

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF102618\  
 Data File : VF060526.D  
 Acq On : 26 Oct 2018 19:51  
 Operator : VA/AP  
 Sample : J5204-09  
 Misc : 6.6/5mL/MSVOA F/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SU-02-102518-A

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.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         | 1.102       | 45            | 48          | 51           | rBV3     | 15433          | 27116         | 1.60%           | 0.193%        |
| 2         | 1.368       | 69            | 75          | 77           | rBV6     | 11748          | 30927         | 1.83%           | 0.221%        |
| 3         | 1.782       | 112           | 117         | 121          | rBV4     | 6417           | 24320         | 1.44%           | 0.173%        |
| 4         | 2.275       | 162           | 167         | 169          | rVV3     | 34241          | 79213         | 4.67%           | 0.565%        |
| 5         | 2.334       | 169           | 173         | 179          | rVV      | 57860          | 161663        | 9.54%           | 1.153%        |
| 6         | 2.482       | 182           | 188         | 194          | rVB4     | 18479          | 53060         | 3.13%           | 0.378%        |
| 7         | 4.187       | 353           | 361         | 364          | rBV5     | 13406          | 46093         | 2.72%           | 0.329%        |
| 8         | 4.296       | 364           | 372         | 386          | rVV      | 261836         | 831402        | 49.07%          | 5.930%        |
| 9         | 4.503       | 389           | 393         | 398          | rVV3     | 6975           | 17173         | 1.01%           | 0.122%        |
| 10        | 4.828       | 418           | 426         | 429          | rBV8     | 7622           | 28924         | 1.71%           | 0.206%        |
| 11        | 5.035       | 438           | 447         | 460          | rBV2     | 488723         | 1694419       | 100.00%         | 12.086%       |
| 12        | 5.627       | 501           | 507         | 511          | rBV5     | 14057          | 43704         | 2.58%           | 0.312%        |
| 13        | 5.765       | 514           | 521         | 532          | rBV      | 514588         | 1388078       | 81.92%          | 9.901%        |
| 14        | 7.184       | 660           | 665         | 668          | rBV4     | 7504           | 20653         | 1.22%           | 0.147%        |
| 15        | 7.706       | 713           | 718         | 722          | rVV      | 619490         | 1483788       | 87.57%          | 10.584%       |
| 16        | 7.775       | 722           | 725         | 732          | rVV      | 337802         | 802109        | 47.34%          | 5.722%        |
| 17        | 8.603       | 806           | 809         | 817          | rVB5     | 12582          | 34939         | 2.06%           | 0.249%        |
| 18        | 8.771       | 820           | 826         | 830          | rVV4     | 11984          | 29095         | 1.72%           | 0.208%        |
| 19        | 9.116       | 856           | 861         | 864          | rBV3     | 8417           | 19030         | 1.12%           | 0.136%        |
| 20        | 9.914       | 937           | 942         | 949          | rBV      | 551831         | 1262233       | 74.49%          | 9.004%        |
| 21        | 10.043      | 950           | 955         | 961          | rVB      | 46913          | 110940        | 6.55%           | 0.791%        |
| 22        | 10.269      | 973           | 978         | 983          | rBV      | 190080         | 373959        | 22.07%          | 2.667%        |
| 23        | 10.378      | 983           | 989         | 994          | rVB8     | 9358           | 29622         | 1.75%           | 0.211%        |
| 24        | 10.644      | 1005          | 1016        | 1022         | rBV7     | 9246           | 34884         | 2.06%           | 0.249%        |
| 25        | 10.792      | 1026          | 1031        | 1032         | rBV4     | 13358          | 27739         | 1.64%           | 0.198%        |
| 26        | 10.831      | 1032          | 1035        | 1039         | rVV      | 92193          | 165110        | 9.74%           | 1.178%        |
| 27        | 10.940      | 1044          | 1046        | 1053         | rVB6     | 5963           | 17413         | 1.03%           | 0.124%        |
| 28        | 11.225      | 1073          | 1075        | 1081         | rBV4     | 8947           | 21852         | 1.29%           | 0.156%        |
| 29        | 11.363      | 1087          | 1089        | 1093         | rVB3     | 12668          | 25552         | 1.51%           | 0.182%        |
| 30        | 11.511      | 1100          | 1104        | 1110         | rBV      | 533973         | 874407        | 51.61%          | 6.237%        |
| 31        | 11.649      | 1115          | 1118        | 1120         | rVV3     | 11253          | 18931         | 1.12%           | 0.135%        |
| 32        | 11.689      | 1120          | 1122        | 1126         | rVV      | 14324          | 24653         | 1.45%           | 0.176%        |
| 33        | 11.758      | 1126          | 1129        | 1131         | rVV3     | 10925          | 24990         | 1.47%           | 0.178%        |
| 34        | 11.807      | 1131          | 1134        | 1137         | rVB      | 39364          | 76601         | 4.52%           | 0.546%        |

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 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SU-02-102518-A

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 11.916 | 1142 | 1145 | 1148 | rVV  | 37394  | 55932  | 3.30%  | 0.399% |
| 36 | 12.103 | 1162 | 1164 | 1169 | rVB  | 29758  | 46995  | 2.77%  | 0.335% |
| 37 | 12.290 | 1179 | 1183 | 1187 | rVB  | 96395  | 145893 | 8.61%  | 1.041% |
| 38 | 12.379 | 1187 | 1192 | 1194 | rBV4 | 12426  | 31067  | 1.83%  | 0.222% |
| 39 | 12.537 | 1206 | 1208 | 1214 | rVB4 | 16242  | 32183  | 1.90%  | 0.230% |
| 40 | 12.635 | 1214 | 1218 | 1221 | rBV  | 599937 | 950807 | 56.11% | 6.782% |
| 41 | 12.684 | 1221 | 1223 | 1226 | rVB  | 61902  | 92917  | 5.48%  | 0.663% |
| 42 | 12.803 | 1232 | 1235 | 1238 | rBV2 | 36056  | 64356  | 3.80%  | 0.459% |
| 43 | 12.852 | 1238 | 1240 | 1241 | rVV  | 14017  | 21181  | 1.25%  | 0.151% |
| 44 | 12.901 | 1241 | 1245 | 1252 | rVB3 | 32598  | 90617  | 5.35%  | 0.646% |
| 45 | 13.010 | 1252 | 1256 | 1258 | rBV5 | 10421  | 17754  | 1.05%  | 0.127% |
| 46 | 13.079 | 1260 | 1263 | 1267 | rVB  | 27215  | 42608  | 2.51%  | 0.304% |
| 47 | 13.148 | 1267 | 1270 | 1275 | rBV3 | 19179  | 47592  | 2.81%  | 0.339% |
| 48 | 13.227 | 1275 | 1278 | 1280 | rBV  | 30553  | 45108  | 2.66%  | 0.322% |
| 49 | 13.305 | 1283 | 1286 | 1290 | rVV2 | 16578  | 36758  | 2.17%  | 0.262% |
| 50 | 13.493 | 1303 | 1305 | 1309 | rVB3 | 12918  | 18404  | 1.09%  | 0.131% |
| 51 | 13.562 | 1309 | 1312 | 1314 | rBV  | 19647  | 28441  | 1.68%  | 0.203% |
| 52 | 13.611 | 1314 | 1317 | 1319 | rBV  | 29840  | 41914  | 2.47%  | 0.299% |
| 53 | 13.779 | 1331 | 1334 | 1336 | rBV2 | 43100  | 71181  | 4.20%  | 0.508% |
| 54 | 13.926 | 1345 | 1349 | 1353 | rBV2 | 45869  | 119625 | 7.06%  | 0.853% |
| 55 | 14.035 | 1356 | 1360 | 1364 | rVB6 | 12209  | 30133  | 1.78%  | 0.215% |
| 56 | 14.143 | 1365 | 1371 | 1374 | rBV3 | 24948  | 58184  | 3.43%  | 0.415% |
| 57 | 14.212 | 1374 | 1378 | 1382 | rBV6 | 18088  | 56444  | 3.33%  | 0.403% |
| 58 | 14.281 | 1382 | 1385 | 1391 | rVB5 | 23108  | 46115  | 2.72%  | 0.329% |
| 59 | 14.360 | 1391 | 1393 | 1395 | rBV3 | 12567  | 18596  | 1.10%  | 0.133% |
| 60 | 14.518 | 1406 | 1409 | 1413 | rVV  | 299274 | 461362 | 27.23% | 3.291% |
| 61 | 14.567 | 1413 | 1414 | 1419 | rVV4 | 24616  | 44359  | 2.62%  | 0.316% |
| 62 | 14.666 | 1421 | 1424 | 1430 | rVB5 | 22451  | 44598  | 2.63%  | 0.318% |
| 63 | 14.804 | 1434 | 1438 | 1442 | rVB2 | 33863  | 58873  | 3.47%  | 0.420% |
| 64 | 14.932 | 1448 | 1451 | 1457 | rVB8 | 12290  | 36782  | 2.17%  | 0.262% |
| 65 | 15.070 | 1461 | 1465 | 1469 | rBV4 | 18313  | 39193  | 2.31%  | 0.280% |
| 66 | 15.178 | 1473 | 1476 | 1478 | rBV3 | 11600  | 17886  | 1.06%  | 0.128% |
| 67 | 15.346 | 1488 | 1493 | 1497 | rVV  | 342709 | 488861 | 28.85% | 3.487% |
| 68 | 15.395 | 1497 | 1498 | 1502 | rVV4 | 11474  | 20714  | 1.22%  | 0.148% |
| 69 | 15.474 | 1502 | 1506 | 1512 | rVB  | 260286 | 409958 | 24.19% | 2.924% |
| 70 | 15.632 | 1520 | 1522 | 1525 | rBV2 | 15275  | 24078  | 1.42%  | 0.172% |
| 71 | 15.711 | 1528 | 1530 | 1534 | rVB3 | 22194  | 38307  | 2.26%  | 0.273% |

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ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-02-102518-A

## Integration Parameters: RTEINT.P

Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
Title : SW846 8260

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 72 | 15.780 | 1534 | 1537 | 1540 | rBV4 | 13342 | 28944  | 1.71% | 0.206% |
| 73 | 15.888 | 1543 | 1548 | 1551 | rBV7 | 18299 | 43356  | 2.56% | 0.309% |
| 74 | 16.026 | 1558 | 1562 | 1563 | rBV4 | 10261 | 20095  | 1.19% | 0.143% |
| 75 | 16.075 | 1563 | 1567 | 1569 | rBV  | 71495 | 126432 | 7.46% | 0.902% |

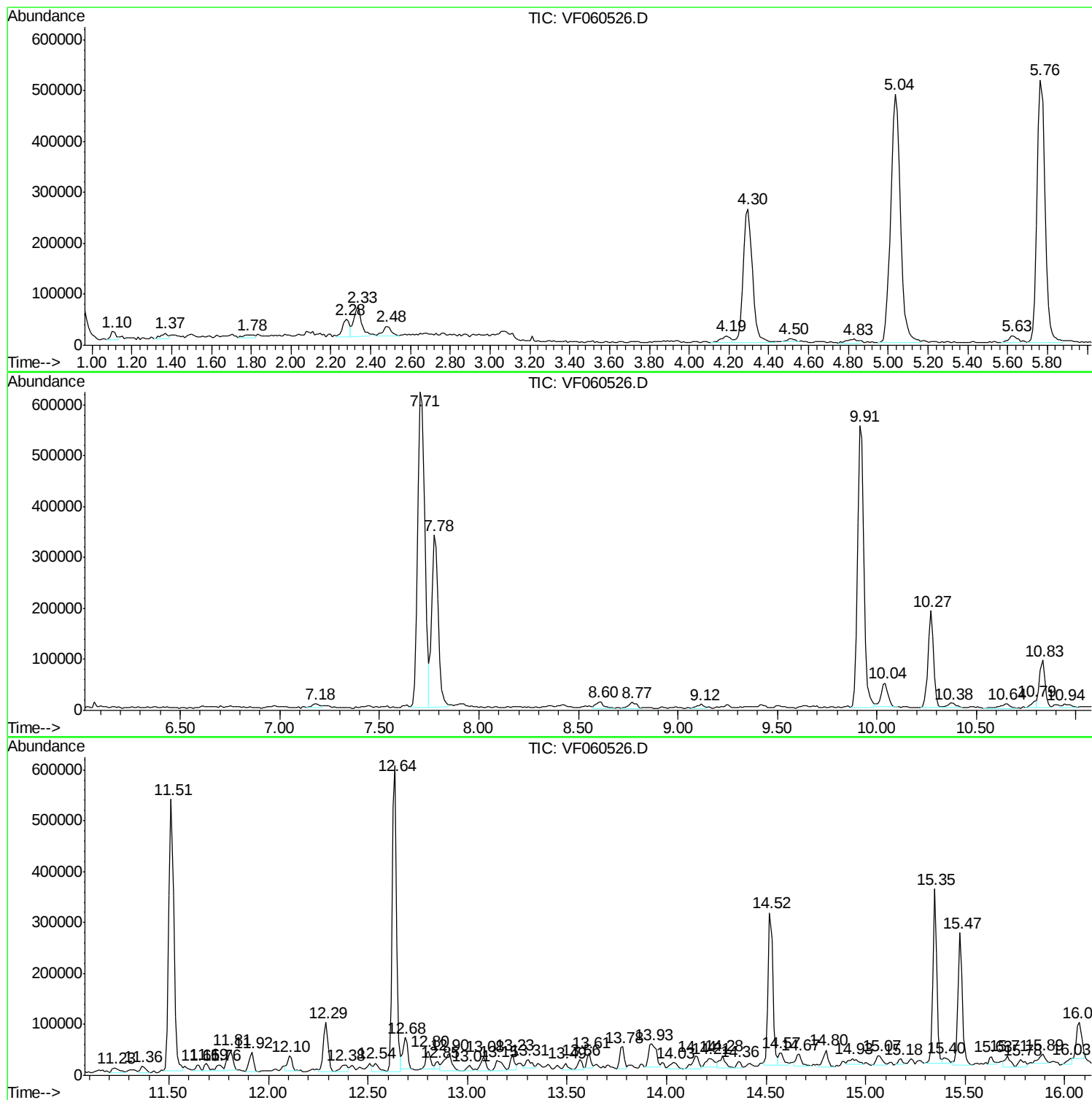
Sum of corrected areas: 14019195

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ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-02-102518-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
Quant Title : SW846 8260

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



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ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-02-102518-A

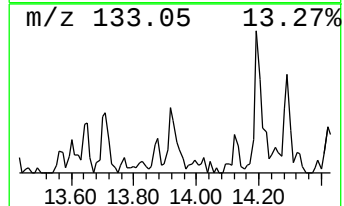
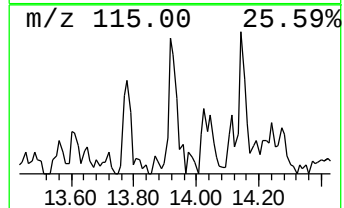
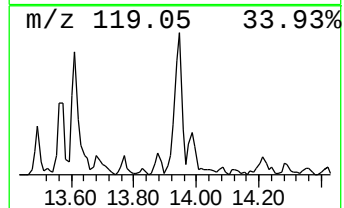
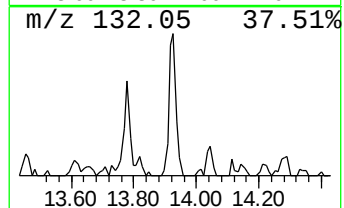
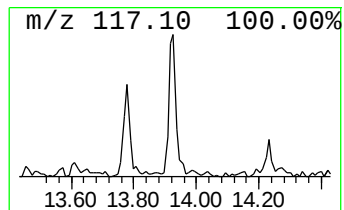
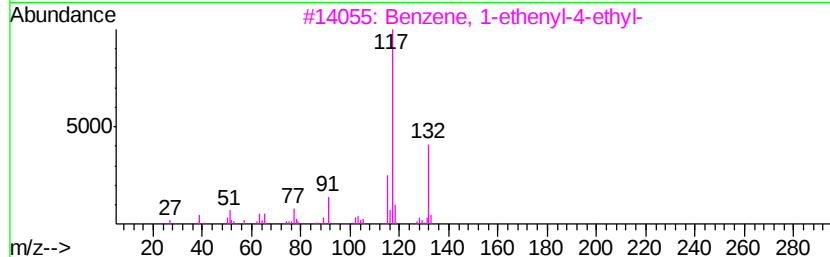
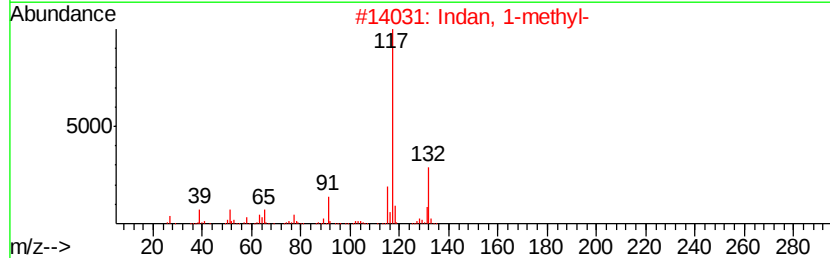
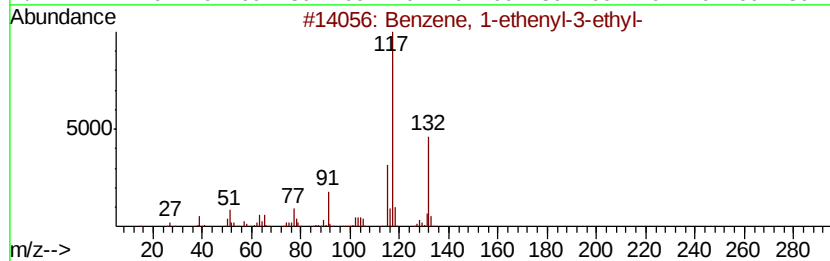
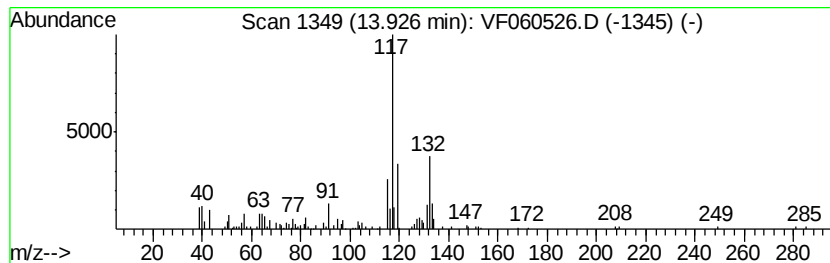
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.93 | 6.29 ug/l | 119625 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12  | 007525-62-4 | 81   |
| 2    |    | Indan, 1-methyl-            | 132 | C10H12  | 000767-58-8 | 81   |
| 3    |    | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12  | 003454-07-7 | 76   |
| 4    |    | 1-Phenyl-1-butene           | 132 | C10H12  | 000824-90-8 | 74   |
| 5    |    | Benzene, 2-butenyl-         | 132 | C10H12  | 001560-06-1 | 74   |



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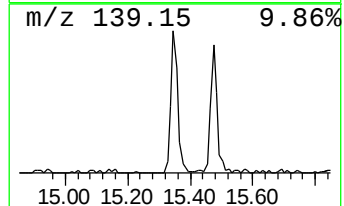
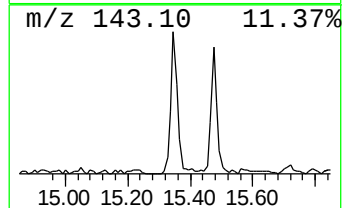
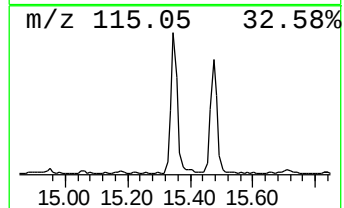
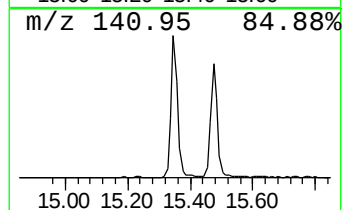
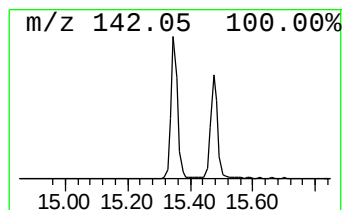
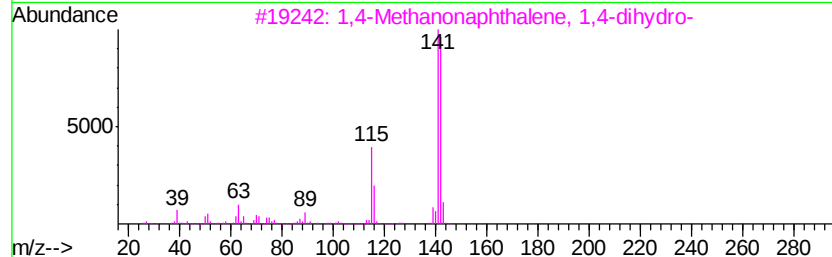
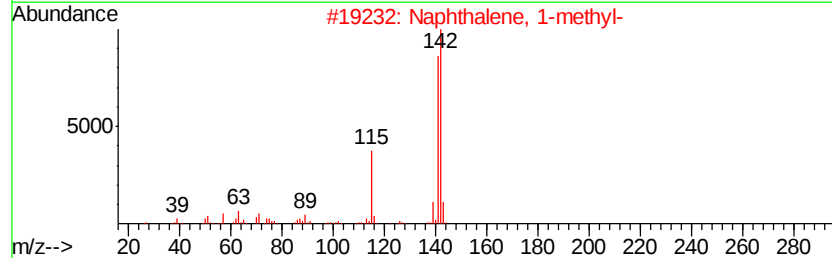
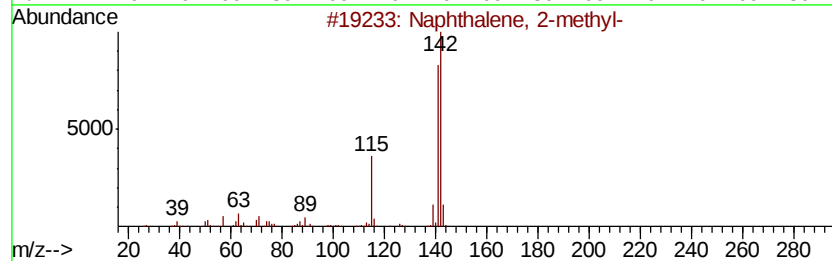
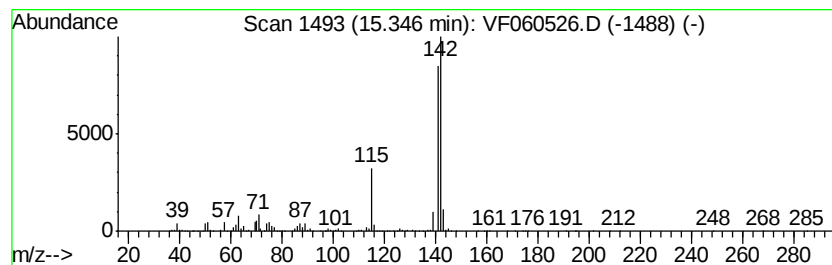
Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.    |             |      |
|---------|------------|-------------------------------------|------------------------|---------|-------------|------|
| 15.35   | 25.71 ug/l | 488861                              | 1,4-Dichlorobenzene-d4 | 12.64   |             |      |
| Hit# of | 5          | Tentative ID                        | MW                     | MolForm | CAS#        | Qual |
| 1       |            | Naphthalene, 2-methyl-              | 142                    | C11H10  | 000091-57-6 | 95   |
| 2       |            | Naphthalene, 1-methyl-              | 142                    | C11H10  | 000090-12-0 | 95   |
| 3       |            | 1,4-Methanonaphthalene, 1,4-dihv... | 142                    | C11H10  | 004453-90-1 | 90   |
| 4       |            | Benzocycloheptatriene               | 142                    | C11H10  | 000264-09-5 | 90   |
| 5       |            | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142                    | C11H10  | 002443-46-1 | 87   |



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MSVOA\_F  
ClientSampled :  
SU-02-102518-A

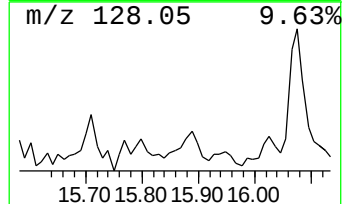
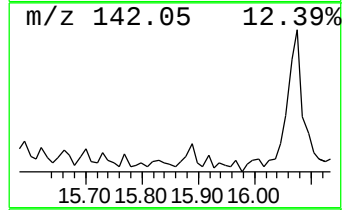
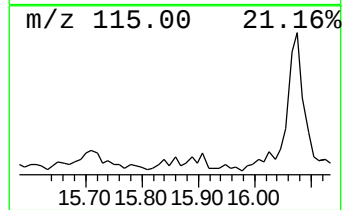
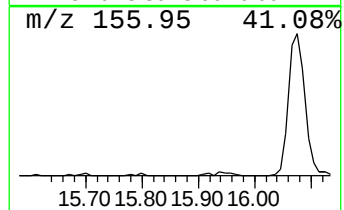
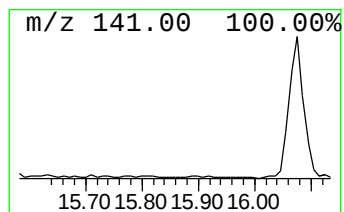
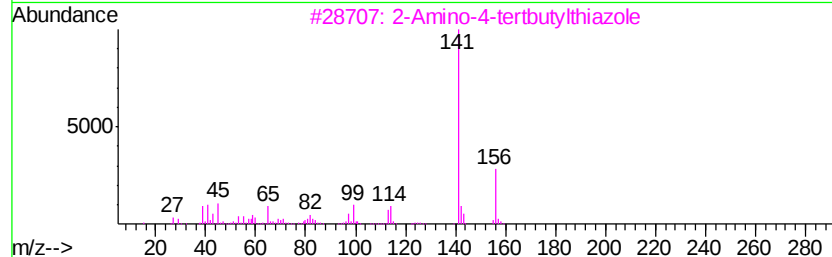
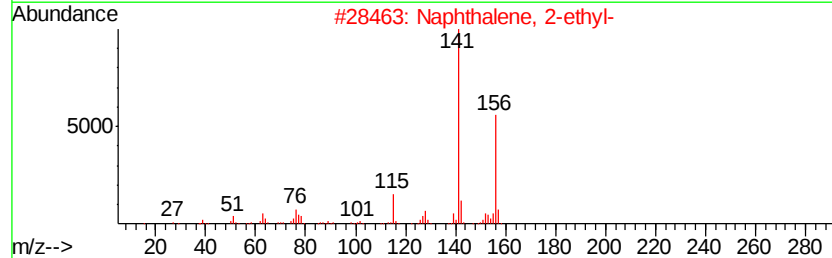
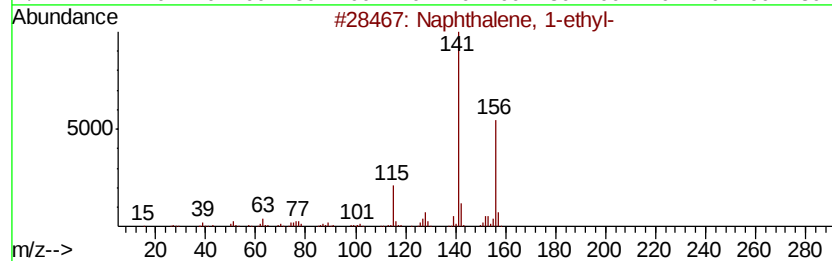
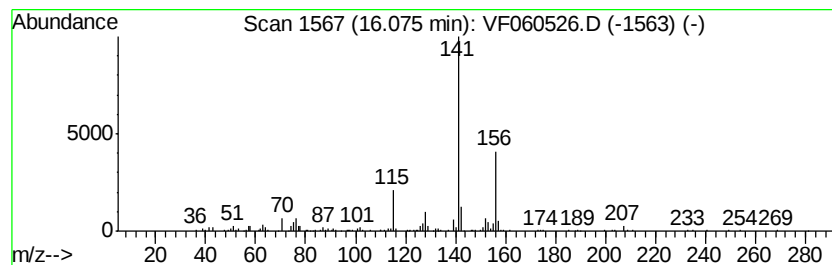
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Naphthalene, 1-ethyl- Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.08 | 6.65 ug/l | 126432 | 1,4-Dichlorobenzene-d4 | 12.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Naphthalene, 1-ethyl-               | 156 | C12H12     | 001127-76-0 | 97   |
| 2    |    | Naphthalene, 2-ethyl-               | 156 | C12H12     | 000939-27-5 | 96   |
| 3    |    | 2-Amino-4-tertbutylthiazole         | 156 | C7H12N2S   | 074370-93-7 | 59   |
| 4    |    | 2-Thiophenecarboxylic acid, 5-et... | 156 | C7H8O2S    | 023229-72-3 | 59   |
| 5    |    | Butethal                            | 212 | C10H16N2O3 | 000077-28-1 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF102618\  
Data File : VF060526.D  
Acq On : 26 Oct 2018 19:51  
Operator : VA/AP  
Sample : J5204-09  
Misc : 6.6/5mL/MSVOA\_F/SOIL  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-02-102518-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F102518S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Benzene, 1-etheny... | 13.93 | 6.3     | ug/l  | 119625   | 4                     | 12.64 | 950807 | 50.0 |
| Naphthalene, 1-me... | 15.35 | 25.7    | ug/l  | 488861   | 4                     | 12.64 | 950807 | 50.0 |
| Naphthalene, 1-et... | 16.08 | 6.7     | ug/l  | 126432   | 4                     | 12.64 | 950807 | 50.0 |