

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
 Data File : VD073193.D  
 Acq On : 20 May 2022 19:51  
 Operator : VA/SY  
 Sample : N2935-01  
 Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OK-03-051822

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\82D051922S.M  
 Title : SW846 8260

Signal : TIC: VD073193.D\data.ms

| 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         | 4.962       | 506           | 517         | 527          | rBV2     | 18488          | 49882         | 2.20%           | 0.269%        |
| 2         | 5.985       | 683           | 691         | 700          | rBV5     | 8447           | 23625         | 1.04%           | 0.127%        |
| 3         | 7.185       | 885           | 895         | 906          | rBV      | 29326          | 79087         | 3.48%           | 0.426%        |
| 4         | 7.908       | 1008          | 1018        | 1023         | rBV2     | 255562         | 602057        | 26.52%          | 3.242%        |
| 5         | 7.973       | 1023          | 1029        | 1041         | rVB      | 441443         | 982991        | 43.29%          | 5.294%        |
| 6         | 8.320       | 1072          | 1088        | 1098         | rBV3     | 199084         | 524052        | 23.08%          | 2.822%        |
| 7         | 8.855       | 1170          | 1179        | 1195         | rBV      | 632683         | 1300661       | 57.28%          | 7.005%        |
| 8         | 9.620       | 1299          | 1309        | 1316         | rVB8     | 8446           | 24820         | 1.09%           | 0.134%        |
| 9         | 9.761       | 1326          | 1333        | 1343         | rVB3     | 24869          | 50252         | 2.21%           | 0.271%        |
| 10        | 9.902       | 1350          | 1357        | 1362         | rBV4     | 18554          | 36966         | 1.63%           | 0.199%        |
| 11        | 9.955       | 1362          | 1366        | 1372         | rVB4     | 20300          | 37443         | 1.65%           | 0.202%        |
| 12        | 10.091      | 1381          | 1389        | 1395         | rBV3     | 87614          | 183661        | 8.09%           | 0.989%        |
| 13        | 10.220      | 1404          | 1411        | 1416         | rBV2     | 104638         | 221997        | 9.78%           | 1.196%        |
| 14        | 10.332      | 1423          | 1430        | 1451         | rVB      | 1139526        | 2270608       | 100.00%         | 12.228%       |
| 15        | 10.497      | 1451          | 1458        | 1468         | rVB2     | 243059         | 487373        | 21.46%          | 2.625%        |
| 16        | 10.626      | 1471          | 1480        | 1483         | rBV      | 247977         | 483637        | 21.30%          | 2.605%        |
| 17        | 10.673      | 1483          | 1488        | 1494         | rVB      | 479440         | 836852        | 36.86%          | 4.507%        |
| 18        | 10.773      | 1499          | 1505        | 1508         | rVV3     | 129940         | 279861        | 12.33%          | 1.507%        |
| 19        | 10.814      | 1508          | 1512        | 1516         | rVV2     | 179323         | 329584        | 14.52%          | 1.775%        |
| 20        | 10.855      | 1516          | 1519        | 1523         | rVV      | 82589          | 132547        | 5.84%           | 0.714%        |
| 21        | 10.908      | 1523          | 1528        | 1531         | rVV2     | 113822         | 230445        | 10.15%          | 1.241%        |
| 22        | 10.944      | 1531          | 1534        | 1543         | rVB2     | 139128         | 253326        | 11.16%          | 1.364%        |
| 23        | 11.073      | 1543          | 1556        | 1560         | rBV3     | 232896         | 575928        | 25.36%          | 3.102%        |
| 24        | 11.120      | 1560          | 1564        | 1566         | rVV2     | 163270         | 272790        | 12.01%          | 1.469%        |
| 25        | 11.149      | 1566          | 1569        | 1576         | rVV3     | 164211         | 292522        | 12.88%          | 1.575%        |
| 26        | 11.238      | 1576          | 1584        | 1589         | rVV      | 954922         | 1711818       | 75.39%          | 9.219%        |
| 27        | 11.291      | 1589          | 1593        | 1597         | rVV      | 184909         | 326993        | 14.40%          | 1.761%        |
| 28        | 11.332      | 1597          | 1600        | 1606         | rVV4     | 91717          | 187070        | 8.24%           | 1.007%        |
| 29        | 11.385      | 1606          | 1609        | 1613         | rVV2     | 41283          | 63450         | 2.79%           | 0.342%        |
| 30        | 11.444      | 1613          | 1619        | 1628         | rVB2     | 225824         | 439880        | 19.37%          | 2.369%        |
| 31        | 11.632      | 1642          | 1651        | 1661         | rBV      | 1040183        | 1851130       | 81.53%          | 9.969%        |
| 32        | 11.767      | 1669          | 1674        | 1680         | rVB3     | 67637          | 114468        | 5.04%           | 0.616%        |
| 33        | 11.820      | 1680          | 1683        | 1687         | rBV5     | 21130          | 37458         | 1.65%           | 0.202%        |
| 34        | 11.896      | 1687          | 1696        | 1705         | rVB5     | 79563          | 233266        | 10.27%          | 1.256%        |
| 35        | 11.985      | 1705          | 1711        | 1715         | rBV7     | 13634          | 28118         | 1.24%           | 0.151%        |
| 36        | 12.044      | 1715          | 1721        | 1730         | rVB3     | 45012          | 86318         | 3.80%           | 0.465%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

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\82D051922S.M  
Title : SW846 8260

|    |        |      |      |      |       |        |         |        |        |
|----|--------|------|------|------|-------|--------|---------|--------|--------|
| 37 | 12.138 | 1730 | 1737 | 1744 | rBV5  | 31378  | 79750   | 3.51%  | 0.429% |
| 38 | 12.349 | 1761 | 1773 | 1782 | rVB10 | 15462  | 47039   | 2.07%  | 0.253% |
| 39 | 12.620 | 1811 | 1819 | 1827 | rVB   | 756174 | 1242845 | 54.74% | 6.693% |
| 40 | 12.938 | 1867 | 1873 | 1882 | rBV3  | 31214  | 54167   | 2.39%  | 0.292% |
| 41 | 13.561 | 1972 | 1979 | 1987 | rBV   | 908523 | 1501490 | 66.13% | 8.086% |

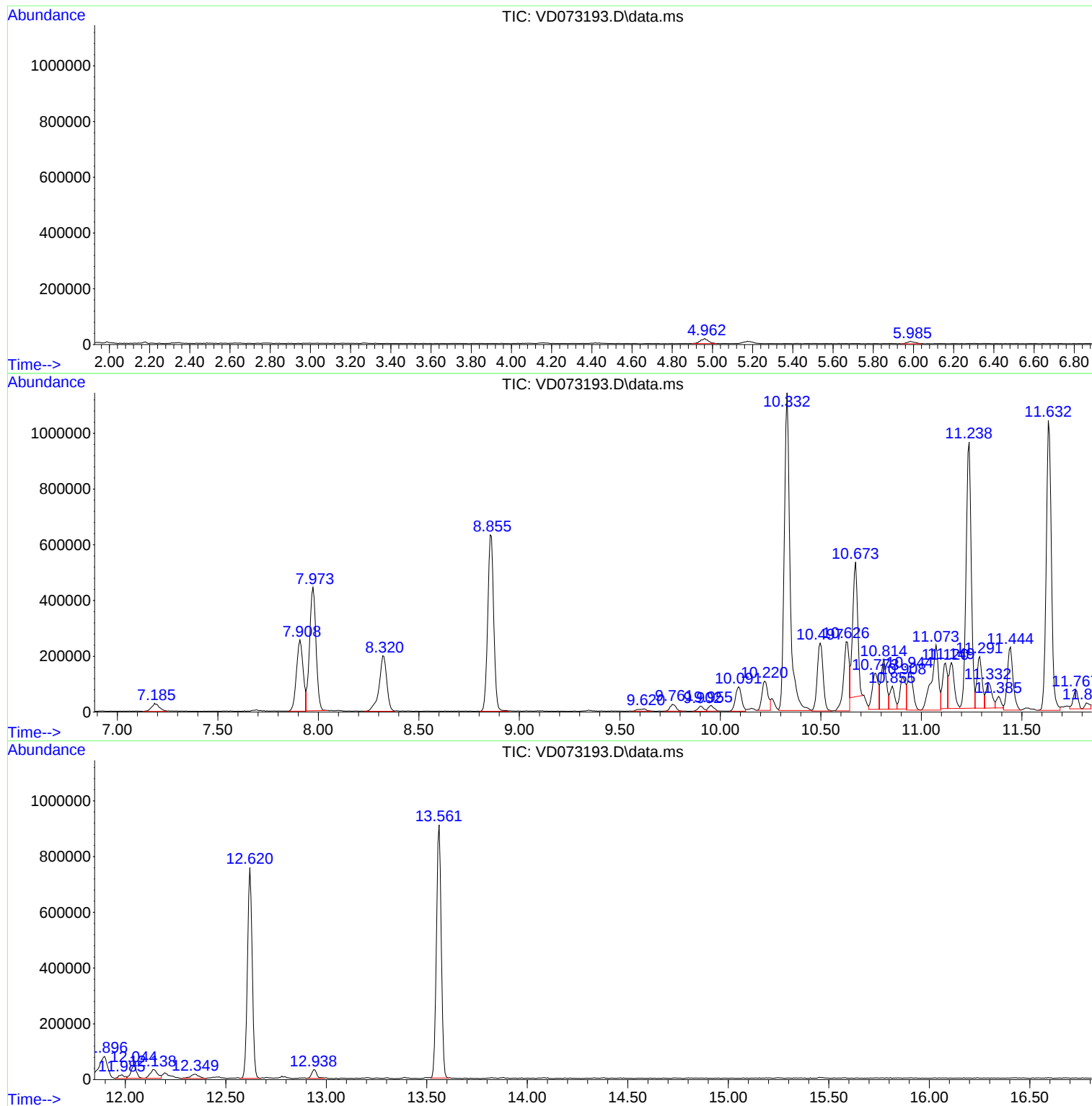
Sum of corrected areas: 18568227

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

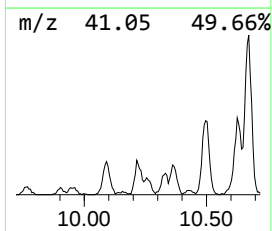
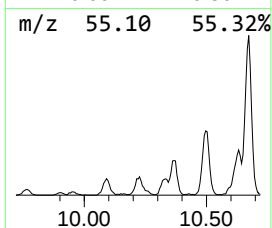
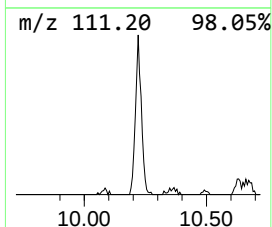
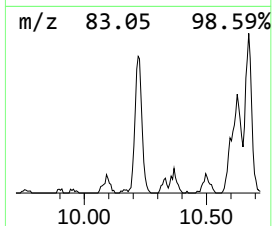
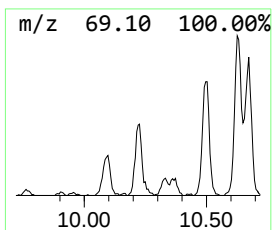
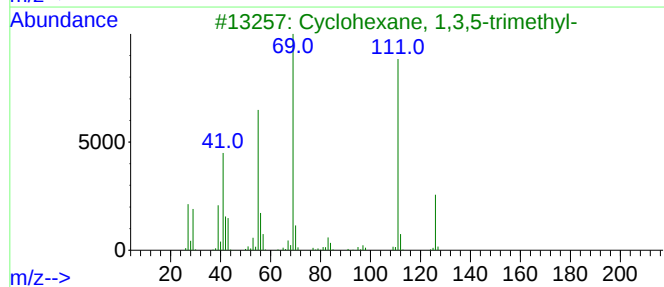
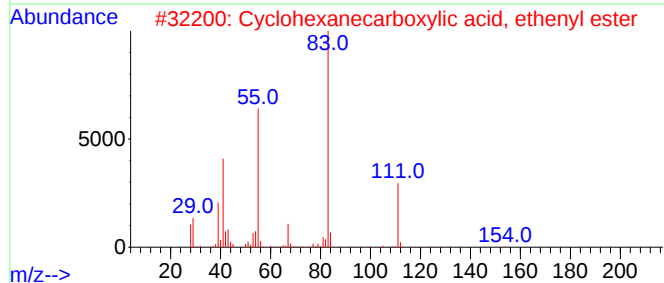
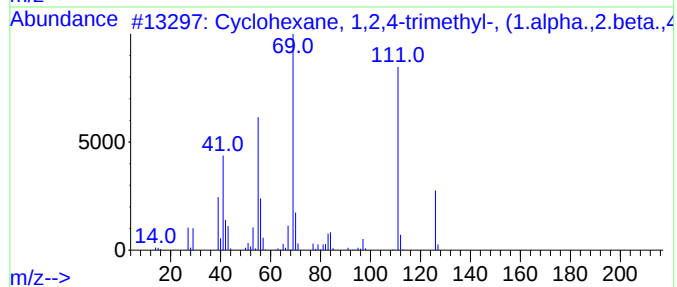
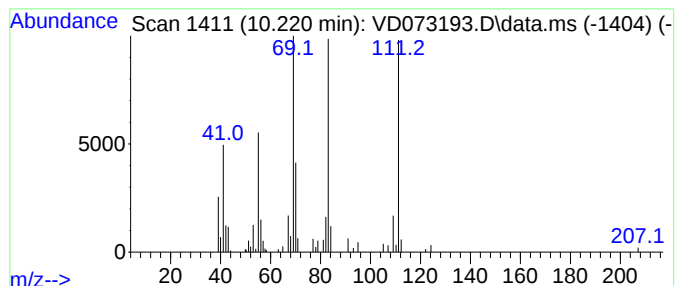
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown10.220 Concentration Rank 9

| R.T.   | EstConc   | Area   | Relative to ISTD    | R.T.  |
|--------|-----------|--------|---------------------|-------|
| 10.220 | 8.53 ug/l | 221997 | 1,4-Difluorobenzene | 8.861 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 47   |
| 2    |    |   | Cyclohexanecarboxylic acid, ethe... | 154 | C9H14O2 | 004840-76-0 | 43   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 38   |
| 4    |    |   | Cyclopentane, 1,1,3,4-tetramethy... | 126 | C9H18   | 020309-77-7 | 38   |
| 5    |    |   | 1-Hexene, 3,3-dimethyl-             | 112 | C8H16   | 003404-77-1 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

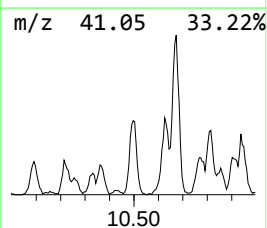
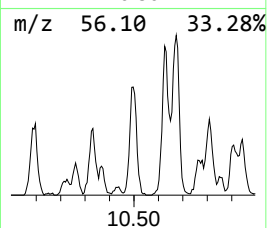
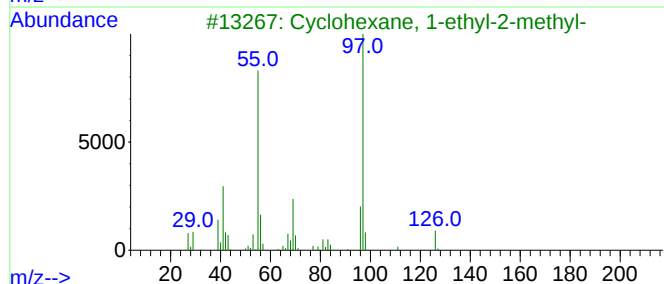
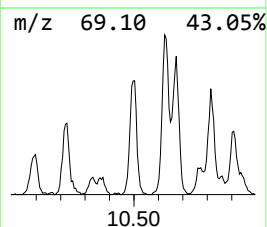
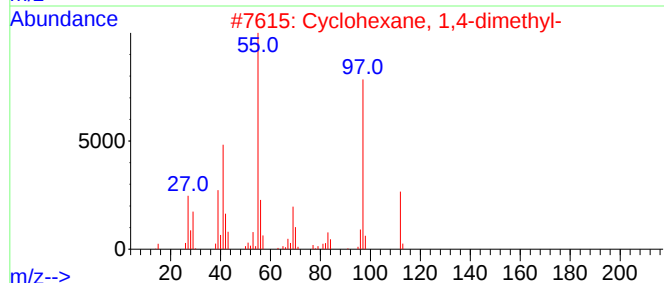
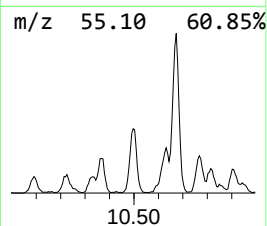
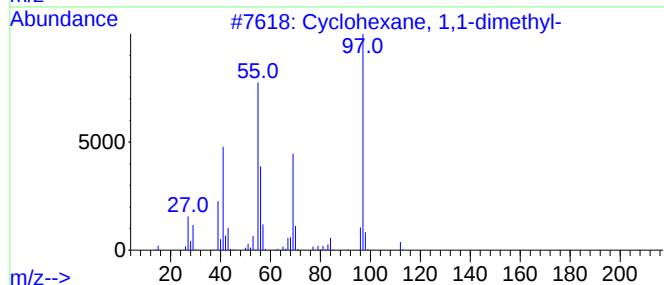
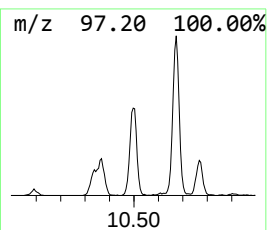
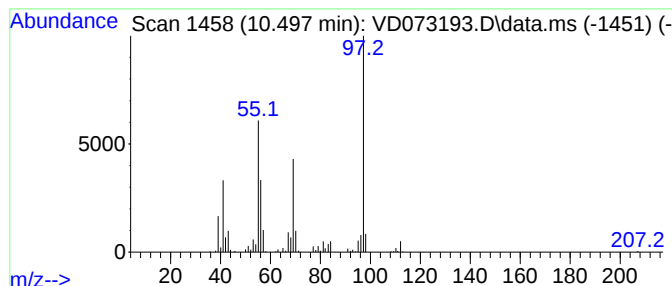
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 10.496 | 13.16 ug/l | 487373 | Chlorobenzene-d5 | 11.632 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16     | 000590-66-9  | 94   |
| 2    |    |   | Cyclohexane, 1,4-dimethyl-          | 112 | C8H16     | 000589-90-2  | 64   |
| 3    |    |   | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18     | 003728-54-9  | 64   |
| 4    |    |   | Succinic acid, 2-methylpent-3-yl... | 298 | C17H30O4  | 1000391-41-0 | 59   |
| 5    |    |   | Sulfurous acid, butyl cyclohexyl... | 234 | C11H22O3S | 1000309-21-4 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

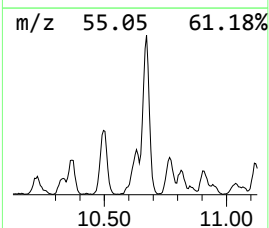
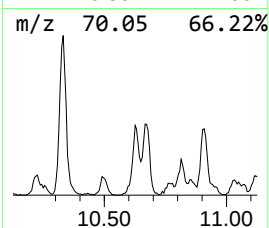
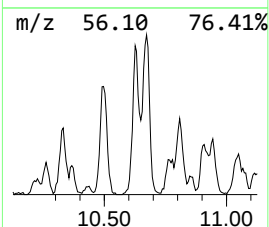
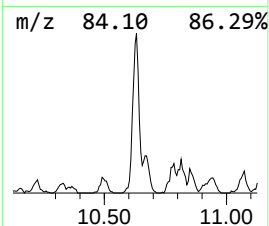
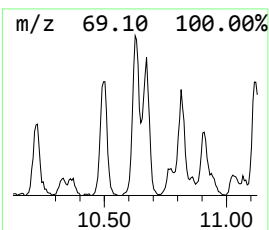
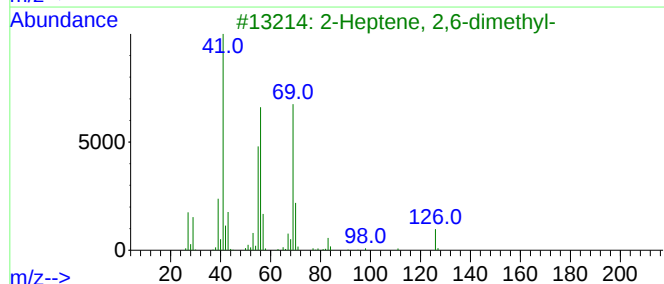
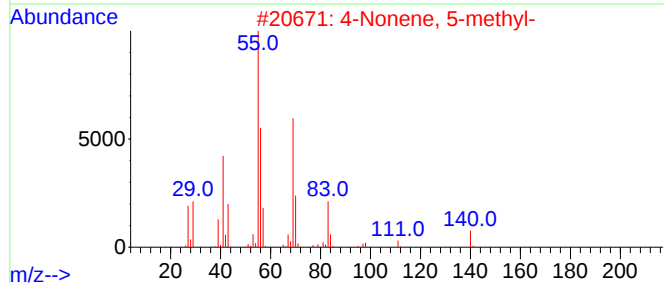
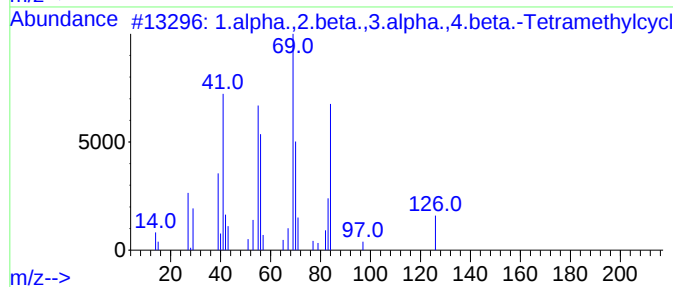
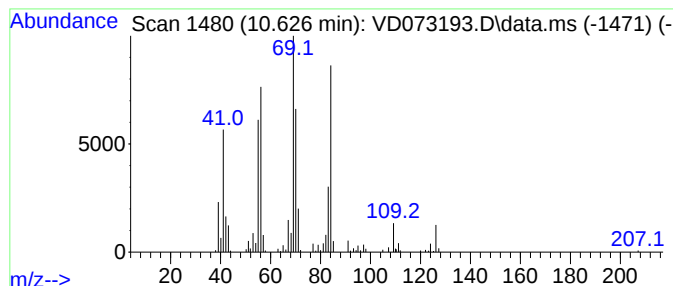
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 3 1.alpha.,2.beta.,3.alpha.,4... Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD |         |             | R.T.   |
|-----------|-------------------------------------|--------|------------------|---------|-------------|--------|
| 10.626    | 13.06 ug/l                          | 483637 | Chlorobenzene-d5 |         |             | 11.632 |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm | CAS#        | Qual   |
| 1         | 1.alpha.,2.beta.,3.alpha.,4.beta... |        | 126              | C9H18   | 002532-67-4 | 72     |
| 2         | 4-Nonene, 5-methyl-                 |        | 140              | C10H20  | 015918-07-7 | 47     |
| 3         | 2-Heptene, 2,6-dimethyl-            |        | 126              | C9H18   | 005557-98-2 | 46     |
| 4         | 2-Octene, 2,6-dimethyl-             |        | 140              | C10H20  | 004057-42-5 | 43     |
| 5         | Cyclohexane                         |        | 84               | C6H12   | 000110-82-7 | 43     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

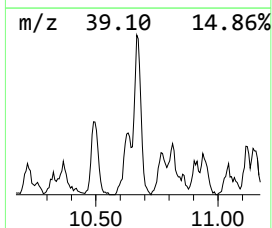
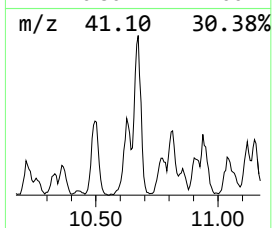
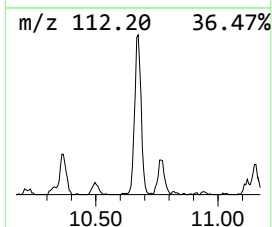
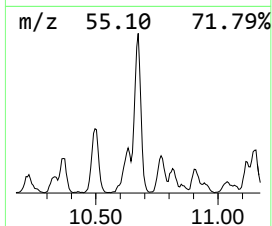
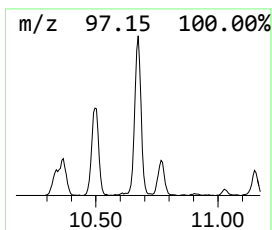
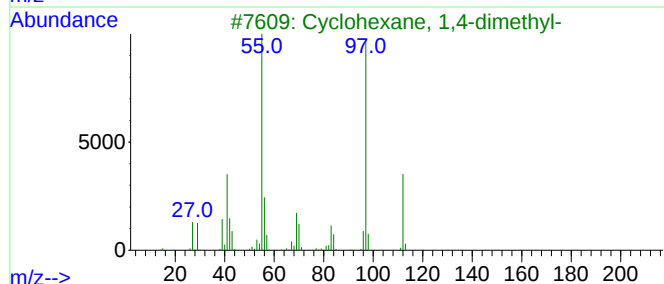
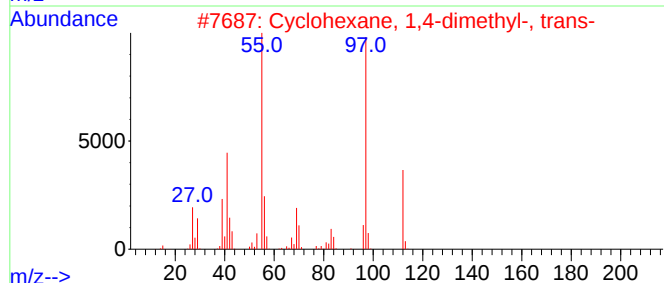
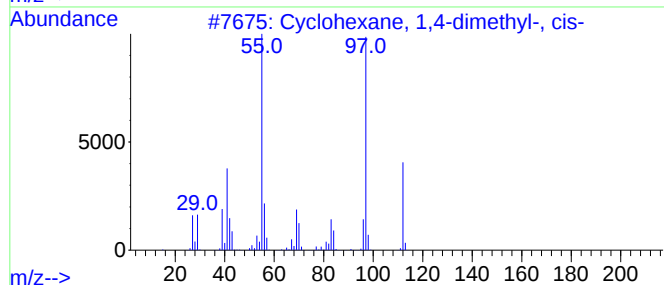
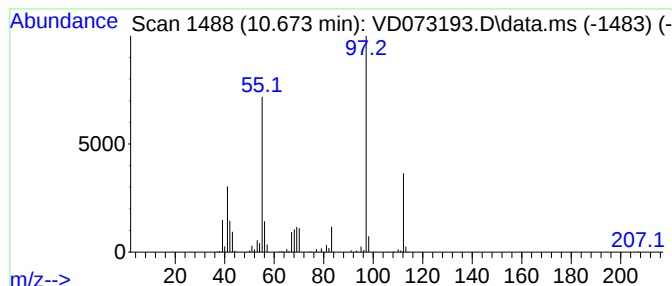
\*\*\*\*\*

Peak Number 4 Cyclohexane, 1,4-dimethyl-,... Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 10.673 | 22.60 ug/l | 836852 | Chlorobenzene-d5 | 11.632 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16    | 000624-29-3  | 87   |
| 2    |    |   | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16    | 002207-04-7  | 87   |
| 3    |    |   | Cyclohexane, 1,4-dimethyl-          | 112 | C8H16    | 000589-90-2  | 86   |
| 4    |    |   | Cyclohexane, 1,3-dimethyl-, cis-    | 112 | C8H16    | 000638-04-0  | 80   |
| 5    |    |   | Oxalic acid, butyl cyclohexylmet... | 242 | C13H22O4 | 1000309-68-2 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

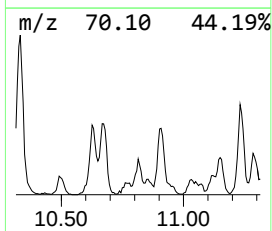
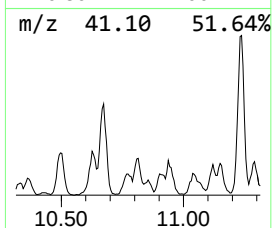
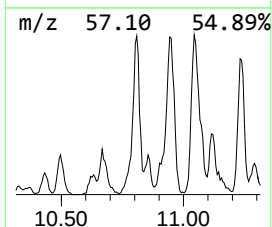
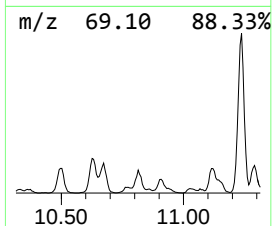
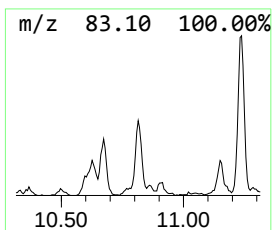
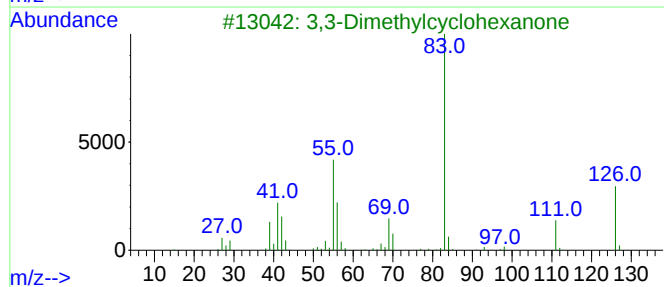
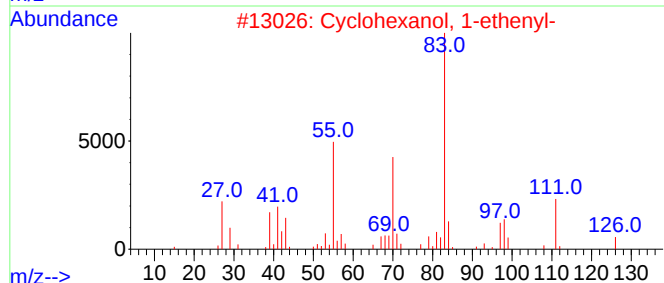
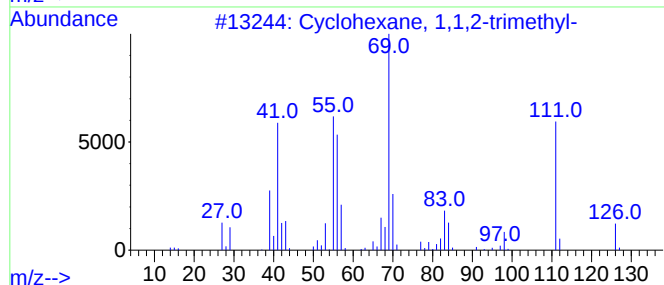
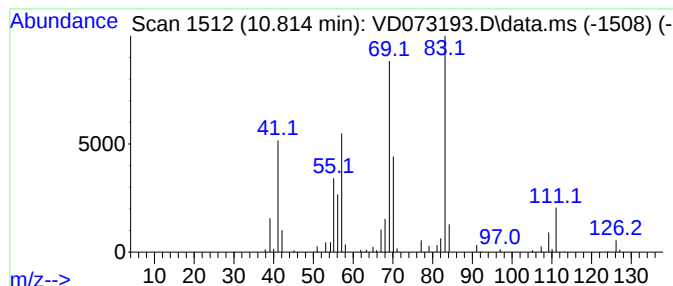
\*\*\*\*\*

Peak Number 5 unknown10.814 Concentration Rank 7

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 10.814 | 8.90 ug/l | 329584 | Chlorobenzene-d5 | 11.632 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,2-trimethyl-  | 126 | C9H18   | 007094-26-0 | 47   |
| 2    |    |   | Cyclohexanol, 1-ethenyl-       | 126 | C8H14O  | 001940-19-8 | 38   |
| 3    |    |   | 3,3-Dimethylcyclohexanone      | 126 | C8H14O  | 002979-19-3 | 35   |
| 4    |    |   | Heptane, 2-methyl-3-methylene- | 126 | C9H18   | 062187-11-5 | 35   |
| 5    |    |   | trans-2-Methyl-3-octene        | 126 | C9H18   | 052937-36-7 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

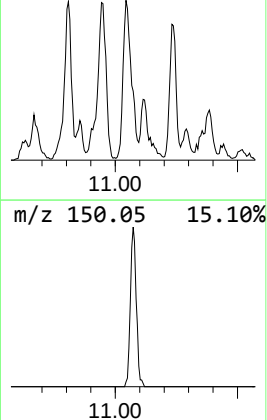
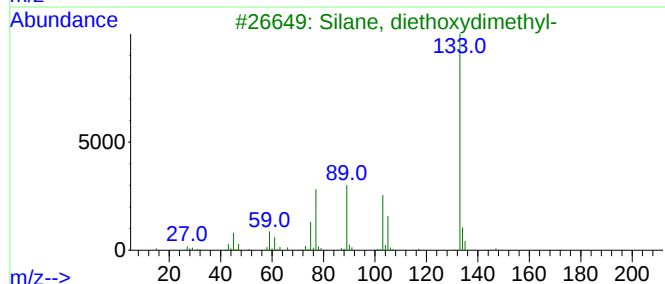
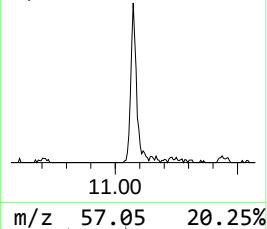
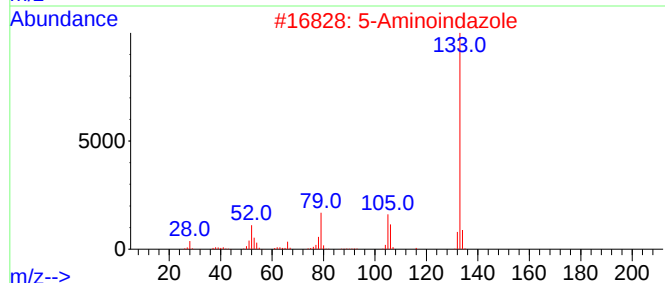
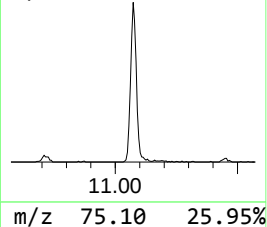
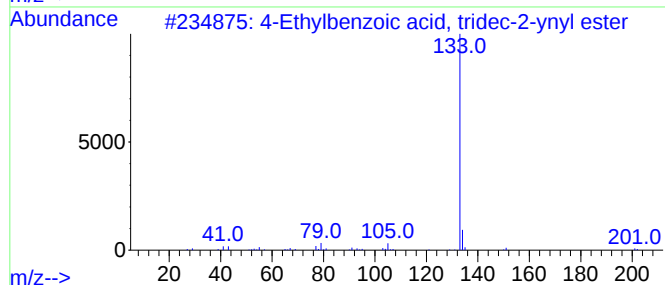
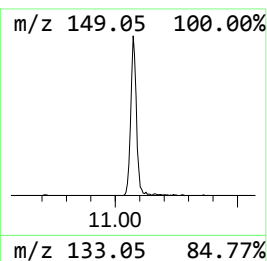
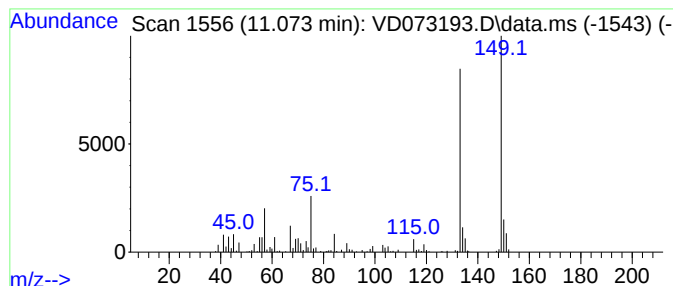
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 unknown11.073 Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 11.073 | 15.56 ug/l | 575928 | Chlorobenzene-d5 | 11.632 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 4-Ethylbenzoic acid, tridec-2-yn... | 328 | C22H32O2  | 1000292-54-9 | 27   |
| 2    |    |   | 5-Aminoindazole                     | 133 | C7H7N3    | 019335-11-6  | 27   |
| 3    |    |   | Silane, diethoxydimethyl-           | 148 | C6H16O2Si | 000078-62-6  | 25   |
| 4    |    |   | 4-Ethylbenzoic acid, 2-methylbut... | 220 | C14H20O2  | 1000331-30-8 | 25   |
| 5    |    |   | 4-Ethylbenzoic acid, 2-methoxyet... | 208 | C12H16O3  | 1000331-30-6 | 17   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

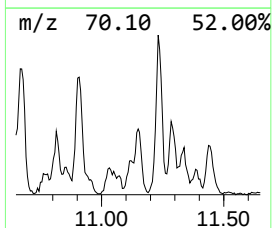
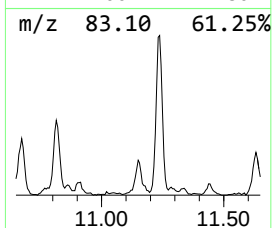
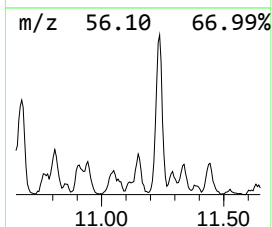
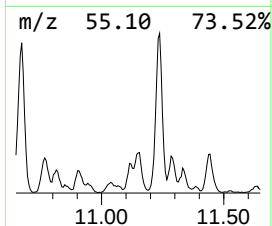
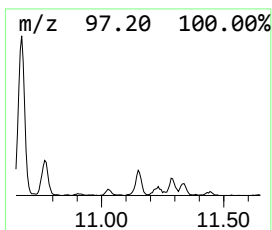
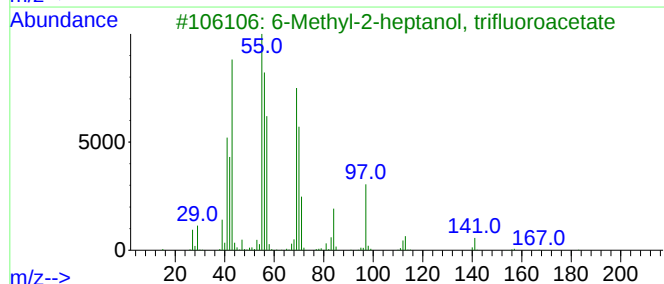
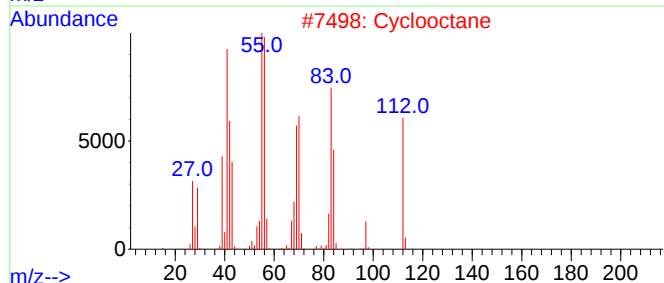
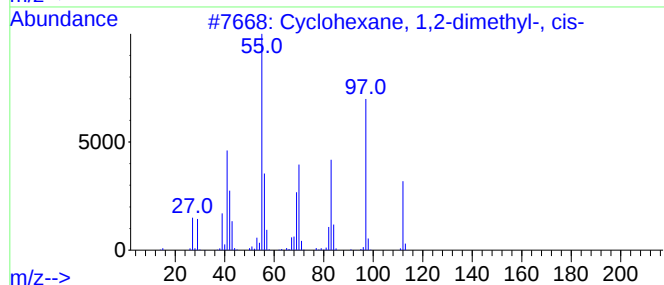
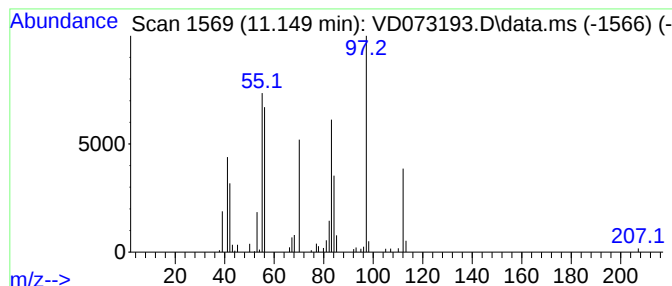
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 7 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 10

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 11.149    | 7.90 ug/l                           | 292522 | Chlorobenzene-d5 | 11.632       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cyclohexane, 1,2-dimethyl-, cis-    | 112    | C8H16            | 002207-01-4  | 83   |
| 2         | Cyclooctane                         | 112    | C8H16            | 000292-64-8  | 76   |
| 3         | 6-Methyl-2-heptanol, trifluoroac... | 226    | C10H17F3O2       | 1010365-05-8 | 59   |
| 4         | Cyclohexane, 1,2-dimethyl- (cis/... | 112    | C8H16            | 000583-57-3  | 53   |
| 5         | Acetaldehyde, 2-butenylhydrazone    | 112    | C6H12N2          | 075268-07-4  | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

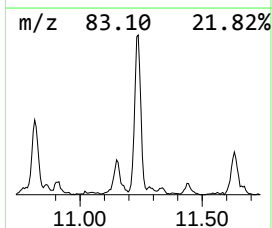
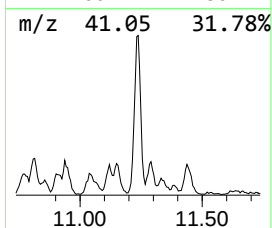
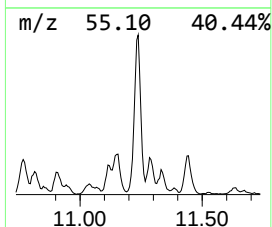
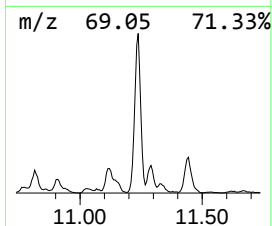
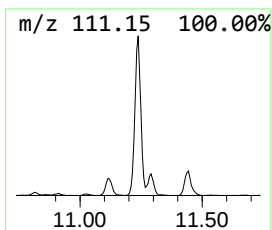
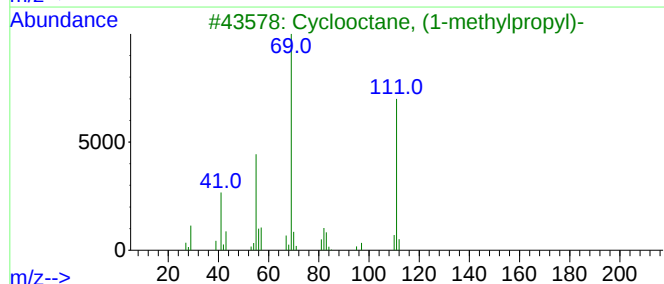
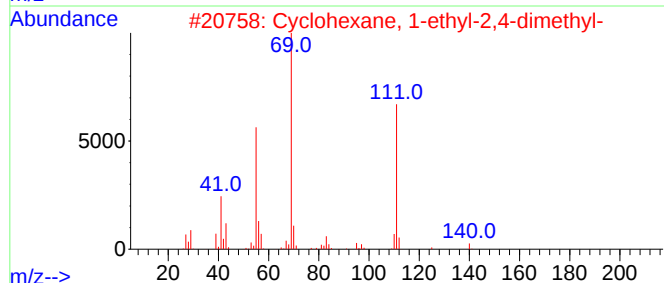
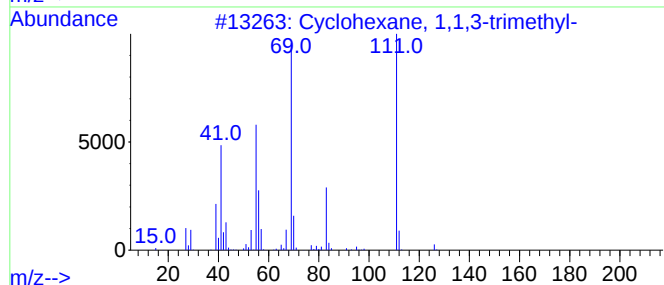
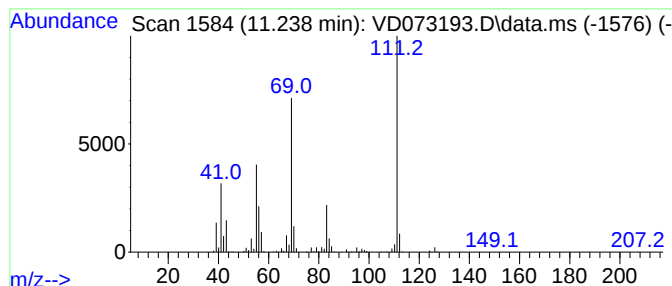
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 8 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 11.238 | 46.24 ug/l | 1711820 | Chlorobenzene-d5 | 11.632 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-      | 126 | C9H18   | 003073-66-3 | 95   |
| 2    |    |   | Cyclohexane, 1-ethyl-2,4-dimethyl- | 140 | C10H20  | 061142-69-6 | 64   |
| 3    |    |   | Cyclooctane, (1-methylpropyl)-     | 168 | C12H24  | 016538-89-9 | 59   |
| 4    |    |   | Cyclohexane, 1,3,5-trimethyl-      | 126 | C9H18   | 001839-63-0 | 53   |
| 5    |    |   | Isocytosine                        | 111 | C4H5N3O | 000108-53-2 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

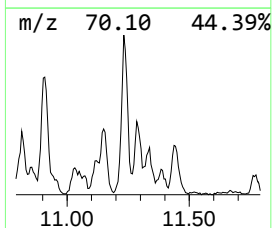
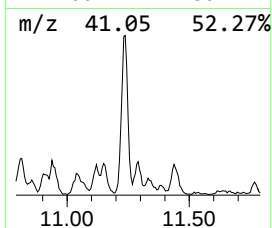
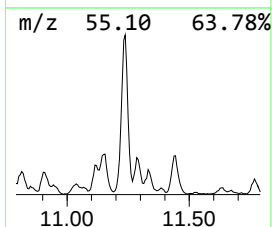
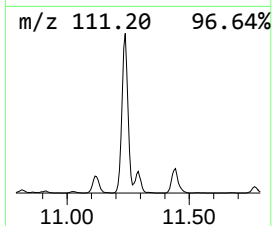
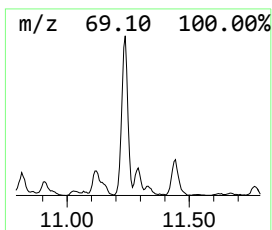
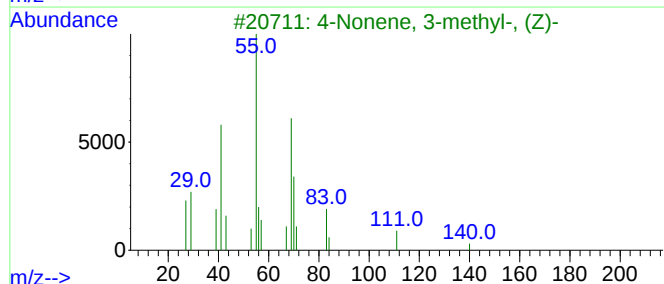
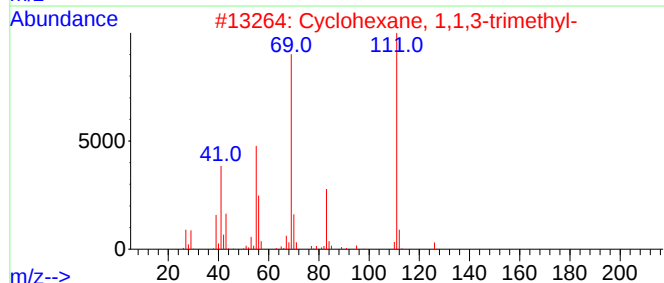
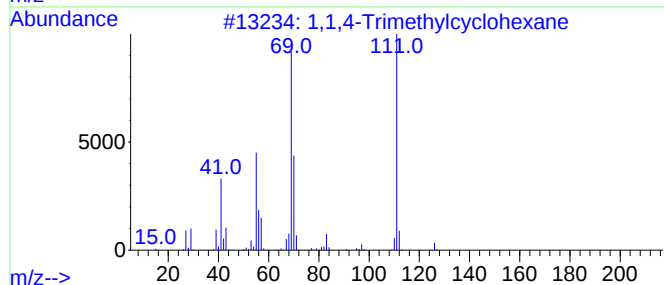
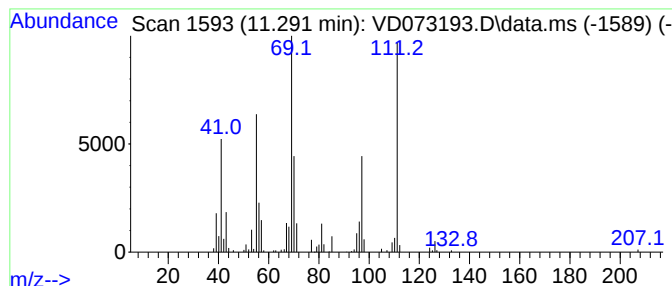
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1,1,4-Trimethylcyclohexane Concentration Rank 8

| R.T.      | EstConc                       | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------------|--------|------------------|---------|-------------|------|
| 11.291    | 8.83 ug/l                     | 326993 | Chlorobenzene-d5 |         | 11.632      |      |
| Hit# of 5 | Tentative ID                  |        | MW               | MolForm | CAS#        | Qual |
| 1         | 1,1,4-Trimethylcyclohexane    |        | 126              | C9H18   | 007094-27-1 | 81   |
| 2         | Cyclohexane, 1,1,3-trimethyl- |        | 126              | C9H18   | 003073-66-3 | 50   |
| 3         | 4-Nonene, 3-methyl-, (Z)-     |        | 140              | C10H20  | 063830-69-3 | 43   |
| 4         | Cyclohexane, 1,2,3-trimethyl- |        | 126              | C9H18   | 001678-97-3 | 35   |
| 5         | 3-Methyl-2-hexene             |        | 98               | C7H14   | 017618-77-8 | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

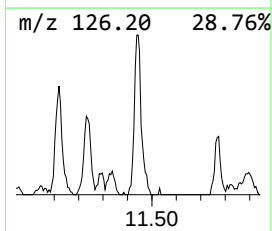
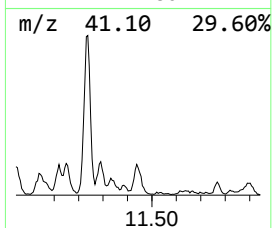
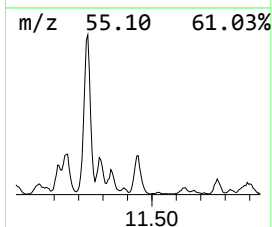
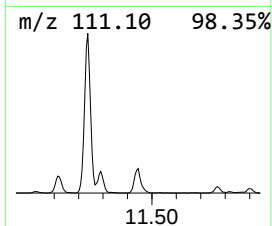
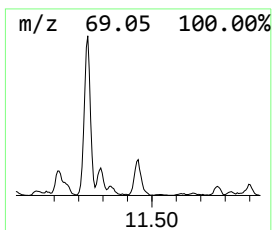
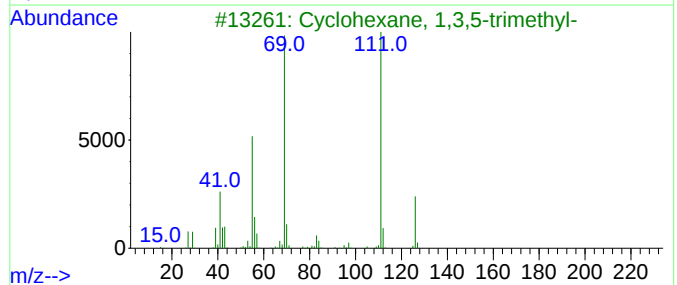
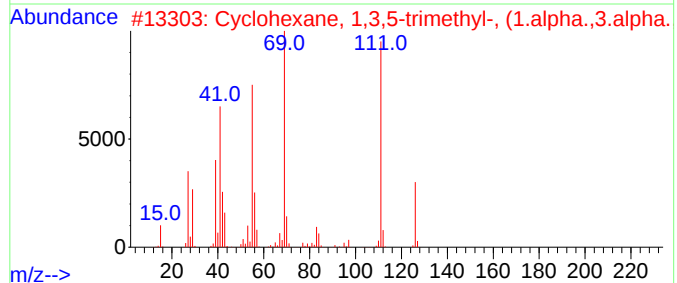
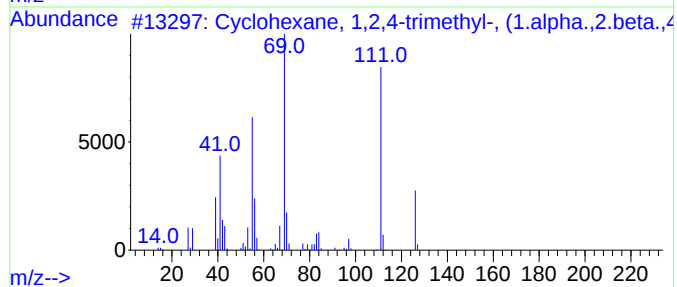
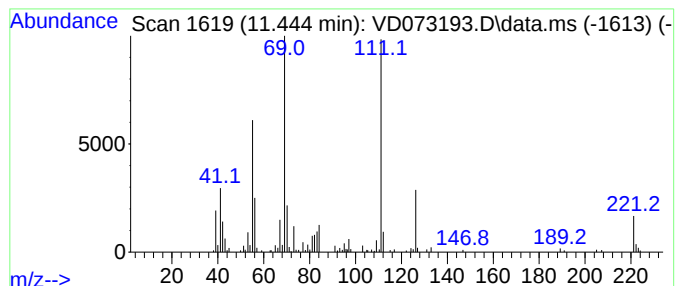
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 10 Cyclohexane, 1,2,4-trimethyl... Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 11.444 | 11.88 ug/l | 439880 | Chlorobenzene-d5 | 11.632 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 93   |
| 2    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 87   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 81   |
| 4    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 80   |
| 5    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052022\  
Data File : VD073193.D  
Acq On : 20 May 2022 19:51  
Operator : VA/SY  
Sample : N2935-01  
Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-03-051822

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| unknown10.220      | 10.220 | 8.5     | ug/l  | 221997   | 2                     | 8.861  | 1300660 | 50.0 |
| Cyclohexane, 1,... | 10.496 | 13.2    | ug/l  | 487373   | 3                     | 11.632 | 1851130 | 50.0 |
| 1.alpha.,2.beta... | 10.626 | 13.1    | ug/l  | 483637   | 3                     | 11.632 | 1851130 | 50.0 |
| Cyclohexane, 1,... | 10.673 | 22.6    | ug/l  | 836852   | 3                     | 11.632 | 1851130 | 50.0 |
| unknown10.814      | 10.814 | 8.9     | ug/l  | 329584   | 3                     | 11.632 | 1851130 | 50.0 |
| unknown11.073      | 11.073 | 15.6    | ug/l  | 575928   | 3                     | 11.632 | 1851130 | 50.0 |
| Cyclohexane, 1,... | 11.149 | 7.9     | ug/l  | 292522   | 3                     | 11.632 | 1851130 | 50.0 |
| Cyclohexane, 1,... | 11.238 | 46.2    | ug/l  | 1711820  | 3                     | 11.632 | 1851130 | 50.0 |
| 1,1,4-Trimethyl... | 11.291 | 8.8     | ug/l  | 326993   | 3                     | 11.632 | 1851130 | 50.0 |
| Cyclohexane, 1,... | 11.444 | 11.9    | ug/l  | 439880   | 3                     | 11.632 | 1851130 | 50.0 |