

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
 Data File : VF061150.D  
 Acq On : 22 Dec 2018 17:54  
 Operator : VA/AP  
 Sample : J6191-01  
 Misc : 6.14g/5mL/MSVOA-F/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-07-122018-A

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\82F121918S.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         | 1.086       | 42            | 46          | 59           | rVB      | 29799          | 117757        | 15.15%          | 1.989%        |
| 2         | 1.342       | 65            | 72          | 73           | rBV5     | 9638           | 34132         | 4.39%           | 0.577%        |
| 3         | 1.382       | 73            | 76          | 78           | rVV2     | 15530          | 31240         | 4.02%           | 0.528%        |
| 4         | 1.421       | 78            | 80          | 81           | rVV2     | 13457          | 18991         | 2.44%           | 0.321%        |
| 5         | 1.451       | 81            | 83          | 90           | rVB3     | 11496          | 28472         | 3.66%           | 0.481%        |
| 6         | 2.003       | 133           | 139         | 142          | rBV6     | 7346           | 20022         | 2.58%           | 0.338%        |
| 7         | 2.190       | 155           | 158         | 160          | rBV3     | 5840           | 11162         | 1.44%           | 0.189%        |
| 8         | 2.250       | 160           | 164         | 169          | rVV      | 12578          | 33807         | 4.35%           | 0.571%        |
| 9         | 2.378       | 171           | 177         | 181          | rBV3     | 12966          | 41625         | 5.35%           | 0.703%        |
| 10        | 4.025       | 336           | 344         | 346          | rBV4     | 4293           | 12520         | 1.61%           | 0.211%        |
| 11        | 4.134       | 348           | 355         | 366          | rVB      | 136049         | 414088        | 53.26%          | 6.994%        |
| 12        | 4.647       | 401           | 407         | 419          | rBV2     | 21740          | 76385         | 9.82%           | 1.290%        |
| 13        | 4.883       | 422           | 431         | 445          | rVV2     | 213702         | 777475        | 100.00%         | 13.132%       |
| 14        | 5.465       | 485           | 490         | 499          | rBV5     | 9288           | 34498         | 4.44%           | 0.583%        |
| 15        | 5.613       | 499           | 505         | 516          | rVV      | 232230         | 616475        | 79.29%          | 10.413%       |
| 16        | 6.827       | 625           | 628         | 633          | rVB3     | 3261           | 7949          | 1.02%           | 0.134%        |
| 17        | 7.044       | 644           | 650         | 653          | rBV4     | 6808           | 21109         | 2.72%           | 0.357%        |
| 18        | 7.566       | 698           | 703         | 708          | rVV      | 292172         | 700775        | 90.13%          | 11.837%       |
| 19        | 7.645       | 708           | 711         | 720          | rVV      | 62346          | 146110        | 18.79%          | 2.468%        |
| 20        | 7.764       | 720           | 723         | 730          | rVB5     | 5946           | 16653         | 2.14%           | 0.281%        |
| 21        | 8.296       | 773           | 777         | 782          | rVV3     | 3171           | 8498          | 1.09%           | 0.144%        |
| 22        | 8.395       | 784           | 787         | 790          | rVV3     | 4149           | 9919          | 1.28%           | 0.168%        |
| 23        | 8.474       | 790           | 795         | 800          | rVB4     | 9037           | 25050         | 3.22%           | 0.423%        |
| 24        | 8.977       | 841           | 846         | 852          | rBV5     | 4741           | 16735         | 2.15%           | 0.283%        |
| 25        | 9.125       | 857           | 861         | 866          | rVB4     | 3916           | 11223         | 1.44%           | 0.190%        |
| 26        | 9.303       | 873           | 879         | 883          | rBV4     | 4367           | 9623          | 1.24%           | 0.163%        |
| 27        | 9.796       | 923           | 929         | 937          | rBV      | 226436         | 517551        | 66.57%          | 8.742%        |
| 28        | 9.914       | 937           | 941         | 945          | rVB3     | 11973          | 27267         | 3.51%           | 0.461%        |
| 29        | 10.151      | 960           | 965         | 970          | rBV      | 38055          | 84896         | 10.92%          | 1.434%        |
| 30        | 10.723      | 1020          | 1023        | 1027         | rVB2     | 22101          | 41294         | 5.31%           | 0.697%        |
| 31        | 11.137      | 1061          | 1065        | 1071         | rBV3     | 4442           | 9045          | 1.16%           | 0.153%        |
| 32        | 11.423      | 1090          | 1094        | 1103         | rBV      | 213835         | 362635        | 46.64%          | 6.125%        |
| 33        | 11.601      | 1110          | 1112        | 1116         | rVB2     | 8578           | 14166         | 1.82%           | 0.239%        |
| 34        | 11.719      | 1120          | 1124        | 1129         | rVV      | 34244          | 69317         | 8.92%           | 1.171%        |

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 MSVOA\_F  
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 NB-07-122018-A

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 Sampling : 1  
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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 11.838 | 1132 | 1136 | 1140 | rVB  | 19866  | 29087  | 3.74%  | 0.491% |
| 36 | 12.035 | 1151 | 1156 | 1159 | rBV  | 22544  | 35413  | 4.55%  | 0.598% |
| 37 | 12.213 | 1171 | 1174 | 1178 | rBV  | 64113  | 92672  | 11.92% | 1.565% |
| 38 | 12.311 | 1180 | 1184 | 1190 | rVB3 | 6666   | 13613  | 1.75%  | 0.230% |
| 39 | 12.439 | 1194 | 1197 | 1199 | rBV  | 8354   | 13260  | 1.71%  | 0.224% |
| 40 | 12.469 | 1199 | 1200 | 1206 | rVB3 | 6361   | 8466   | 1.09%  | 0.143% |
| 41 | 12.558 | 1206 | 1209 | 1213 | rBV  | 198125 | 314788 | 40.49% | 5.317% |
| 42 | 12.617 | 1213 | 1215 | 1221 | rVB  | 38562  | 57391  | 7.38%  | 0.969% |
| 43 | 12.735 | 1223 | 1227 | 1230 | rBV2 | 29250  | 53955  | 6.94%  | 0.911% |
| 44 | 12.785 | 1230 | 1232 | 1234 | rVV  | 17384  | 22874  | 2.94%  | 0.386% |
| 45 | 12.844 | 1234 | 1238 | 1244 | rVB3 | 23273  | 56170  | 7.22%  | 0.949% |
| 46 | 12.942 | 1244 | 1248 | 1253 | rBV6 | 7587   | 14563  | 1.87%  | 0.246% |
| 47 | 13.012 | 1253 | 1255 | 1259 | rVB  | 14921  | 23847  | 3.07%  | 0.403% |
| 48 | 13.100 | 1259 | 1264 | 1268 | rBV  | 22084  | 51858  | 6.67%  | 0.876% |
| 49 | 13.159 | 1268 | 1270 | 1276 | rBV2 | 20136  | 52400  | 6.74%  | 0.885% |
| 50 | 13.238 | 1276 | 1278 | 1282 | rVB2 | 18456  | 31838  | 4.10%  | 0.538% |
| 51 | 13.426 | 1295 | 1297 | 1303 | rVV  | 8958   | 17301  | 2.23%  | 0.292% |
| 52 | 13.505 | 1303 | 1305 | 1307 | rVV  | 12971  | 16953  | 2.18%  | 0.286% |
| 53 | 13.544 | 1307 | 1309 | 1312 | rVV2 | 17120  | 32660  | 4.20%  | 0.552% |
| 54 | 13.643 | 1316 | 1319 | 1322 | rVV3 | 7140   | 14361  | 1.85%  | 0.243% |
| 55 | 13.722 | 1324 | 1327 | 1330 | rVV2 | 38533  | 64740  | 8.33%  | 1.094% |
| 56 | 13.771 | 1330 | 1332 | 1335 | rVB3 | 6689   | 10212  | 1.31%  | 0.172% |
| 57 | 13.820 | 1335 | 1337 | 1339 | rBV3 | 8357   | 12982  | 1.67%  | 0.219% |
| 58 | 13.860 | 1339 | 1341 | 1346 | rVV2 | 54377  | 102143 | 13.14% | 1.725% |
| 59 | 13.919 | 1346 | 1347 | 1350 | rVV3 | 9823   | 14942  | 1.92%  | 0.252% |
| 60 | 13.978 | 1350 | 1353 | 1359 | rVB  | 43295  | 63727  | 8.20%  | 1.076% |
| 61 | 14.057 | 1359 | 1361 | 1362 | rBV  | 5877   | 7830   | 1.01%  | 0.132% |
| 62 | 14.087 | 1362 | 1364 | 1367 | rVV2 | 13494  | 17807  | 2.29%  | 0.301% |
| 63 | 14.166 | 1367 | 1372 | 1374 | rVV4 | 16921  | 36473  | 4.69%  | 0.616% |
| 64 | 14.225 | 1374 | 1378 | 1382 | rVB3 | 16954  | 36765  | 4.73%  | 0.621% |
| 65 | 14.422 | 1394 | 1398 | 1400 | rVV2 | 15490  | 26502  | 3.41%  | 0.448% |
| 66 | 14.471 | 1400 | 1403 | 1405 | rVV2 | 20740  | 33470  | 4.30%  | 0.565% |
| 67 | 14.511 | 1405 | 1407 | 1409 | rVB2 | 8561   | 11328  | 1.46%  | 0.191% |
| 68 | 14.610 | 1414 | 1417 | 1420 | rVV2 | 11000  | 18809  | 2.42%  | 0.318% |
| 69 | 14.748 | 1428 | 1431 | 1435 | rVB  | 32496  | 49141  | 6.32%  | 0.830% |
| 70 | 14.886 | 1441 | 1445 | 1452 | rVB8 | 6703   | 22471  | 2.89%  | 0.380% |
| 71 | 15.004 | 1454 | 1457 | 1461 | rVB3 | 14904  | 22230  | 2.86%  | 0.375% |

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

## 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\82F121918S.M  
Title : SW846 8260

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 72 | 15.122 | 1466 | 1469 | 1473 | rVV4 | 12063 | 24373 | 3.13% | 0.412% |
| 73 | 15.359 | 1490 | 1493 | 1495 | rBV4 | 4577  | 9326  | 1.20% | 0.158% |
| 74 | 15.655 | 1520 | 1523 | 1530 | rBV5 | 5921  | 13086 | 1.68% | 0.221% |

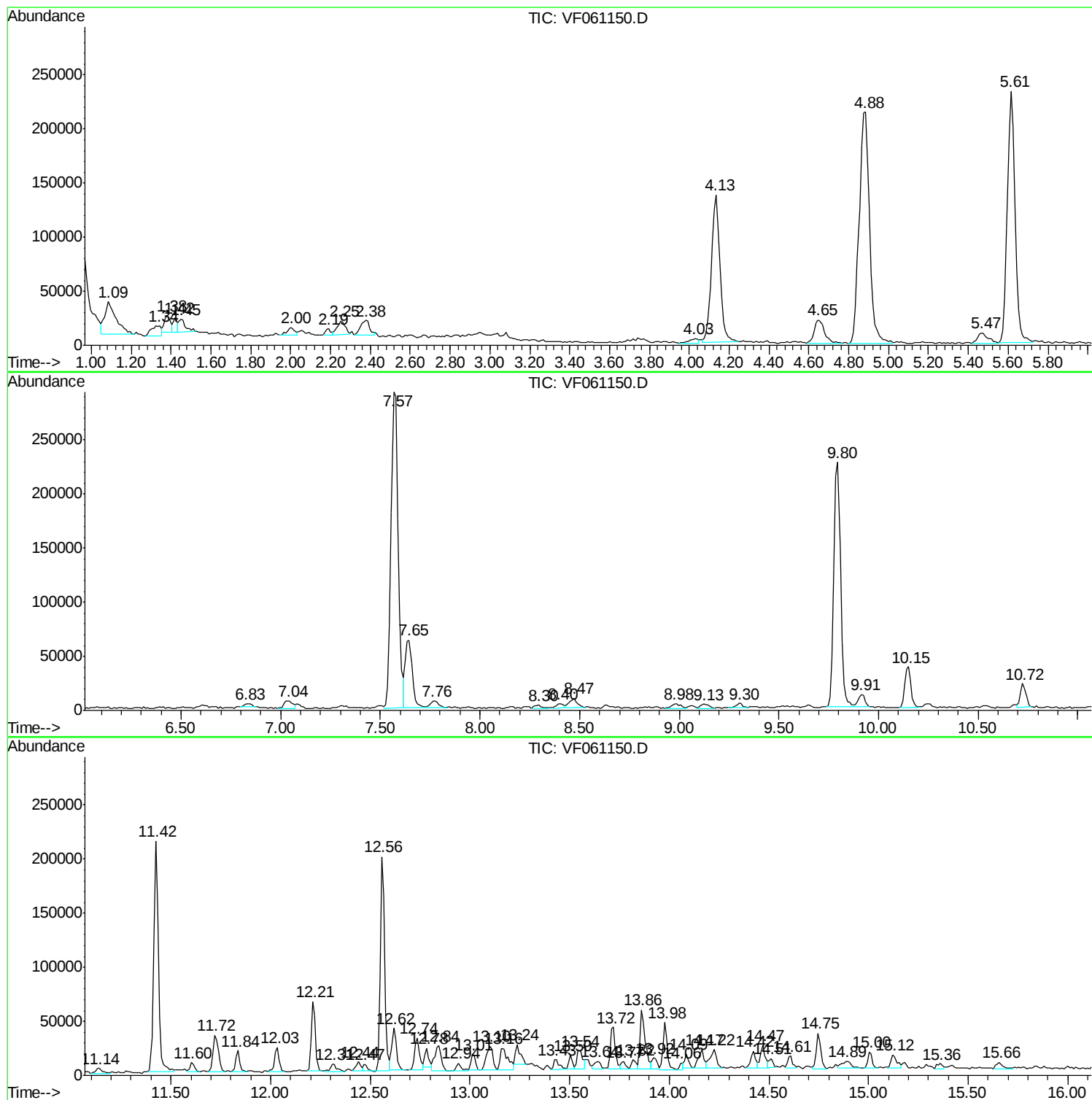
Sum of corrected areas: 5920291

Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF122218\  
Data File : VF061150.D  
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Instrument :  
MSV0A\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

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



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NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

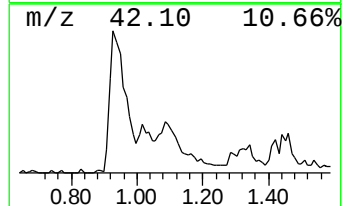
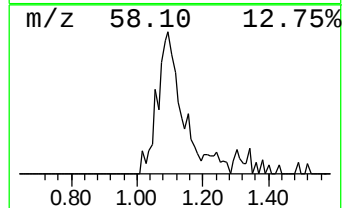
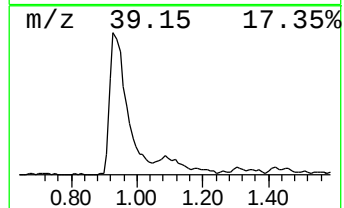
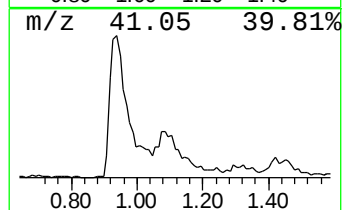
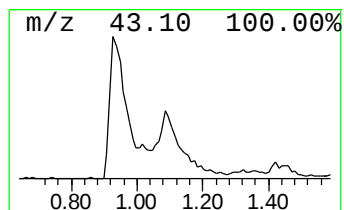
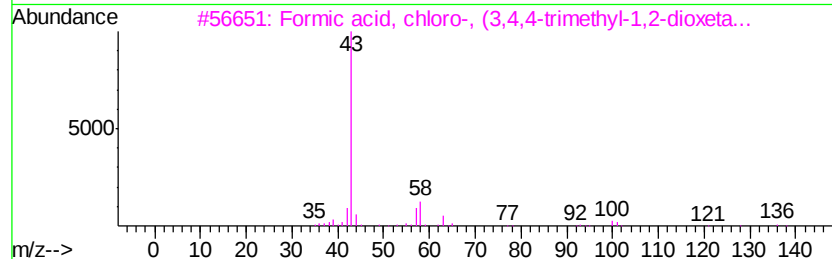
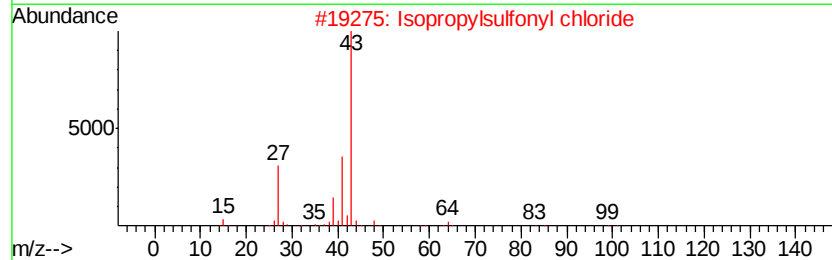
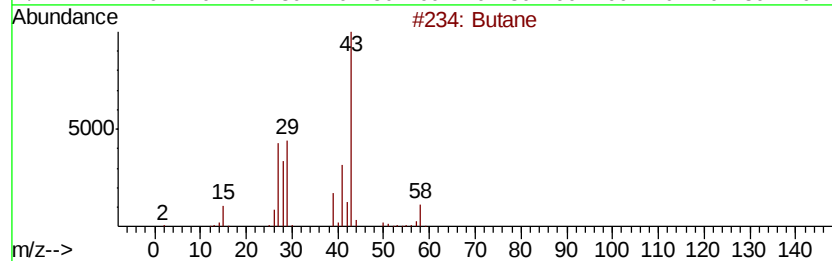
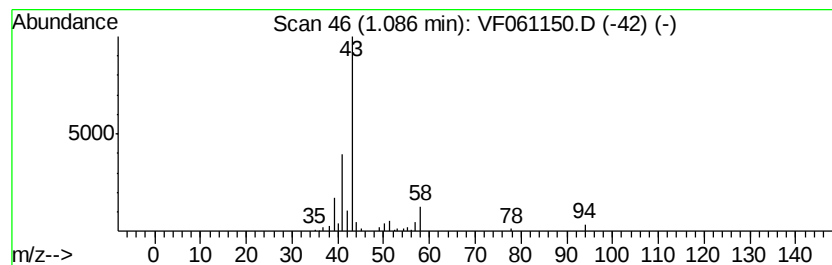
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Butane Concentration Rank 10

| R.T. | EstConc   | Area   | Relative to ISTD   | R.T. |
|------|-----------|--------|--------------------|------|
| 1.09 | 7.57 ug/l | 117757 | Pentafluorobenzene | 4.88 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm   | CAS#        | Qual |
|---------|-------------------------------------|--------------|-----|-----------|-------------|------|
| 1       | Butane                              |              | 58  | C4H10     | 000106-97-8 | 53   |
| 2       | Isopropylsulfonyl chloride          |              | 142 | C3H7ClO2S | 010147-37-2 | 32   |
| 3       | Formic acid, chloro-, (3,4,4-tri... |              | 194 | C7H11ClO4 | 107323-92-2 | 28   |
| 4       | Isobutane                           |              | 58  | C4H10     | 000075-28-5 | 9    |
| 5       | Butanenitrile, 3-methyl-            |              | 83  | C5H9N     | 000625-28-5 | 9    |



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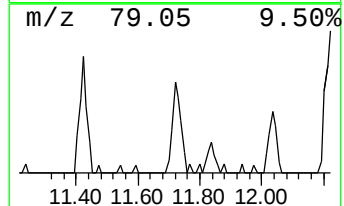
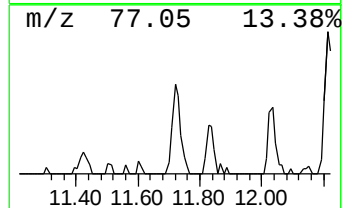
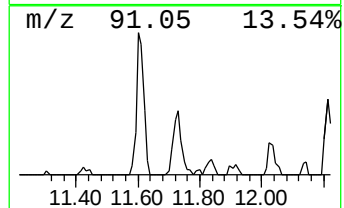
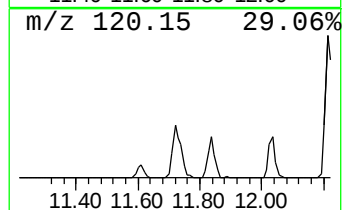
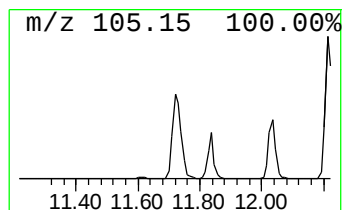
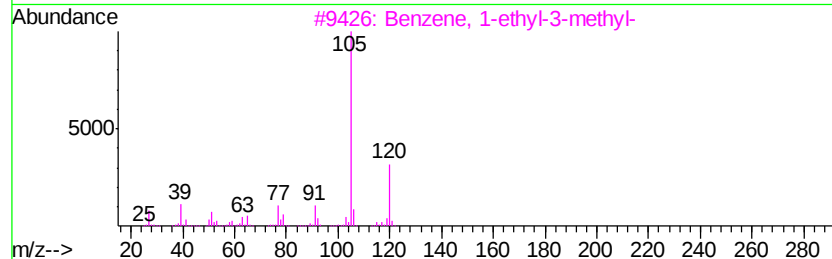
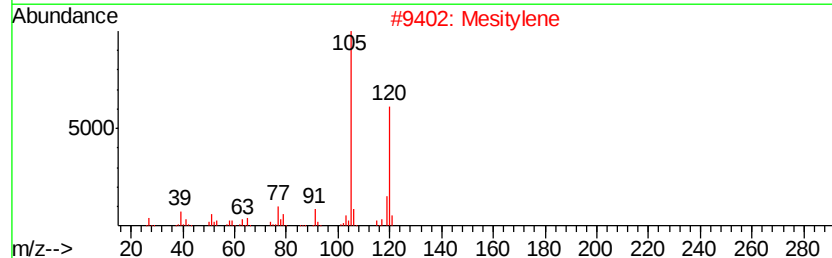
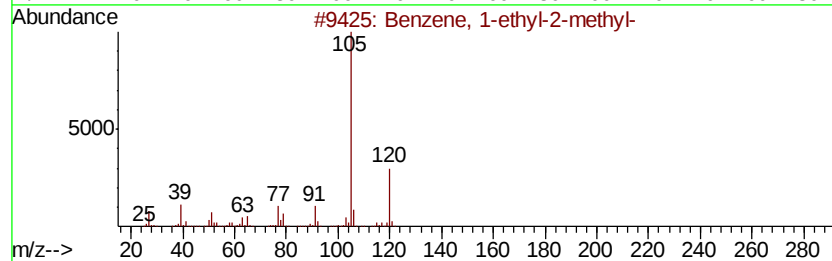
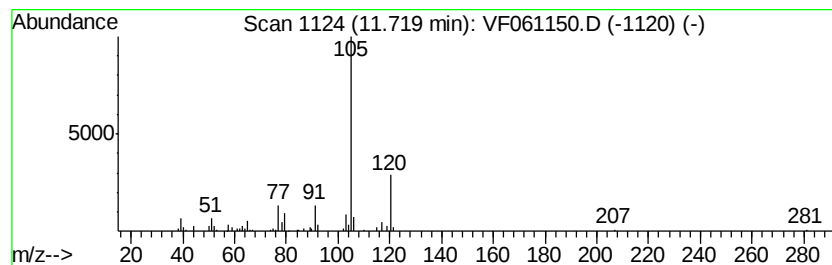
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

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

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

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 11.72 | 11.01 ug/l | 69317 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 91   |
| 2    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 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, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |



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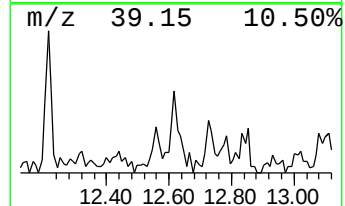
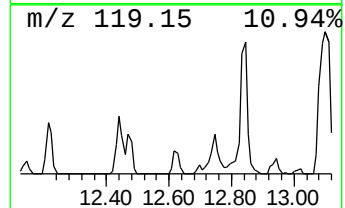
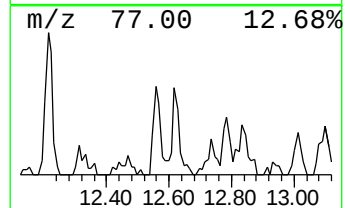
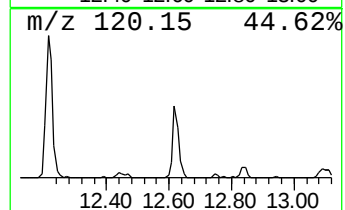
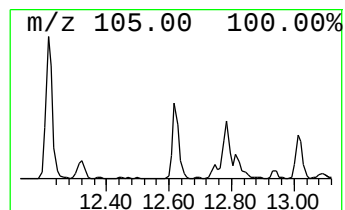
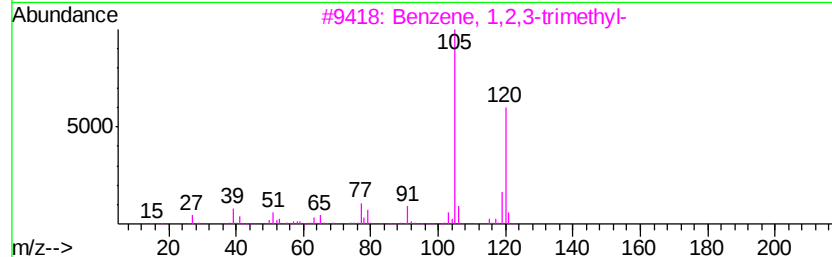
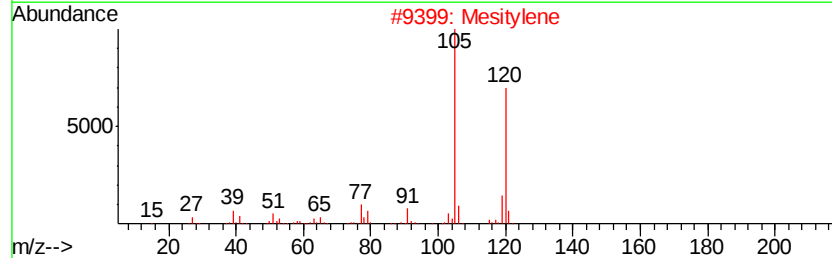
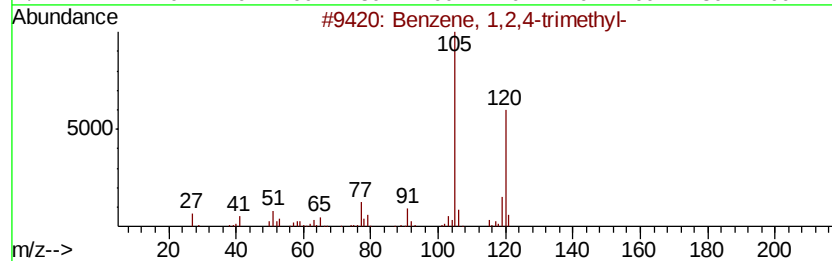
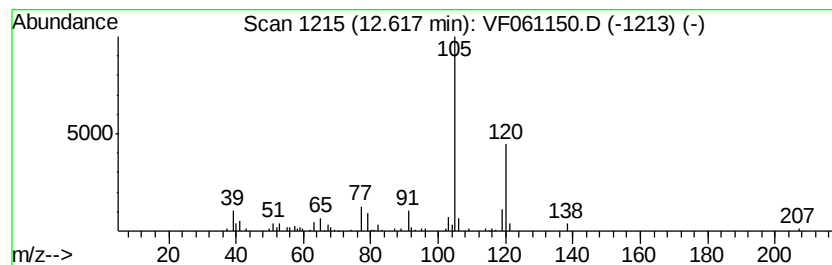
Instrument :  
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ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Benzene, 1,2,4-trimethyl- Concentration Rank 5

| R.T.      | EstConc                    | Area  | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------|-------|------------------------|-------------|------|
| 12.62     | 9.12 ug/l                  | 57391 | 1,4-Dichlorobenzene-d4 | 12.56       |      |
| Hit# of 5 | Tentative ID               | MW    | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1,2,4-trimethyl-  | 120   | C9H12                  | 000095-63-6 | 93   |
| 2         | Mesitylene                 | 120   | C9H12                  | 000108-67-8 | 90   |
| 3         | Benzene, 1,2,3-trimethyl-  | 120   | C9H12                  | 000526-73-8 | 90   |
| 4         | Benzene, 1-ethyl-4-methyl- | 120   | C9H12                  | 000622-96-8 | 87   |
| 5         | Benzene, 1-ethyl-2-methyl- | 120   | C9H12                  | 000611-14-3 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSV0A-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSV0A\_F  
ClientSampleId :  
NB-07-122018-A

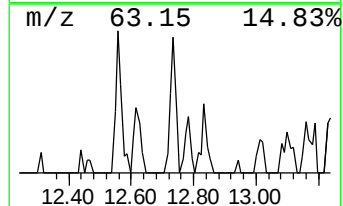
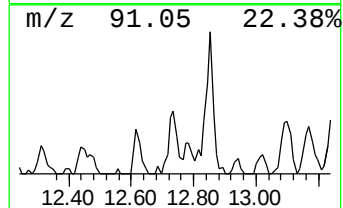
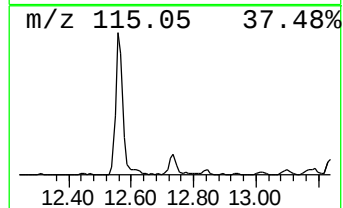
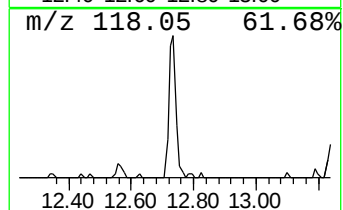
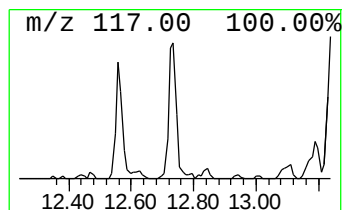
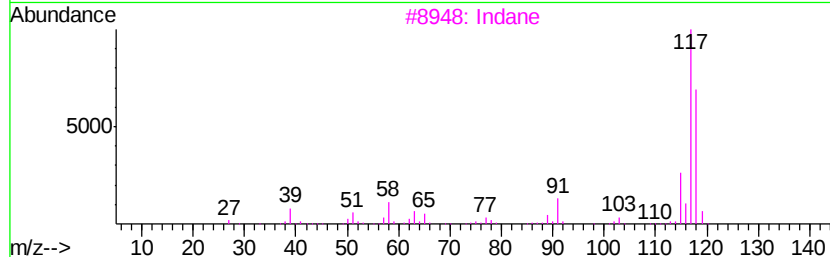
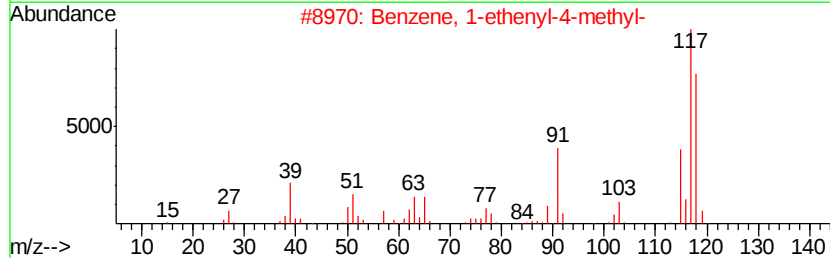
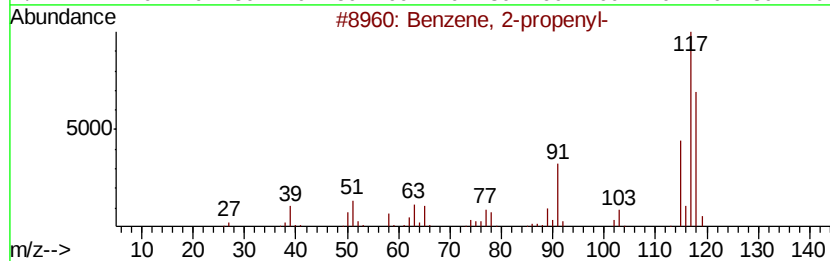
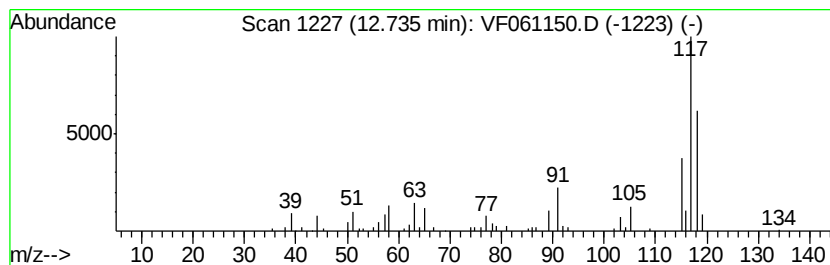
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Benzene, 2-propenyl- Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.74 | 8.57 ug/l | 53955 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-propenyl-            | 118 | C9H10   | 000300-57-2 | 90   |
| 2    |    | Benzene, 1-ethenyl-4-methyl-    | 118 | C9H10   | 000622-97-9 | 81   |
| 3    |    | Indane                          | 118 | C9H10   | 000496-11-7 | 81   |
| 4    |    | Benzene, cyclopropyl-           | 118 | C9H10   | 000873-49-4 | 81   |
| 5    |    | Benzeneethanol, .beta.-ethenyl- | 148 | C10H12O | 006052-63-7 | 80   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

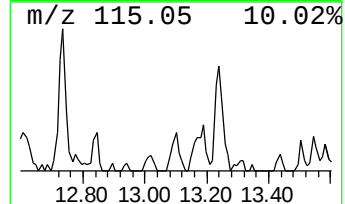
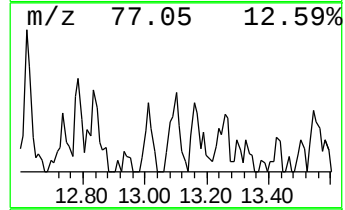
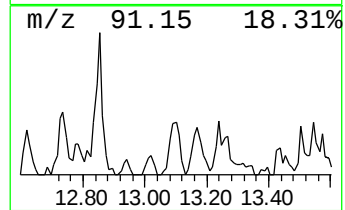
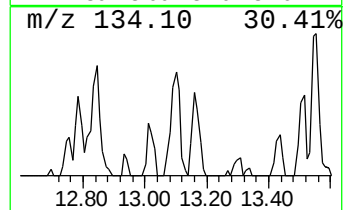
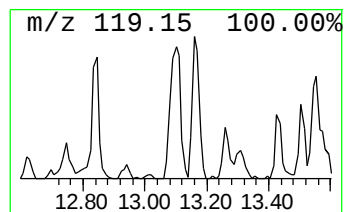
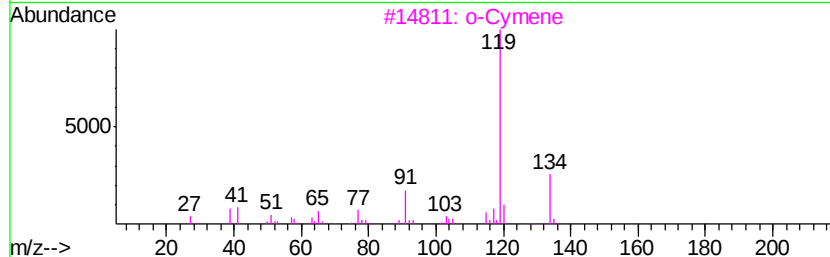
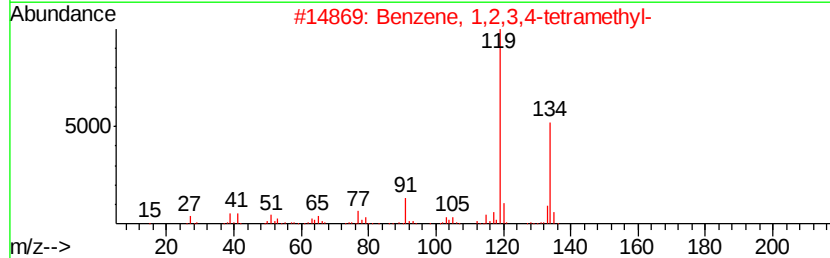
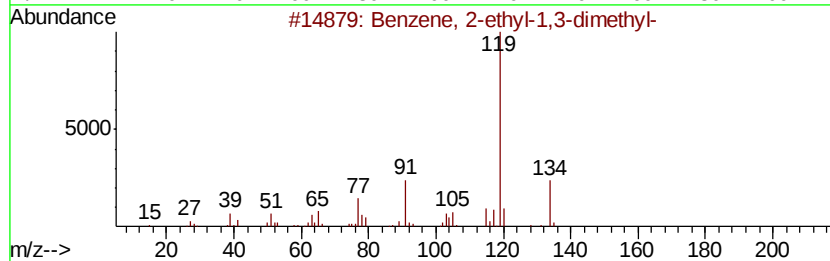
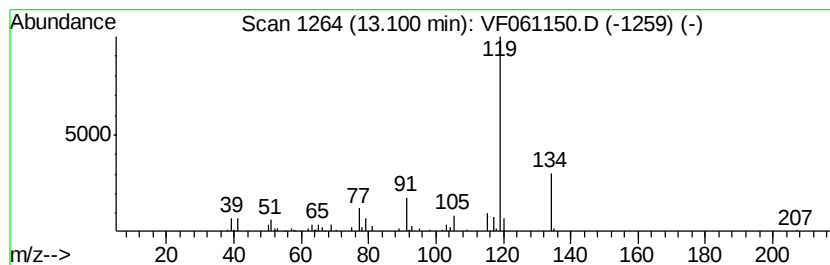
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.10 | 8.24 ug/l | 51858 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 91   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 90   |
| 3    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 87   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 87   |
| 5    |    | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSV0A-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSV0A\_F  
ClientSampleID :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

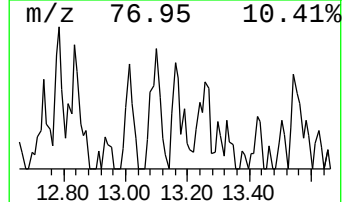
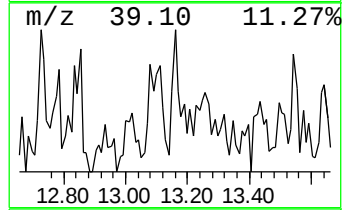
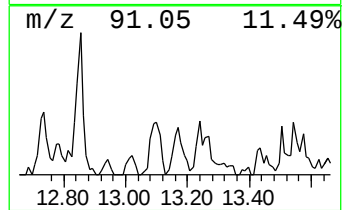
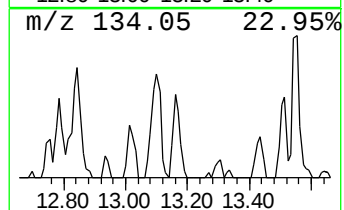
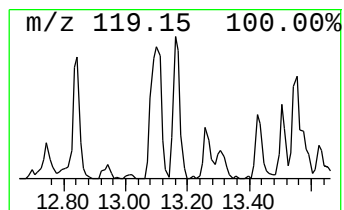
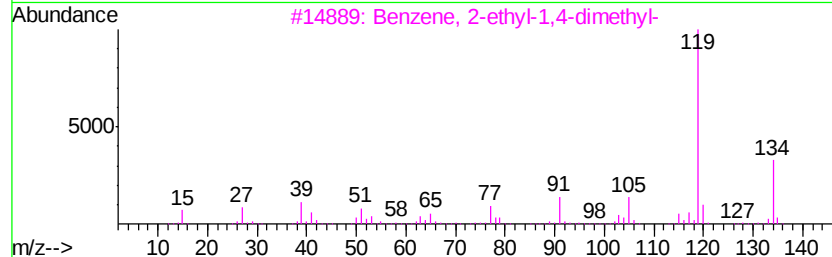
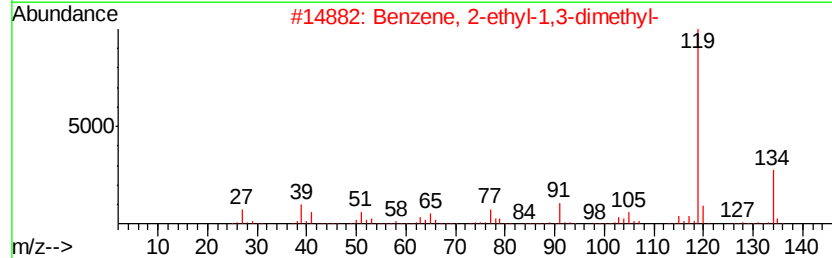
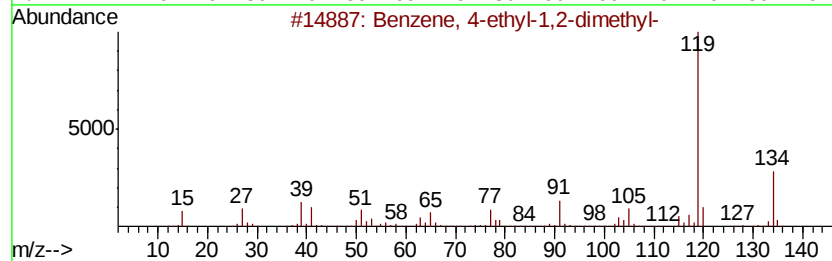
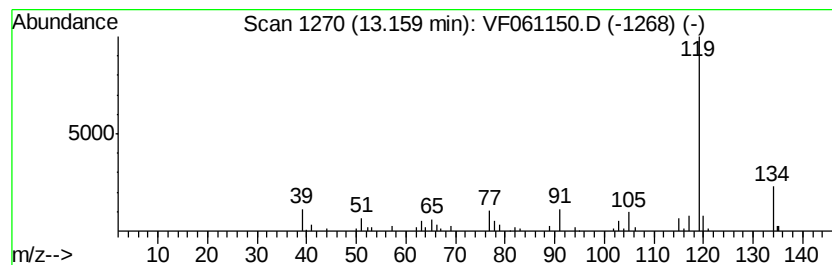
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.16 | 8.32 ug/l | 52400 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 90   |
| 2    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 87   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 87   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 86   |
| 5    |    | p-Cymene                       | 134 | C10H14  | 000099-87-6 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

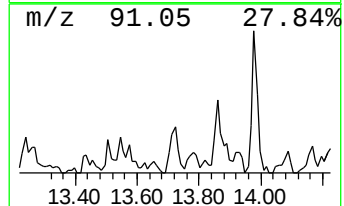
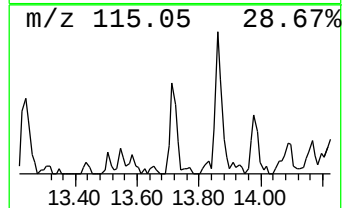
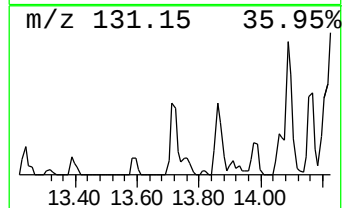
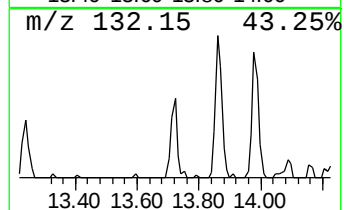
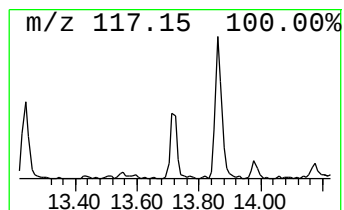
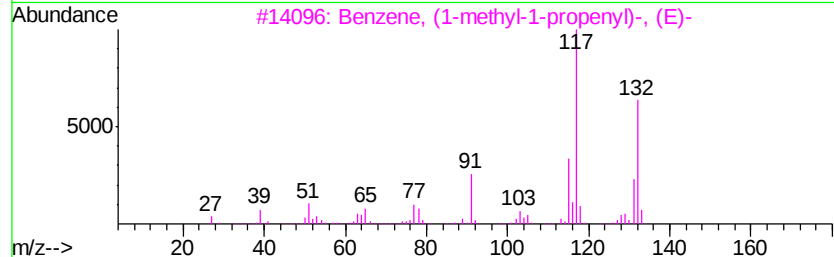
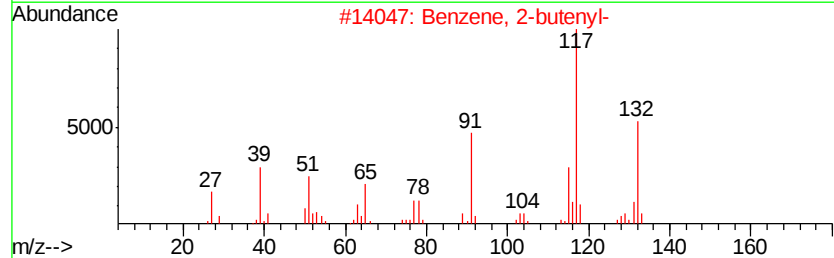
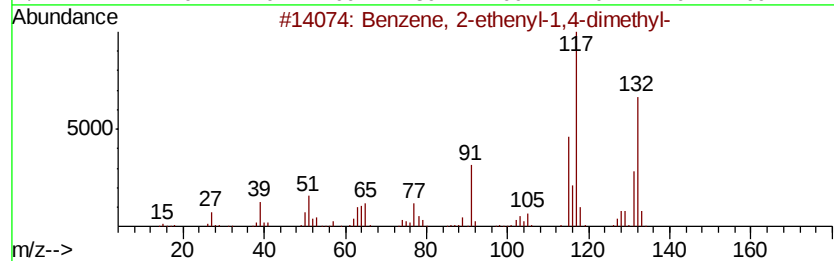
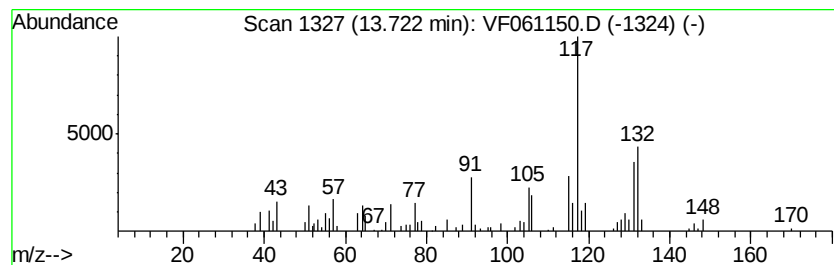
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 3

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 13.72 | 10.28 ug/l | 64740 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethenyl-1,4-dimethyl-     | 132 | C10H12  | 002039-89-6 | 91   |
| 2    |    | Benzene, 2-butenyl-                  | 132 | C10H12  | 001560-06-1 | 76   |
| 3    |    | Benzene, (1-methyl-1-propenyl)-, ... | 132 | C10H12  | 000768-00-3 | 76   |
| 4    |    | Benzene, 1-methyl-2-(2-propenyl)-    | 132 | C10H12  | 001587-04-8 | 76   |
| 5    |    | 1-Phenyl-1-butene                    | 132 | C10H12  | 000824-90-8 | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

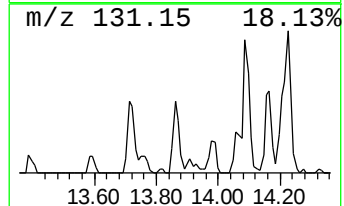
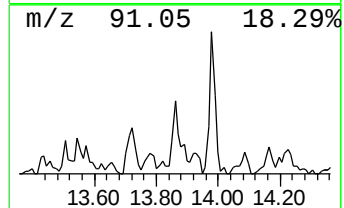
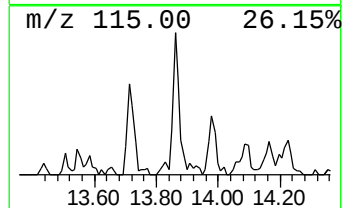
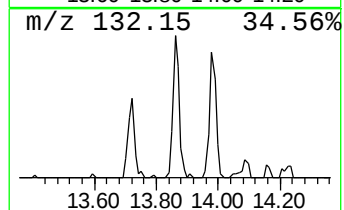
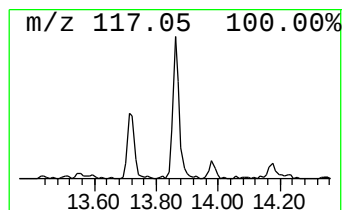
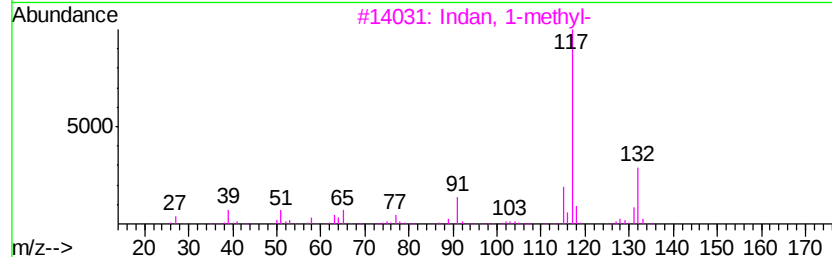
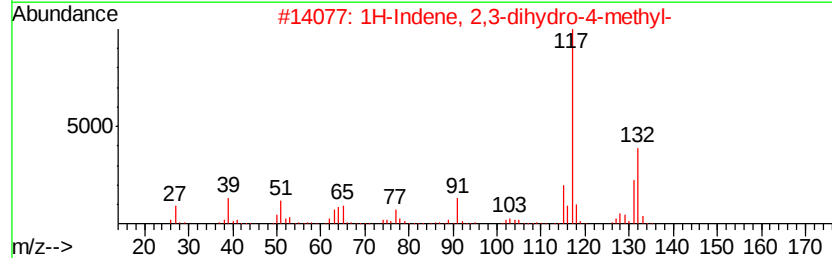
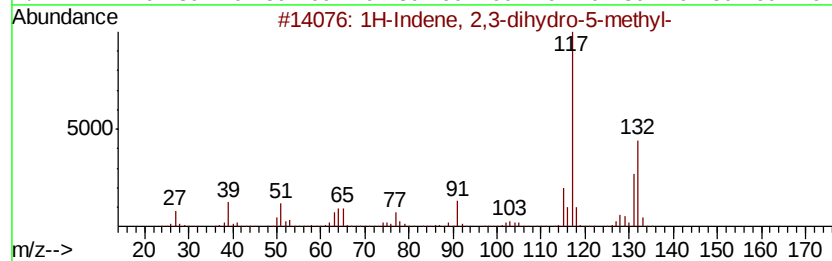
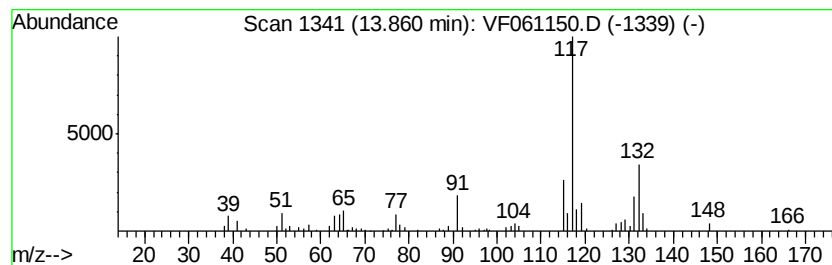
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.86 | 16.22 ug/l | 102143 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 91   |
| 2    |    | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12  | 000824-22-6 | 87   |
| 3    |    | Indan, 1-methyl-                 | 132 | C10H12  | 000767-58-8 | 87   |
| 4    |    | Benzene, 1-ethenyl-3-ethyl-      | 132 | C10H12  | 007525-62-4 | 83   |
| 5    |    | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 80   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

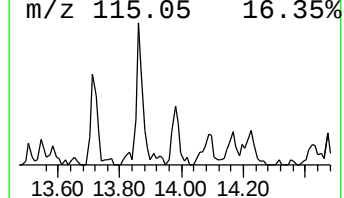
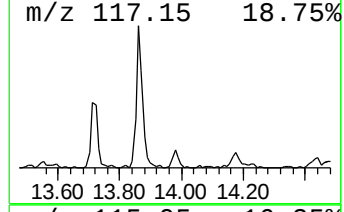
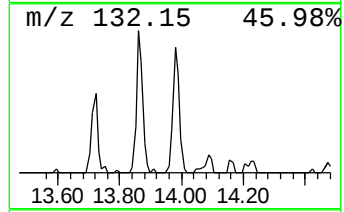
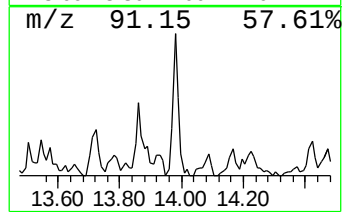
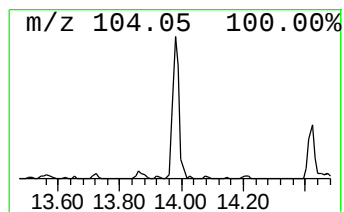
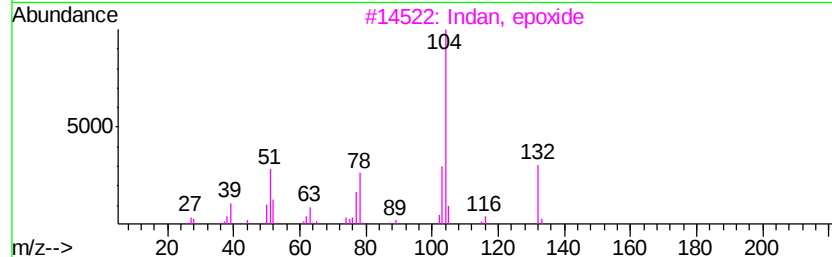
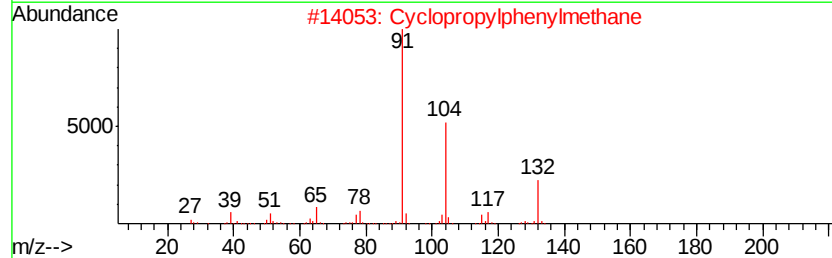
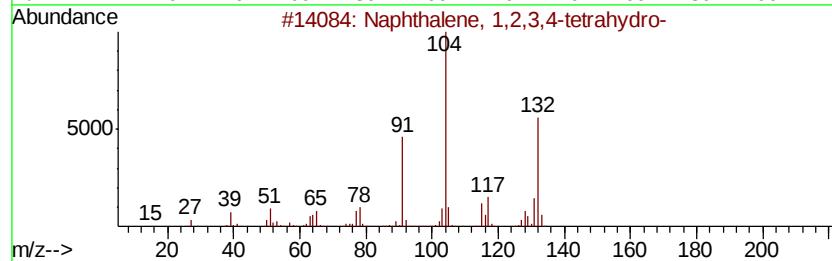
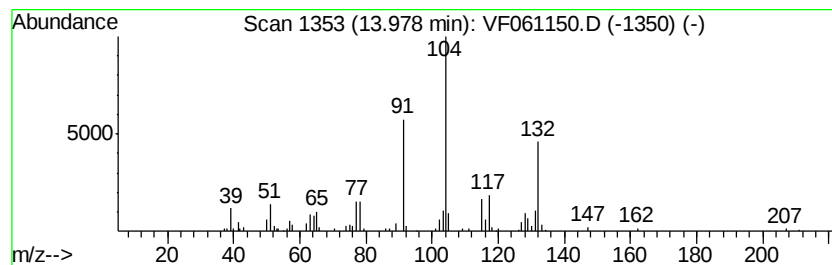
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 4

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |
|-------|------------|-------|------------------------|-------|
| 13.98 | 10.12 ug/l | 63727 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#        | Qual |
|------|----|----------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12    | 000119-64-2 | 87   |
| 2    |    | Cyclopropylphenylmethane         | 132 | C10H12    | 001667-00-1 | 80   |
| 3    |    | Indan, epoxide                   | 132 | C9H8O     | 000768-22-9 | 62   |
| 4    |    | Benzene, 3-cyclohexen-1-yl-      | 158 | C12H14    | 004994-16-5 | 47   |
| 5    |    | Phensuximide                     | 189 | C11H11NO2 | 000086-34-0 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
Quant Title : SW846 8260

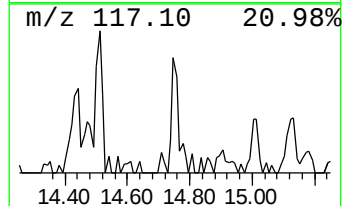
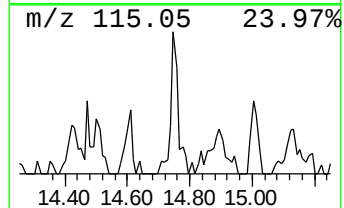
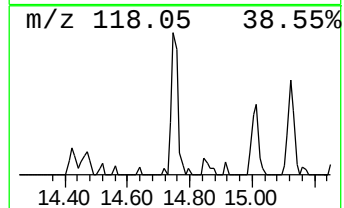
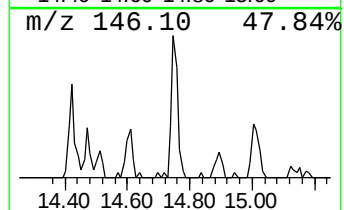
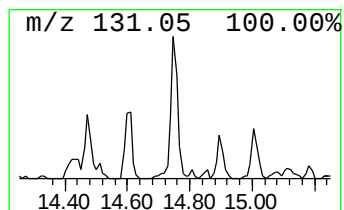
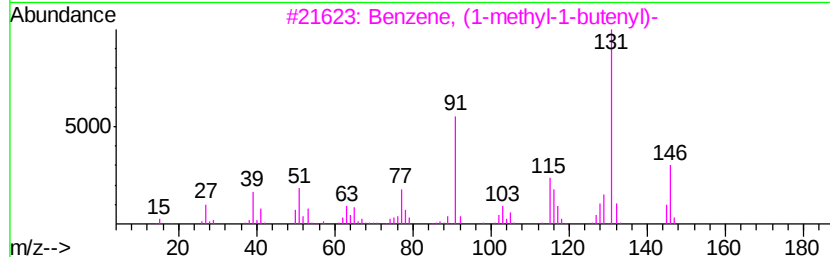
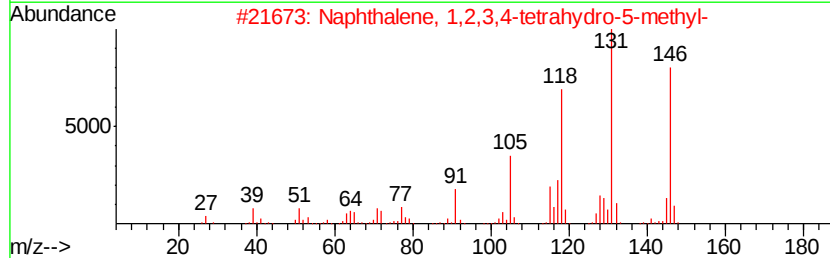
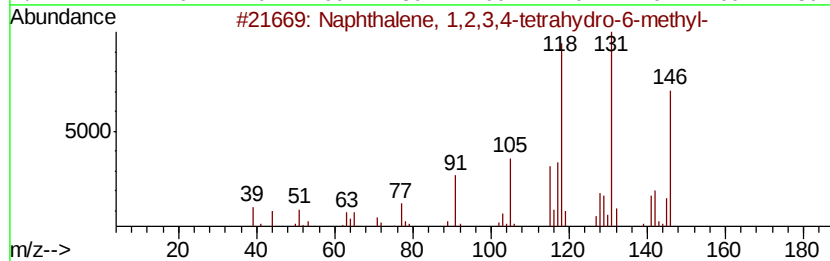
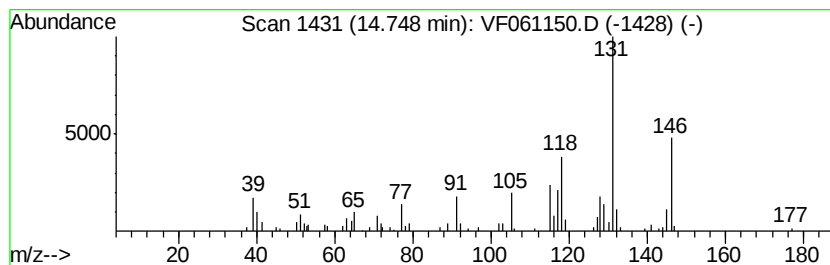
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.75 | 7.81 ug/l | 49141 | 1,4-Dichlorobenzene-d4 | 12.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 86   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 76   |
| 3    |    | Benzene, (1-methyl-1-butenyl)-      | 146 | C11H14  | 053172-84-2 | 64   |
| 4    |    | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14  | 097664-18-1 | 62   |
| 5    |    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14  | 020836-11-7 | 60   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF122218\  
Data File : VF061150.D  
Acq On : 22 Dec 2018 17:54  
Operator : VA/AP  
Sample : J6191-01  
Misc : 6.14g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-07-122018-A

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.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 |
| Butane               | 1.09  | 7.6     | ug/l  | 117757   | 1                     | 4.88  | 777475 | 50.0 |
| Benzene, 1-ethyl-... | 11.72 | 11.0    | ug/l  | 69317    | 4                     | 12.56 | 314788 | 50.0 |
| Benzene, 1,2,4-tr... | 12.62 | 9.1     | ug/l  | 57391    | 4                     | 12.56 | 314788 | 50.0 |
| Benzene, 2-propenyl- | 12.74 | 8.6     | ug/l  | 53955    | 4                     | 12.56 | 314788 | 50.0 |
| Benzene, 2-ethyl-... | 13.10 | 8.2     | ug/l  | 51858    | 4                     | 12.56 | 314788 | 50.0 |
| Benzene, 4-ethyl-... | 13.16 | 8.3     | ug/l  | 52400    | 4                     | 12.56 | 314788 | 50.0 |
| Benzene, 2-etheny... | 13.72 | 10.3    | ug/l  | 64740    | 4                     | 12.56 | 314788 | 50.0 |
| 1H-Indene, 2,3-di... | 13.86 | 16.2    | ug/l  | 102143   | 4                     | 12.56 | 314788 | 50.0 |
| Naphthalene, 1,2,... | 13.98 | 10.1    | ug/l  | 63727    | 4                     | 12.56 | 314788 | 50.0 |
| Naphthalene, 1,2,... | 14.75 | 7.8     | ug/l  | 49141    | 4                     | 12.56 | 314788 | 50.0 |