

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
 Data File : VF062121.D  
 Acq On : 23 Mar 2019 17:05  
 Operator : VA/AP  
 Sample : K2045-09  
 Misc : 6.29g/5mL/MSVOA-F/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 WP022SB438-190318-(25-27)

## 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\82F032219S.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         | 1.515       | 87            | 90          | 95           | rVB2     | 4666           | 14271         | 1.70%           | 0.174%        |
| 2         | 2.185       | 155           | 158         | 160          | rBV2     | 7295           | 11740         | 1.40%           | 0.143%        |
| 3         | 2.244       | 160           | 164         | 169          | rVV3     | 16638          | 50917         | 6.07%           | 0.621%        |
| 4         | 2.304       | 169           | 170         | 174          | rVV3     | 6067           | 10304         | 1.23%           | 0.126%        |
| 5         | 2.382       | 174           | 178         | 180          | rVB3     | 6610           | 12379         | 1.48%           | 0.151%        |
| 6         | 2.728       | 208           | 213         | 216          | rBV5     | 3343           | 10101         | 1.20%           | 0.123%        |
| 7         | 3.073       | 247           | 248         | 251          | rBV      | 9179           | 9251          | 1.10%           | 0.113%        |
| 8         | 3.477       | 283           | 289         | 296          | rVV      | 60841          | 164040        | 19.56%          | 2.000%        |
| 9         | 4.019       | 336           | 344         | 348          | rBV      | 41013          | 148803        | 17.74%          | 1.814%        |
| 10        | 4.118       | 349           | 354         | 364          | rVB      | 116781         | 368284        | 43.91%          | 4.489%        |
| 11        | 4.424       | 376           | 385         | 395          | rBV      | 18612          | 76734         | 9.15%           | 0.935%        |
| 12        | 4.867       | 421           | 430         | 438          | rBV2     | 242125         | 838793        | 100.00%         | 10.225%       |
| 13        | 5.597       | 498           | 504         | 516          | rBV      | 270951         | 747489        | 89.11%          | 9.112%        |
| 14        | 5.903       | 533           | 535         | 537          | rVV2     | 9563           | 10164         | 1.21%           | 0.124%        |
| 15        | 7.559       | 697           | 703         | 711          | rVV      | 299060         | 723626        | 86.27%          | 8.821%        |
| 16        | 8.121       | 757           | 760         | 764          | rVB2     | 5078           | 11465         | 1.37%           | 0.140%        |
| 17        | 8.279       | 772           | 776         | 782          | rVB2     | 13626          | 35731         | 4.26%           | 0.436%        |
| 18        | 8.457       | 787           | 794         | 799          | rBV5     | 6528           | 19119         | 2.28%           | 0.233%        |
| 19        | 8.970       | 841           | 846         | 850          | rVB3     | 9672           | 20692         | 2.47%           | 0.252%        |
| 20        | 9.117       | 857           | 861         | 867          | rVB3     | 15495          | 41543         | 4.95%           | 0.506%        |
| 21        | 9.285       | 871           | 878         | 883          | rVB2     | 14480          | 40432         | 4.82%           | 0.493%        |
| 22        | 9.403       | 888           | 890         | 895          | rVB3     | 4520           | 11020         | 1.31%           | 0.134%        |
| 23        | 9.778       | 920           | 928         | 935          | rBV      | 342745         | 755816        | 90.11%          | 9.213%        |
| 24        | 9.896       | 935           | 940         | 944          | rVV      | 44446          | 100230        | 11.95%          | 1.222%        |
| 25        | 10.261      | 970           | 977         | 982          | rBV6     | 7320           | 28416         | 3.39%           | 0.346%        |
| 26        | 10.350      | 982           | 986         | 992          | rBV2     | 17738          | 39751         | 4.74%           | 0.485%        |
| 27        | 10.488      | 996           | 1000        | 1005         | rVB2     | 19861          | 48897         | 5.83%           | 0.596%        |
| 28        | 10.567      | 1005          | 1008        | 1010         | rBV3     | 8142           | 13844         | 1.65%           | 0.169%        |
| 29        | 10.666      | 1010          | 1018        | 1023         | rBV      | 80398          | 163911        | 19.54%          | 1.998%        |
| 30        | 10.784      | 1026          | 1030        | 1032         | rVV3     | 21439          | 50733         | 6.05%           | 0.618%        |
| 31        | 10.823      | 1032          | 1034        | 1038         | rVV      | 37687          | 76174         | 9.08%           | 0.929%        |
| 32        | 10.882      | 1038          | 1040        | 1044         | rVB3     | 7391           | 11957         | 1.43%           | 0.146%        |
| 33        | 10.961      | 1044          | 1048        | 1051         | rVB5     | 9069           | 19541         | 2.33%           | 0.238%        |
| 34        | 11.050      | 1051          | 1057        | 1059         | rBV2     | 26897          | 65333         | 7.79%           | 0.796%        |

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 ALS Vial : 11 Sample Multiplier: 1

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 WP022SB438-190318-(25-27)

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 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\82F032219S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 11.119 | 1059 | 1064 | 1066 | rBV2 | 46378  | 80412  | 9.59%  | 0.980% |
| 36 | 11.159 | 1066 | 1068 | 1072 | rVB  | 59854  | 90471  | 10.79% | 1.103% |
| 37 | 11.228 | 1072 | 1075 | 1077 | rBV3 | 15315  | 34002  | 4.05%  | 0.414% |
| 38 | 11.267 | 1077 | 1079 | 1084 | rVB2 | 56595  | 93768  | 11.18% | 1.143% |
| 39 | 11.415 | 1086 | 1094 | 1101 | rBV  | 260862 | 511664 | 61.00% | 6.237% |
| 40 | 11.553 | 1105 | 1108 | 1112 | rBV4 | 45399  | 85025  | 10.14% | 1.036% |
| 41 | 11.612 | 1112 | 1114 | 1116 | rVB2 | 9069   | 12155  | 1.45%  | 0.148% |
| 42 | 11.661 | 1116 | 1119 | 1123 | rVB3 | 32761  | 58458  | 6.97%  | 0.713% |
| 43 | 11.721 | 1123 | 1125 | 1128 | rBV4 | 5954   | 10806  | 1.29%  | 0.132% |
| 44 | 11.780 | 1128 | 1131 | 1133 | rVB2 | 9902   | 15587  | 1.86%  | 0.190% |
| 45 | 11.829 | 1133 | 1136 | 1138 | rVB3 | 7261   | 11656  | 1.39%  | 0.142% |
| 46 | 11.888 | 1138 | 1142 | 1144 | rBV3 | 21719  | 38558  | 4.60%  | 0.470% |
| 47 | 11.947 | 1144 | 1148 | 1150 | rBV4 | 23434  | 43270  | 5.16%  | 0.527% |
| 48 | 11.997 | 1150 | 1153 | 1157 | rVB  | 97618  | 160059 | 19.08% | 1.951% |
| 49 | 12.066 | 1157 | 1160 | 1164 | rVB4 | 15583  | 33593  | 4.00%  | 0.409% |
| 50 | 12.145 | 1164 | 1168 | 1171 | rBV4 | 33168  | 73084  | 8.71%  | 0.891% |
| 51 | 12.204 | 1171 | 1174 | 1180 | rVB5 | 39477  | 81658  | 9.74%  | 0.995% |
| 52 | 12.283 | 1180 | 1182 | 1185 | rVB2 | 26533  | 39908  | 4.76%  | 0.486% |
| 53 | 12.332 | 1185 | 1187 | 1190 | rBV4 | 13584  | 29710  | 3.54%  | 0.362% |
| 54 | 12.391 | 1190 | 1193 | 1195 | rBV3 | 23905  | 44001  | 5.25%  | 0.536% |
| 55 | 12.421 | 1195 | 1196 | 1198 | rBV2 | 9307   | 12278  | 1.46%  | 0.150% |
| 56 | 12.460 | 1198 | 1200 | 1201 | rVB2 | 9961   | 9247   | 1.10%  | 0.113% |
| 57 | 12.490 | 1201 | 1203 | 1205 | rVB2 | 12048  | 17028  | 2.03%  | 0.208% |
| 58 | 12.549 | 1205 | 1209 | 1217 | rVB  | 409154 | 661083 | 78.81% | 8.059% |
| 59 | 12.667 | 1217 | 1221 | 1224 | rBV5 | 14366  | 34546  | 4.12%  | 0.421% |
| 60 | 12.786 | 1227 | 1233 | 1235 | rBV3 | 23838  | 65943  | 7.86%  | 0.804% |
| 61 | 12.845 | 1236 | 1239 | 1242 | rVB4 | 20258  | 41717  | 4.97%  | 0.509% |
| 62 | 12.904 | 1242 | 1245 | 1246 | rBV2 | 8439   | 9989   | 1.19%  | 0.122% |
| 63 | 12.943 | 1246 | 1249 | 1252 | rBV3 | 18763  | 49548  | 5.91%  | 0.604% |
| 64 | 13.111 | 1262 | 1266 | 1269 | rBV3 | 22337  | 40764  | 4.86%  | 0.497% |
| 65 | 13.190 | 1270 | 1274 | 1279 | rVV  | 110204 | 205194 | 24.46% | 2.501% |
| 66 | 13.259 | 1279 | 1281 | 1282 | rVV2 | 7290   | 10813  | 1.29%  | 0.132% |
| 67 | 13.289 | 1282 | 1284 | 1286 | rVV3 | 29988  | 49881  | 5.95%  | 0.608% |
| 68 | 13.338 | 1286 | 1289 | 1291 | rVV  | 69345  | 117684 | 14.03% | 1.435% |
| 69 | 13.377 | 1291 | 1293 | 1296 | rVV3 | 24883  | 43704  | 5.21%  | 0.533% |
| 70 | 13.436 | 1298 | 1299 | 1302 | rVV3 | 13954  | 22135  | 2.64%  | 0.270% |
| 71 | 13.486 | 1302 | 1304 | 1307 | rVV4 | 8329   | 14734  | 1.76%  | 0.180% |

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|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 72 | 13.574 | 1311 | 1313 | 1318 | rVB6 | 6507  | 13219 | 1.58% | 0.161% |
| 73 | 13.673 | 1320 | 1323 | 1325 | rBV3 | 8357  | 15117 | 1.80% | 0.184% |
| 74 | 13.722 | 1325 | 1328 | 1332 | rVV4 | 12283 | 33691 | 4.02% | 0.411% |
| 75 | 13.801 | 1332 | 1336 | 1338 | rVV3 | 31332 | 44300 | 5.28% | 0.540% |
| 76 | 13.851 | 1338 | 1341 | 1344 | rVV2 | 23118 | 47115 | 5.62% | 0.574% |
| 77 | 13.900 | 1344 | 1346 | 1348 | rVV  | 22538 | 29264 | 3.49% | 0.357% |
| 78 | 13.949 | 1348 | 1351 | 1354 | rVB3 | 16647 | 29414 | 3.51% | 0.359% |
| 79 | 13.998 | 1354 | 1356 | 1359 | rBV3 | 8132  | 16623 | 1.98% | 0.203% |
| 80 | 14.097 | 1364 | 1366 | 1369 | rVV4 | 6583  | 10919 | 1.30% | 0.133% |
| 81 | 14.156 | 1369 | 1372 | 1374 | rVV3 | 23761 | 35232 | 4.20% | 0.429% |
| 82 | 14.196 | 1374 | 1376 | 1379 | rVV  | 24338 | 36006 | 4.29% | 0.439% |
| 83 | 14.245 | 1379 | 1381 | 1383 | rVV3 | 10332 | 15233 | 1.82% | 0.186% |
| 84 | 14.294 | 1384 | 1386 | 1392 | rVV5 | 13748 | 34524 | 4.12% | 0.421% |
| 85 | 14.422 | 1396 | 1399 | 1401 | rBV4 | 10948 | 18932 | 2.26% | 0.231% |
| 86 | 14.462 | 1401 | 1403 | 1404 | rVV2 | 7464  | 11149 | 1.33% | 0.136% |
| 87 | 14.492 | 1404 | 1406 | 1408 | rVB3 | 11190 | 13508 | 1.61% | 0.165% |
| 88 | 14.580 | 1413 | 1415 | 1419 | rVV4 | 9528  | 20214 | 2.41% | 0.246% |
| 89 | 14.630 | 1419 | 1420 | 1424 | rVV4 | 7164  | 14793 | 1.76% | 0.180% |
| 90 | 14.777 | 1432 | 1435 | 1437 | rBV3 | 4233  | 9253  | 1.10% | 0.113% |
| 91 | 15.172 | 1472 | 1475 | 1481 | rVV2 | 10777 | 30942 | 3.69% | 0.377% |
| 92 | 15.261 | 1481 | 1484 | 1486 | rVV3 | 4803  | 9300  | 1.11% | 0.113% |
| 93 | 15.773 | 1533 | 1536 | 1538 | rBV  | 5131  | 9088  | 1.08% | 0.111% |

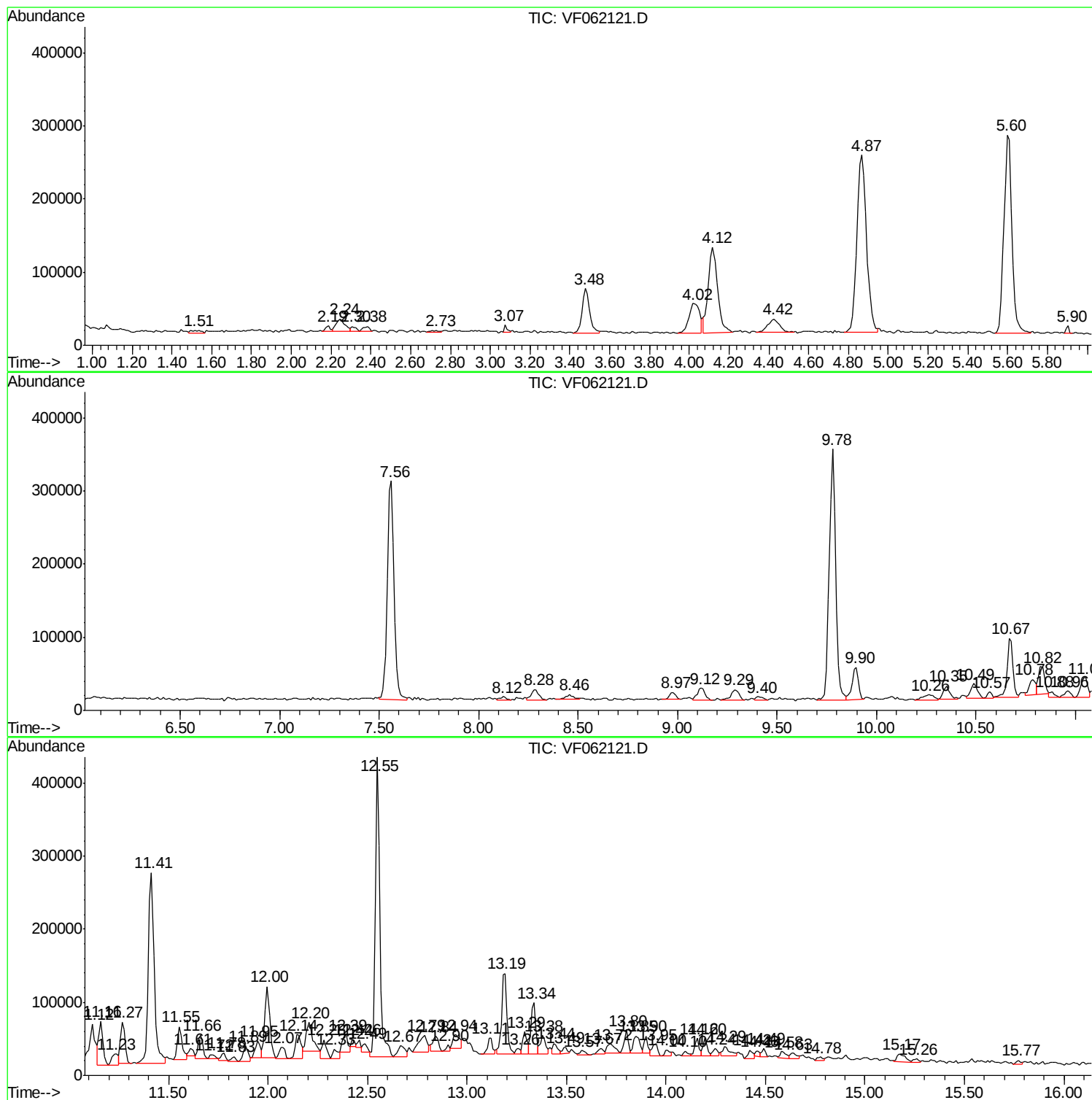
Sum of corrected areas: 8203470

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
Data File : VF062121.D  
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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
Data File : VF062121.D  
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Instrument :  
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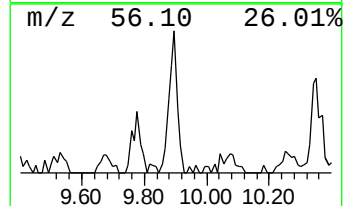
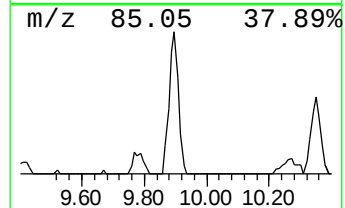
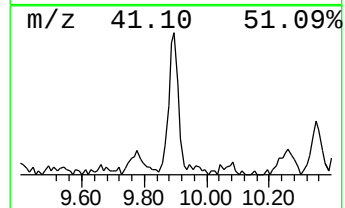
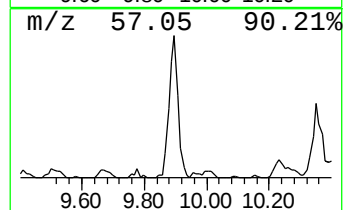
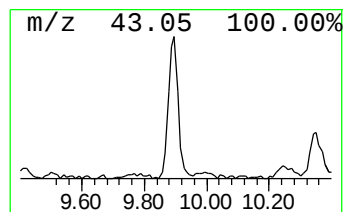
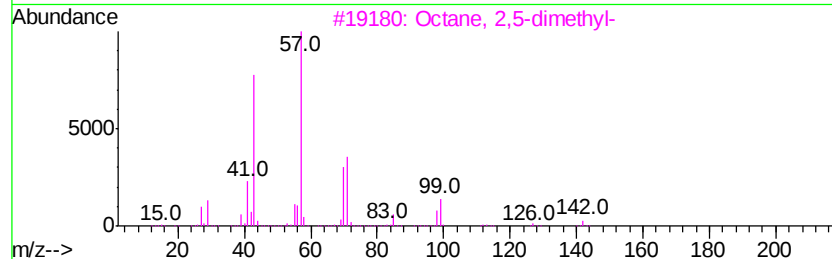
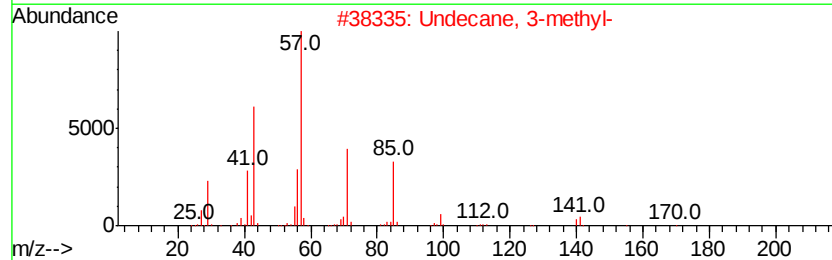
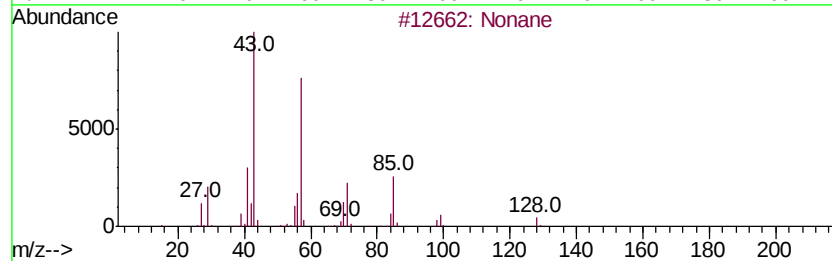
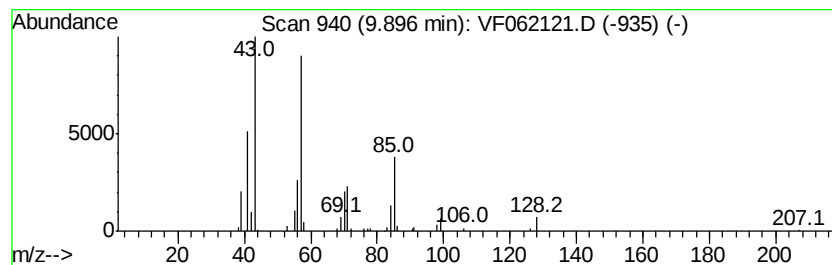
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Nonane Concentration Rank 7

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.90 | 6.63 ug/l | 100230 | Chlorobenzene-d5 | 9.78 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane                   | 128 | C9H20   | 000111-84-2 | 87   |
| 2    |    | Undecane, 3-methyl-      | 170 | C12H26  | 001002-43-3 | 50   |
| 3    |    | Octane, 2,5-dimethyl-    | 142 | C10H22  | 015869-89-3 | 50   |
| 4    |    | Hexane, 2,3,4-trimethyl- | 128 | C9H20   | 000921-47-1 | 50   |
| 5    |    | Hexane, 1-propoxy-       | 144 | C9H20O  | 053685-78-2 | 47   |



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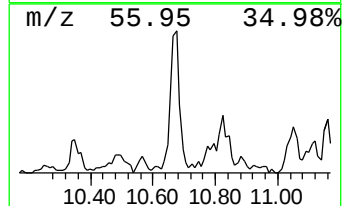
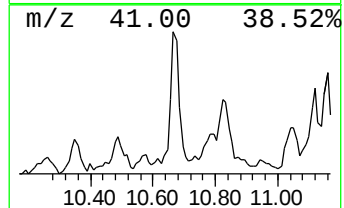
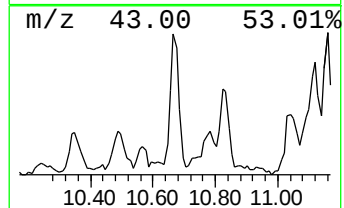
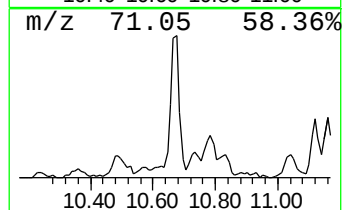
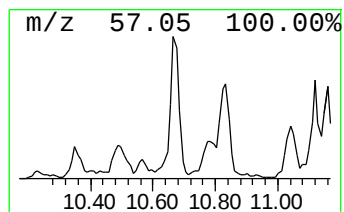
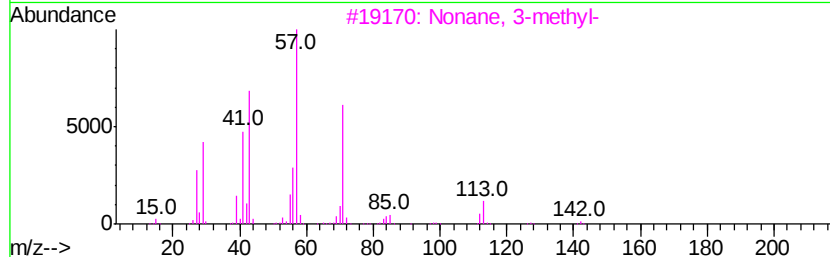
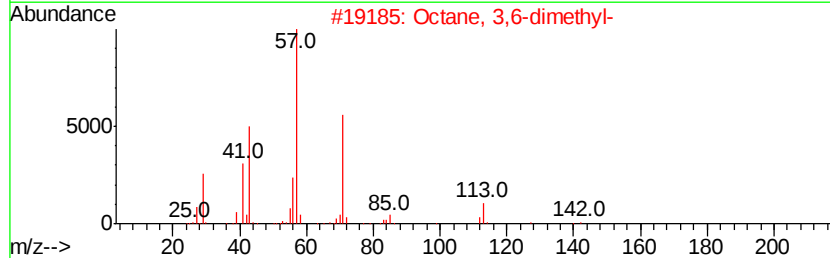
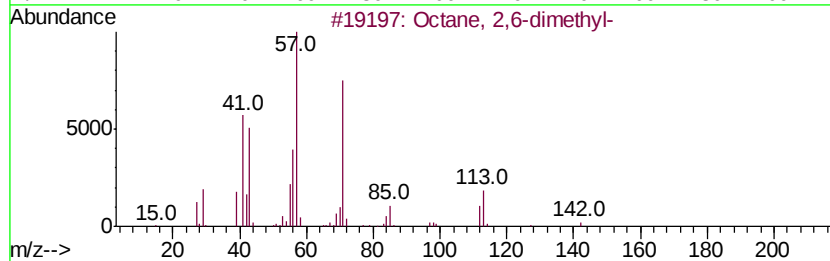
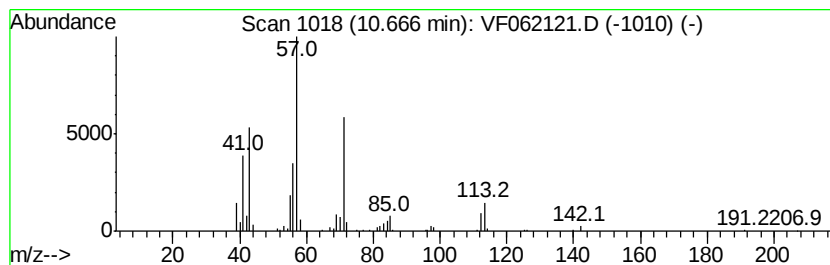
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Quant Title : SW846 8260

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

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

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|------------|-------------------------------------|------------------|-----------|--------------|------|
| 10.67   | 10.84 ug/l | 163911                              | Chlorobenzene-d5 | 9.78      |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |            | Octane, 2,6-dimethyl-               | 142              | C10H22    | 002051-30-1  | 91   |
| 2       |            | Octane, 3,6-dimethyl-               | 142              | C10H22    | 015869-94-0  | 91   |
| 3       |            | Nonane, 3-methyl-                   | 142              | C10H22    | 005911-04-6  | 91   |
| 4       |            | Sulfurous acid, dodecyl 2-ethylh... | 362              | C20H42O3S | 1000309-19-5 | 72   |
| 5       |            | Undecane, 4,5-dimethyl-             | 184              | C13H28    | 017312-79-7  | 64   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

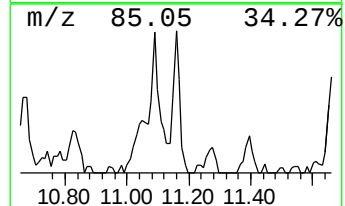
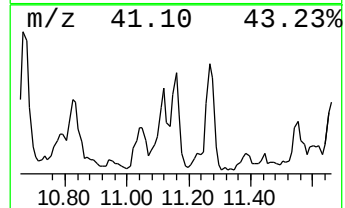
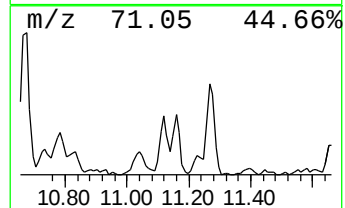
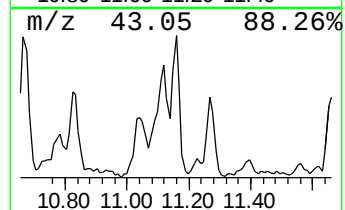
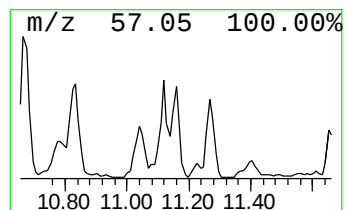
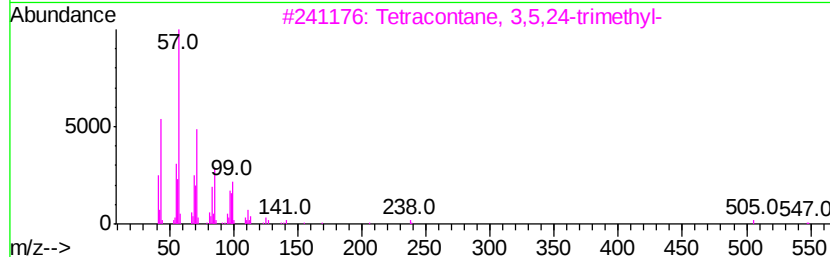
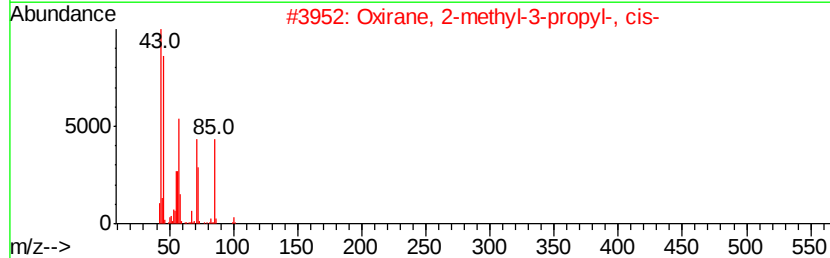
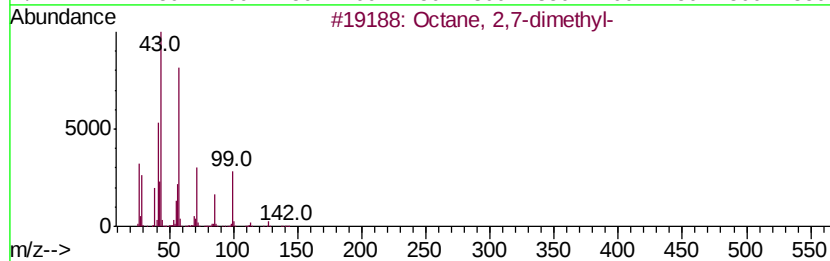
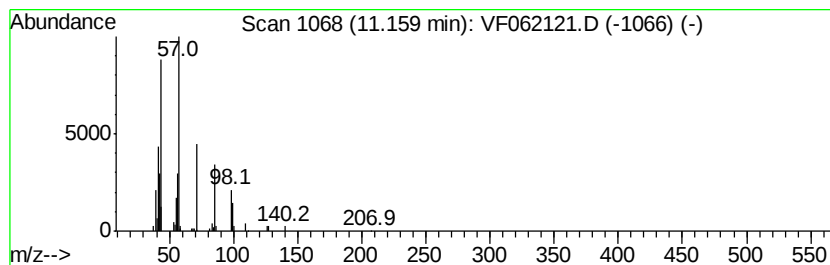
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Octane, 2,7-dimethyl- Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T. |
|-------|-----------|-------|------------------|------|
| 11.16 | 5.98 ug/l | 90471 | Chlorobenzene-d5 | 9.78 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,7-dimethyl-             | 142 | C10H22  | 001072-16-8 | 53   |
| 2    |    | Oxirane, 2-methyl-3-propyl-, cis- | 100 | C6H12O  | 006124-90-9 | 52   |
| 3    |    | Tetracontane, 3,5,24-trimethyl-   | 605 | C43H88  | 055162-61-3 | 50   |
| 4    |    | Octane                            | 114 | C8H18   | 000111-65-9 | 50   |
| 5    |    | Decane, 5-methyl-                 | 156 | C11H24  | 013151-35-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

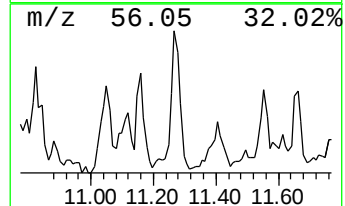
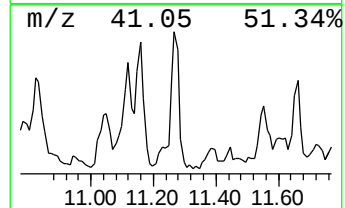
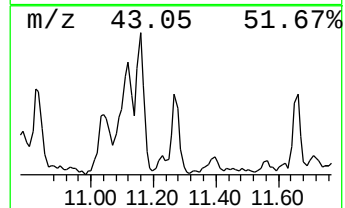
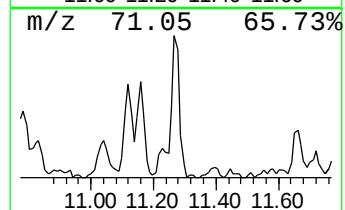
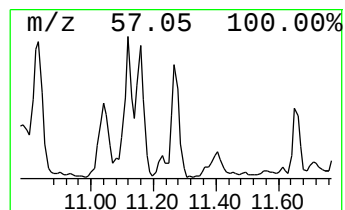
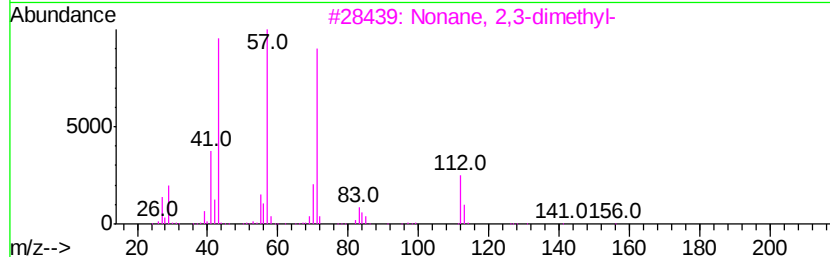
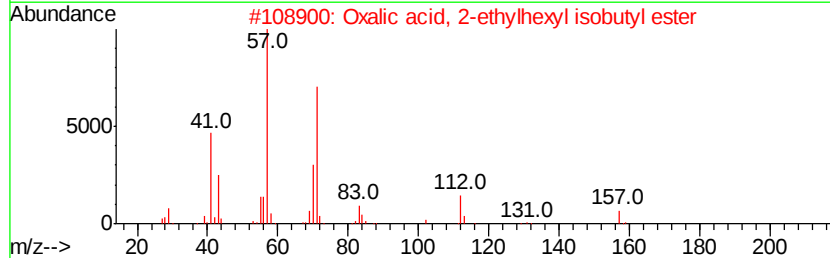
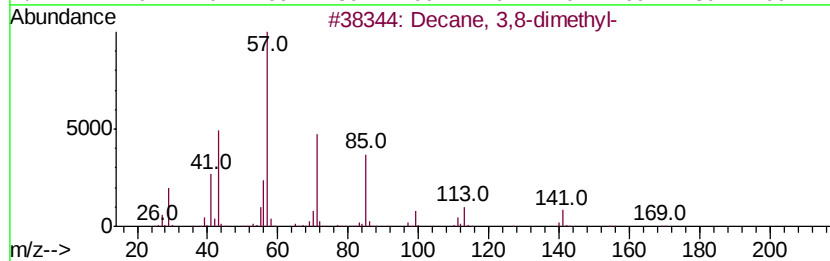
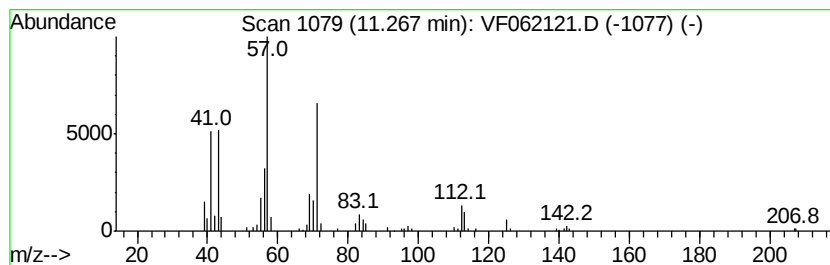
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Decane, 3,8-dimethyl- Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.27 | 7.09 ug/l | 93768 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Decane, 3,8-dimethyl-               | 170 | C12H26    | 017312-55-9  | 64   |
| 2    |    | Oxalic acid, 2-ethylhexyl isobut... | 258 | C14H26O4  | 1000309-38-5 | 64   |
| 3    |    | Nonane, 2,3-dimethyl-               | 156 | C11H24    | 002884-06-2  | 59   |
| 4    |    | Undecane, 4,6-dimethyl-             | 184 | C13H28    | 017312-82-2  | 59   |
| 5    |    | 2-Ethylhexyl mercaptoacetate        | 204 | C10H20O2S | 007659-86-1  | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

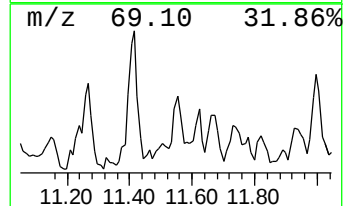
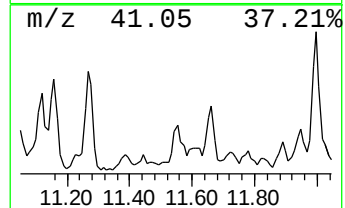
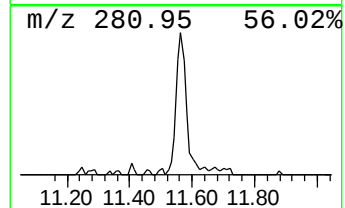
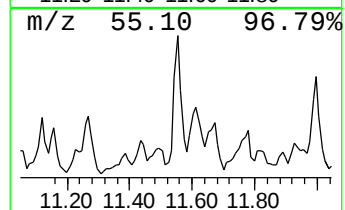
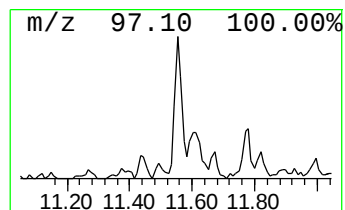
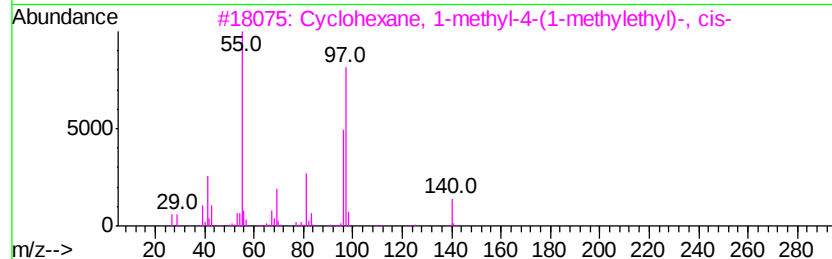
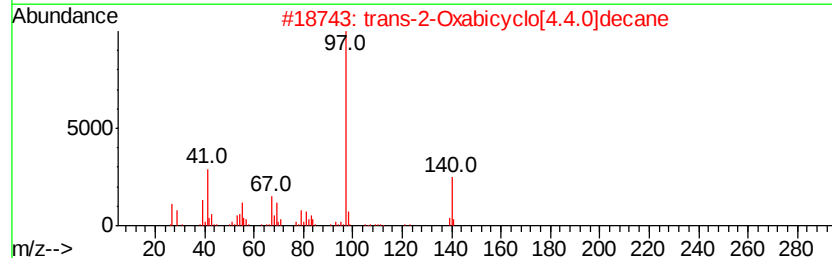
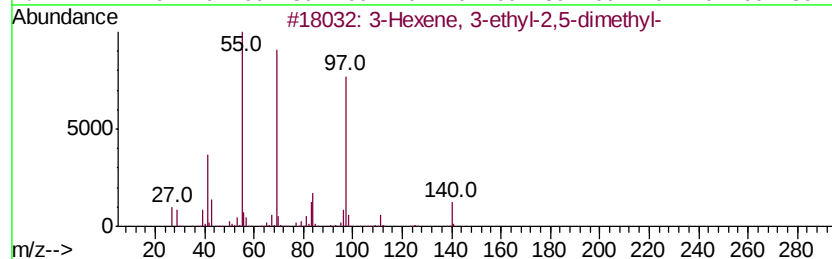
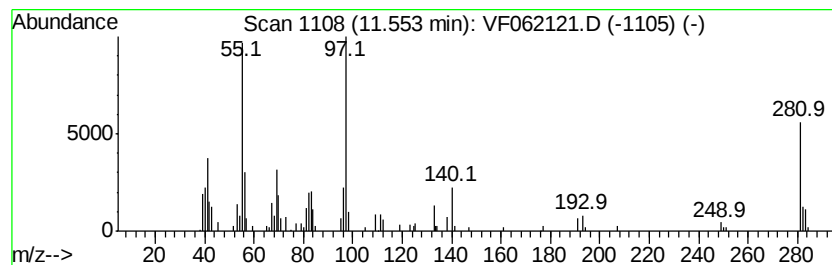
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 3-Hexene, 3-ethyl-2,5-dimet... Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.55 | 6.43 ug/l | 85025 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Hexene, 3-ethyl-2,5-dimethyl-      | 140 | C10H20  | 062338-08-3 | 46   |
| 2    |    | trans-2-Oxabicyclo[4.4.0]decane      | 140 | C9H16O  | 059958-46-2 | 43   |
| 3    |    | Cyclohexane, 1-methyl-4-(1-methyl... | 140 | C10H20  | 006069-98-3 | 43   |
| 4    |    | cis-2-Oxabicyclo[4.4.0]decane        | 140 | C9H16O  | 060416-19-5 | 43   |
| 5    |    | Cyclohexane, 1,3-dimethyl-, cis-     | 112 | C8H16   | 000638-04-0 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

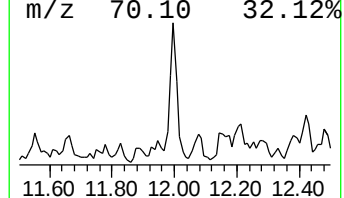
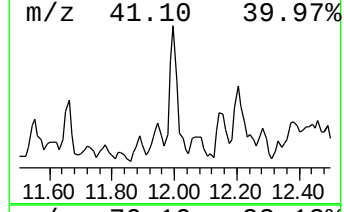
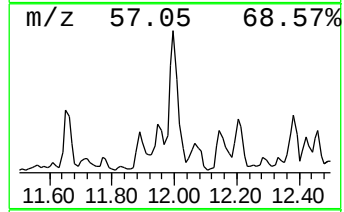
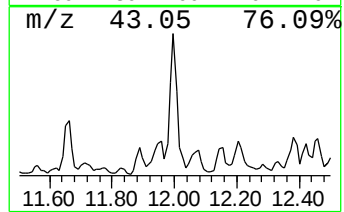
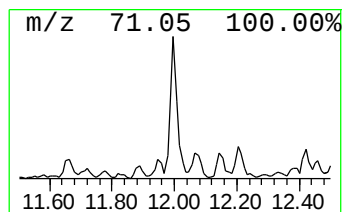
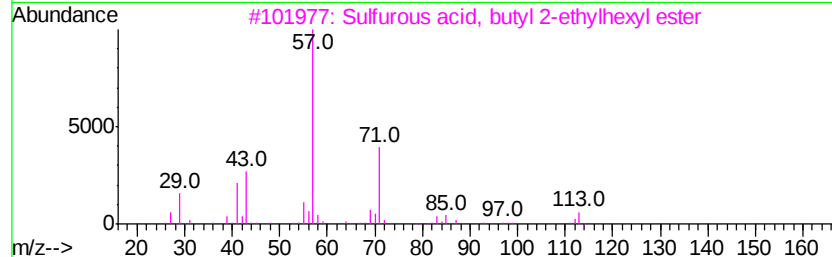
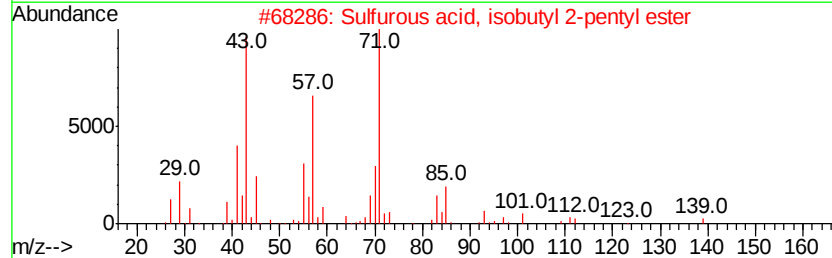
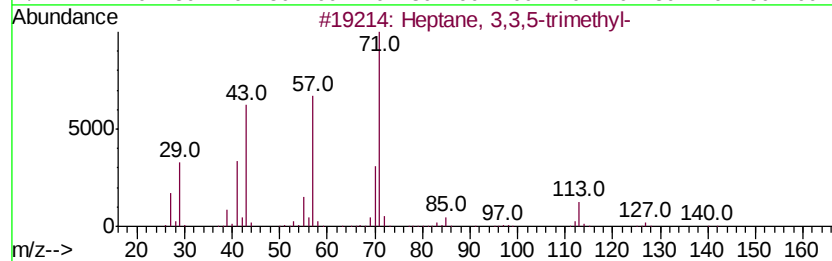
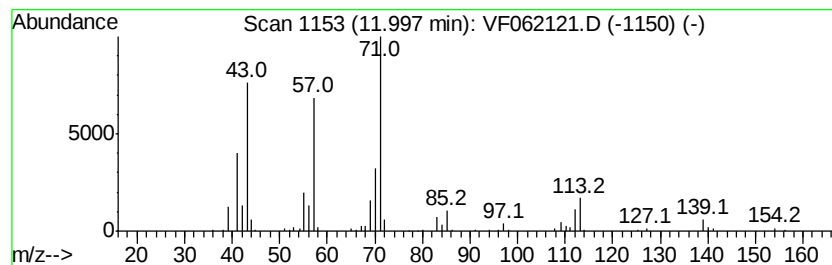
Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 7 Heptane, 3,3,5-trimethyl- Concentration Rank 2

| R.T.    | EstConc                              | Area          | Relative to ISTD       | R.T.      |
|---------|--------------------------------------|---------------|------------------------|-----------|
| 12.00   | 12.11 ug/l                           | 160059        | 1,4-Dichlorobenzene-d4 | 12.55     |
| Hit# of | 5                                    | Tentative ID  | MW MolForm             | CAS# Qual |
| 1       | Heptane, 3,3,5-trimethyl-            | 142 C10H22    | 007154-80-5            | 64        |
| 2       | Sulfurous acid, isobutyl 2-pentyl... | 208 C9H20O3S  | 1000309-15-2           | 64        |
| 3       | Sulfurous acid, butyl 2-ethylhex...  | 250 C12H26O3S | 1000309-18-8           | 64        |
| 4       | Sulfurous acid, decyl 2-ethylhex...  | 334 C18H38O3S | 1000309-19-3           | 64        |
| 5       | Decane, 4-methyl-                    | 156 C11H24    | 002847-72-5            | 60        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

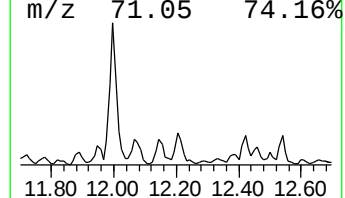
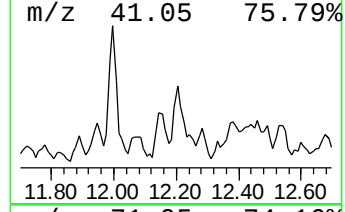
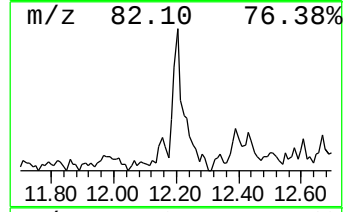
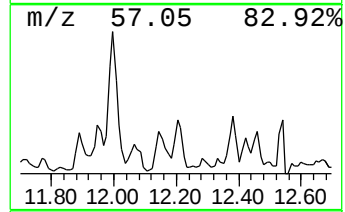
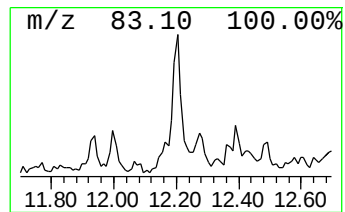
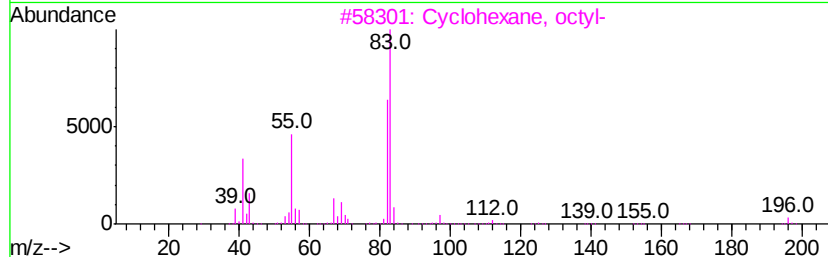
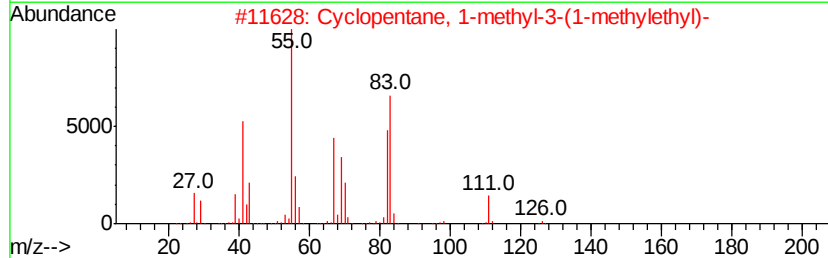
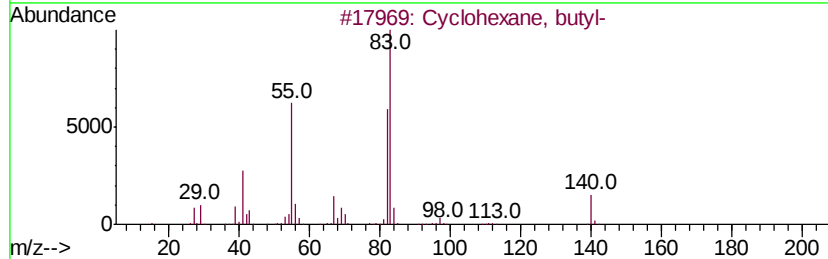
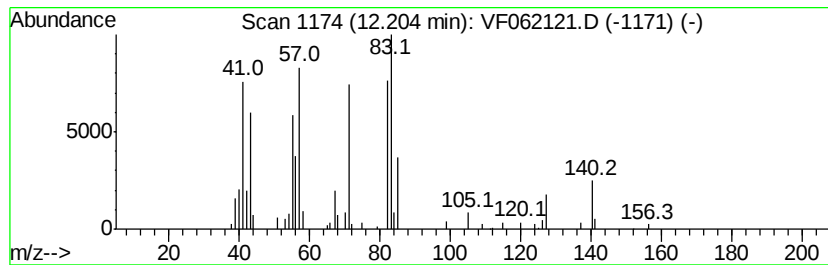
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 unknown12.20 Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.20 | 6.18 ug/l | 81658 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, butyl-                 | 140 | C10H20  | 001678-93-9 | 49   |
| 2    |    | Cyclopentane, 1-methyl-3-(1-meth... | 126 | C9H18   | 053771-88-3 | 43   |
| 3    |    | Cyclohexane, octyl-                 | 196 | C14H28  | 001795-15-9 | 43   |
| 4    |    | Cyclohexane, undecyl-               | 238 | C17H34  | 054105-66-7 | 43   |
| 5    |    | Cyclohexane, decyl-                 | 224 | C16H32  | 001795-16-0 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

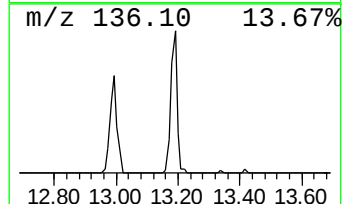
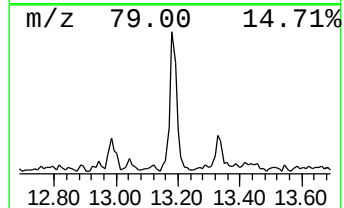
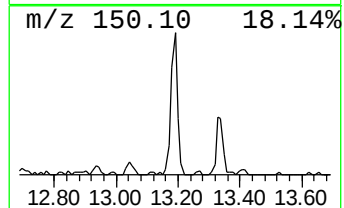
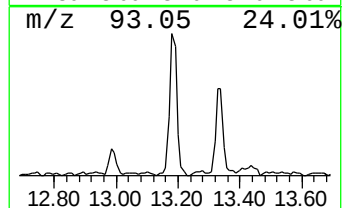
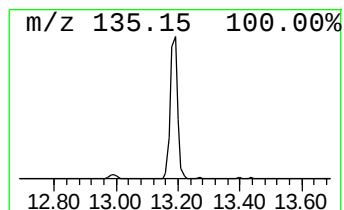
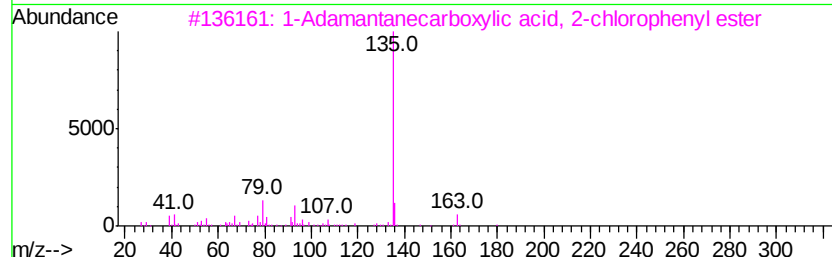
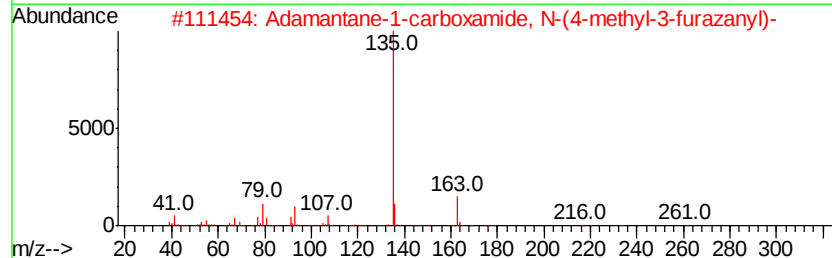
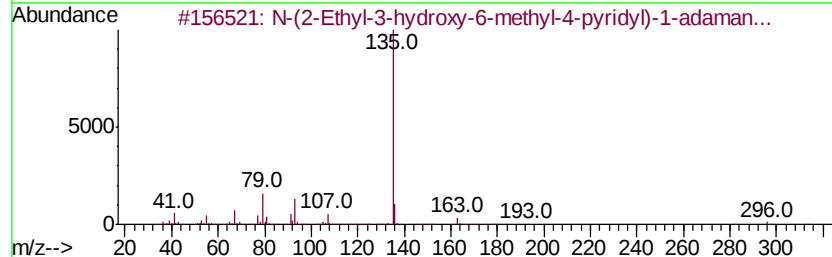
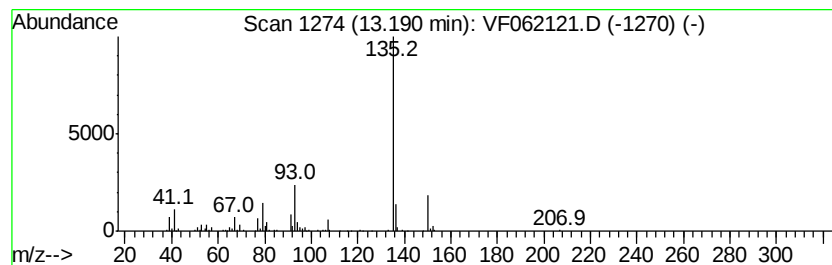
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 N-(2-Ethyl-3-hydroxy-6-meth... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.19 | 15.52 ug/l | 205194 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | N-(2-Ethyl-3-hydroxy-6-methyl-4-... | 314 | C19H26N2O2 | 1000260-99-4 | 72   |
| 2    |    | Adamantane-1-carboxamide, N-(4-m... | 261 | C14H19N3O2 | 332042-32-7  | 64   |
| 3    |    | 1-Adamantanecarboxylic acid, 2-c... | 290 | C17H19ClO2 | 1000293-75-4 | 64   |
| 4    |    | 1-Adamantanecarboxylic acid, 2-o... | 292 | C19H32O2   | 1000282-62-7 | 64   |
| 5    |    | Pentafluoropropionic acid, 2-(1-... | 326 | C15H19F5O2 | 1000283-03-9 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

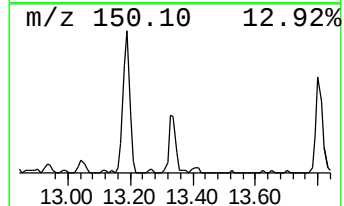
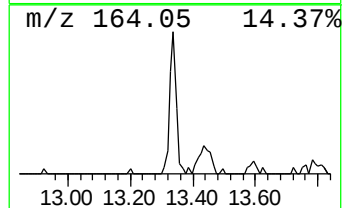
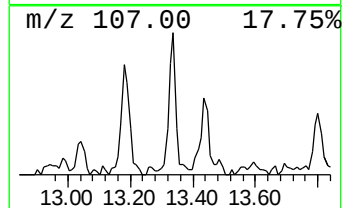
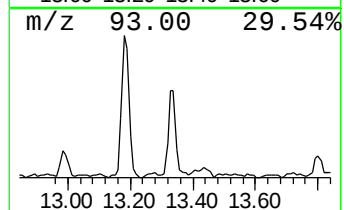
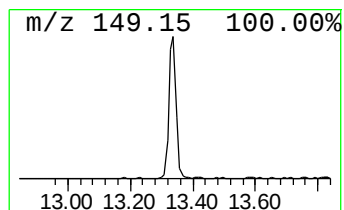
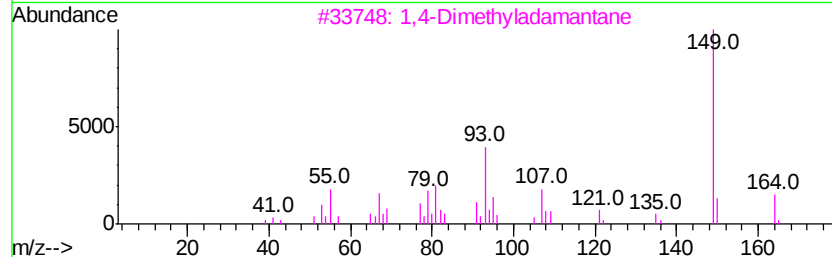
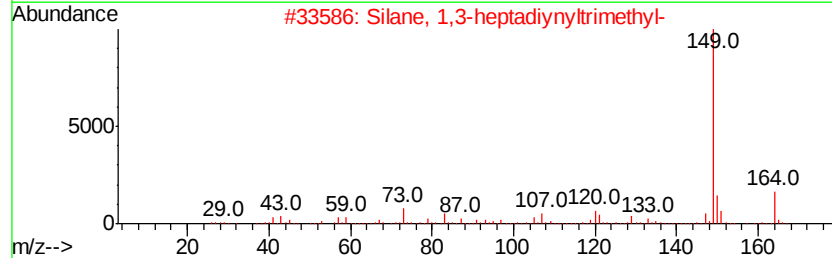
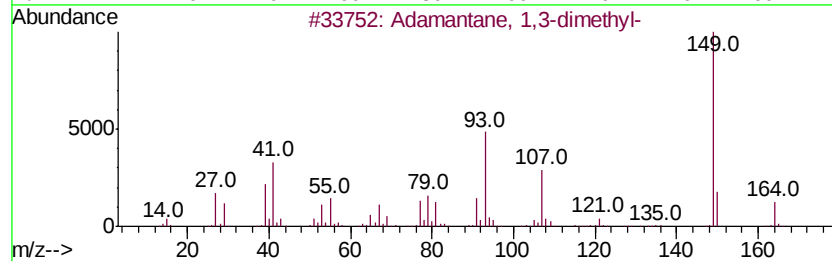
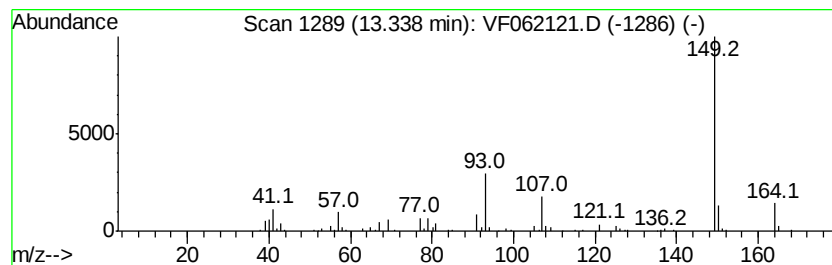
Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 10 Adamantane, 1,3-dimethyl- Concentration Rank 4

| R.T.    | EstConc                           | Area         | Relative to ISTD       | R.T.      |
|---------|-----------------------------------|--------------|------------------------|-----------|
| 13.34   | 8.90 ug/l                         | 117684       | 1,4-Dichlorobenzene-d4 | 12.55     |
| Hit# of | 5                                 | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Adamantane, 1,3-dimethyl-         | 164 C12H20   | 000702-79-4            | 83        |
| 2       | Silane, 1,3-heptadiynyltrimethyl- | 164 C10H16Si | 019024-47-6            | 58        |
| 3       | 1,4-Dimethyladamantane            | 164 C12H20   | 024145-88-8            | 56        |
| 4       | 1,4-Dimethyladamantane            | 164 C12H20   | 024145-89-9            | 56        |
| 5       | Pyridine, pentamethyl-            | 149 C10H15N  | 003748-83-2            | 53        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF032319\  
Data File : VF062121.D  
Acq On : 23 Mar 2019 17:05  
Operator : VA/AP  
Sample : K2045-09  
Misc : 6.29g/5mL/MSVOA-F/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB438-190318-(25-27)

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Nonane               | 9.90  | 6.6     | ug/l  | 100230   | 3                     | 9.78  | 755816 | 50.0 |
| Octane, 2,6-dimet... | 10.67 | 10.8    | ug/l  | 163911   | 3                     | 9.78  | 755816 | 50.0 |
| Octane, 2,7-dimet... | 11.16 | 6.0     | ug/l  | 90471    | 3                     | 9.78  | 755816 | 50.0 |
| Decane, 3,8-dimet... | 11.27 | 7.1     | ug/l  | 93768    | 4                     | 12.55 | 661083 | 50.0 |
| 3-Hexene, 3-ethyl... | 11.55 | 6.4     | ug/l  | 85025    | 4                     | 12.55 | 661083 | 50.0 |
| Heptane, 3,3,5-tr... | 12.00 | 12.1    | ug/l  | 160059   | 4                     | 12.55 | 661083 | 50.0 |
| unknown12.20         | 12.20 | 6.2     | ug/l  | 81658    | 4                     | 12.55 | 661083 | 50.0 |
| N-(2-Ethyl-3-hydr... | 13.19 | 15.5    | ug/l  | 205194   | 4                     | 12.55 | 661083 | 50.0 |
| Adamantane, 1,3-d... | 13.34 | 8.9     | ug/l  | 117684   | 4                     | 12.55 | 661083 | 50.0 |