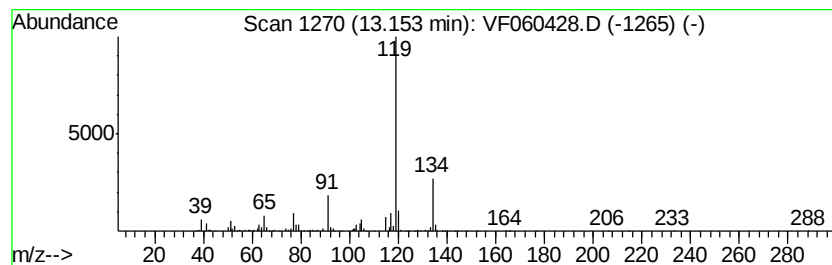
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Benzene, 1-methyl-3-(1-meth... Concentration Rank 3

| R.T.    | EstConc                              | Area         | Relative to ISTD       | R.T.      |
|---------|--------------------------------------|--------------|------------------------|-----------|
| 13.15   | 29.45 ug/l                           | 510317       | 1,4-Dichlorobenzene-d4 | 12.62     |
| Hit# of | 5                                    | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-methyl-3-(1-methylethyl)- | 134 C10H14   | 000535-77-3            | 97        |
| 2       | o-Cymene                             | 134 C10H14   | 000527-84-4            | 97        |
| 3       | Benzene, 1-ethyl-2,4-dimethyl-       | 134 C10H14   | 000874-41-9            | 94        |
| 4       | Benzene, 4-ethyl-1,2-dimethyl-       | 134 C10H14   | 000934-80-5            | 91        |
| 5       | Benzene, 1,2,3,5-tetramethyl-        | 134 C10H14   | 000527-53-7            | 91        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

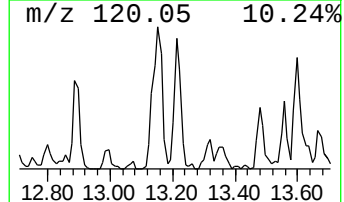
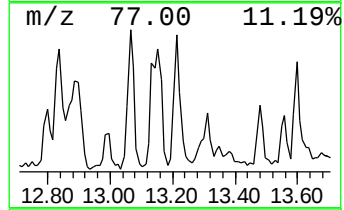
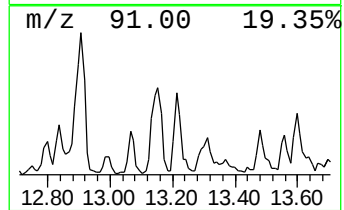
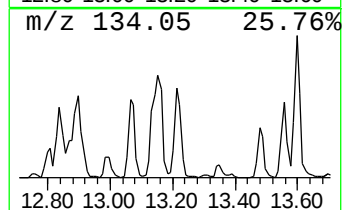
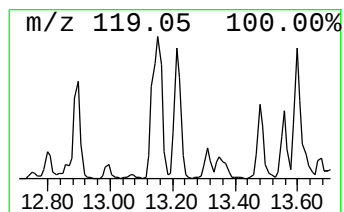
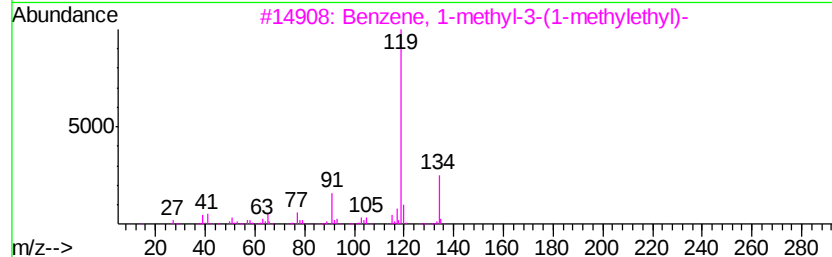
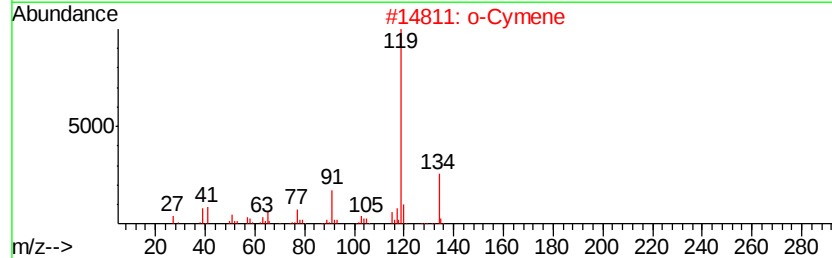
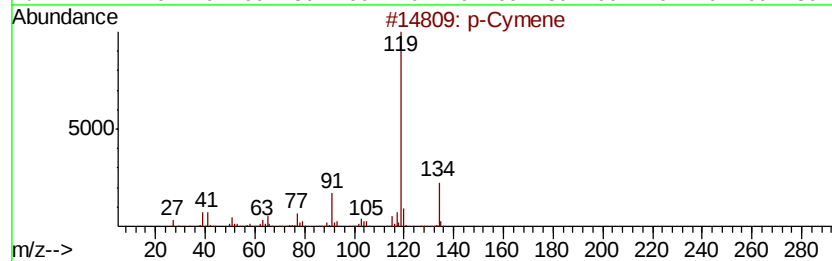
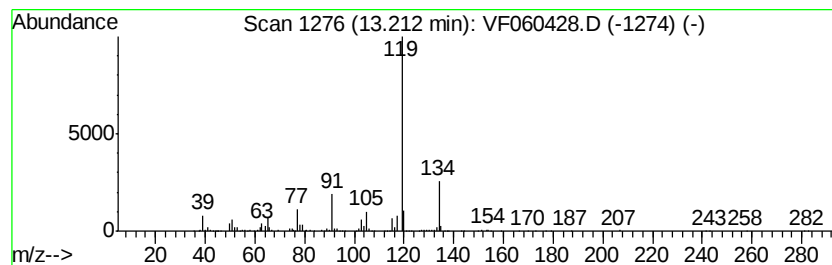
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 p-Cymene Concentration Rank 5

| R.T.    | EstConc                              | Area         | Relative to ISTD       | R.T.      |
|---------|--------------------------------------|--------------|------------------------|-----------|
| 13.21   | 20.83 ug/l                           | 361029       | 1,4-Dichlorobenzene-d4 | 12.62     |
| Hit# of | 5                                    | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | p-Cymene                             | 134 C10H14   | 000099-87-6            | 93        |
| 2       | o-Cymene                             | 134 C10H14   | 000527-84-4            | 93        |
| 3       | Benzene, 1-methyl-3-(1-methylethyl)- | 134 C10H14   | 000535-77-3            | 93        |
| 4       | Benzene, 2-ethyl-1,3-dimethyl-       | 134 C10H14   | 002870-04-4            | 93        |
| 5       | Benzene, 4-ethyl-1,2-dimethyl-       | 134 C10H14   | 000934-80-5            | 91        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

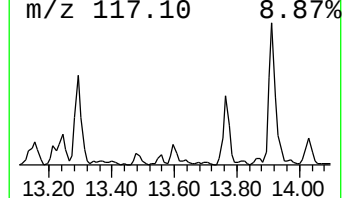
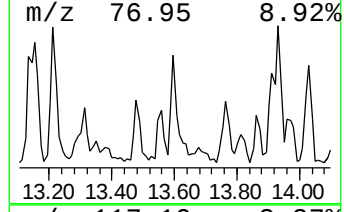
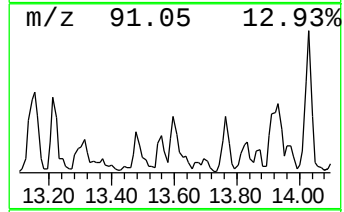
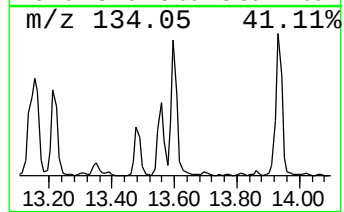
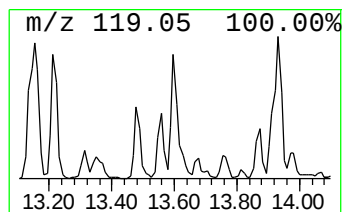
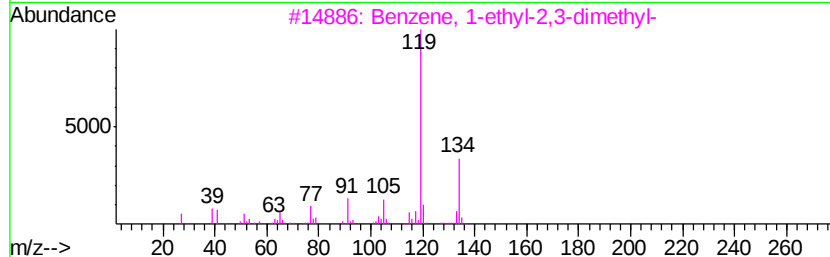
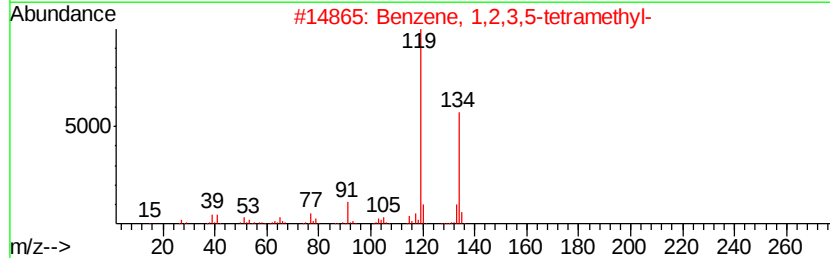
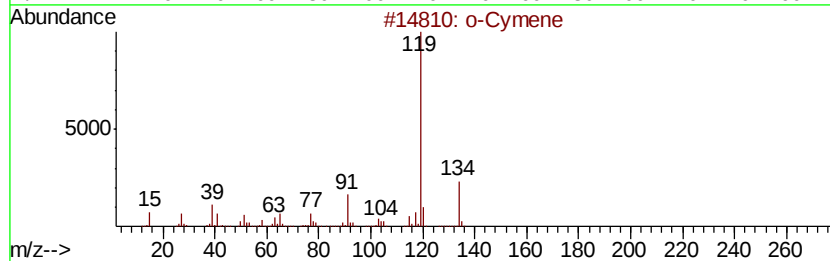
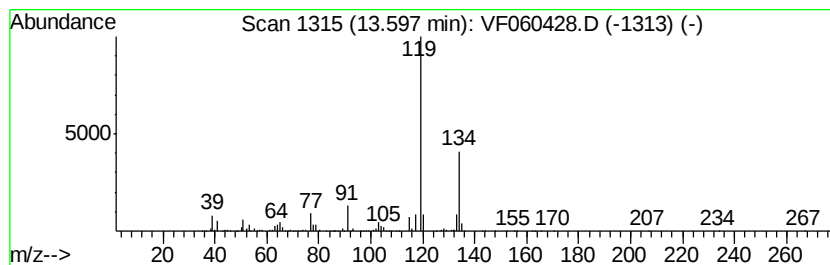
Instrument :  
MSVOA\_F  
ClientSampleID :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 7 o-Cymene Concentration Rank 8

| R.T.    | EstConc    | Area                           | Relative to ISTD       | R.T.           |
|---------|------------|--------------------------------|------------------------|----------------|
| 13.60   | 17.63 ug/l | 305577                         | 1,4-Dichlorobenzene-d4 | 12.62          |
| Hit# of | 5          | Tentative ID                   | MW MolForm             | CAS# Qual      |
| 1       |            | o-Cymene                       | 134 C10H14             | 000527-84-4 93 |
| 2       |            | Benzene, 1,2,3,5-tetramethyl-  | 134 C10H14             | 000527-53-7 91 |
| 3       |            | Benzene, 1-ethyl-2,3-dimethyl- | 134 C10H14             | 000933-98-2 91 |
| 4       |            | Benzene, 1-ethyl-3,5-dimethyl- | 134 C10H14             | 000934-74-7 91 |
| 5       |            | Benzene, 1,2,3,4-tetramethyl-  | 134 C10H14             | 000488-23-3 91 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

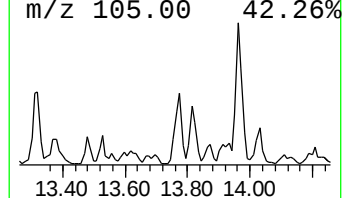
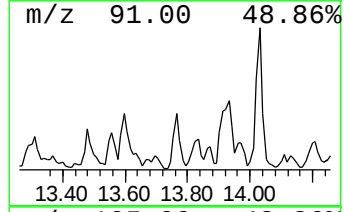
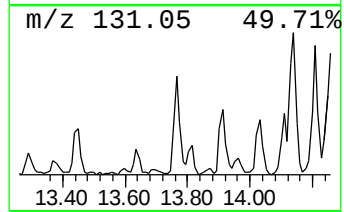
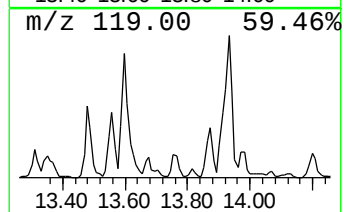
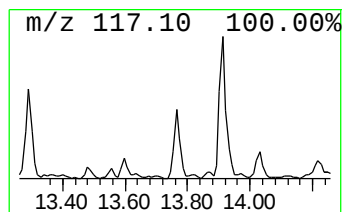
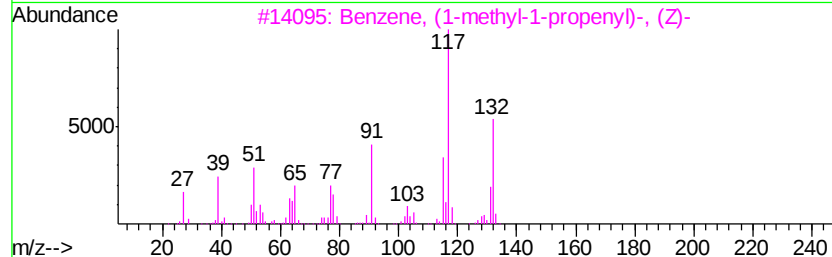
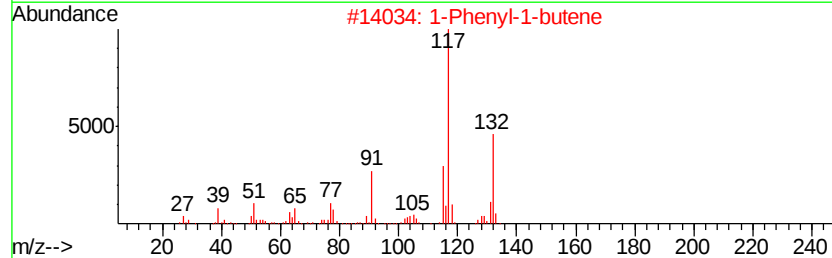
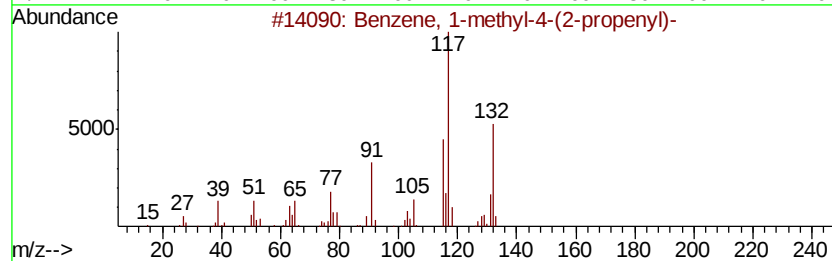
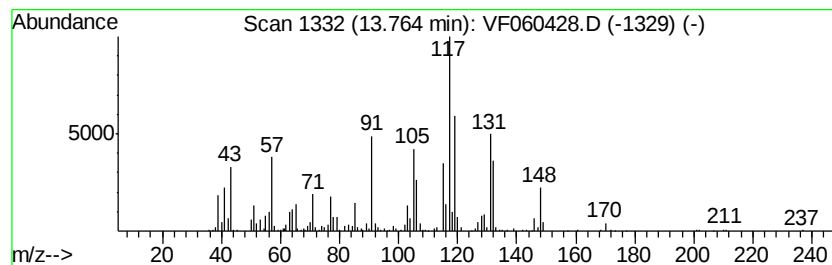
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1-methyl-4-(2-prop... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.76 | 16.24 ug/l | 281505 | 1,4-Dichlorobenzene-d4 | 12.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(2-propenyl)-   | 132 | C10H12  | 003333-13-9 | 55   |
| 2    |    | 1-Phenyl-1-butene                   | 132 | C10H12  | 000824-90-8 | 55   |
| 3    |    | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000767-99-7 | 55   |
| 4    |    | 3a,6-Methano-3aH-indene, 2,3,6,7... | 132 | C10H12  | 098640-29-0 | 52   |
| 5    |    | 1H-Indene, 2,3-dihydro-5-methyl-    | 132 | C10H12  | 000874-35-1 | 49   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

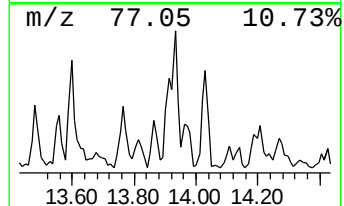
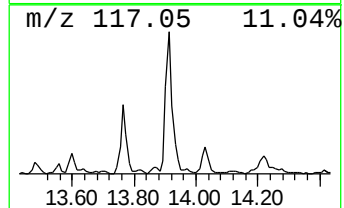
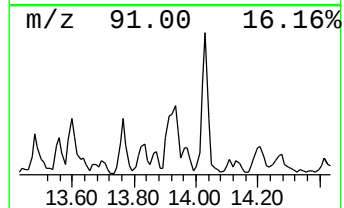
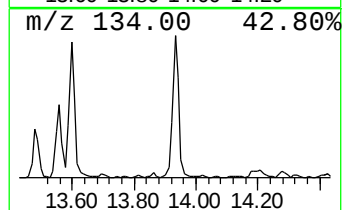
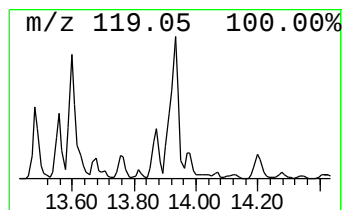
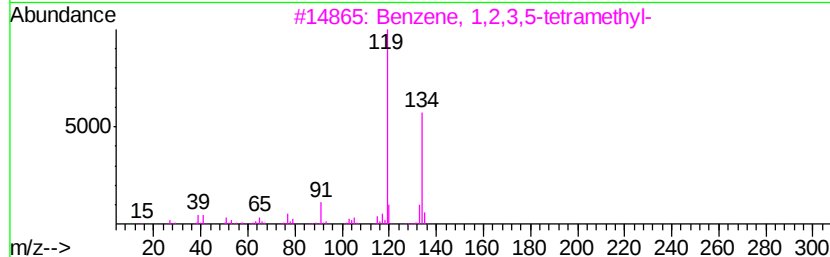
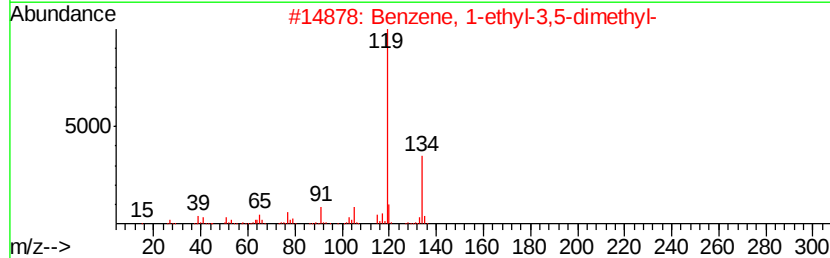
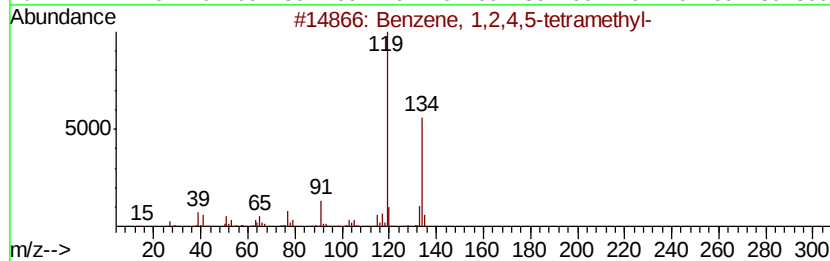
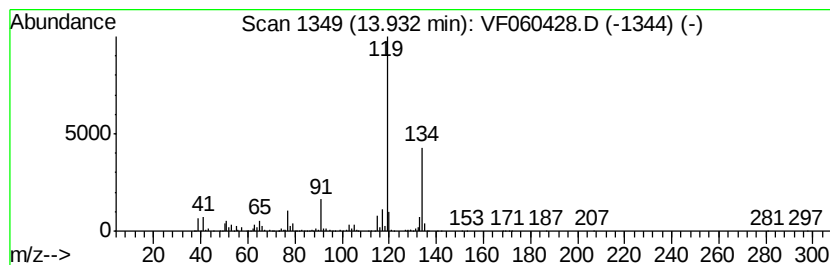
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 1

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.93   | 36.56 ug/l | 633618                              | 1,4-Dichlorobenzene-d4 | 12.62          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1,2,4,5-tetramethyl-       | 134 C10H14             | 000095-93-2 95 |
| 2       |            | Benzene, 1-ethyl-3,5-dimethyl-      | 134 C10H14             | 000934-74-7 94 |
| 3       |            | Benzene, 1,2,3,5-tetramethyl-       | 134 C10H14             | 000527-53-7 94 |
| 4       |            | Benzene, 4-ethyl-1,2-dimethyl-      | 134 C10H14             | 000934-80-5 94 |
| 5       |            | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 C10H14             | 076089-59-3 93 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260

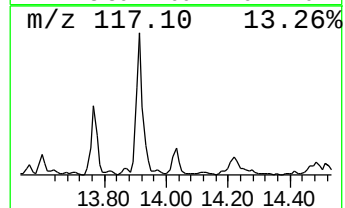
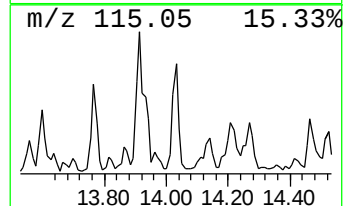
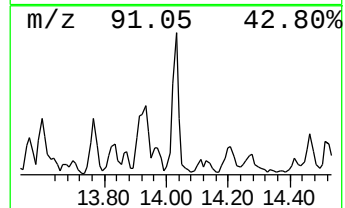
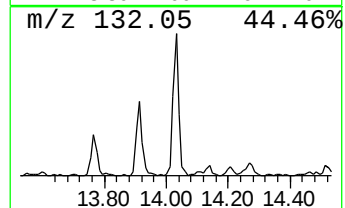
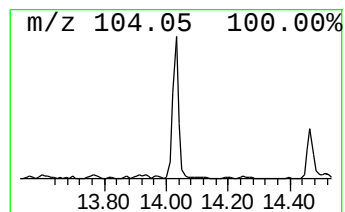
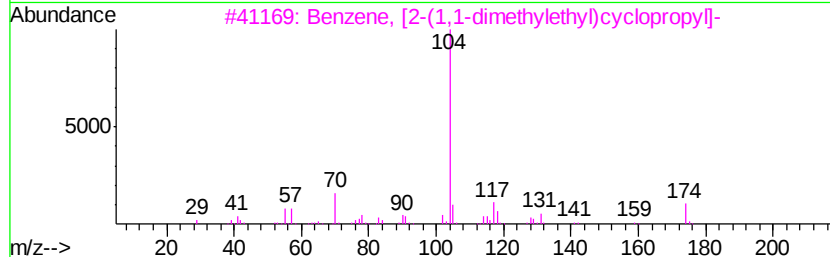
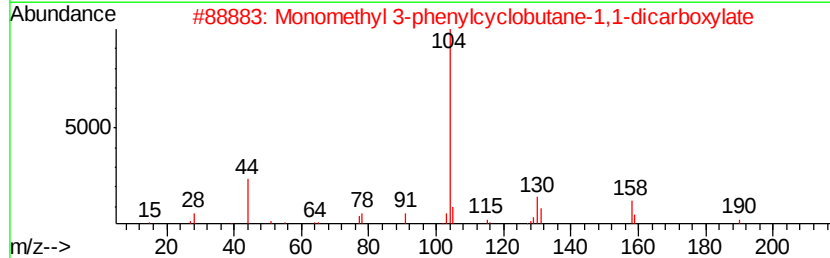
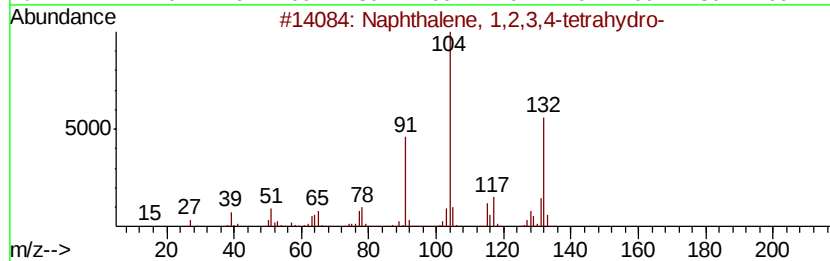
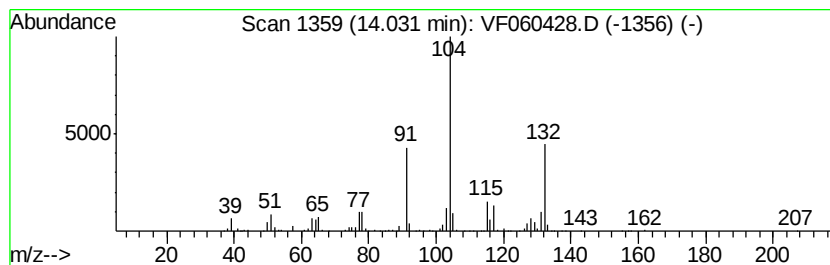
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.03 | 17.93 ug/l | 310720 | 1,4-Dichlorobenzene-d4 | 12.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-    | 132 | C10H12   | 000119-64-2  | 95   |
| 2    |    | Monomethyl 3-phenylcyclobutane-1... | 234 | C13H14O4 | 1000100-51-7 | 50   |
| 3    |    | Benzene, [2-(1,1-dimethylethyl)c... | 174 | C13H18   | 1000362-12-2 | 50   |
| 4    |    | Benzene, 3-cyclohexen-1-yl-         | 158 | C12H14   | 004994-16-5  | 47   |
| 5    |    | 2-Propenoic acid, 2-phenylethyl ... | 176 | C11H12O2 | 003530-36-7  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF100318\  
Data File : VF060428.D  
Acq On : 3 Oct 2018 21:29  
Operator : VA/AP  
Sample : J5194-03  
Misc : 6.89/5mL/MSVOA\_F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-06-100218-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.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 |
| Benzene, 1-ethyl-... | 11.79 | 24.4    | ug/l  | 422415   | 4                     | 12.62 | 866541 | 50.0 |
| Mesitylene           | 12.68 | 35.3    | ug/l  | 610918   | 4                     | 12.62 | 866541 | 50.0 |
| Benzene, 1-methyl... | 13.06 | 16.5    | ug/l  | 286734   | 4                     | 12.62 | 866541 | 50.0 |
| Benzene, 1-methyl... | 13.15 | 29.4    | ug/l  | 510317   | 4                     | 12.62 | 866541 | 50.0 |
| p-Cymene             | 13.21 | 20.8    | ug/l  | 361029   | 4                     | 12.62 | 866541 | 50.0 |
| o-Cymene             | 13.60 | 17.6    | ug/l  | 305577   | 4                     | 12.62 | 866541 | 50.0 |
| Benzene, 1-methyl... | 13.76 | 16.2    | ug/l  | 281505   | 4                     | 12.62 | 866541 | 50.0 |
| Benzene, 1,2,4,5-... | 13.93 | 36.6    | ug/l  | 633618   | 4                     | 12.62 | 866541 | 50.0 |
| Naphthalene, 1,2,... | 14.03 | 17.9    | ug/l  | 310720   | 4                     | 12.62 | 866541 | 50.0 |