

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\  
 Data File : VF062120.D  
 Acq On : 23 Mar 2019 16:36  
 Operator : VA/AP  
 Sample : K2045-06  
 Misc : 6.05g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 WP022SB439-190318-(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         | 1.076       | 43            | 45          | 48           | rBV2     | 6412           | 9860          | 1.15%           | 0.146%        |
| 2         | 1.145       | 48            | 52          | 59           | rVB3     | 10732          | 33003         | 3.86%           | 0.490%        |
| 3         | 2.171       | 151           | 156         | 160          | rBV3     | 6923           | 21439         | 2.51%           | 0.318%        |
| 4         | 2.250       | 160           | 164         | 174          | rVV5     | 15015          | 60158         | 7.03%           | 0.894%        |
| 5         | 2.388       | 174           | 178         | 181          | rVB3     | 5284           | 12965         | 1.51%           | 0.193%        |
| 6         | 3.167       | 256           | 257         | 260          | rVB      | 18832          | 14740         | 1.72%           | 0.219%        |
| 7         | 3.473       | 283           | 288         | 289          | rBV3     | 3882           | 8935          | 1.04%           | 0.133%        |
| 8         | 4.025       | 337           | 344         | 348          | rVV      | 26021          | 93484         | 10.92%          | 1.389%        |
| 9         | 4.114       | 348           | 353         | 365          | rVV2     | 118559         | 391863        | 45.79%          | 5.821%        |
| 10        | 4.863       | 422           | 429         | 440          | rBV2     | 246231         | 855780        | 100.00%         | 12.713%       |
| 11        | 5.603       | 497           | 504         | 512          | rBV      | 298656         | 815071        | 95.24%          | 12.108%       |
| 12        | 7.555       | 697           | 702         | 710          | rBV      | 300799         | 730424        | 85.35%          | 10.851%       |
| 13        | 9.774       | 922           | 927         | 934          | rBV      | 339860         | 761452        | 88.98%          | 11.312%       |
| 14        | 9.892       | 934           | 939         | 943          | rVB3     | 6471           | 18642         | 2.18%           | 0.277%        |
| 15        | 10.484      | 995           | 999         | 1001         | rBV      | 5078           | 9084          | 1.06%           | 0.135%        |
| 16        | 10.671      | 1014          | 1018        | 1023         | rVB3     | 20361          | 41355         | 4.83%           | 0.614%        |
| 17        | 10.789      | 1027          | 1030        | 1031         | rVV3     | 6284           | 11775         | 1.38%           | 0.175%        |
| 18        | 10.829      | 1031          | 1034        | 1044         | rVB4     | 14563          | 35955         | 4.20%           | 0.534%        |
| 19        | 11.036      | 1050          | 1055        | 1058         | rBV2     | 7536           | 15701         | 1.83%           | 0.233%        |
| 20        | 11.125      | 1058          | 1064        | 1065         | rVV3     | 12284          | 30138         | 3.52%           | 0.448%        |
| 21        | 11.164      | 1065          | 1068        | 1072         | rVB2     | 14774          | 25261         | 2.95%           | 0.375%        |
| 22        | 11.272      | 1076          | 1079        | 1081         | rVB2     | 15492          | 22938         | 2.68%           | 0.341%        |
| 23        | 11.411      | 1089          | 1093        | 1104         | rVB      | 266269         | 472769        | 55.24%          | 7.023%        |
| 24        | 11.558      | 1104          | 1108        | 1111         | rBV4     | 16844          | 32112         | 3.75%           | 0.477%        |
| 25        | 11.657      | 1115          | 1118        | 1122         | rVB3     | 17526          | 32392         | 3.79%           | 0.481%        |
| 26        | 11.726      | 1122          | 1125        | 1128         | rVB4     | 3868           | 9409          | 1.10%           | 0.140%        |
| 27        | 11.775      | 1128          | 1130        | 1134         | rVB2     | 6413           | 10575         | 1.24%           | 0.157%        |
| 28        | 11.894      | 1139          | 1142        | 1144         | rBV3     | 13156          | 23628         | 2.76%           | 0.351%        |
| 29        | 11.953      | 1144          | 1148        | 1150         | rBV5     | 13764          | 34284         | 4.01%           | 0.509%        |
| 30        | 11.992      | 1150          | 1152        | 1157         | rVB      | 66671          | 111989        | 13.09%          | 1.664%        |
| 31        | 12.071      | 1157          | 1160        | 1163         | rVB3     | 15293          | 29629         | 3.46%           | 0.440%        |
| 32        | 12.150      | 1163          | 1168        | 1171         | rBV3     | 26965          | 59801         | 6.99%           | 0.888%        |
| 33        | 12.209      | 1171          | 1174        | 1175         | rVV      | 18001          | 20837         | 2.43%           | 0.310%        |
| 34        | 12.288      | 1179          | 1182        | 1184         | rVB3     | 12329          | 21403         | 2.50%           | 0.318%        |

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

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 12.328 | 1184 | 1186 | 1188 | rBV2 | 6914   | 9701   | 1.13%  | 0.144%  |
| 36 | 12.387 | 1188 | 1192 | 1194 | rBV3 | 17999  | 33361  | 3.90%  | 0.496%  |
| 37 | 12.426 | 1194 | 1196 | 1197 | rBV2 | 11472  | 14730  | 1.72%  | 0.219%  |
| 38 | 12.456 | 1197 | 1199 | 1202 | rVB2 | 16153  | 18001  | 2.10%  | 0.267%  |
| 39 | 12.554 | 1205 | 1209 | 1216 | rBV  | 410237 | 689390 | 80.56% | 10.241% |
| 40 | 12.663 | 1218 | 1220 | 1223 | rBV3 | 9170   | 14274  | 1.67%  | 0.212%  |
| 41 | 12.752 | 1226 | 1229 | 1231 | rBV4 | 7997   | 16784  | 1.96%  | 0.249%  |
| 42 | 12.850 | 1234 | 1239 | 1242 | rVB4 | 13241  | 34509  | 4.03%  | 0.513%  |
| 43 | 12.959 | 1245 | 1250 | 1252 | rBV4 | 17114  | 47381  | 5.54%  | 0.704%  |
| 44 | 13.116 | 1263 | 1266 | 1269 | rVV3 | 24493  | 43235  | 5.05%  | 0.642%  |
| 45 | 13.185 | 1269 | 1273 | 1278 | rVV  | 86066  | 158852 | 18.56% | 2.360%  |
| 46 | 13.284 | 1278 | 1283 | 1285 | rVV4 | 26090  | 55371  | 6.47%  | 0.823%  |
| 47 | 13.333 | 1285 | 1288 | 1291 | rVV  | 69450  | 123861 | 14.47% | 1.840%  |
| 48 | 13.383 | 1291 | 1293 | 1295 | rVV2 | 21983  | 32871  | 3.84%  | 0.488%  |
| 49 | 13.442 | 1295 | 1299 | 1301 | rVV4 | 12914  | 33976  | 3.97%  | 0.505%  |
| 50 | 13.491 | 1301 | 1304 | 1306 | rVV3 | 9279   | 16291  | 1.90%  | 0.242%  |
| 51 | 13.678 | 1319 | 1323 | 1324 | rBV4 | 12172  | 24467  | 2.86%  | 0.363%  |
| 52 | 13.718 | 1324 | 1327 | 1333 | rVV5 | 20191  | 62718  | 7.33%  | 0.932%  |
| 53 | 13.797 | 1333 | 1335 | 1338 | rVV2 | 22151  | 38834  | 4.54%  | 0.577%  |
| 54 | 13.846 | 1338 | 1340 | 1343 | rVV3 | 27981  | 59626  | 6.97%  | 0.886%  |
| 55 | 13.895 | 1343 | 1345 | 1348 | rVV  | 25666  | 44908  | 5.25%  | 0.667%  |
| 56 | 13.945 | 1348 | 1350 | 1354 | rVB  | 20375  | 29179  | 3.41%  | 0.433%  |
| 57 | 14.004 | 1354 | 1356 | 1359 | rBV4 | 8945   | 15301  | 1.79%  | 0.227%  |
| 58 | 14.152 | 1368 | 1371 | 1373 | rVV3 | 27532  | 41733  | 4.88%  | 0.620%  |
| 59 | 14.191 | 1373 | 1375 | 1379 | rVV2 | 18918  | 32541  | 3.80%  | 0.483%  |
| 60 | 14.250 | 1379 | 1381 | 1383 | rVB3 | 10312  | 14061  | 1.64%  | 0.209%  |
| 61 | 14.300 | 1383 | 1386 | 1390 | rBV5 | 10969  | 22506  | 2.63%  | 0.334%  |
| 62 | 14.428 | 1396 | 1399 | 1400 | rBV2 | 13868  | 19522  | 2.28%  | 0.290%  |
| 63 | 14.457 | 1400 | 1402 | 1404 | rVV3 | 11261  | 19341  | 2.26%  | 0.287%  |
| 64 | 14.487 | 1404 | 1405 | 1409 | rVV2 | 13429  | 18817  | 2.20%  | 0.280%  |
| 65 | 14.586 | 1412 | 1415 | 1419 | rBV6 | 10399  | 20615  | 2.41%  | 0.306%  |
| 66 | 14.684 | 1424 | 1425 | 1431 | rVB5 | 5983   | 14587  | 1.70%  | 0.217%  |
| 67 | 14.763 | 1431 | 1433 | 1437 | rVB4 | 5244   | 10658  | 1.25%  | 0.158%  |
| 68 | 14.911 | 1445 | 1448 | 1452 | rVB4 | 5340   | 9564   | 1.12%  | 0.142%  |
| 69 | 15.167 | 1472 | 1474 | 1477 | rVV4 | 6405   | 11227  | 1.31%  | 0.167%  |

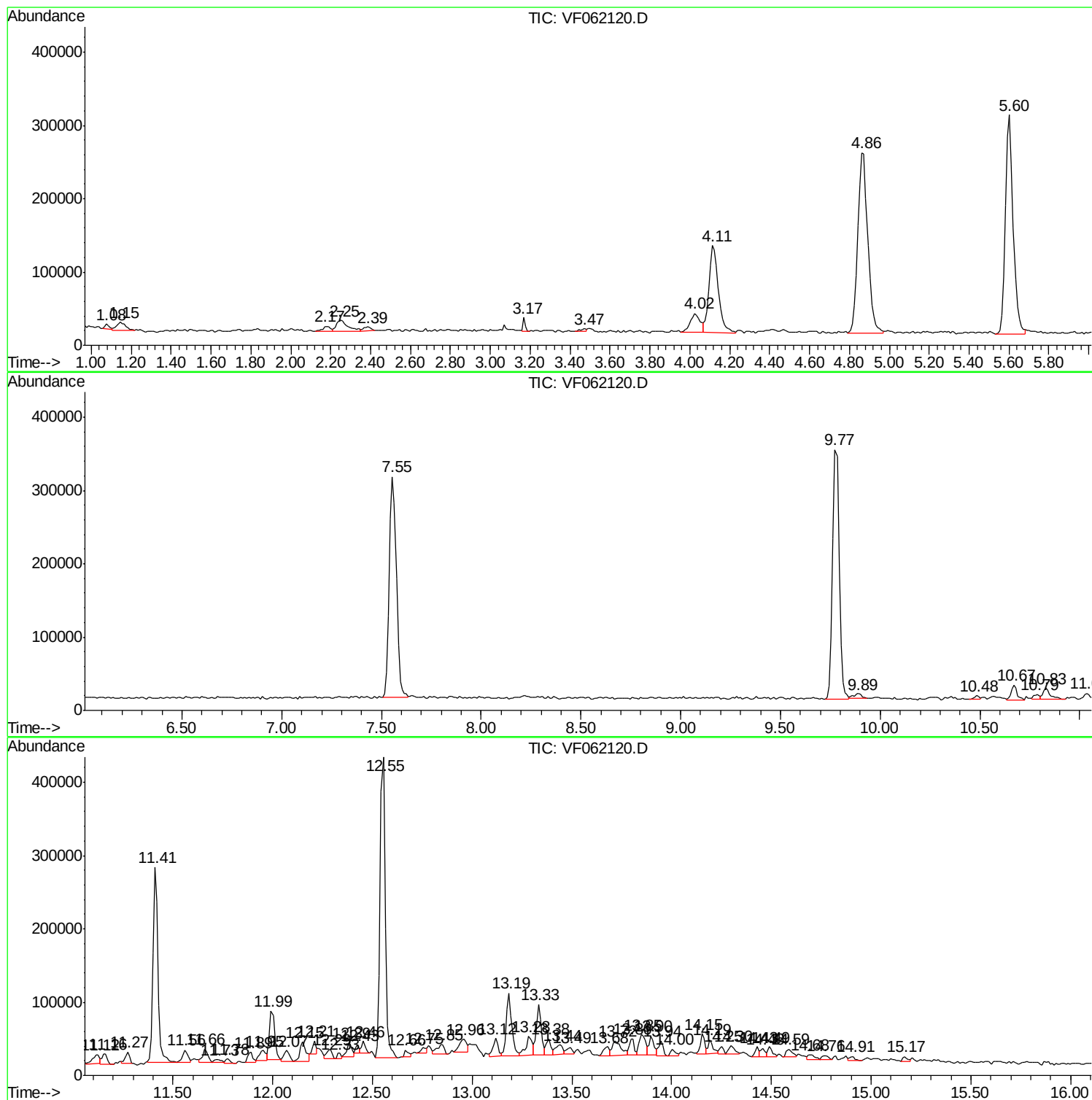
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ClientSampleId :  
WP022SB439-190318-(25-27)

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



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Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB439-190318-(25-27)

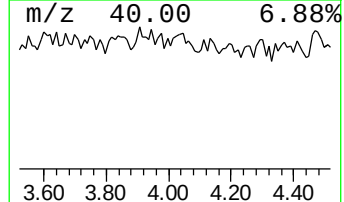
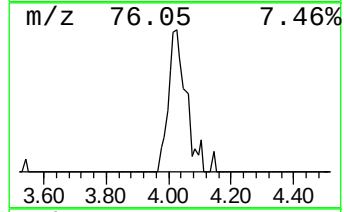
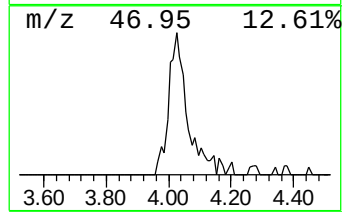
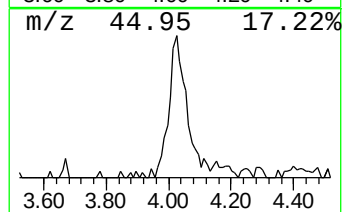
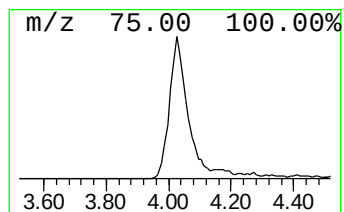
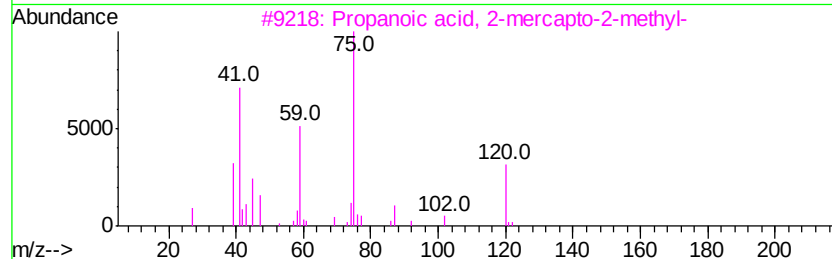
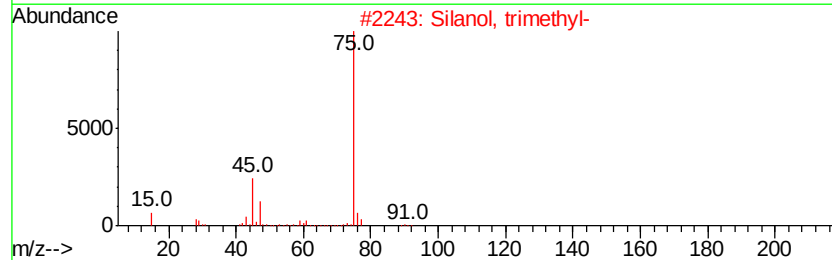
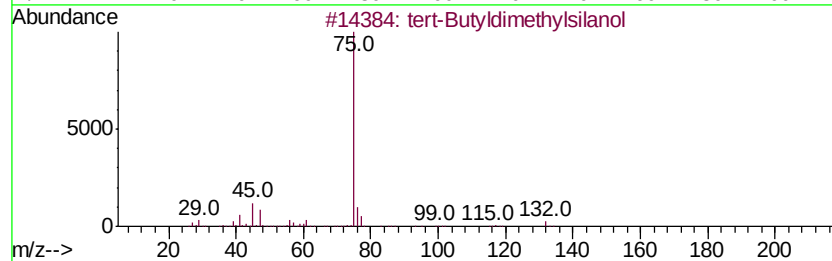
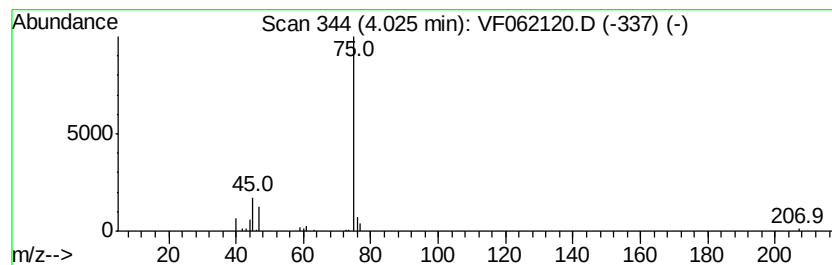
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F032219S.M  
Quant Title : SW846 8260

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

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Peak Number 1 tert-Butyldimethylsilanol Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD   | R.T. |
|------|-----------|-------|--------------------|------|
| 4.02 | 5.46 ug/l | 93484 | Pentafluorobenzene | 4.87 |

| Hit# | of | Tentative ID                           | MW  | MolForm    | CAS#        | Qual |
|------|----|----------------------------------------|-----|------------|-------------|------|
| 1    | 5  | tert-Butyldimethylsilanol              | 132 | C6H16OSi   | 018173-64-3 | 83   |
| 2    |    | Silanol, trimethyl-                    | 90  | C3H10OSi   | 001066-40-6 | 78   |
| 3    |    | Propanoic acid, 2-mercapto-2-methyl-   | 120 | C4H8O2S    | 004695-31-2 | 43   |
| 4    |    | Propanoic acid, 2-methyl-, tert-butyl- | 202 | C10H22O2Si | 111864-21-2 | 43   |
| 5    |    | Silanol, trimethyl-, propanoate        | 146 | C6H14O2Si  | 016844-98-7 | 43   |



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ALS Vial : 10 Sample Multiplier: 1

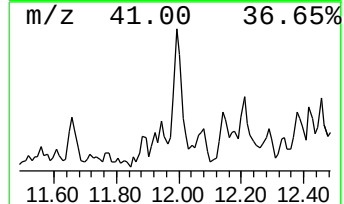
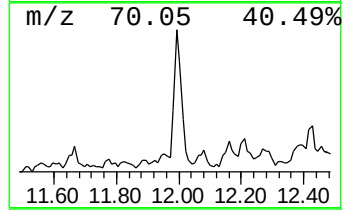
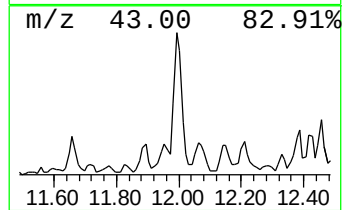
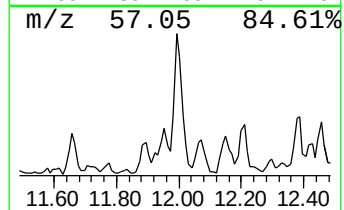
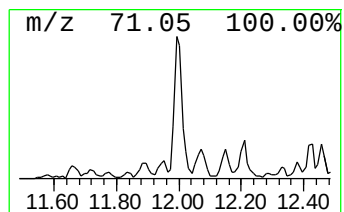
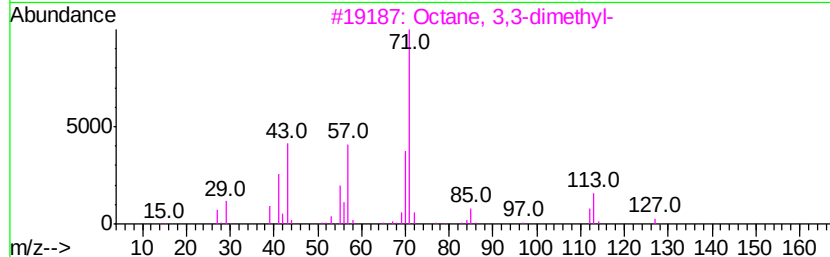
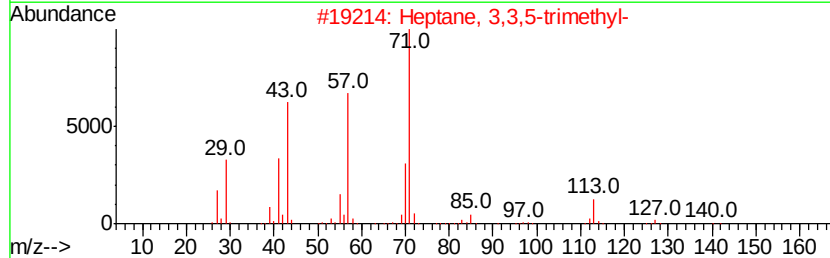
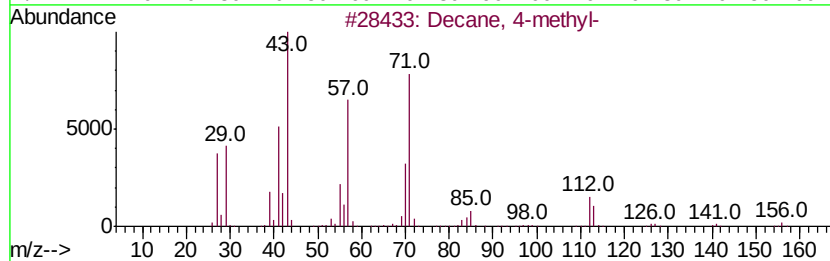
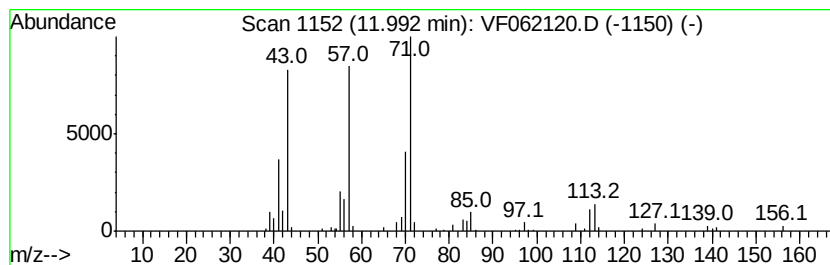
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Decane, 4-methyl- Concentration Rank 3

| R.T.    | EstConc                   | Area         | Relative to ISTD       | R.T.      |
|---------|---------------------------|--------------|------------------------|-----------|
| 11.99   | 8.12 ug/l                 | 111989       | 1,4-Dichlorobenzene-d4 | 12.55     |
| Hit# of | 5                         | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Decane, 4-methyl-         | 156 C11H24   | 002847-72-5            | 86        |
| 2       | Heptane, 3,3,5-trimethyl- | 142 C10H22   | 007154-80-5            | 78        |
| 3       | Octane, 3,3-dimethyl-     | 142 C10H22   | 004110-44-5            | 72        |
| 4       | Undecane, 4,8-dimethyl-   | 184 C13H28   | 017301-33-6            | 59        |
| 5       | Undecane, 2,8-dimethyl-   | 184 C13H28   | 017301-25-6            | 59        |



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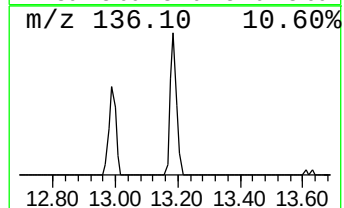
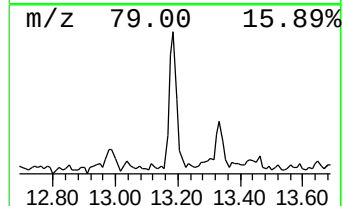
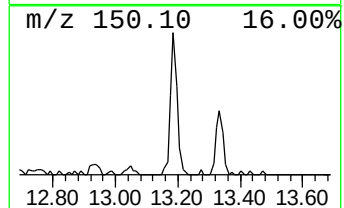
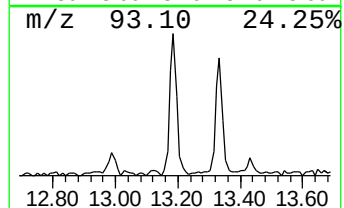
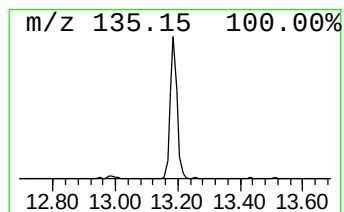
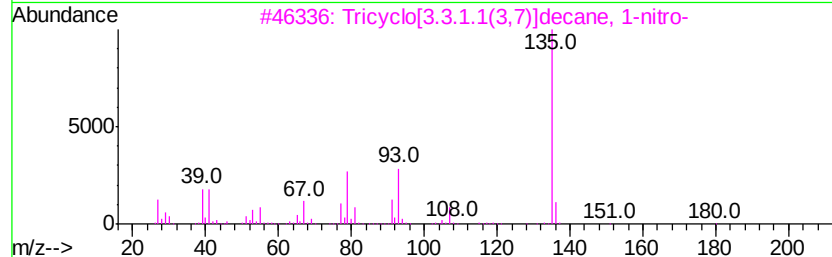
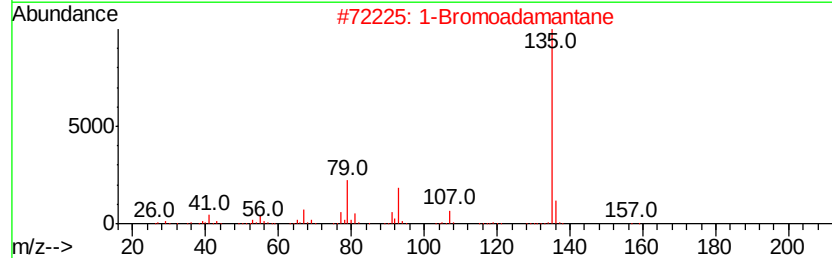
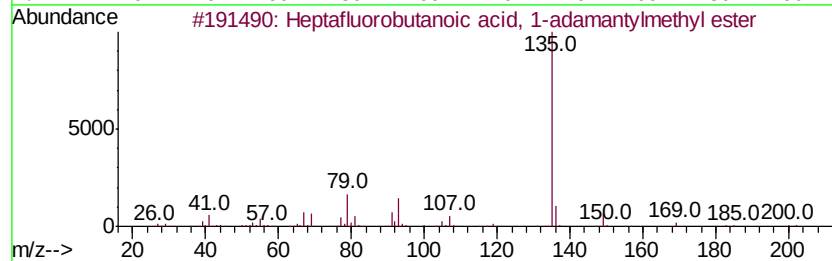
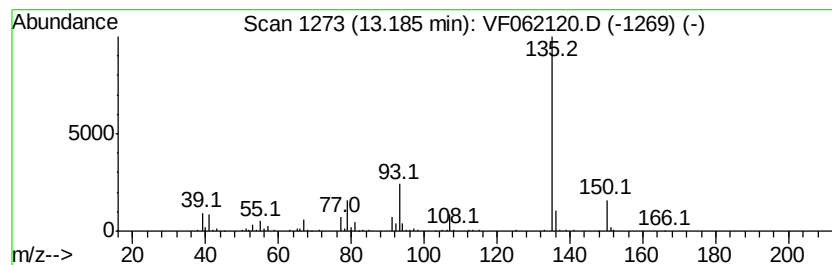
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Quant Title : SW846 8260

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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Heptafluorobutanoic acid, 1... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD                    | R.T.  |            |              |      |
|-------|------------|--------|-------------------------------------|-------|------------|--------------|------|
| 13.19 | 11.52 ug/l | 158852 | 1,4-Dichlorobenzene-d4              | 12.55 |            |              |      |
| Hit#  | of         | 5      | Tentative ID                        | MW    | MolForm    | CAS#         | Qual |
| 1     |            |        | Heptafluorobutanoic acid, 1-adam... | 362   | C15H17F7O2 | 1000282-96-9 | 72   |
| 2     |            |        | 1-Bromoadamantane                   | 214   | C10H15Br   | 000768-90-1  | 72   |
| 3     |            |        | Tricyclo[3.3.1.1(3,7)]decane, 1-... | 181   | C10H15NO2  | 007575-82-8  | 72   |
| 4     |            |        | 4-Amino-2,6-dimethyl-3-pyridyl 1... | 300   | C18H24N2O2 | 1000260-99-2 | 72   |
| 5     |            |        | 1-Adamantanecarboxylic acid chlo... | 198   | C11H15ClO  | 002094-72-6  | 64   |



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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB439-190318-(25-27)

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

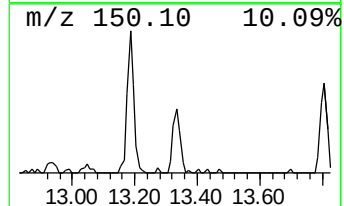
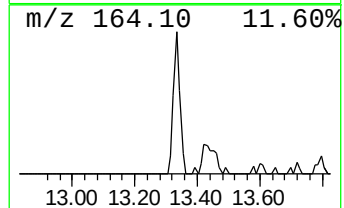
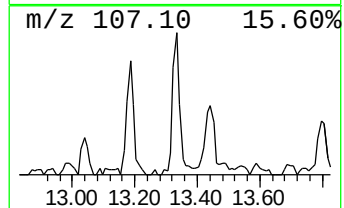
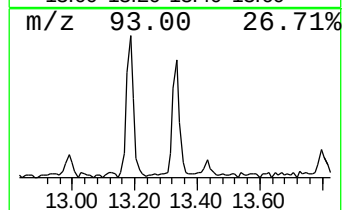
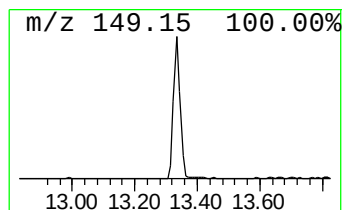
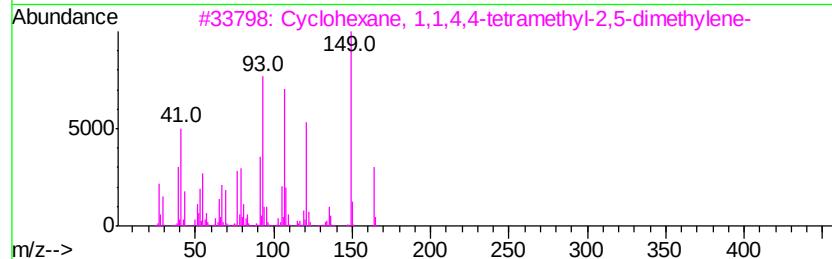
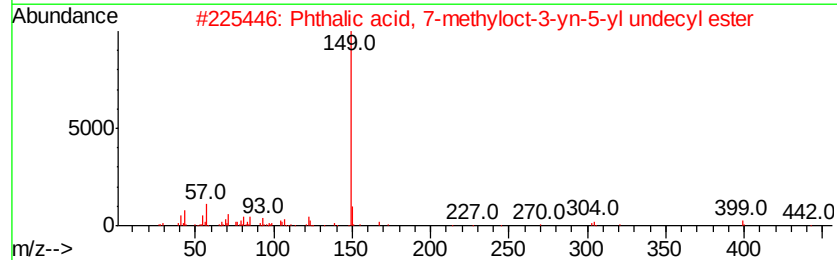
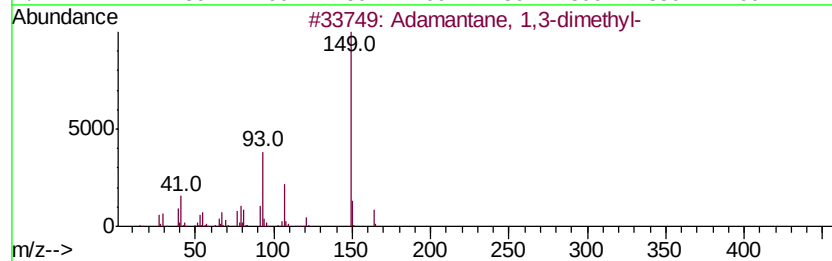
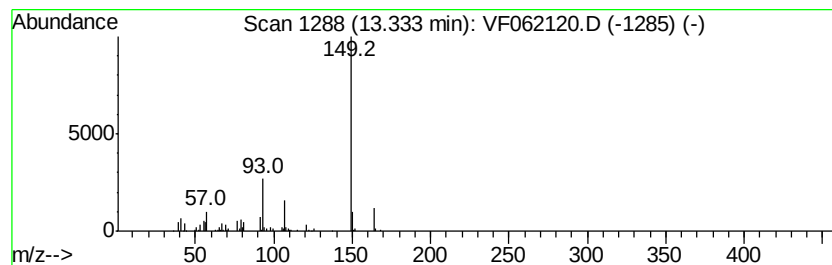
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Adamantane, 1,3-dimethyl- Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.33 | 8.98 ug/l | 123861 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Adamantane, 1,3-dimethyl-           | 164 | C12H20   | 000702-79-4  | 93   |
| 2    |    | Phthalic acid, 7-methyloct-3-yn-... | 442 | C28H42O4 | 1000315-43-3 | 53   |
| 3    |    | Cyclohexane, 1,1,4,4-tetramethyl... | 164 | C12H20   | 1000154-20-4 | 53   |
| 4    |    | Phthalic acid, di(hept-4-yl) ester  | 362 | C22H34O4 | 1000356-80-0 | 50   |
| 5    |    | Phthalic acid, heptyl hex-2-yn-4... | 344 | C21H28O4 | 1000315-19-4 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF032319\  
Data File : VF062120.D  
Acq On : 23 Mar 2019 16:36  
Operator : VA/AP  
Sample : K2045-06  
Misc : 6.05g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WP022SB439-190318-(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 |
| tert-Butyldimethy... | 4.02  | 5.5     | ug/l  | 93484    | 1                     | 4.87  | 855780 | 50.0 |
| Decane, 4-methyl-    | 11.99 | 8.1     | ug/l  | 111989   | 4                     | 12.55 | 689390 | 50.0 |
| Heptafluorobutano... | 13.19 | 11.5    | ug/l  | 158852   | 4                     | 12.55 | 689390 | 50.0 |
| Adamantane, 1,3-d... | 13.33 | 9.0     | ug/l  | 123861   | 4                     | 12.55 | 689390 | 50.0 |