

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
 Data File : VF060232.D  
 Acq On : 10 Sep 2018 14:03  
 Operator : VA/AP  
 Sample : J4803-08  
 Misc : 5.04g/5mL/MSVOA F/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G6

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\82F090618S.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         | 2.286       | 164           | 168         | 171          | rBV      | 17907          | 42944         | 1.42%           | 0.081%        |
| 2         | 4.297       | 365           | 372         | 382          | rBV      | 117437         | 359491        | 11.87%          | 0.674%        |
| 3         | 5.036       | 439           | 447         | 462          | rBV2     | 271055         | 944466        | 31.17%          | 1.772%        |
| 4         | 5.766       | 513           | 521         | 533          | rBV      | 249921         | 681215        | 22.49%          | 1.278%        |
| 5         | 7.708       | 712           | 718         | 730          | rBV      | 277008         | 663179        | 21.89%          | 1.244%        |
| 6         | 8.772       | 821           | 826         | 830          | rBV      | 33750          | 88756         | 2.93%           | 0.166%        |
| 7         | 9.107       | 853           | 860         | 865          | rBV2     | 26323          | 73128         | 2.41%           | 0.137%        |
| 8         | 9.551       | 895           | 905         | 908          | rBV6     | 8934           | 32007         | 1.06%           | 0.060%        |
| 9         | 9.679       | 910           | 918         | 924          | rVV4     | 32227          | 108471        | 3.58%           | 0.203%        |
| 10        | 9.916       | 936           | 942         | 953          | rVB2     | 466974         | 1136657       | 37.52%          | 2.132%        |
| 11        | 10.123      | 959           | 963         | 967          | rVB3     | 28883          | 70631         | 2.33%           | 0.132%        |
| 12        | 10.201      | 967           | 971         | 976          | rBV2     | 34868          | 90527         | 2.99%           | 0.170%        |
| 13        | 10.369      | 981           | 988         | 996          | rBV3     | 203861         | 695949        | 22.97%          | 1.305%        |
| 14        | 10.477      | 996           | 999         | 1004         | rBV3     | 59219          | 141638        | 4.68%           | 0.266%        |
| 15        | 10.566      | 1004          | 1008        | 1009         | rBV2     | 21923          | 41960         | 1.39%           | 0.079%        |
| 16        | 10.645      | 1009          | 1016        | 1020         | rVB2     | 187601         | 471873        | 15.58%          | 0.885%        |
| 17        | 10.744      | 1020          | 1026        | 1027         | rBV2     | 44128          | 99307         | 3.28%           | 0.186%        |
| 18        | 10.813      | 1027          | 1033        | 1038         | rBV4     | 95125          | 355265        | 11.73%          | 0.666%        |
| 19        | 10.901      | 1038          | 1042        | 1043         | rBV2     | 140738         | 302598        | 9.99%           | 0.568%        |
| 20        | 10.941      | 1043          | 1046        | 1049         | rVB      | 194755         | 323074        | 10.66%          | 0.606%        |
| 21        | 11.059      | 1054          | 1058        | 1061         | rVB2     | 151777         | 345218        | 11.39%          | 0.648%        |
| 22        | 11.158      | 1061          | 1068        | 1074         | rVB4     | 197074         | 594550        | 19.62%          | 1.115%        |
| 23        | 11.256      | 1074          | 1078        | 1080         | rBV3     | 132650         | 305514        | 10.08%          | 0.573%        |
| 24        | 11.374      | 1080          | 1090        | 1094         | rVB2     | 993570         | 2340579       | 77.26%          | 4.390%        |
| 25        | 11.424      | 1094          | 1095        | 1098         | rVB2     | 51176          | 54908         | 1.81%           | 0.103%        |
| 26        | 11.512      | 1098          | 1104        | 1109         | rBV5     | 497318         | 1994693       | 65.84%          | 3.741%        |
| 27        | 11.591      | 1109          | 1112        | 1115         | rVB5     | 240990         | 496394        | 16.38%          | 0.931%        |
| 28        | 11.650      | 1115          | 1118        | 1120         | rVB      | 325144         | 497264        | 16.41%          | 0.933%        |
| 29        | 11.710      | 1121          | 1124        | 1126         | rBV2     | 136197         | 216031        | 7.13%           | 0.405%        |
| 30        | 11.769      | 1126          | 1130        | 1133         | rBV3     | 404970         | 743795        | 24.55%          | 1.395%        |
| 31        | 11.818      | 1133          | 1135        | 1137         | rBV2     | 151185         | 253038        | 8.35%           | 0.475%        |
| 32        | 11.867      | 1137          | 1140        | 1142         | rVB      | 349944         | 588266        | 19.42%          | 1.103%        |
| 33        | 11.917      | 1142          | 1145        | 1147         | rVB      | 187516         | 274710        | 9.07%           | 0.515%        |
| 34        | 11.966      | 1147          | 1150        | 1153         | rBV4     | 199603         | 459582        | 15.17%          | 0.862%        |

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 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G6

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
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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\82F090618S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 12.025 | 1153 | 1156 | 1159 | rBV3 | 354532  | 995331  | 32.85%  | 1.867% |
| 36 | 12.084 | 1159 | 1162 | 1167 | rVB5 | 655226  | 1455528 | 48.04%  | 2.730% |
| 37 | 12.163 | 1167 | 1170 | 1171 | rBV2 | 242997  | 445053  | 14.69%  | 0.835% |
| 38 | 12.252 | 1175 | 1179 | 1185 | rBV4 | 541771  | 1665184 | 54.96%  | 3.123% |
| 39 | 12.370 | 1187 | 1191 | 1193 | rVB4 | 463649  | 870178  | 28.72%  | 1.632% |
| 40 | 12.419 | 1193 | 1196 | 1198 | rBV3 | 344151  | 641947  | 21.19%  | 1.204% |
| 41 | 12.479 | 1200 | 1202 | 1204 | rVB2 | 222018  | 289575  | 9.56%   | 0.543% |
| 42 | 12.518 | 1204 | 1206 | 1208 | rBV  | 138703  | 159147  | 5.25%   | 0.299% |
| 43 | 12.567 | 1208 | 1211 | 1215 | rBV4 | 510747  | 933746  | 30.82%  | 1.751% |
| 44 | 12.636 | 1215 | 1218 | 1220 | rVB  | 504899  | 723237  | 23.87%  | 1.357% |
| 45 | 12.686 | 1220 | 1223 | 1228 | rBV  | 1698137 | 3029573 | 100.00% | 5.683% |
| 46 | 12.784 | 1231 | 1233 | 1235 | rVB  | 167074  | 219907  | 7.26%   | 0.412% |
| 47 | 12.833 | 1235 | 1238 | 1242 | rVB4 | 277999  | 617678  | 20.39%  | 1.159% |
| 48 | 12.922 | 1242 | 1247 | 1250 | rBV4 | 662799  | 1664538 | 54.94%  | 3.122% |
| 49 | 12.971 | 1250 | 1252 | 1254 | rBV  | 209139  | 245417  | 8.10%   | 0.460% |
| 50 | 13.011 | 1254 | 1256 | 1257 | rBV  | 185972  | 262761  | 8.67%   | 0.493% |
| 51 | 13.188 | 1270 | 1274 | 1276 | rBV2 | 492024  | 1043713 | 34.45%  | 1.958% |
| 52 | 13.228 | 1276 | 1278 | 1279 | rVV  | 380389  | 554878  | 18.32%  | 1.041% |
| 53 | 13.277 | 1279 | 1283 | 1285 | rVV3 | 932345  | 1908268 | 62.99%  | 3.579% |
| 54 | 13.326 | 1285 | 1288 | 1290 | rVV  | 564280  | 938552  | 30.98%  | 1.760% |
| 55 | 13.395 | 1290 | 1295 | 1298 | rVV4 | 1051052 | 2261859 | 74.66%  | 4.243% |
| 56 | 13.454 | 1298 | 1301 | 1304 | rVV2 | 1271080 | 2172562 | 71.71%  | 4.075% |
| 57 | 13.523 | 1305 | 1308 | 1313 | rVB2 | 539876  | 1118527 | 36.92%  | 2.098% |
| 58 | 13.592 | 1313 | 1315 | 1318 | rVB4 | 93819   | 129032  | 4.26%   | 0.242% |
| 59 | 13.652 | 1318 | 1321 | 1323 | rBV  | 1252222 | 2054634 | 67.82%  | 3.854% |
| 60 | 13.711 | 1323 | 1327 | 1330 | rVB2 | 935947  | 1833584 | 60.52%  | 3.439% |
| 61 | 13.770 | 1330 | 1333 | 1336 | rBV  | 855215  | 1118593 | 36.92%  | 2.098% |
| 62 | 13.819 | 1336 | 1338 | 1340 | rVB2 | 188588  | 249980  | 8.25%   | 0.469% |
| 63 | 13.868 | 1340 | 1343 | 1346 | rBV2 | 646003  | 956428  | 31.57%  | 1.794% |
| 64 | 13.928 | 1346 | 1349 | 1351 | rVB2 | 391340  | 649608  | 21.44%  | 1.218% |
| 65 | 13.977 | 1351 | 1354 | 1356 | rBV2 | 311863  | 490429  | 16.19%  | 0.920% |
| 66 | 14.016 | 1356 | 1358 | 1362 | rVB2 | 646509  | 953430  | 31.47%  | 1.788% |
| 67 | 14.075 | 1362 | 1364 | 1366 | rVB  | 148709  | 152904  | 5.05%   | 0.287% |
| 68 | 14.125 | 1366 | 1369 | 1374 | rVB5 | 147310  | 372243  | 12.29%  | 0.698% |
| 69 | 14.213 | 1374 | 1378 | 1384 | rBV4 | 715950  | 2467298 | 81.44%  | 4.628% |
| 70 | 14.282 | 1384 | 1385 | 1388 | rVB  | 332724  | 366935  | 12.11%  | 0.688% |
| 71 | 14.332 | 1388 | 1390 | 1391 | rVB  | 39254   | 36816   | 1.22%   | 0.069% |

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 MSVOA\_F  
 ClientSampleId :  
 EP1-Q2-G6

## 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\82F090618S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 72 | 14.361 | 1391 | 1393 | 1395 | rBV3 | 91476  | 106235 | 3.51% | 0.199% |
| 73 | 14.401 | 1395 | 1397 | 1398 | rBV2 | 32988  | 33215  | 1.10% | 0.062% |
| 74 | 14.430 | 1398 | 1400 | 1405 | rVB  | 176380 | 258479 | 8.53% | 0.485% |
| 75 | 14.529 | 1408 | 1410 | 1411 | rBV  | 83623  | 129364 | 4.27% | 0.243% |
| 76 | 14.627 | 1417 | 1420 | 1425 | rVB5 | 66478  | 143163 | 4.73% | 0.269% |
| 77 | 14.696 | 1425 | 1427 | 1429 | rVV3 | 25338  | 37896  | 1.25% | 0.071% |
| 78 | 14.795 | 1431 | 1437 | 1440 | rVV4 | 62615  | 185137 | 6.11% | 0.347% |
| 79 | 14.834 | 1440 | 1441 | 1445 | rVV2 | 18676  | 37083  | 1.22% | 0.070% |
| 80 | 14.923 | 1447 | 1450 | 1456 | rVB5 | 41824  | 102952 | 3.40% | 0.193% |
| 81 | 15.051 | 1461 | 1463 | 1468 | rBV2 | 40178  | 71575  | 2.36% | 0.134% |
| 82 | 15.179 | 1473 | 1476 | 1478 | rBV  | 42601  | 66840  | 2.21% | 0.125% |
| 83 | 15.337 | 1486 | 1492 | 1495 | rBV5 | 17247  | 43844  | 1.45% | 0.082% |
| 84 | 15.396 | 1495 | 1498 | 1502 | rBV4 | 23754  | 57650  | 1.90% | 0.108% |
| 85 | 15.564 | 1512 | 1515 | 1521 | rVB4 | 12464  | 32781  | 1.08% | 0.061% |
| 86 | 15.712 | 1523 | 1530 | 1535 | rBV2 | 32469  | 70204  | 2.32% | 0.132% |

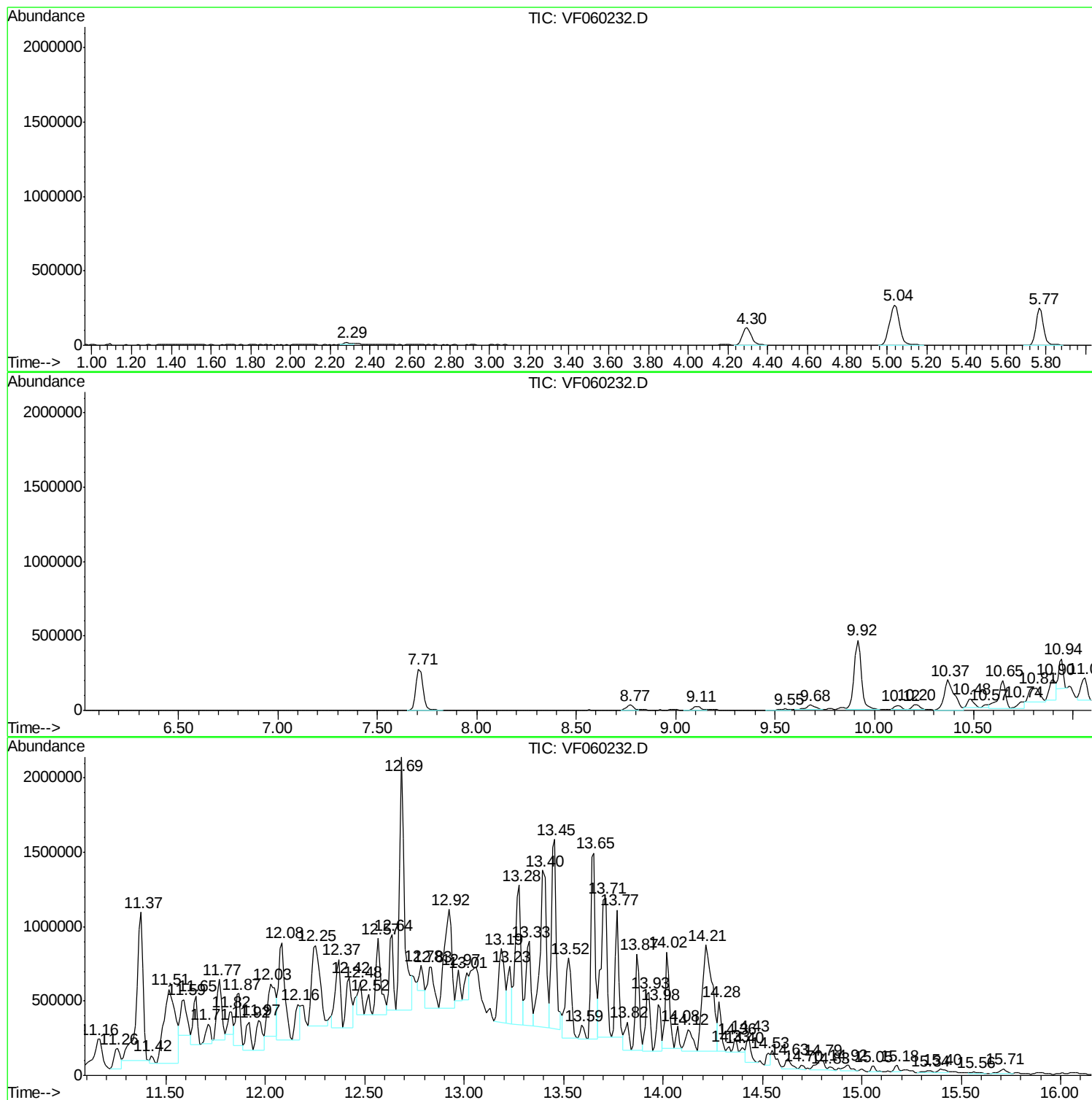
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Sample : J4803-08  
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Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

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



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Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

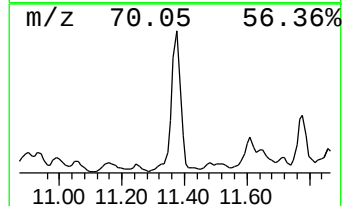
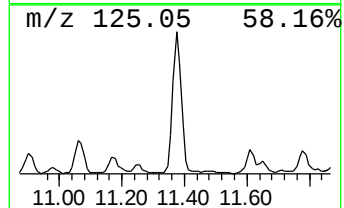
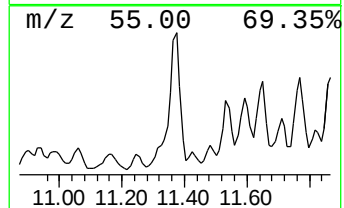
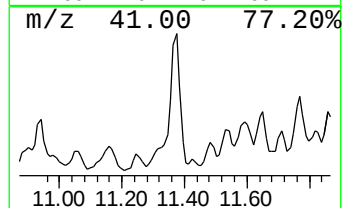
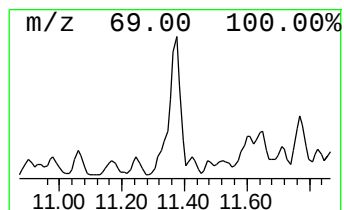
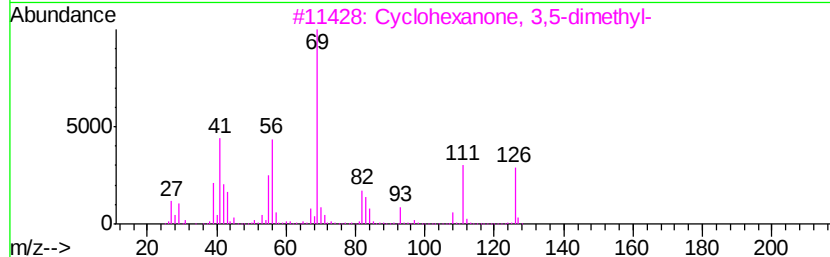
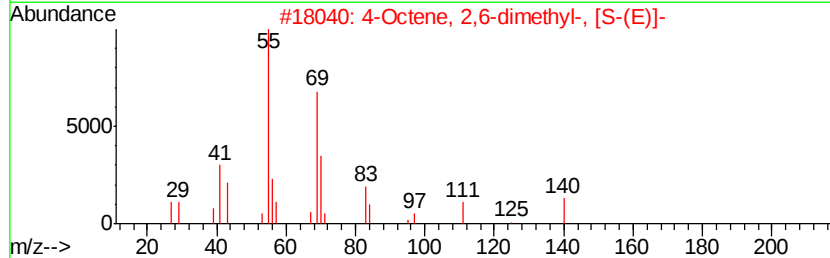
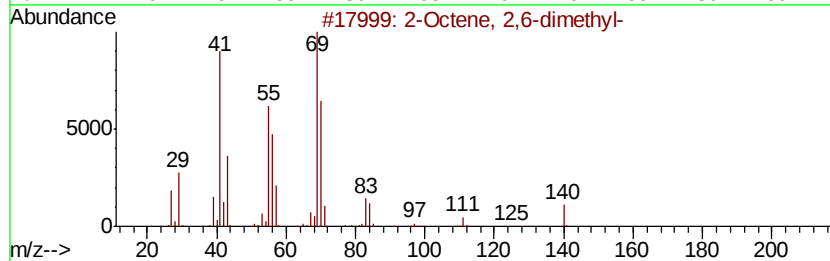
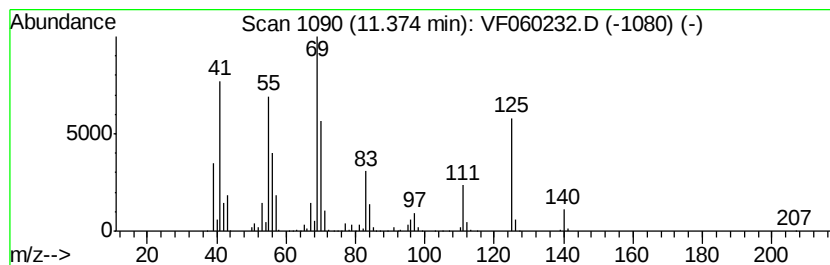
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 2-Octene, 2,6-dimethyl- Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 11.37 | 161.81 ug/l | 2340580 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Octene, 2,6-dimethyl-           | 140 | C10H20  | 004057-42-5 | 92   |
| 2    |    | 4-Octene, 2,6-dimethyl-, [S-(E)]- | 140 | C10H20  | 062960-76-3 | 58   |
| 3    |    | Cyclohexanone, 3,5-dimethyl-      | 126 | C8H14O  | 002320-30-1 | 49   |
| 4    |    | Cyclohexane, 1,1,2,3-tetramethyl- | 140 | C10H20  | 006783-92-2 | 46   |
| 5    |    | 2-Octene, 2,7-dimethyl-           | 140 | C10H20  | 002050-81-9 | 46   |



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Quant Title : SW846 8260

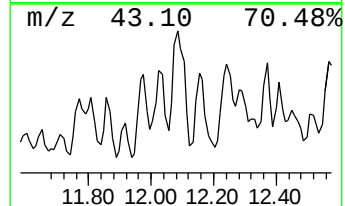
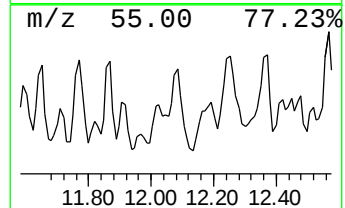
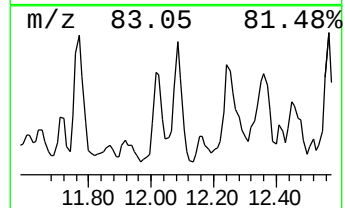
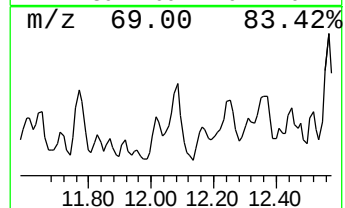
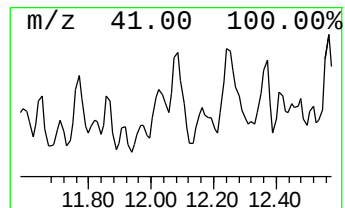
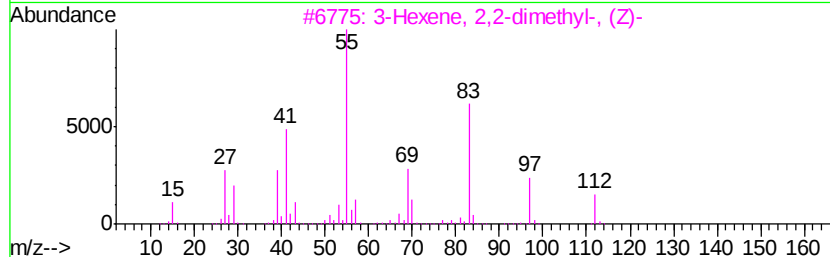
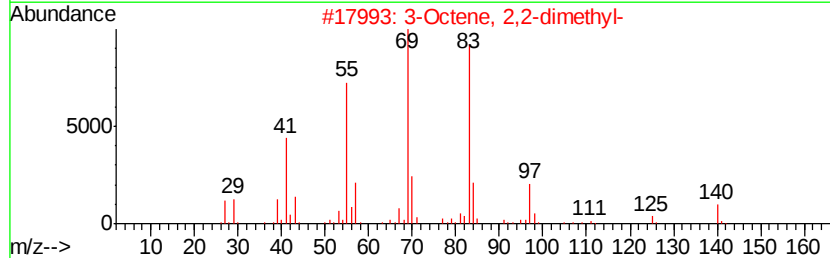
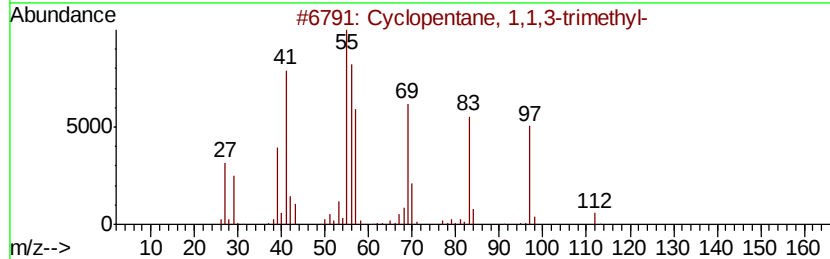
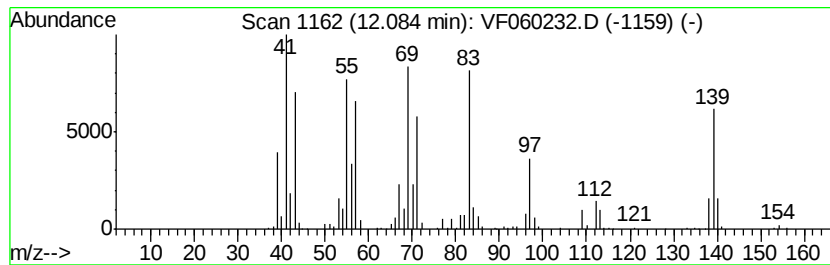
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown12.08 Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.08 | 100.63 ug/l | 1455530 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, 1,1,3-trimethyl- | 112 | C8H16   | 004516-69-2 | 46   |
| 2    |    | 3-Octene, 2,2-dimethyl-        | 140 | C10H20  | 086869-76-3 | 46   |
| 3    |    | 3-Hexene, 2,2-dimethyl-, (Z)-  | 112 | C8H16   | 000690-92-6 | 25   |
| 4    |    | 5-Hexen-2-one, 5-methyl-       | 112 | C7H12O  | 003240-09-3 | 25   |
| 5    |    | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 25   |



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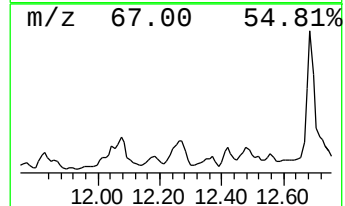
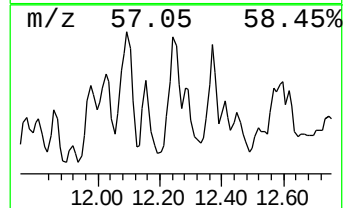
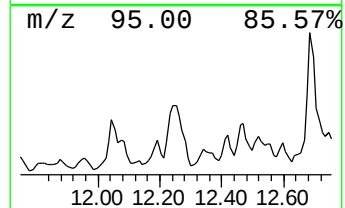
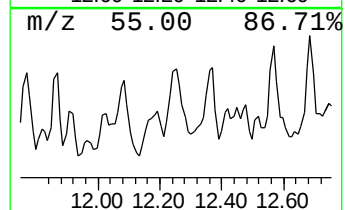
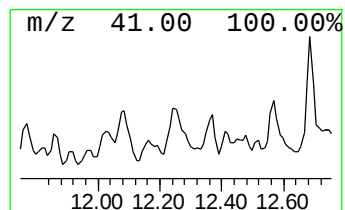
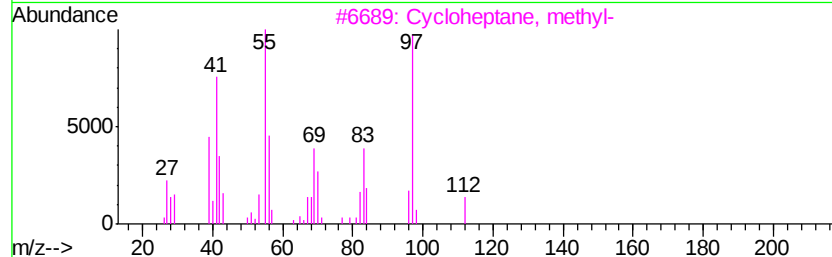
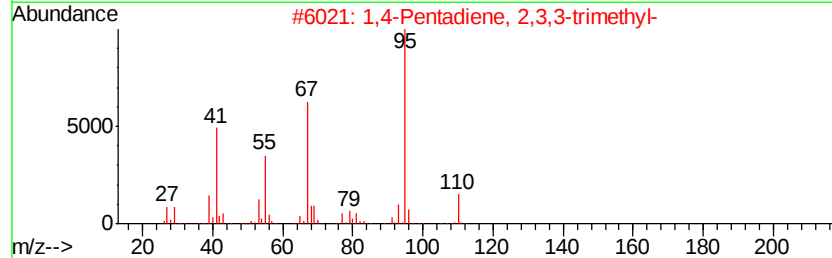
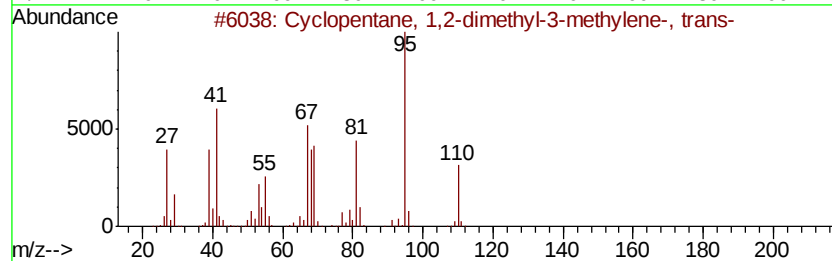
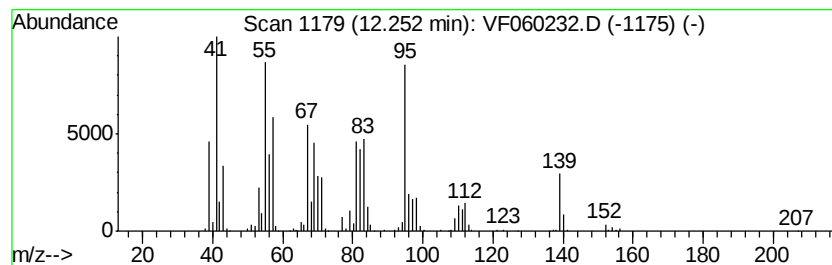
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MSVOA\_F  
ClientSampled :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 unknown12.25 Concentration Rank 8

| R.T.    | EstConc     | Area                                | Relative to ISTD       | R.T.            |
|---------|-------------|-------------------------------------|------------------------|-----------------|
| 12.25   | 115.12 ug/l | 1665180                             | 1,4-Dichlorobenzene-d4 | 12.64           |
| Hit# of | 5           | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |             | Cyclopentane, 1,2-dimethyl-3-met... | 110 C8H14              | 1000150-99-3 38 |
| 2       |             | 1,4-Pentadiene, 2,3,3-trimethyl-    | 110 C8H14              | 000756-02-5 38  |
| 3       |             | Cycloheptane, methyl-               | 112 C8H16              | 004126-78-7 38  |
| 4       |             | Cyclobutylcarboxamide, N-allyl-     | 139 C8H13NO            | 1000340-36-9 30 |
| 5       |             | .alpha.-Santoline alcohol           | 154 C10H18O            | 090823-36-2 30  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

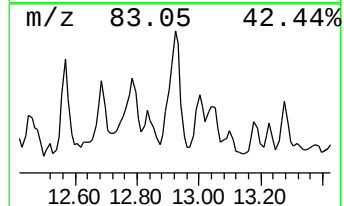
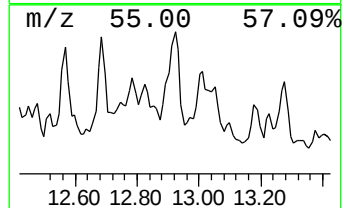
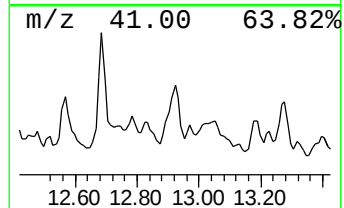
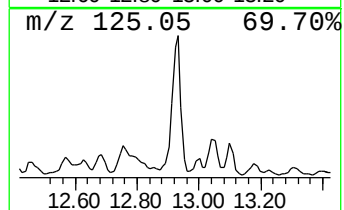
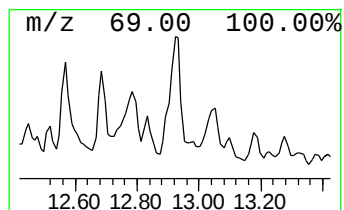
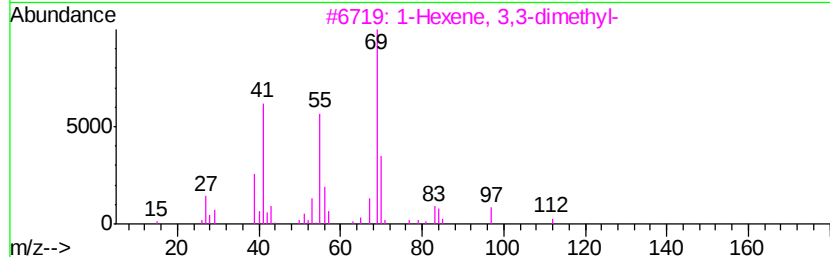
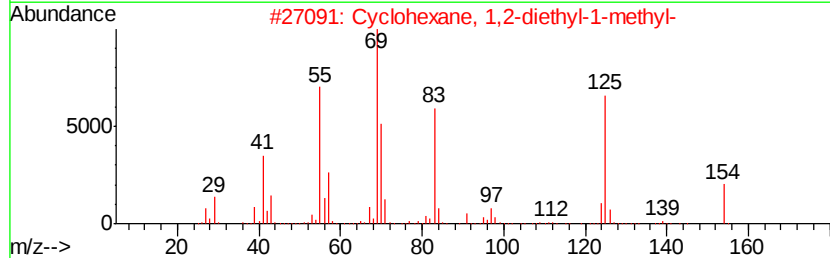
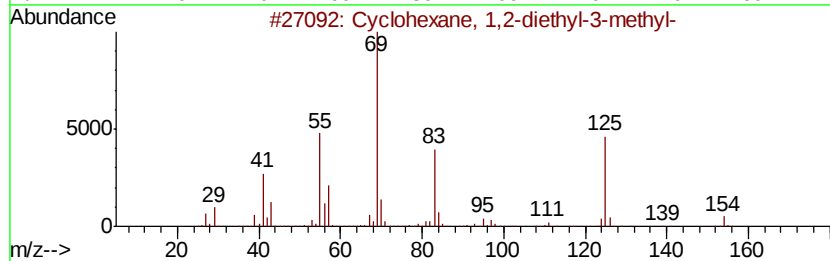
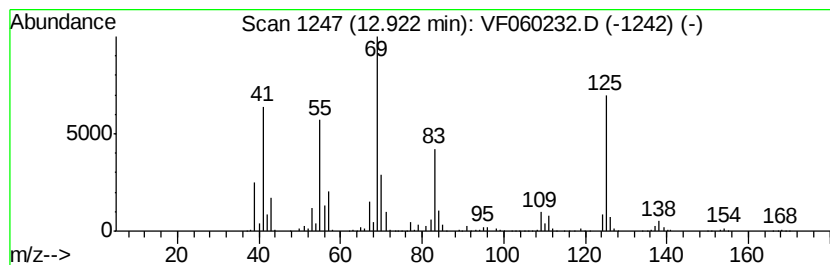
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Cyclohexane, 1,2-diethyl-3-... Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.92 | 115.08 ug/l | 1664540 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclohexane, 1,2-diethyl-3-methyl-  | 154 | C11H22   | 061141-80-8 | 72   |
| 2    |    | Cyclohexane, 1,2-diethyl-1-methyl-  | 154 | C11H22   | 061141-79-5 | 64   |
| 3    |    | 1-Hexene, 3,3-dimethyl-             | 112 | C8H16    | 003404-77-1 | 43   |
| 4    |    | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20   | 050876-31-8 | 38   |
| 5    |    | Cyclopropanecarboxylic acid, 2-e... | 198 | C12H22O2 | 103604-31-5 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

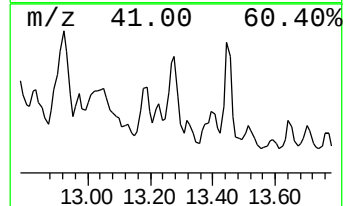
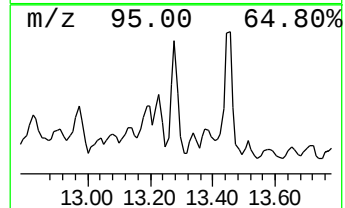
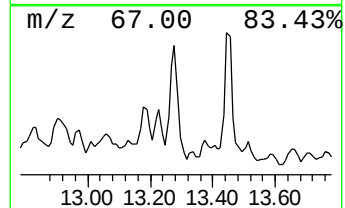
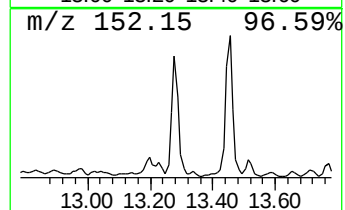
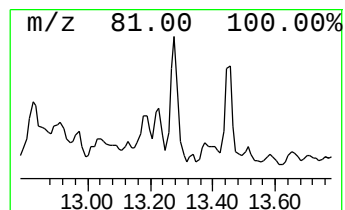
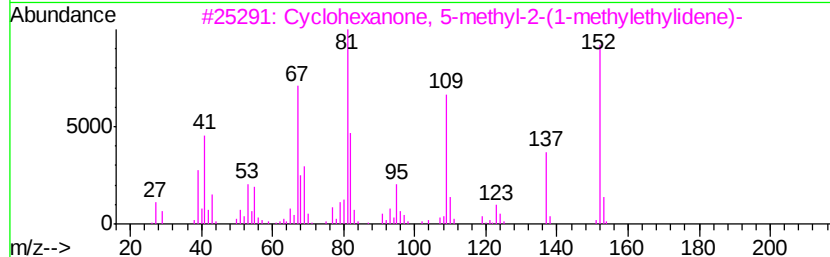
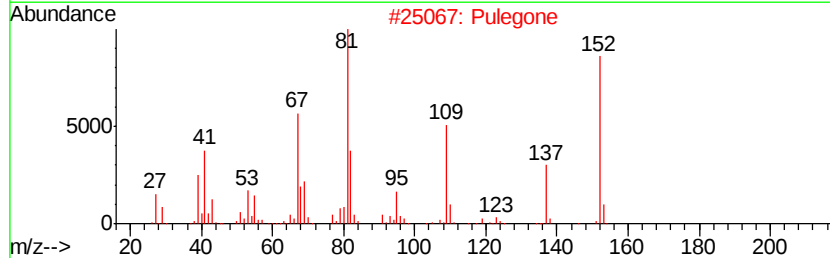
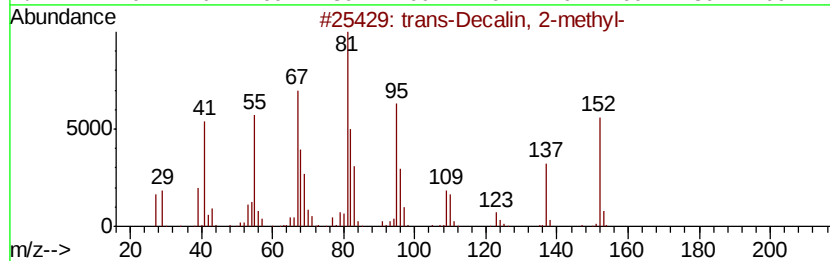
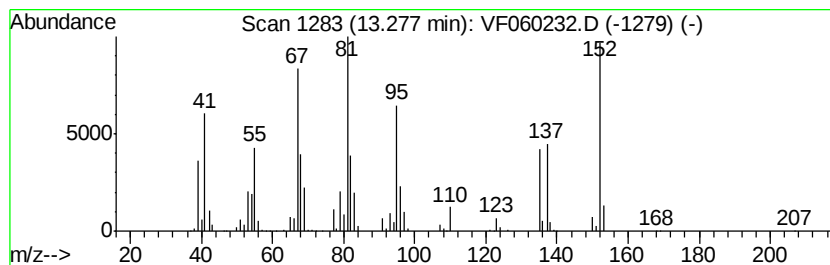
Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 trans-Decalin, 2-methyl- Concentration Rank 6

| R.T.      | EstConc                                          | Area    | Relative to ISTD       | R.T.         |      |
|-----------|--------------------------------------------------|---------|------------------------|--------------|------|
| 13.28     | 131.93 ug/l                                      | 1908270 | 1,4-Dichlorobenzene-d4 | 12.64        |      |
| Hit# of 5 | Tentative ID                                     | MW      | MolForm                | CAS#         | Qual |
| 1         | trans-Decalin, 2-methyl-                         | 152     | C11H20                 | 1000152-47-3 | 90   |
| 2         | Pulegone                                         | 152     | C10H16O                | 000089-82-7  | 76   |
| 3         | Cyclohexanone, 5-methyl-2-(1-methyl-2-propenyl)- | 152     | C10H16O                | 015932-80-6  | 76   |
| 4         | trans-4a-Methyl-decahydronaphthalene             | 152     | C11H20                 | 002547-27-5  | 64   |
| 5         | Naphthalene, decahydro-2-methyl-                 | 152     | C11H20                 | 002958-76-1  | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

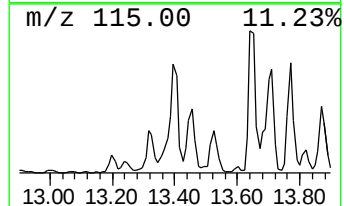
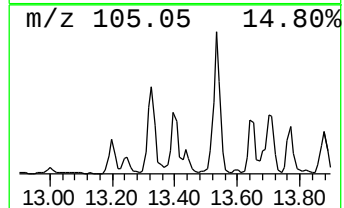
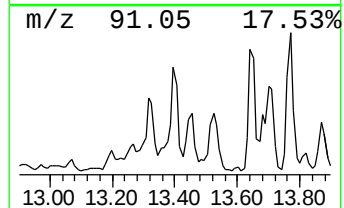
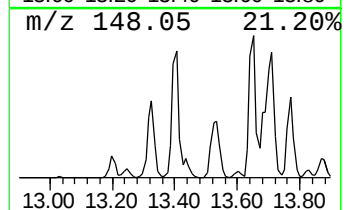
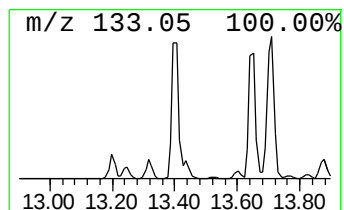
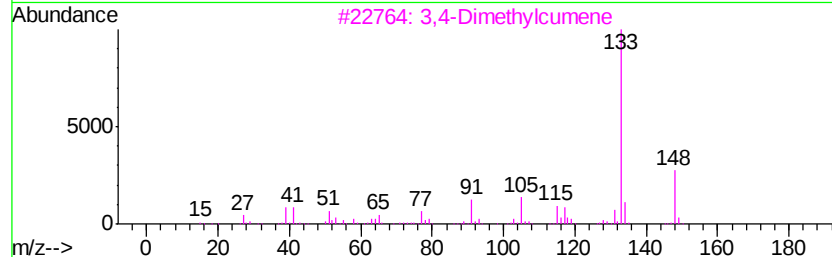
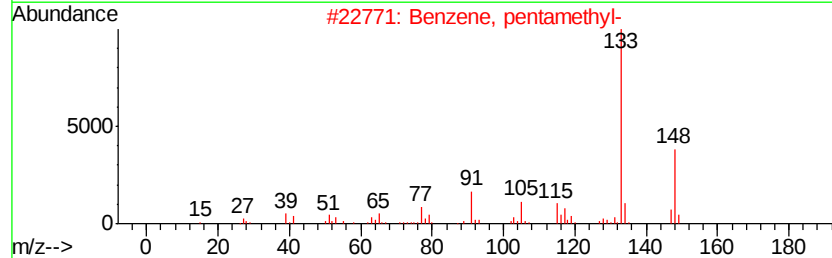
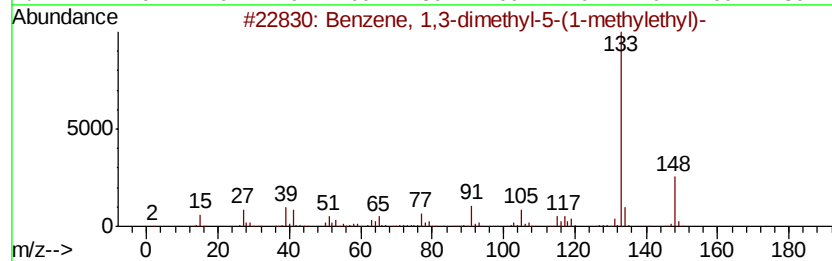
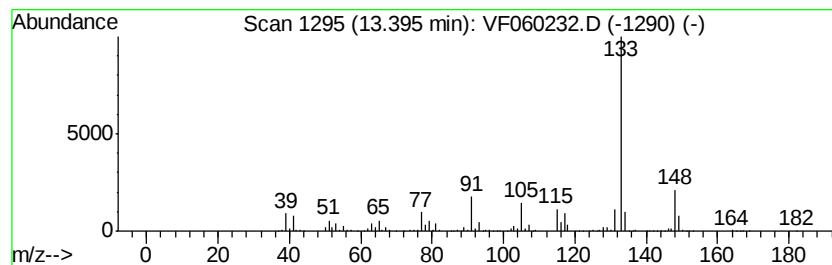
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.40 | 156.37 ug/l | 2261860 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16  | 004706-90-5  | 91   |
| 2    |    | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9  | 91   |
| 3    |    | 3,4-Dimethylcumene                  | 148 | C11H16  | 1000370-34-1 | 91   |
| 4    |    | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16  | 004132-72-3  | 90   |
| 5    |    | Benzene, 2,4-dimethyl-1-(1-methy... | 148 | C11H16  | 004706-89-2  | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleID :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

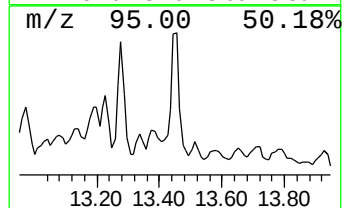
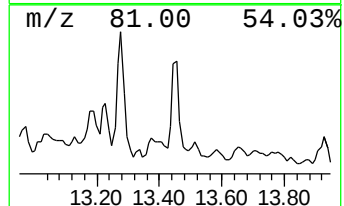
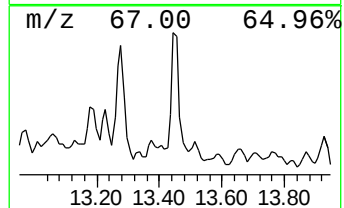
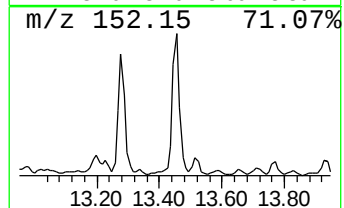
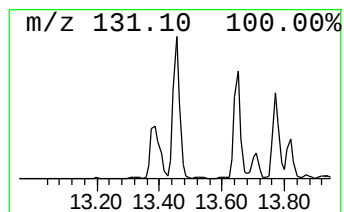
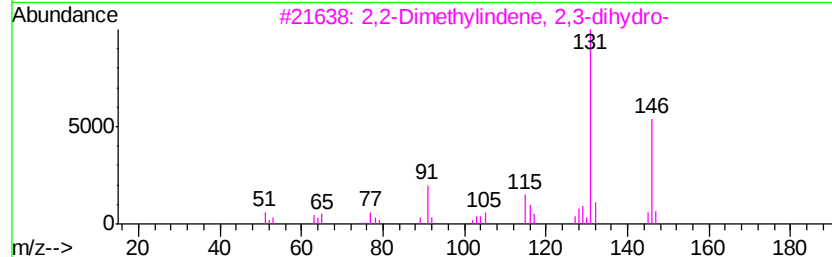
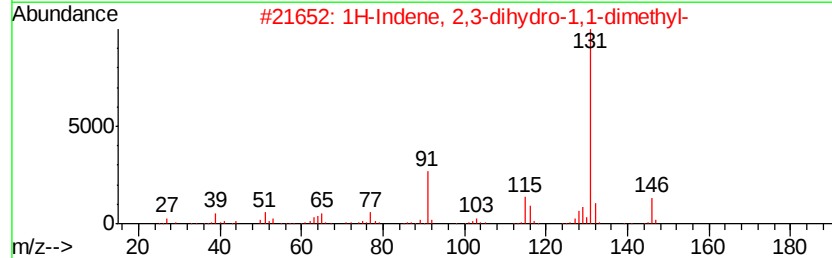
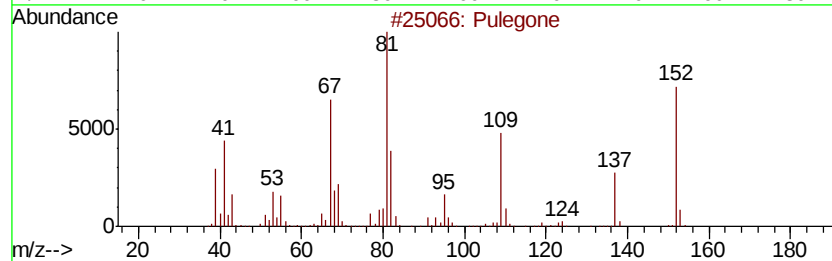
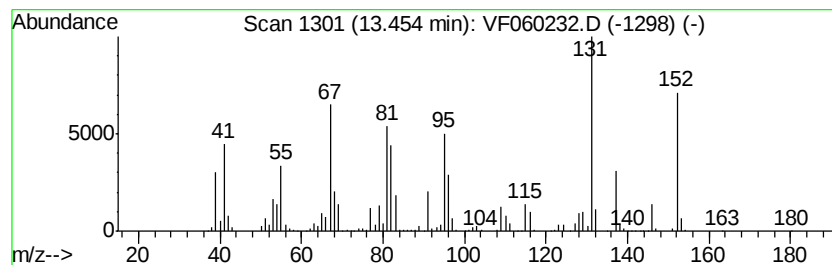
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown13.45 Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.45 | 150.20 ug/l | 2172560 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pulegone                            | 152 | C10H16O | 000089-82-7 | 45   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 | C11H14  | 004912-92-9 | 38   |
| 3    |    | 2,2-Dimethylindene, 2,3-dihydro-    | 146 | C11H14  | 020836-11-7 | 38   |
| 4    |    | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 38   |
| 5    |    | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14  | 004175-53-5 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

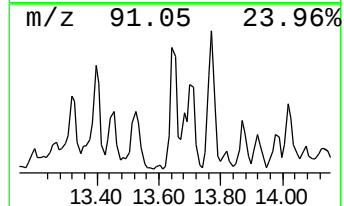
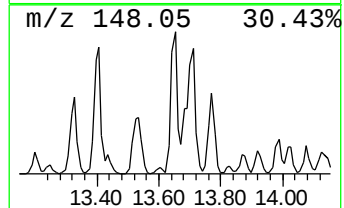
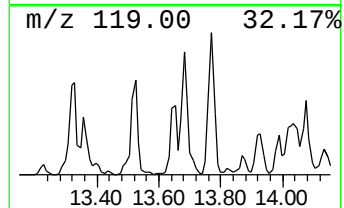
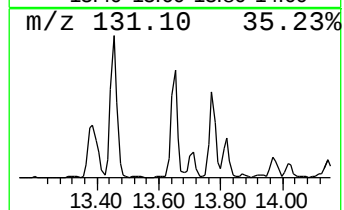
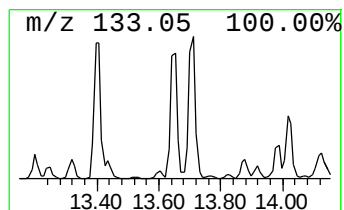
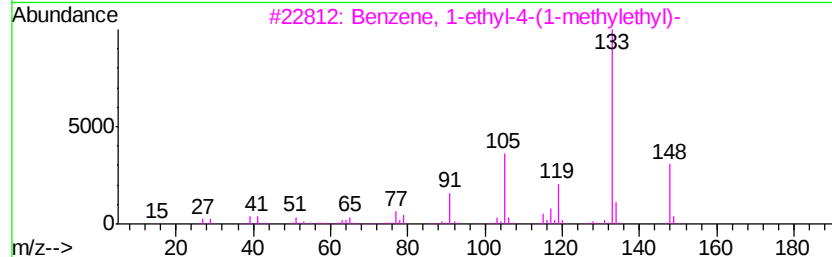
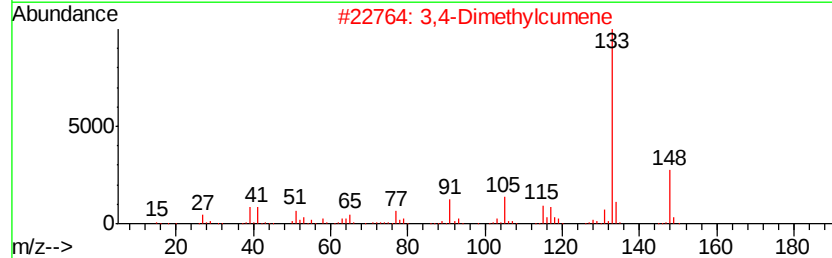
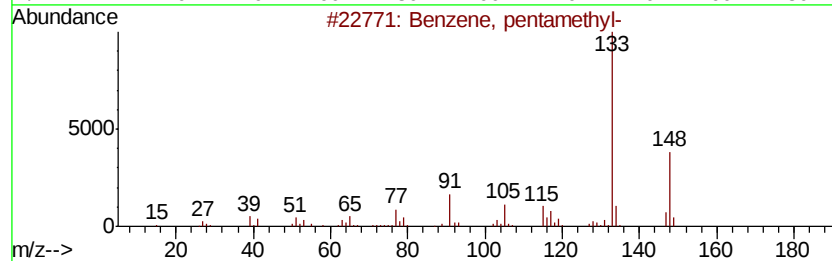
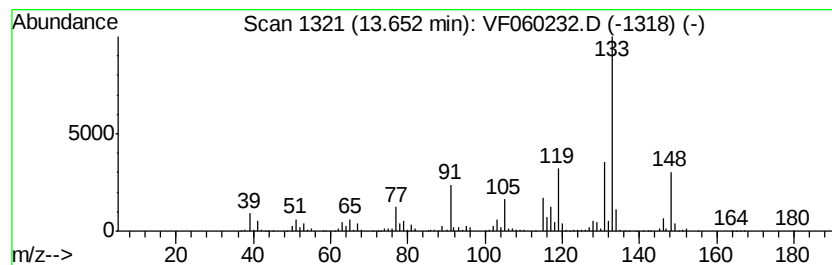
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, pentamethyl- Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.65 | 142.04 ug/l | 2054630 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9  | 76   |
| 2    |    | 3,4-Dimethylcumene                  | 148 | C11H16  | 1000370-34-1 | 76   |
| 3    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8  | 72   |
| 4    |    | Benzene, 1-ethyl-2,4,5-trimethyl-   | 148 | C11H16  | 017851-27-3  | 72   |
| 5    |    | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16  | 004920-99-4  | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

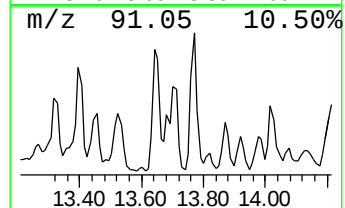
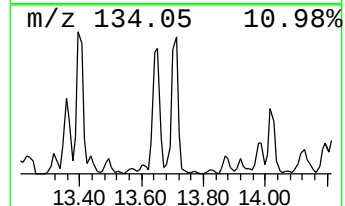
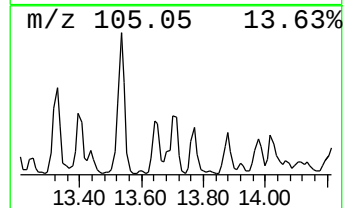
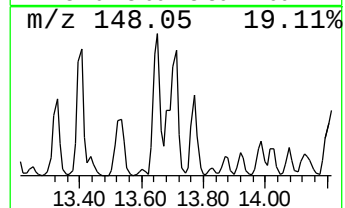
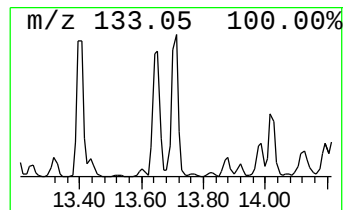
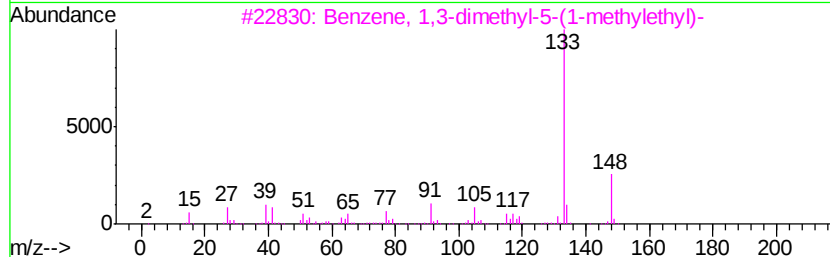
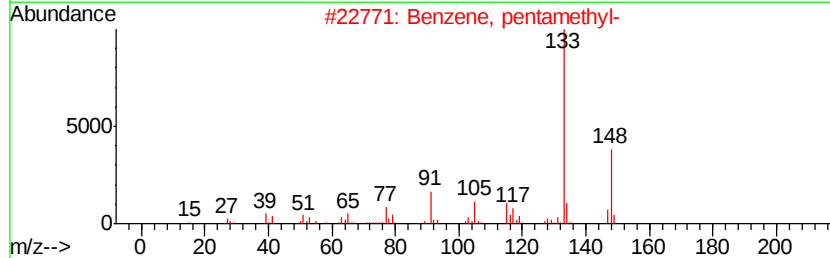
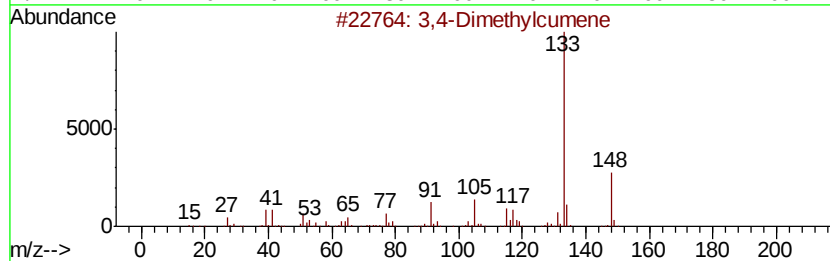
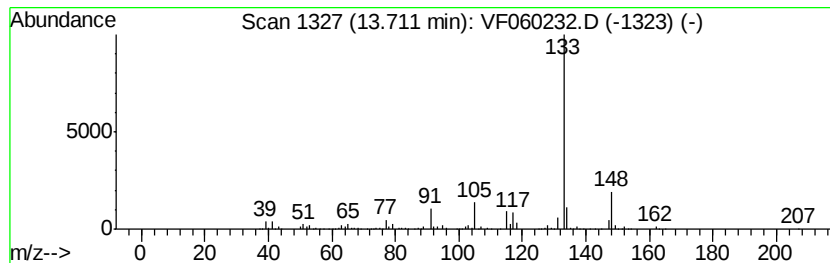
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 3,4-Dimethylcumene Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.71 | 126.76 ug/l | 1833580 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 3,4-Dimethylcumene                    | 148 | C11H16  | 1000370-34-1 | 94   |
| 2    |    | Benzene, pentamethyl-                 | 148 | C11H16  | 000700-12-9  | 91   |
| 3    |    | Benzene, 1,3-dimethyl-5-(1-methyl-... | 148 | C11H16  | 004706-90-5  | 91   |
| 4    |    | Benzene, 1,4-dimethyl-2-(1-methyl-... | 148 | C11H16  | 004132-72-3  | 90   |
| 5    |    | Benzene, 2,4-dimethyl-1-(1-methyl-... | 148 | C11H16  | 004706-89-2  | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.M  
Quant Title : SW846 8260

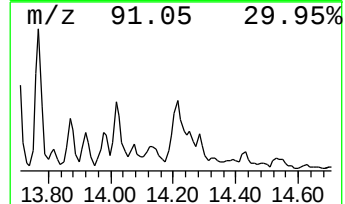
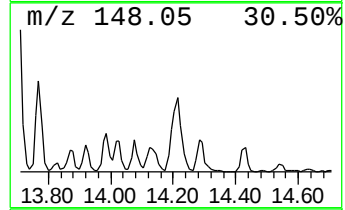
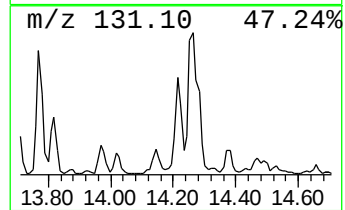
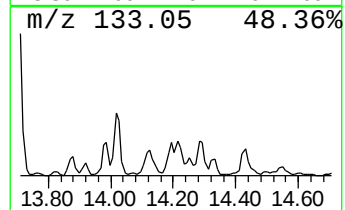
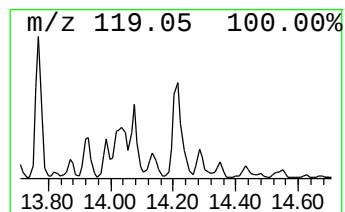
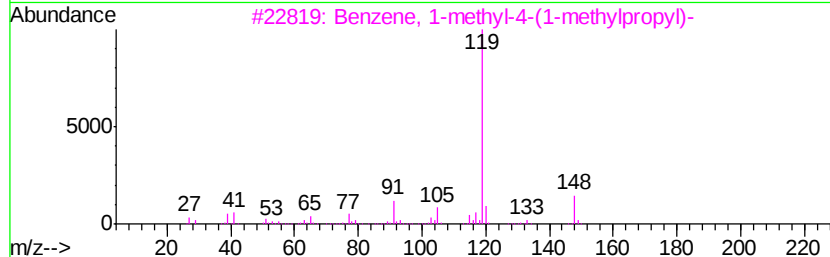
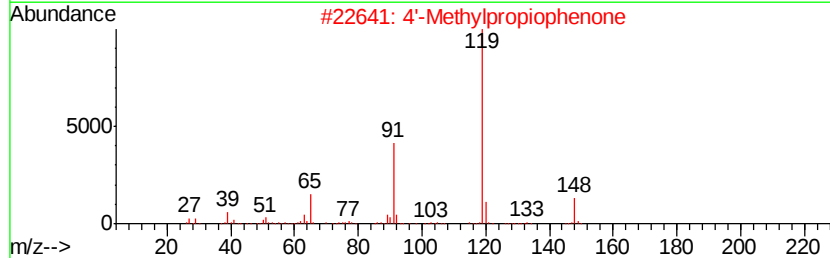
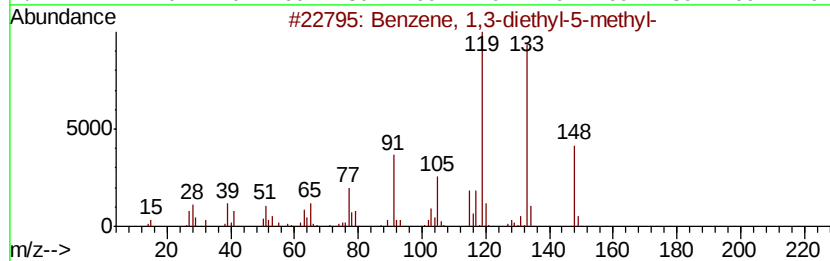
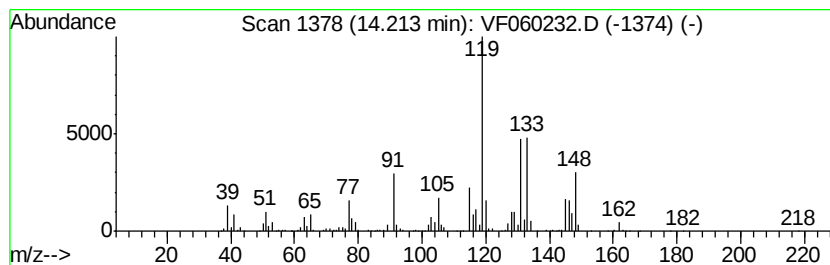
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown14.21 Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.21 | 170.57 ug/l | 2467300 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16  | 002050-24-0  | 46   |
| 2    |    | 4'-Methylpropiophenone              | 148 | C10H12O | 005337-93-9  | 46   |
| 3    |    | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0  | 46   |
| 4    |    | 3,4-Dihydro-2-quinoxalinol          | 148 | C8H8N2O | 1000332-36-8 | 38   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF091018\  
Data File : VF060232.D  
Acq On : 10 Sep 2018 14:03  
Operator : VA/AP  
Sample : J4803-08  
Misc : 5.04g/5mL/MSVOA\_F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
EP1-Q2-G6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F090618S.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 |
| 2-Octene, 2,6-dim... | 11.37 | 161.8   | ug/l  | 2340580  | 4                     | 12.64 | 723237 | 50.0 |
| unknown12.08         | 12.08 | 100.6   | ug/l  | 1455530  | 4                     | 12.64 | 723237 | 50.0 |
| unknown12.25         | 12.25 | 115.1   | ug/l  | 1665180  | 4                     | 12.64 | 723237 | 50.0 |
| Cyclohexane, 1,2-... | 12.92 | 115.1   | ug/l  | 1664540  | 4                     | 12.64 | 723237 | 50.0 |
| trans-Decalin, 2-... | 13.28 | 131.9   | ug/l  | 1908270  | 4                     | 12.64 | 723237 | 50.0 |
| Benzene, 1,3-dime... | 13.40 | 156.4   | ug/l  | 2261860  | 4                     | 12.64 | 723237 | 50.0 |
| unknown13.45         | 13.45 | 150.2   | ug/l  | 2172560  | 4                     | 12.64 | 723237 | 50.0 |
| Benzene, pentamet... | 13.65 | 142.0   | ug/l  | 2054630  | 4                     | 12.64 | 723237 | 50.0 |
| 3,4-Dimethylcumene   | 13.71 | 126.8   | ug/l  | 1833580  | 4                     | 12.64 | 723237 | 50.0 |
| unknown14.21         | 14.21 | 170.6   | ug/l  | 2467300  | 4                     | 12.64 | 723237 | 50.0 |