

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
 Data File : VD062420.D  
 Acq On : 16 May 2019 16:28  
 Operator : FY/SY  
 Sample : K2823-06  
 Misc : 5.42g/5mL/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 12-B2

## 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\_D\METHOD\82D050719S.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         | 2.347       | 89            | 94          | 114          | rBV      | 2781799        | 6061805       | 9.41%           | 0.339%        |
| 2         | 3.174       | 170           | 178         | 206          | rBV      | 2281902        | 7541107       | 11.70%          | 0.421%        |
| 3         | 3.843       | 232           | 246         | 276          | rBV      | 12268906       | 52142398      | 80.92%          | 2.913%        |
| 4         | 4.227       | 276           | 285         | 309          | rVV      | 8742829        | 31953894      | 49.59%          | 1.785%        |
| 5         | 4.699       | 324           | 333         | 347          | rBV      | 5131040        | 18082688      | 28.06%          | 1.010%        |
| 6         | 5.536       | 408           | 418         | 426          | rBV2     | 1084901        | 4700462       | 7.29%           | 0.263%        |
| 7         | 5.713       | 427           | 436         | 441          | rBV      | 4464164        | 17090808      | 26.52%          | 0.955%        |
| 8         | 5.801       | 441           | 445         | 454          | rVB      | 3409481        | 11822432      | 18.35%          | 0.661%        |
| 9         | 6.667       | 519           | 533         | 542          | rBV2     | 1050678        | 5253870       | 8.15%           | 0.294%        |
| 10        | 7.002       | 555           | 567         | 573          | rBV      | 12590075       | 51498716      | 79.92%          | 2.877%        |
| 11        | 7.130       | 573           | 580         | 589          | rVB      | 10010407       | 35867521      | 55.66%          | 2.004%        |
| 12        | 7.317       | 589           | 599         | 610          | rVB      | 16394007       | 59161183      | 91.81%          | 3.305%        |
| 13        | 7.632       | 620           | 631         | 635          | rBV2     | 5228097        | 18295987      | 28.39%          | 1.022%        |
| 14        | 7.740       | 635           | 642         | 647          | rVB      | 16887121       | 64434274      | 99.99%          | 3.600%        |
| 15        | 7.819       | 647           | 650         | 656          | rVB      | 3050474        | 8222203       | 12.76%          | 0.459%        |
| 16        | 8.045       | 663           | 673         | 684          | rVB2     | 8377933        | 27511943      | 42.69%          | 1.537%        |
| 17        | 8.222       | 684           | 691         | 700          | rBV2     | 5219446        | 18217142      | 28.27%          | 1.018%        |
| 18        | 8.882       | 746           | 758         | 762          | rBV3     | 8624437        | 34887004      | 54.14%          | 1.949%        |
| 19        | 8.960       | 762           | 766         | 770          | rBV      | 5170833        | 12560853      | 19.49%          | 0.702%        |
| 20        | 9.039       | 770           | 774         | 779          | rVB      | 8128641        | 20092288      | 31.18%          | 1.123%        |
| 21        | 9.128       | 779           | 783         | 785          | rBV      | 1989754        | 4875033       | 7.57%           | 0.272%        |
| 22        | 9.177       | 785           | 788         | 796          | rVB      | 3486764        | 7977116       | 12.38%          | 0.446%        |
| 23        | 9.325       | 796           | 803         | 809          | rBV3     | 3474329        | 10779720      | 16.73%          | 0.602%        |
| 24        | 9.580       | 819           | 829         | 836          | rBV      | 15177066       | 51705301      | 80.24%          | 2.889%        |
| 25        | 9.777       | 836           | 849         | 852          | rBV2     | 16708687       | 64439055      | 100.00%         | 3.600%        |
| 26        | 9.944       | 860           | 866         | 875          | rVB2     | 12217496       | 49790537      | 77.27%          | 2.782%        |
| 27        | 10.092      | 875           | 881         | 883          | rBV      | 2171177        | 5531108       | 8.58%           | 0.309%        |
| 28        | 10.161      | 883           | 888         | 897          | rVB      | 14334162       | 49955426      | 77.52%          | 2.791%        |
| 29        | 10.299      | 897           | 902         | 906          | rVB      | 2206919        | 5132333       | 7.96%           | 0.287%        |
| 30        | 10.387      | 906           | 911         | 913          | rBV      | 7673362        | 20427191      | 31.70%          | 1.141%        |
| 31        | 10.633      | 931           | 936         | 939          | rBV      | 4728085        | 12486459      | 19.38%          | 0.698%        |
| 32        | 10.692      | 939           | 942         | 945          | rVV2     | 1882675        | 4720660       | 7.33%           | 0.264%        |
| 33        | 10.810      | 949           | 954         | 958          | rVB2     | 6613356        | 15724009      | 24.40%          | 0.878%        |
| 34        | 10.938      | 961           | 967         | 973          | rVB3     | 3555187        | 12777011      | 19.83%          | 0.714%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
 Data File : VD062420.D  
 Acq On : 16 May 2019 16:28  
 Operator : FY/SY  
 Sample : K2823-06  
 Misc : 5.42g/5mL/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 12-B2

## 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\_D\METHOD\82D050719S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |        |        |
|----|--------|------|------|------|------|----------|----------|--------|--------|
| 35 | 11.125 | 978  | 986  | 991  | rBV5 | 6369872  | 20635195 | 32.02% | 1.153% |
| 36 | 11.214 | 991  | 995  | 998  | rBV  | 1941075  | 4347846  | 6.75%  | 0.243% |
| 37 | 11.263 | 998  | 1000 | 1005 | rVB3 | 1632333  | 3690611  | 5.73%  | 0.206% |
| 38 | 11.362 | 1005 | 1010 | 1018 | rBV  | 3612528  | 8716699  | 13.53% | 0.487% |
| 39 | 11.509 | 1018 | 1025 | 1029 | rBV  | 6841078  | 16454590 | 25.54% | 0.919% |
| 40 | 11.667 | 1033 | 1041 | 1047 | rBV2 | 8975292  | 32147657 | 49.89% | 1.796% |
| 41 | 11.765 | 1047 | 1051 | 1055 | rVB2 | 5295139  | 12246143 | 19.00% | 0.684% |
| 42 | 11.854 | 1055 | 1060 | 1064 | rBV  | 5375894  | 13459828 | 20.89% | 0.752% |
| 43 | 11.913 | 1064 | 1066 | 1070 | rVB3 | 2833274  | 5411788  | 8.40%  | 0.302% |
| 44 | 12.001 | 1070 | 1075 | 1080 | rVB3 | 2520250  | 7802559  | 12.11% | 0.436% |
| 45 | 12.080 | 1080 | 1083 | 1086 | rBV  | 5556617  | 10751913 | 16.69% | 0.601% |
| 46 | 12.139 | 1086 | 1089 | 1091 | rBV  | 6638043  | 11892982 | 18.46% | 0.664% |
| 47 | 12.208 | 1091 | 1096 | 1100 | rVB2 | 16231540 | 47507870 | 73.73% | 2.654% |
| 48 | 12.336 | 1104 | 1109 | 1116 | rVB  | 17182609 | 45174406 | 70.10% | 2.524% |
| 49 | 12.444 | 1116 | 1120 | 1122 | rBV  | 4655311  | 9714938  | 15.08% | 0.543% |
| 50 | 12.562 | 1128 | 1132 | 1135 | rBV2 | 5863988  | 13470360 | 20.90% | 0.753% |
| 51 | 12.651 | 1135 | 1141 | 1145 | rVV5 | 5082414  | 18833812 | 29.23% | 1.052% |
| 52 | 12.720 | 1145 | 1148 | 1150 | rVV  | 5026486  | 7294551  | 11.32% | 0.408% |
| 53 | 12.769 | 1150 | 1153 | 1159 | rVB2 | 9700153  | 19505393 | 30.27% | 1.090% |
| 54 | 12.867 | 1159 | 1163 | 1167 | rBV3 | 1840138  | 4985227  | 7.74%  | 0.279% |
| 55 | 12.936 | 1167 | 1170 | 1174 | rBV4 | 2653289  | 6433083  | 9.98%  | 0.359% |
| 56 | 13.015 | 1174 | 1178 | 1182 | rBV3 | 9431024  | 20712388 | 32.14% | 1.157% |
| 57 | 13.103 | 1185 | 1187 | 1191 | rVB  | 7594426  | 13482284 | 20.92% | 0.753% |
| 58 | 13.172 | 1191 | 1194 | 1196 | rBV2 | 3722732  | 7107263  | 11.03% | 0.397% |
| 59 | 13.241 | 1199 | 1201 | 1204 | rVB  | 10677735 | 13720634 | 21.29% | 0.767% |
| 60 | 13.320 | 1204 | 1209 | 1215 | rVB3 | 10104562 | 25070270 | 38.91% | 1.401% |
| 61 | 13.418 | 1215 | 1219 | 1223 | rVB3 | 3835689  | 7081638  | 10.99% | 0.396% |
| 62 | 13.507 | 1223 | 1228 | 1230 | rBV2 | 5732050  | 14146355 | 21.95% | 0.790% |
| 63 | 13.566 | 1230 | 1234 | 1236 | rBV2 | 8678489  | 18872583 | 29.29% | 1.054% |
| 64 | 13.605 | 1236 | 1238 | 1241 | rVB  | 13576407 | 19144095 | 29.71% | 1.070% |
| 65 | 13.684 | 1244 | 1246 | 1248 | rBV  | 12427545 | 15885454 | 24.65% | 0.887% |
| 66 | 13.733 | 1248 | 1251 | 1253 | rVB3 | 5288951  | 8362886  | 12.98% | 0.467% |
| 67 | 13.792 | 1253 | 1257 | 1259 | rBV  | 6957267  | 12797520 | 19.86% | 0.715% |
| 68 | 13.841 | 1259 | 1262 | 1264 | rVB2 | 2818156  | 4702597  | 7.30%  | 0.263% |
| 69 | 13.940 | 1266 | 1272 | 1274 | rBV4 | 3655957  | 9048298  | 14.04% | 0.506% |
| 70 | 13.979 | 1274 | 1276 | 1279 | rVB3 | 5342375  | 10067166 | 15.62% | 0.562% |
| 71 | 14.038 | 1279 | 1282 | 1284 | rBV3 | 2449668  | 3590364  | 5.57%  | 0.201% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
 Data File : VD062420.D  
 Acq On : 16 May 2019 16:28  
 Operator : FY/SY  
 Sample : K2823-06  
 Misc : 5.42g/5mL/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 12-B2

## 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\_D\METHOD\82D050719S.M  
 Title : SW846 8260

|     |        |      |      |      |      |          |          |        |        |
|-----|--------|------|------|------|------|----------|----------|--------|--------|
| 72  | 14.127 | 1288 | 1291 | 1294 | rBV2 | 6340702  | 10942695 | 16.98% | 0.611% |
| 73  | 14.176 | 1294 | 1296 | 1298 | rBV  | 4625014  | 6952549  | 10.79% | 0.388% |
| 74  | 14.215 | 1298 | 1300 | 1304 | rVB2 | 5339885  | 6141435  | 9.53%  | 0.343% |
| 75  | 14.274 | 1304 | 1306 | 1310 | rVB2 | 5522830  | 8584446  | 13.32% | 0.480% |
| 76  | 14.343 | 1310 | 1313 | 1314 | rBV  | 5659203  | 10127613 | 15.72% | 0.566% |
| 77  | 14.452 | 1319 | 1324 | 1326 | rVV3 | 8100124  | 22603950 | 35.08% | 1.263% |
| 78  | 14.491 | 1326 | 1328 | 1330 | rVV2 | 3800411  | 8214967  | 12.75% | 0.459% |
| 79  | 14.530 | 1330 | 1332 | 1334 | rVV  | 9899621  | 15824373 | 24.56% | 0.884% |
| 80  | 14.570 | 1334 | 1336 | 1337 | rVV  | 7149095  | 10323413 | 16.02% | 0.577% |
| 81  | 14.599 | 1337 | 1339 | 1341 | rVV  | 10812574 | 16349852 | 25.37% | 0.913% |
| 82  | 14.668 | 1341 | 1346 | 1348 | rVV  | 9492100  | 22711170 | 35.24% | 1.269% |
| 83  | 14.717 | 1348 | 1351 | 1356 | rVV  | 15098958 | 29392112 | 45.61% | 1.642% |
| 84  | 14.806 | 1356 | 1360 | 1364 | rVV2 | 11781048 | 33285628 | 51.65% | 1.860% |
| 85  | 14.865 | 1364 | 1366 | 1368 | rVV  | 4469343  | 7686401  | 11.93% | 0.429% |
| 86  | 14.924 | 1368 | 1372 | 1374 | rVV  | 7138970  | 16127996 | 25.03% | 0.901% |
| 87  | 15.072 | 1381 | 1387 | 1392 | rVV  | 19075205 | 46096155 | 71.53% | 2.575% |
| 88  | 15.160 | 1392 | 1396 | 1400 | rVV2 | 9938001  | 24099105 | 37.40% | 1.346% |
| 89  | 15.229 | 1400 | 1403 | 1406 | rVV3 | 4148169  | 10136396 | 15.73% | 0.566% |
| 90  | 15.268 | 1406 | 1407 | 1409 | rVV2 | 2285675  | 3730983  | 5.79%  | 0.208% |
| 91  | 15.357 | 1411 | 1416 | 1419 | rVV2 | 14346025 | 28327530 | 43.96% | 1.583% |
| 92  | 15.436 | 1421 | 1424 | 1427 | rVV  | 12504604 | 19234991 | 29.85% | 1.075% |
| 93  | 15.524 | 1427 | 1433 | 1437 | rVV4 | 6196080  | 20184862 | 31.32% | 1.128% |
| 94  | 15.583 | 1437 | 1439 | 1441 | rVV2 | 4317817  | 6832869  | 10.60% | 0.382% |
| 95  | 15.642 | 1441 | 1445 | 1447 | rVV2 | 6083110  | 11514749 | 17.87% | 0.643% |
| 96  | 15.682 | 1447 | 1449 | 1453 | rVV3 | 8428362  | 14522413 | 22.54% | 0.811% |
| 97  | 15.741 | 1453 | 1455 | 1458 | rVV  | 7570591  | 10056108 | 15.61% | 0.562% |
| 98  | 15.879 | 1465 | 1469 | 1470 | rVV  | 2800352  | 4287171  | 6.65%  | 0.240% |
| 99  | 15.918 | 1470 | 1473 | 1477 | rVV2 | 5824617  | 14806049 | 22.98% | 0.827% |
| 100 | 16.006 | 1479 | 1482 | 1486 | rVB  | 3109253  | 4828697  | 7.49%  | 0.270% |

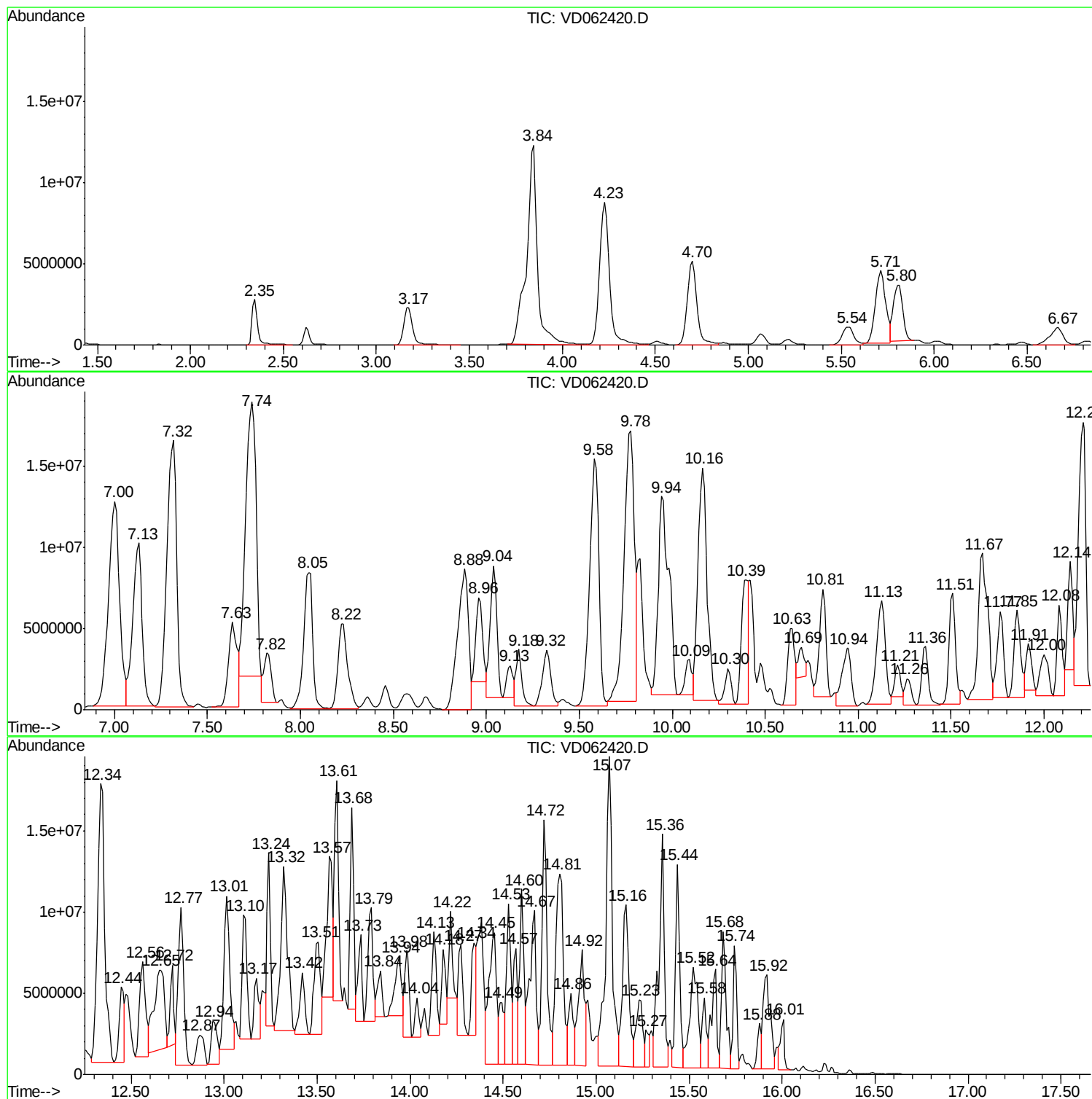
Sum of corrected areas: 1789915461

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

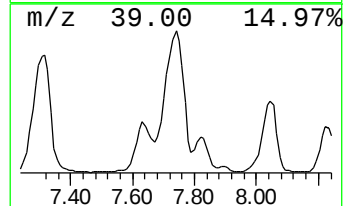
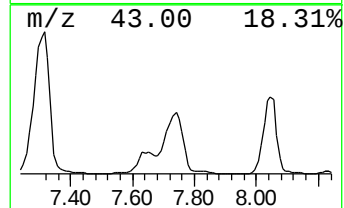
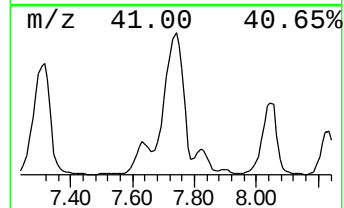
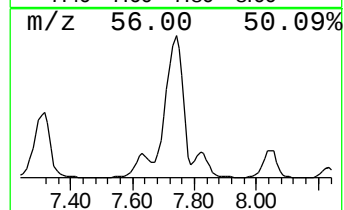
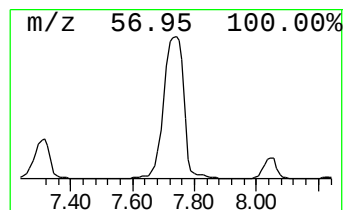
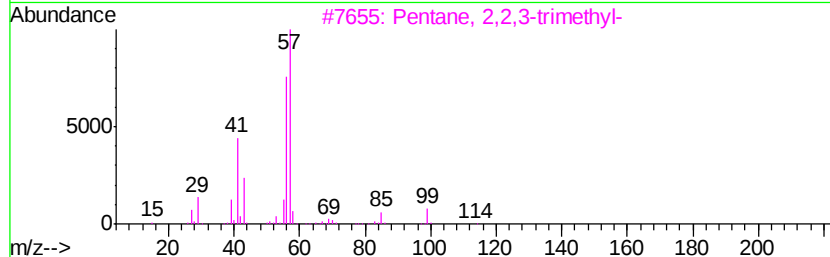
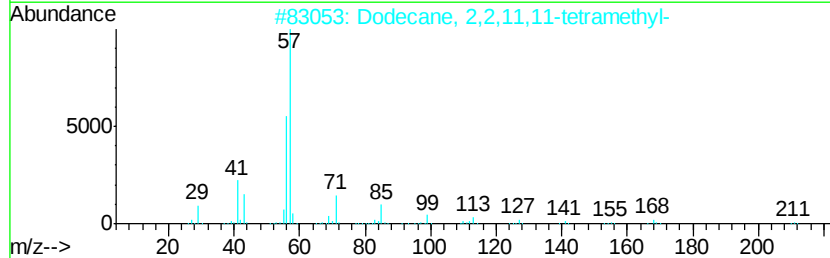
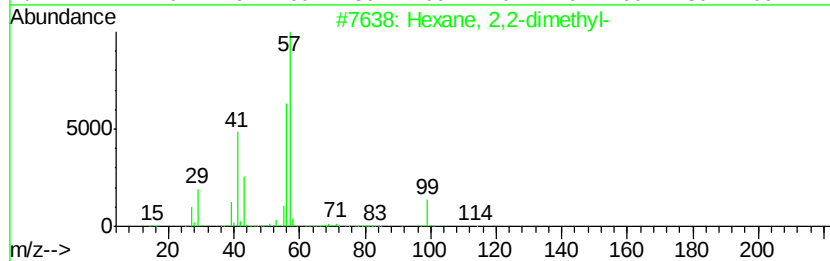
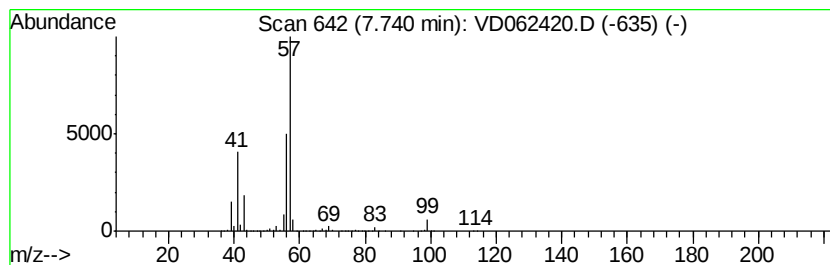
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Hexane, 2,2-dimethyl- Concentration Rank 2

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 7.74 | 176.85 ug/l | 64434300 | 1,4-Difluorobenzene | 8.22 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 2,2-dimethyl-            | 114 | C8H18   | 000590-73-8 | 78   |
| 2    |    | Dodecane, 2,2,11,11-tetramethyl- | 226 | C16H34  | 127204-12-0 | 72   |
| 3    |    | Pentane, 2,2,3-trimethyl-        | 114 | C8H18   | 000564-02-3 | 64   |
| 4    |    | Hexane, 2,2,4-trimethyl-         | 128 | C9H20   | 016747-26-5 | 56   |
| 5    |    | Pentane, 2,2,4-trimethyl-        | 114 | C8H18   | 000540-84-1 | 56   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
 Data File : VD062420.D  
 Acq On : 16 May 2019 16:28  
 Operator : FY/SY  
 Sample : K2823-06  
 Misc : 5.42g/5mL/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260

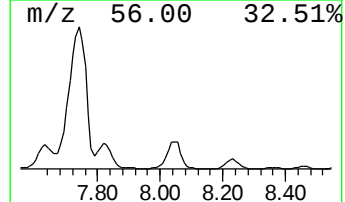
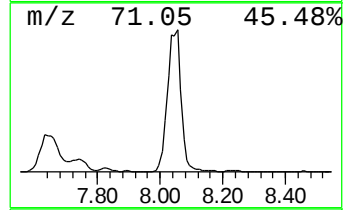
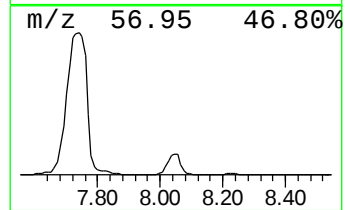
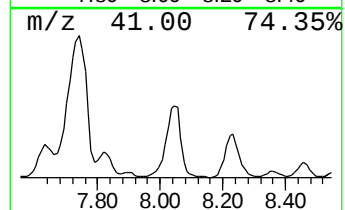
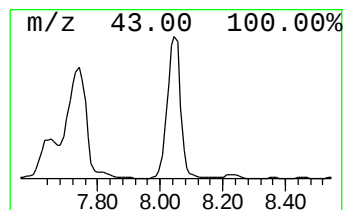
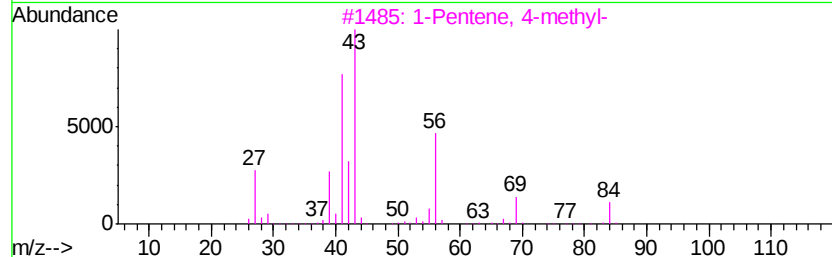
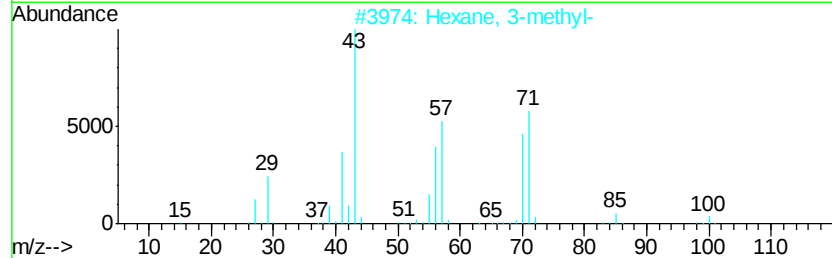
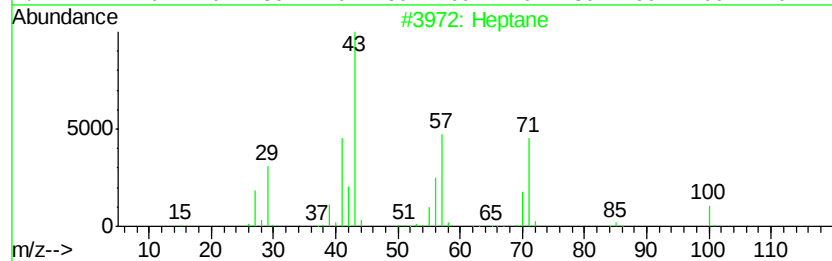
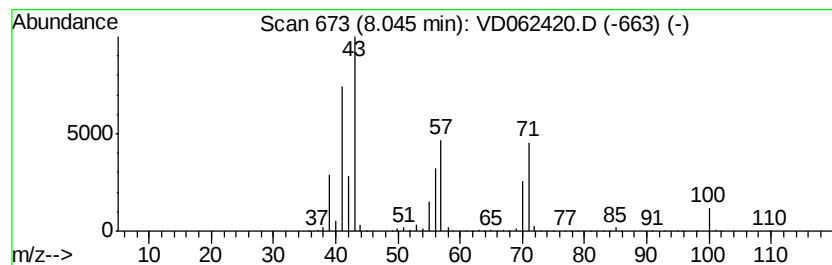
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 2 Heptane Concentration Rank 10

| R.T. | EstConc    | Area     | Relative to ISTD    | R.T. |
|------|------------|----------|---------------------|------|
| 8.05 | 75.51 ug/l | 27511900 | 1,4-Difluorobenzene | 8.22 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | Heptane                   |              | 100 | C7H16   | 000142-82-5 | 90   |
| 2       | Hexane, 3-methyl-         |              | 100 | C7H16   | 000589-34-4 | 53   |
| 3       | 1-Pentene, 4-methyl-      |              | 84  | C6H12   | 000691-37-2 | 38   |
| 4       | Pentane, 2,3,4-trimethyl- |              | 114 | C8H18   | 000565-75-3 | 37   |
| 5       | Heptane, 3,4-dimethyl-    |              | 128 | C9H20   | 000922-28-1 | 25   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

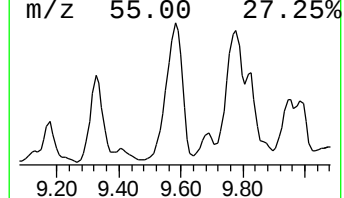
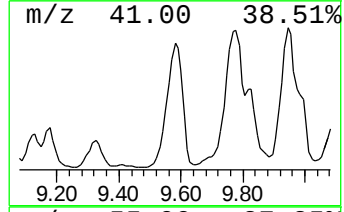
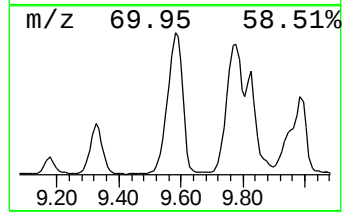
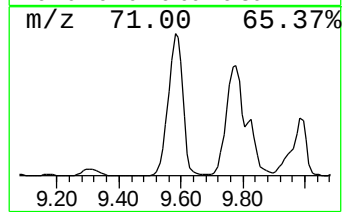
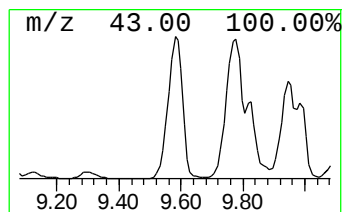
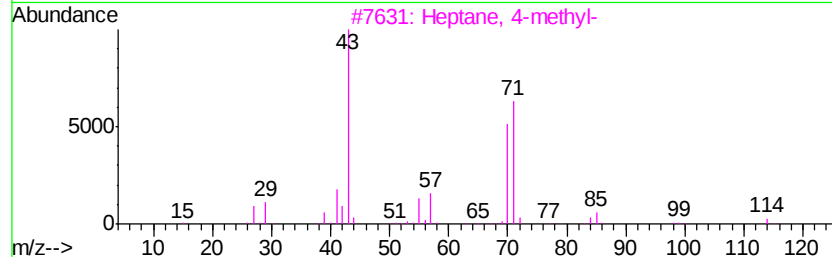
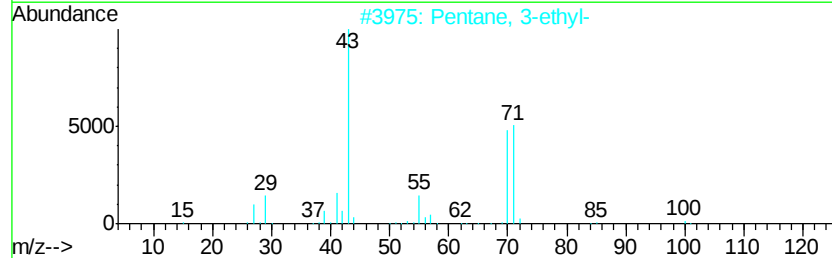
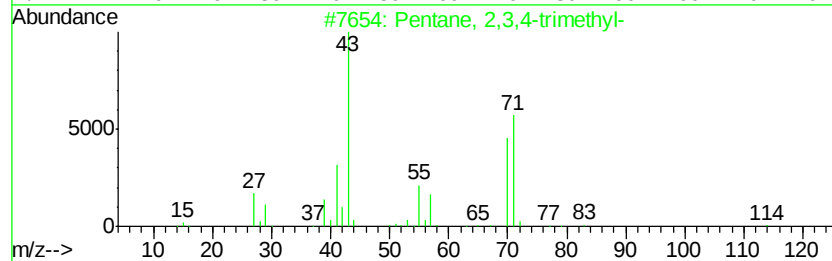
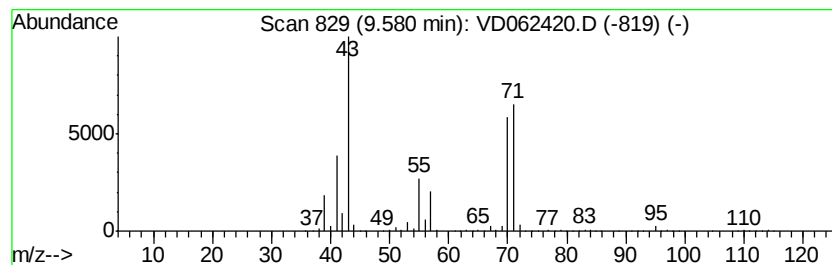
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Pentane, 2,3,4-trimethyl- Concentration Rank 4

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 9.58 | 141.91 ug/l | 51705300 | 1,4-Difluorobenzene | 8.22 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 91   |
| 2    |    | Pentane, 3-ethyl-         | 100 | C7H16   | 000617-78-7 | 83   |
| 3    |    | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 83   |
| 4    |    | 3,3-Dimethyl-2-pentanol   | 116 | C7H16O  | 019781-24-9 | 83   |
| 5    |    | Hexane, 2,3-dimethyl-     | 114 | C8H18   | 000584-94-1 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

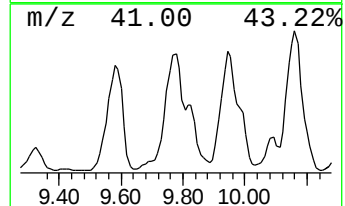
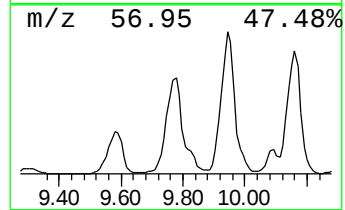
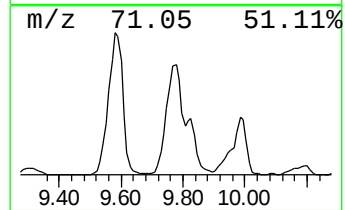
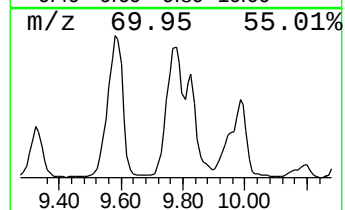
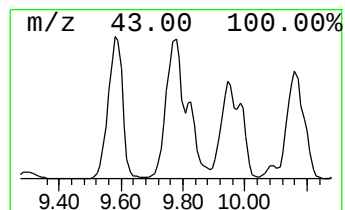
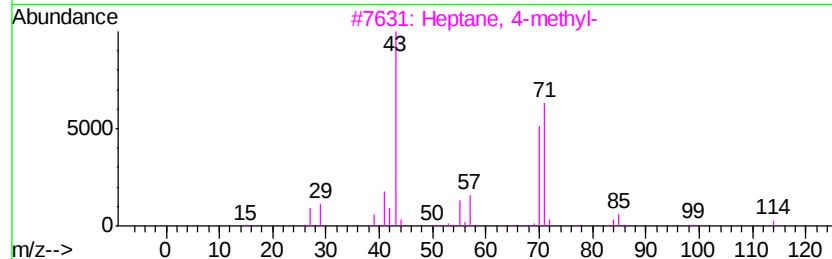
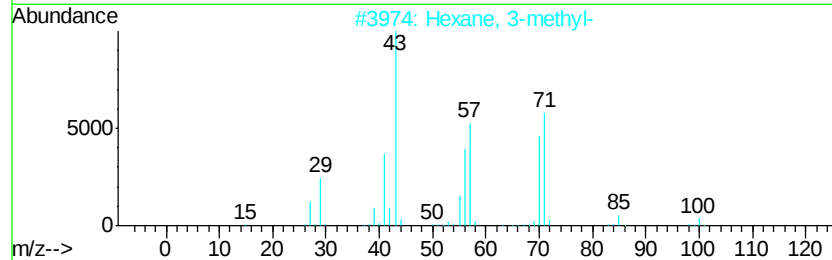
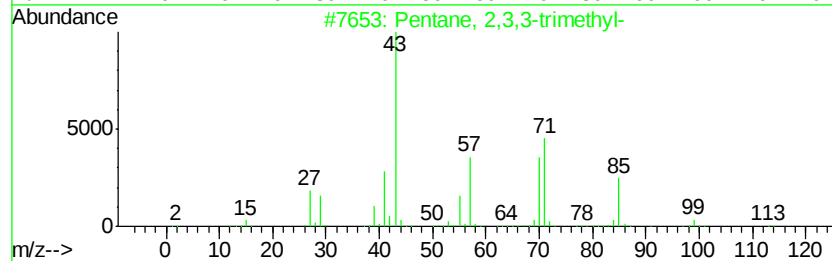
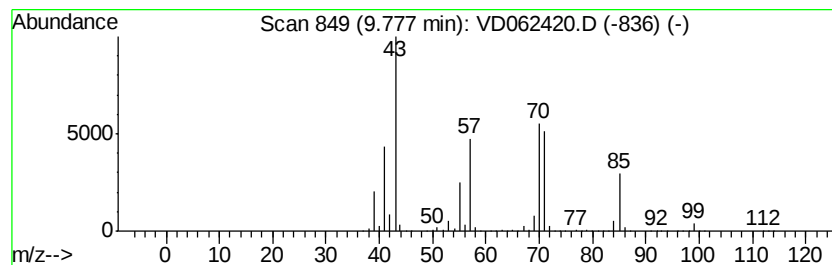
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

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

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

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 9.78 | 176.86 ug/l | 64439100 | 1,4-Difluorobenzene | 8.22 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 72   |
| 2    |    | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 64   |
| 3    |    | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 64   |
| 4    |    | Decane, 3,3,4-trimethyl-  | 184 | C13H28  | 049622-18-6 | 59   |
| 5    |    | Hexane, 3,3-dimethyl-     | 114 | C8H18   | 000563-16-6 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
12-B2

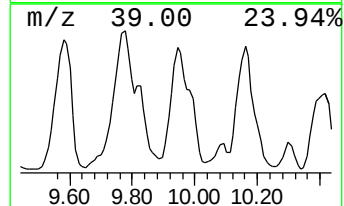
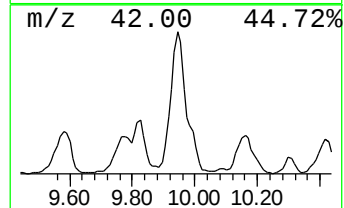
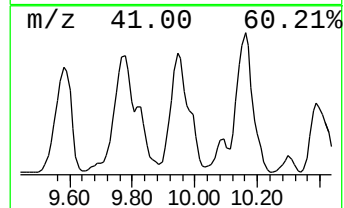
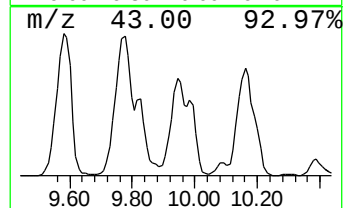
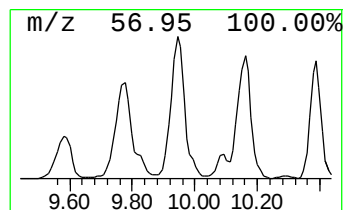
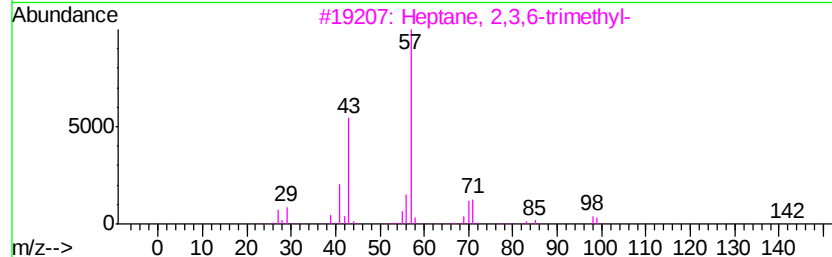
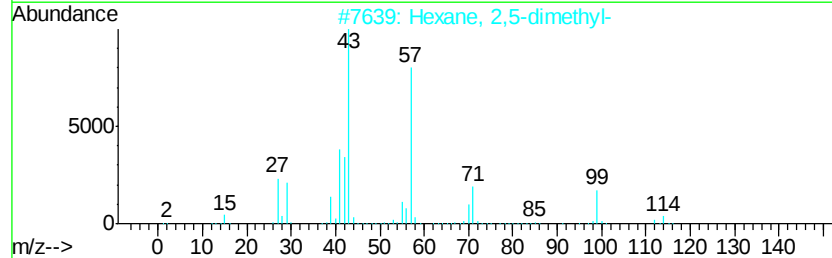
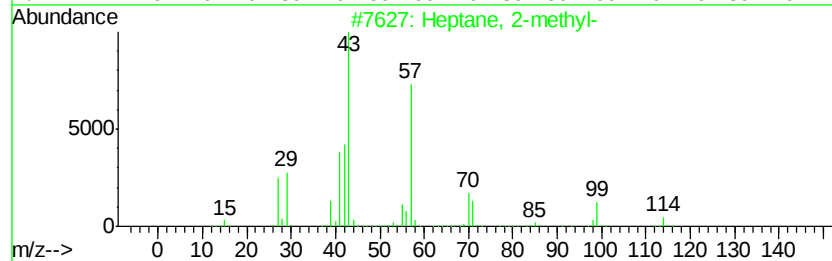
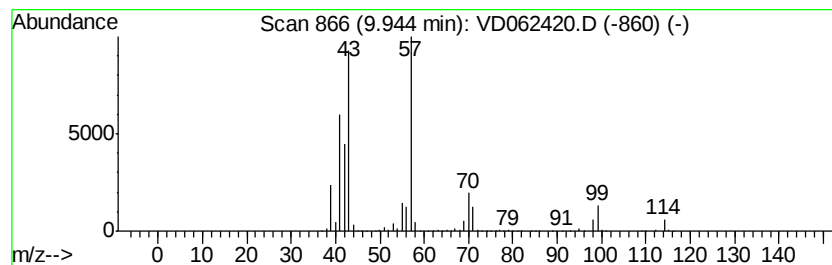
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

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

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

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 9.94 | 136.66 ug/l | 49790500 | 1,4-Difluorobenzene | 8.22 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 2-methyl-        | 114 | C8H18   | 000592-27-8 | 91   |
| 2    |    | Hexane, 2,5-dimethyl-     | 114 | C8H18   | 000592-13-2 | 47   |
| 3    |    | Heptane, 2,3,6-trimethyl- | 142 | C10H22  | 004032-93-3 | 43   |
| 4    |    | 2-Piperidinone            | 99  | C5H9NO  | 000675-20-7 | 40   |
| 5    |    | Hexane, 4-ethyl-2-methyl- | 128 | C9H20   | 003074-75-7 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

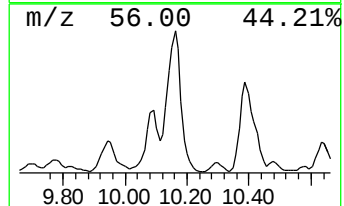
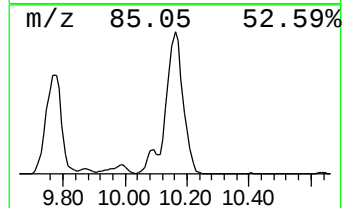
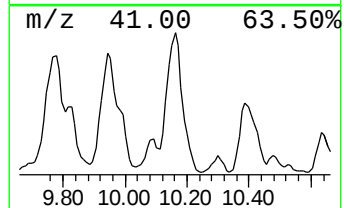
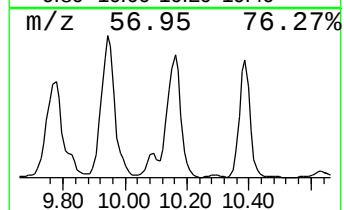
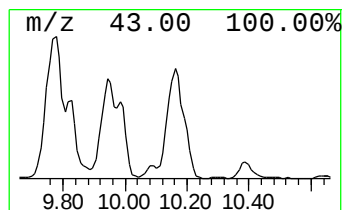
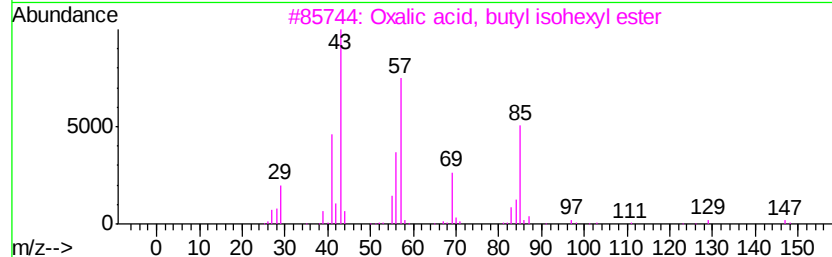
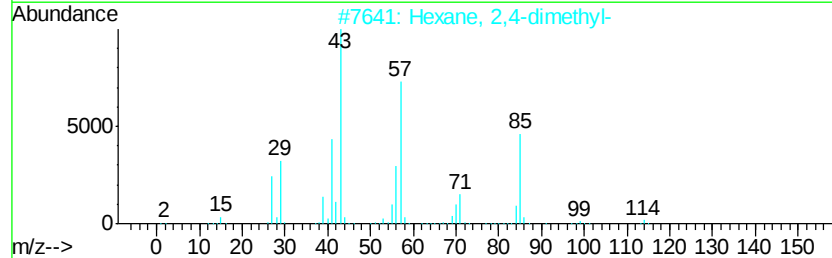
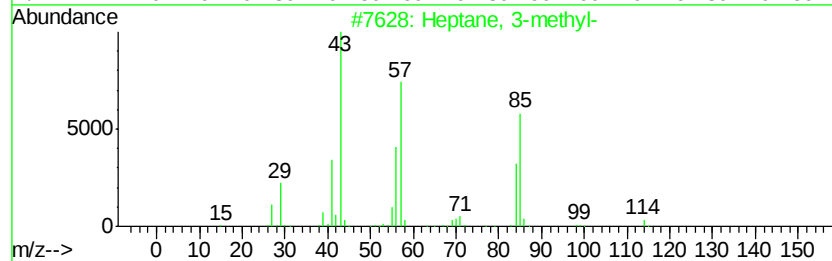
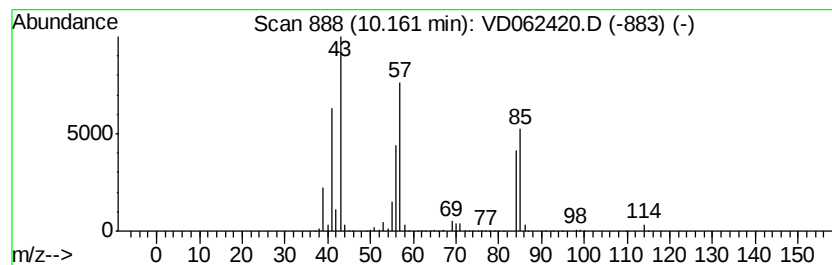
Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Heptane, 3-methyl- Concentration Rank 5

| R.T.      | EstConc                           | Area     | Relative to ISTD    | R.T.         |      |
|-----------|-----------------------------------|----------|---------------------|--------------|------|
| 10.16     | 137.11 ug/l                       | 49955400 | 1,4-Difluorobenzene | 8.22         |      |
| Hit# of 5 | Tentative ID                      | MW       | MolForm             | CAS#         | Qual |
| 1         | Heptane, 3-methyl-                | 114      | C8H18               | 000589-81-1  | 91   |
| 2         | Hexane, 2,4-dimethyl-             | 114      | C8H18               | 000589-43-5  | 68   |
| 3         | Oxalic acid, butyl isohexyl ester | 230      | C12H22O4            | 1000309-32-7 | 64   |
| 4         | Hexane, 1-(hexyloxy)-2-methyl-    | 200      | C13H28O             | 074421-17-3  | 59   |
| 5         | Hexane, 3-ethyl-                  | 114      | C8H18               | 000619-99-8  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

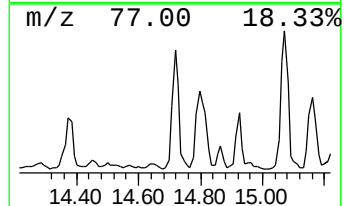
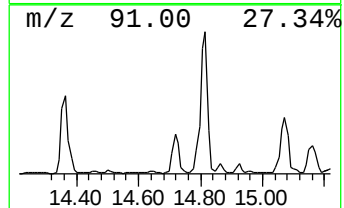
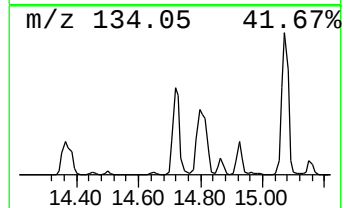
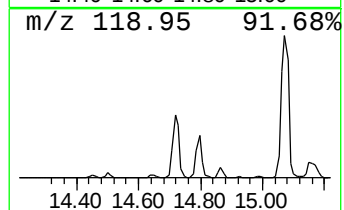
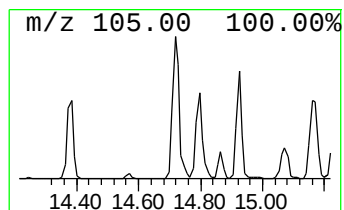
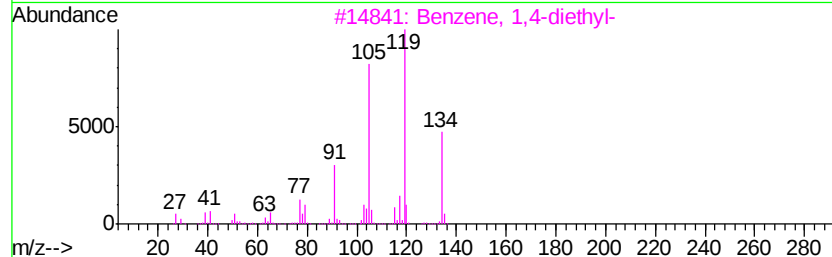
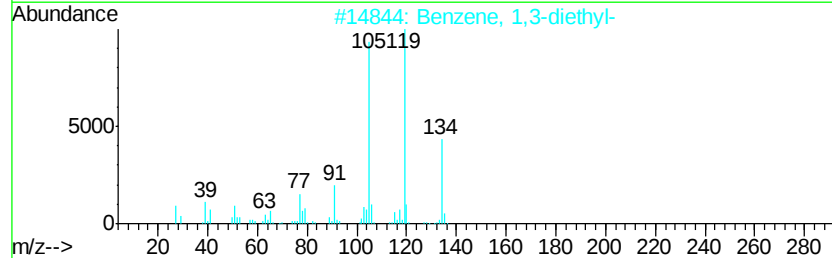
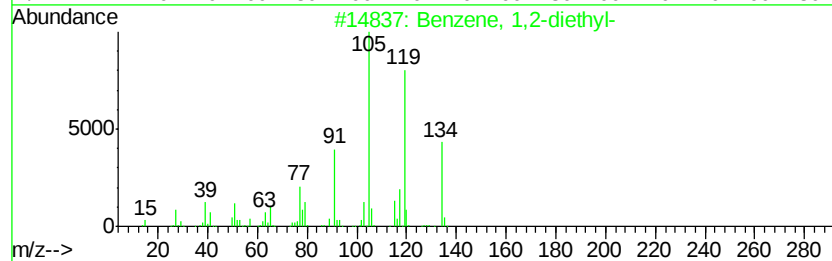
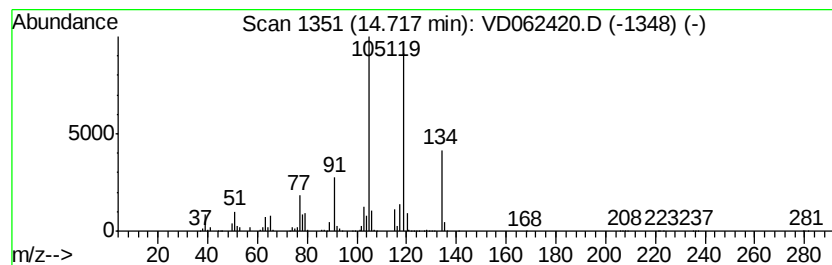
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1,2-diethyl- Concentration Rank 7

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.72 | 92.87 ug/l | 29392100 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 96   |
| 2    |    | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 95   |
| 3    |    | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 94   |
| 4    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 91   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

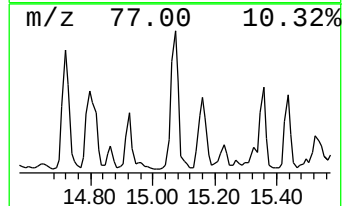
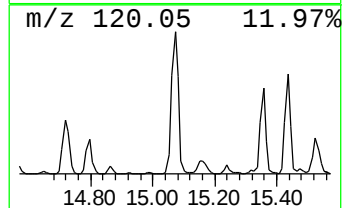
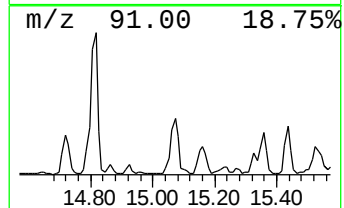
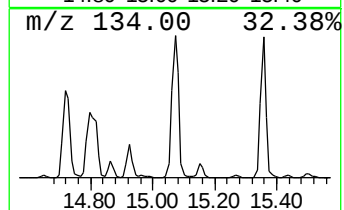
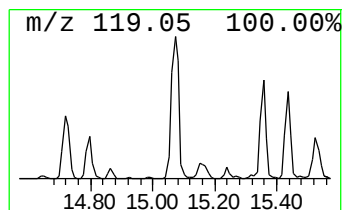
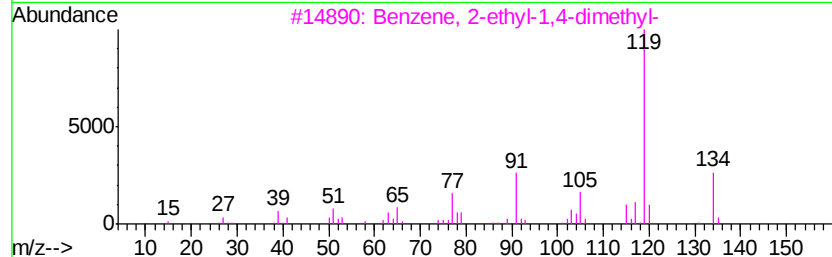
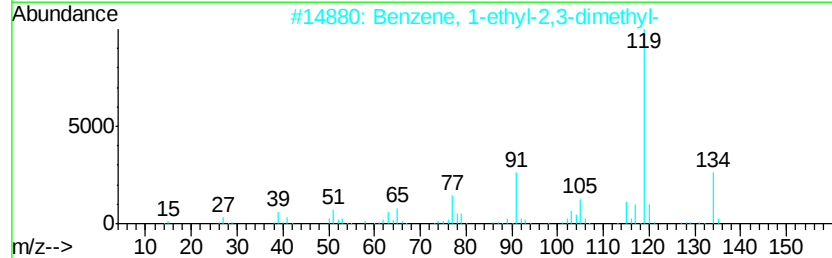
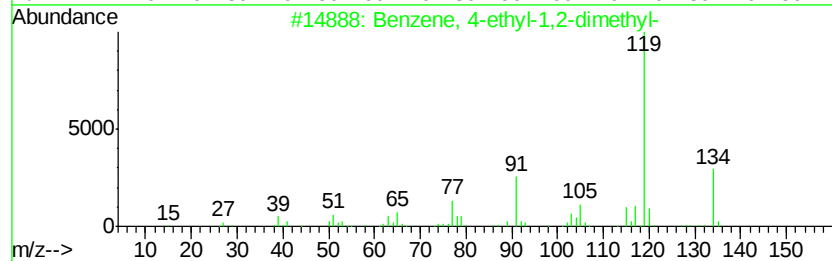
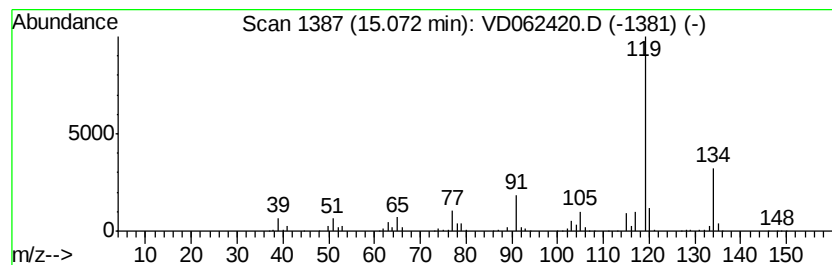
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 3

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 15.07 | 145.65 ug/l | 46096200 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 96   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 4    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 94   |
| 5    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

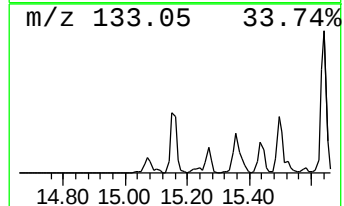
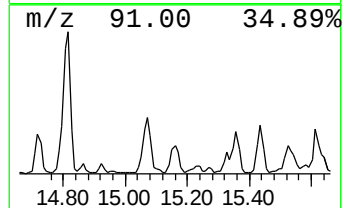
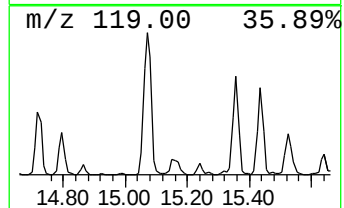
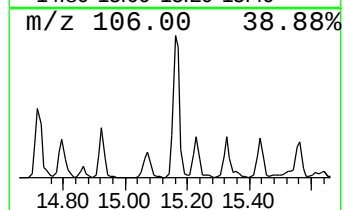
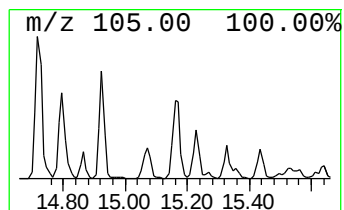
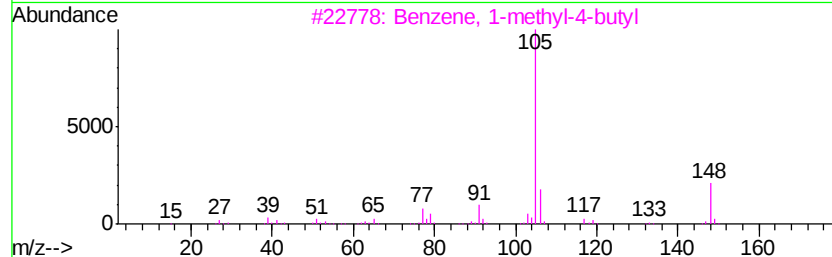
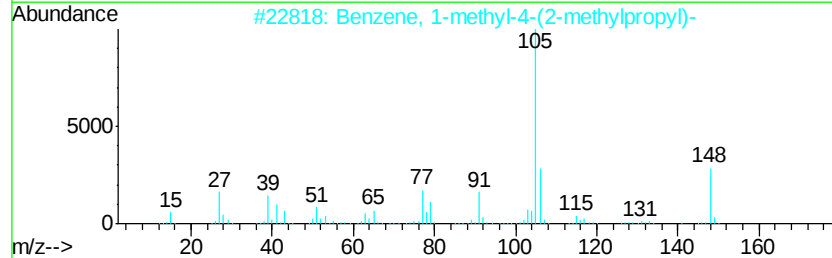
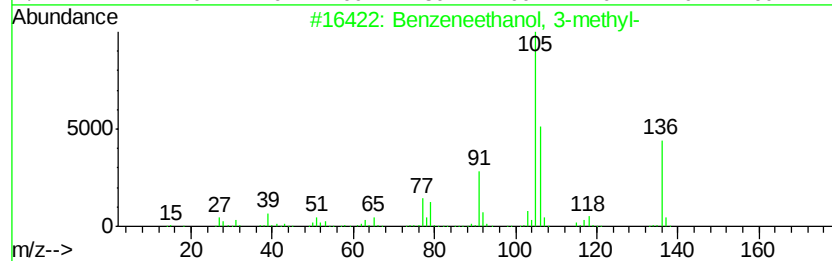
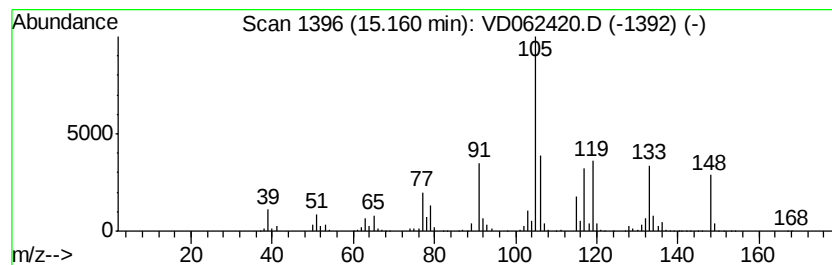
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzeneethanol, 3-methyl- Concentration Rank 9

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 15.16 | 76.15 ug/l | 24099100 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzeneethanol, 3-methyl-           | 136 | C9H12O  | 001875-89-4  | 55   |
| 2    |    | Benzene, 1-methyl-4-(2-methylpro... | 148 | C11H16  | 005161-04-6  | 52   |
| 3    |    | Benzene, 1-methyl-4-butyl           | 148 | C11H16  | 001595-05-7  | 43   |
| 4    |    | 4-Methylphenyl acetone              | 148 | C10H12O | 002096-86-8  | 43   |
| 5    |    | Spiro[4.4]nona-1,3-diene, 1,2-di... | 148 | C11H16  | 1000163-57-6 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260

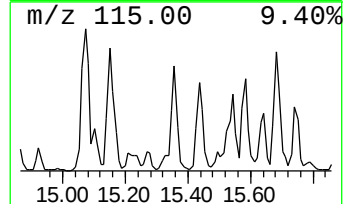
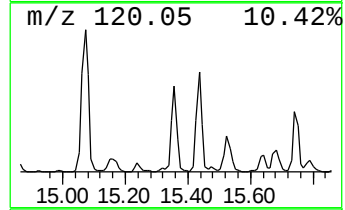
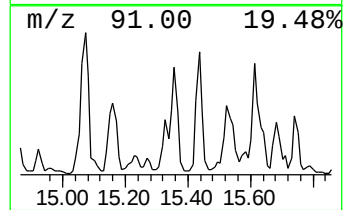
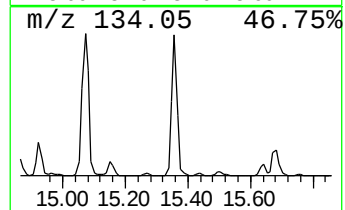
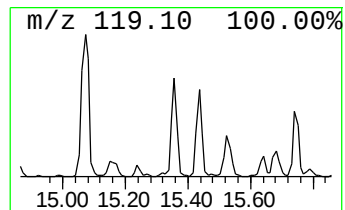
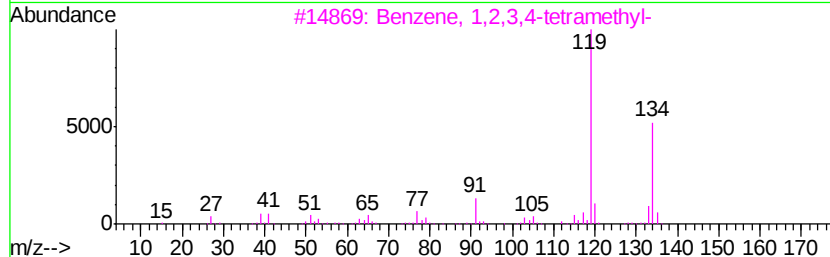
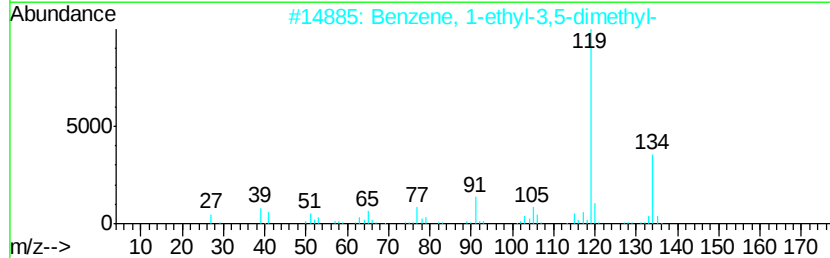
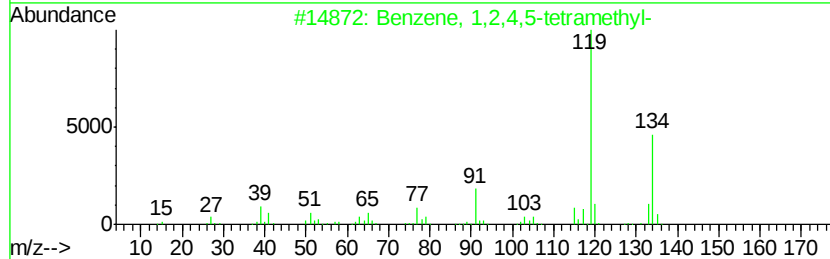
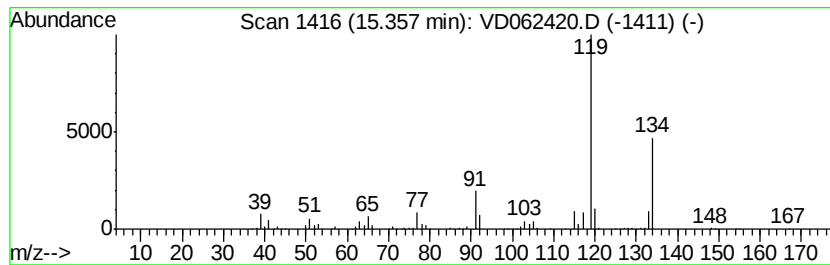
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 8

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 15.36 | 89.51 ug/l | 28327500 | 1,4-Dichlorobenzene-d4 | 14.53 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 95   |
| 2    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 91   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 91   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 91   |
| 5    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD051619\  
Data File : VD062420.D  
Acq On : 16 May 2019 16:28  
Operator : FY/SY  
Sample : K2823-06  
Misc : 5.42g/5mL/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
12-B2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.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 |
| Hexane, 2,2-dimet... | 7.74  | 176.8   | ug/l  | 64434300 | 2                     | 8.22  | 18217100 | 50.0 |
| Heptane              | 8.05  | 75.5    | ug/l  | 27511900 | 2                     | 8.22  | 18217100 | 50.0 |
| Pentane, 2,3,4-tr... | 9.58  | 141.9   | ug/l  | 51705300 | 2                     | 8.22  | 18217100 | 50.0 |
| Pentane, 2,3,3-tr... | 9.78  | 176.9   | ug/l  | 64439100 | 2                     | 8.22  | 18217100 | 50.0 |
| Heptane, 2-methyl-   | 9.94  | 136.7   | ug/l  | 49790500 | 2                     | 8.22  | 18217100 | 50.0 |
| Heptane, 3-methyl-   | 10.16 | 137.1   | ug/l  | 49955400 | 2                     | 8.22  | 18217100 | 50.0 |
| Benzene, 1,2-diet... | 14.72 | 92.9    | ug/l  | 29392100 | 4                     | 14.53 | 15824400 | 50.0 |
| Benzene, 4-ethyl-... | 15.07 | 145.7   | ug/l  | 46096200 | 4                     | 14.53 | 15824400 | 50.0 |
| Benzeneethanol, 3... | 15.16 | 76.2    | ug/l  | 24099100 | 4                     | 14.53 | 15824400 | 50.0 |
| Benzene, 1,2,4,5-... | 15.36 | 89.5    | ug/l  | 28327500 | 4                     | 14.53 | 15824400 | 50.0 |