

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
 Data File : VD071419.D  
 Acq On : 21 Dec 2021 19:12  
 Operator : VA/SY  
 Sample : M5182-04  
 Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HB-3-(10-15)-12-17-21

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\82D112921S.M  
 Title : SW846 8260

Signal : TIC: VD071419.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         | 2.685       | 125           | 130         | 140          | rVB8     | 36593          | 99191         | 3.42%           | 0.438%        |
| 2         | 4.409       | 413           | 423         | 433          | rBV2     | 29089          | 84186         | 2.90%           | 0.372%        |
| 3         | 4.961       | 506           | 517         | 530          | rBV2     | 63842          | 214875        | 7.41%           | 0.948%        |
| 4         | 7.914       | 1009          | 1019        | 1024         | rBV2     | 370841         | 897091        | 30.92%          | 3.960%        |
| 5         | 7.979       | 1024          | 1030        | 1040         | rVV      | 644195         | 1458253       | 50.27%          | 6.437%        |
| 6         | 8.055       | 1040          | 1043        | 1053         | rVB9     | 13689          | 34085         | 1.17%           | 0.150%        |
| 7         | 8.326       | 1080          | 1089        | 1101         | rVB      | 351886         | 787784        | 27.16%          | 3.477%        |
| 8         | 8.591       | 1129          | 1134        | 1142         | rVB7     | 12892          | 32602         | 1.12%           | 0.144%        |
| 9         | 8.861       | 1170          | 1180        | 1191         | rBV      | 1023865        | 2068817       | 71.31%          | 9.132%        |
| 10        | 9.320       | 1251          | 1258        | 1259         | rBV2     | 21368          | 36482         | 1.26%           | 0.161%        |
| 11        | 9.626       | 1302          | 1310        | 1318         | rBV5     | 20496          | 45766         | 1.58%           | 0.202%        |
| 12        | 9.773       | 1328          | 1335        | 1341         | rVB6     | 24472          | 52594         | 1.81%           | 0.232%        |
| 13        | 10.096      | 1382          | 1390        | 1396         | rBV6     | 22203          | 44780         | 1.54%           | 0.198%        |
| 14        | 10.220      | 1405          | 1411        | 1415         | rBV6     | 18013          | 38430         | 1.32%           | 0.170%        |
| 15        | 10.332      | 1422          | 1430        | 1446         | rVB      | 1528351        | 2901011       | 100.00%         | 12.805%       |
| 16        | 10.514      | 1455          | 1461        | 1469         | rVB5     | 33514          | 92187         | 3.18%           | 0.407%        |
| 17        | 10.673      | 1484          | 1488        | 1494         | rVV3     | 62464          | 109506        | 3.77%           | 0.483%        |
| 18        | 10.761      | 1498          | 1503        | 1510         | rVB7     | 41528          | 101182        | 3.49%           | 0.447%        |
| 19        | 10.861      | 1516          | 1520        | 1525         | rVB7     | 19729          | 37181         | 1.28%           | 0.164%        |
| 20        | 10.949      | 1525          | 1535        | 1541         | rBV      | 68631          | 135628        | 4.68%           | 0.599%        |
| 21        | 11.044      | 1541          | 1551        | 1552         | rBV6     | 44984          | 97609         | 3.36%           | 0.431%        |
| 22        | 11.191      | 1573          | 1576        | 1579         | rVV2     | 20257          | 30722         | 1.06%           | 0.136%        |
| 23        | 11.238      | 1579          | 1584        | 1590         | rVV2     | 126527         | 222258        | 7.66%           | 0.981%        |
| 24        | 11.291      | 1590          | 1593        | 1598         | rVV6     | 31914          | 54947         | 1.89%           | 0.243%        |
| 25        | 11.338      | 1598          | 1601        | 1607         | rVB5     | 41742          | 70312         | 2.42%           | 0.310%        |
| 26        | 11.443      | 1614          | 1619        | 1629         | rVB4     | 103042         | 230039        | 7.93%           | 1.015%        |
| 27        | 11.561      | 1635          | 1639        | 1644         | rBV7     | 20850          | 39052         | 1.35%           | 0.172%        |
| 28        | 11.638      | 1645          | 1652        | 1663         | rBV      | 1313814        | 2343106       | 80.77%          | 10.342%       |
| 29        | 11.773      | 1671          | 1675        | 1680         | rVB3     | 54589          | 79757         | 2.75%           | 0.352%        |
| 30        | 11.820      | 1680          | 1683        | 1689         | rBV4     | 40923          | 68611         | 2.37%           | 0.303%        |
| 31        | 11.885      | 1689          | 1694        | 1698         | rBV4     | 75506          | 162267        | 5.59%           | 0.716%        |
| 32        | 11.979      | 1705          | 1710        | 1715         | rBV5     | 30327          | 64857         | 2.24%           | 0.286%        |
| 33        | 12.149      | 1731          | 1739        | 1744         | rBV3     | 169386         | 392338        | 13.52%          | 1.732%        |
| 34        | 12.261      | 1751          | 1758        | 1763         | rVB2     | 196597         | 345301        | 11.90%          | 1.524%        |
| 35        | 12.314      | 1763          | 1767        | 1768         | rBV4     | 62740          | 89946         | 3.10%           | 0.397%        |
| 36        | 12.343      | 1768          | 1772        | 1774         | rBV3     | 176406         | 260651        | 8.98%           | 1.151%        |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HB-3-(10-15)-12-17-21

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\82D112921S.M  
 Title : SW846 8260

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 37 | 12.455 | 1783 | 1791 | 1797 | rBV9  | 69926   | 221561  | 7.64%  | 0.978% |
| 38 | 12.626 | 1813 | 1820 | 1826 | rBV   | 1245924 | 2100898 | 72.42% | 9.273% |
| 39 | 12.708 | 1828 | 1834 | 1840 | rVV8  | 90871   | 263363  | 9.08%  | 1.162% |
| 40 | 12.790 | 1843 | 1848 | 1855 | rVB2  | 344041  | 632879  | 21.82% | 2.793% |
| 41 | 12.867 | 1855 | 1861 | 1866 | rBV5  | 127532  | 310303  | 10.70% | 1.370% |
| 42 | 13.055 | 1888 | 1893 | 1896 | rBV2  | 144533  | 264355  | 9.11%  | 1.167% |
| 43 | 13.132 | 1903 | 1906 | 1910 | rBV3  | 75887   | 116272  | 4.01%  | 0.513% |
| 44 | 13.179 | 1910 | 1914 | 1926 | rVB8  | 169468  | 505335  | 17.42% | 2.231% |
| 45 | 13.273 | 1926 | 1930 | 1931 | rBV2  | 80473   | 96642   | 3.33%  | 0.427% |
| 46 | 13.302 | 1932 | 1935 | 1938 | rVB3  | 78942   | 97799   | 3.37%  | 0.432% |
| 47 | 13.567 | 1973 | 1980 | 1988 | rVB   | 751697  | 1364110 | 47.02% | 6.021% |
| 48 | 13.708 | 2001 | 2004 | 2008 | rVB2  | 149345  | 192205  | 6.63%  | 0.848% |
| 49 | 13.826 | 2022 | 2024 | 2029 | rBV5  | 44264   | 71755   | 2.47%  | 0.317% |
| 50 | 13.885 | 2029 | 2034 | 2040 | rVV3  | 409083  | 729844  | 25.16% | 3.221% |
| 51 | 13.990 | 2047 | 2052 | 2055 | rBV5  | 152924  | 261160  | 9.00%  | 1.153% |
| 52 | 14.202 | 2084 | 2088 | 2095 | rBV9  | 70606   | 147782  | 5.09%  | 0.652% |
| 53 | 14.273 | 2096 | 2100 | 2107 | rVB10 | 106010  | 189845  | 6.54%  | 0.838% |
| 54 | 14.337 | 2108 | 2111 | 2116 | rBV6  | 48190   | 90992   | 3.14%  | 0.402% |
| 55 | 14.390 | 2116 | 2120 | 2124 | rBV3  | 214462  | 318800  | 10.99% | 1.407% |
| 56 | 14.555 | 2144 | 2148 | 2153 | rVB5  | 187517  | 299254  | 10.32% | 1.321% |
| 57 | 14.867 | 2197 | 2201 | 2208 | rVB8  | 121711  | 218757  | 7.54%  | 0.966% |
| 58 | 15.432 | 2291 | 2297 | 2300 | rBV6  | 77679   | 166626  | 5.74%  | 0.735% |
| 59 | 16.673 | 2504 | 2508 | 2516 | rVB10 | 78627   | 171496  | 5.91%  | 0.757% |

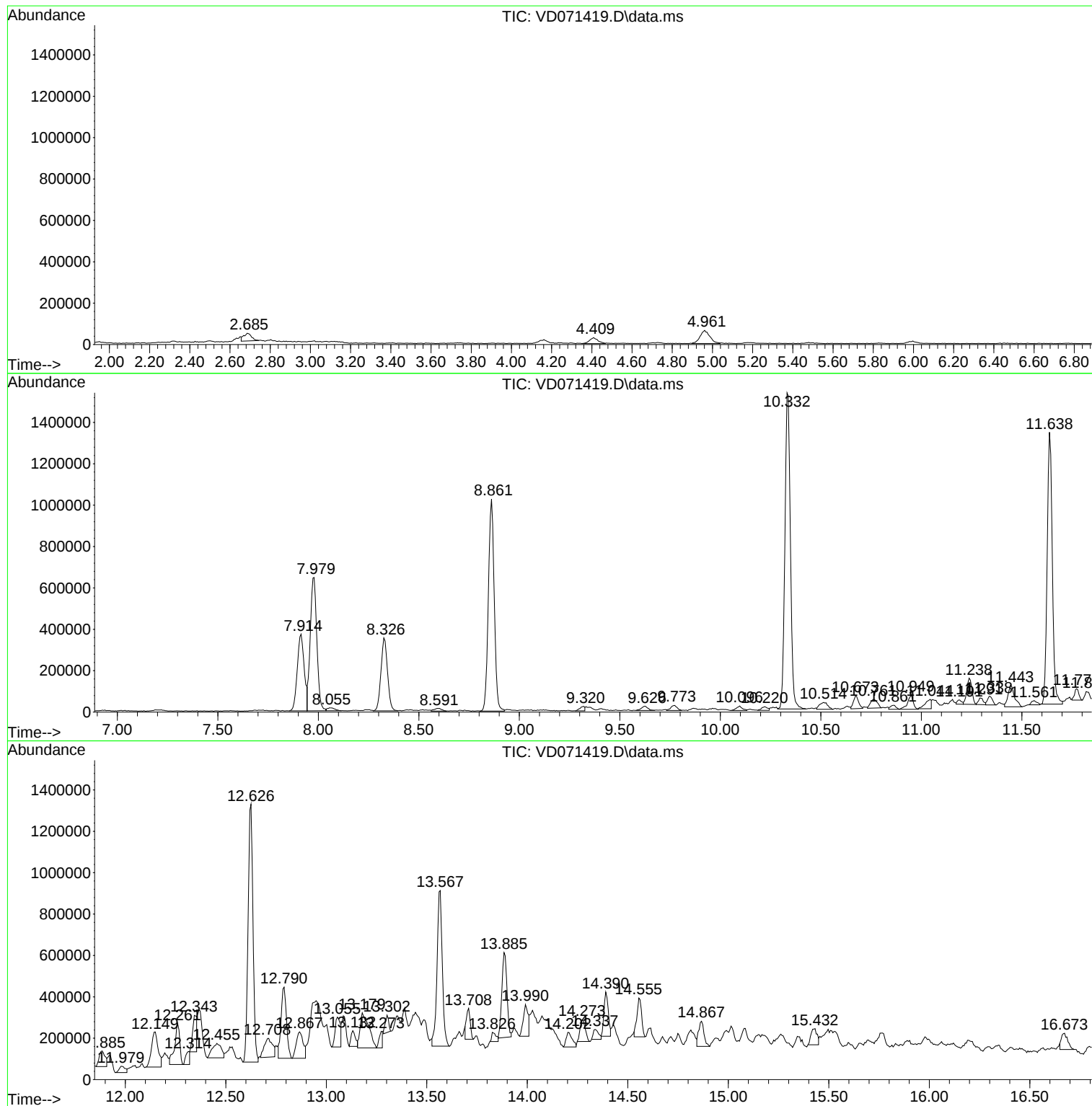
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ClientSampleId :  
HB-3-(10-15)-12-17-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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HB-3-(10-15)-12-17-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

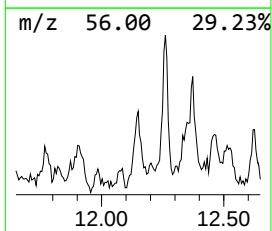
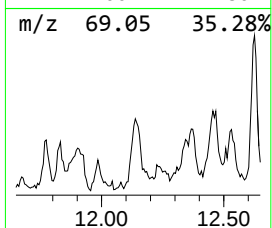
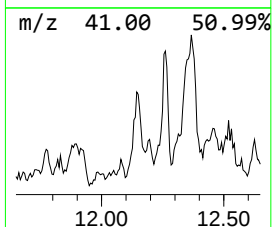
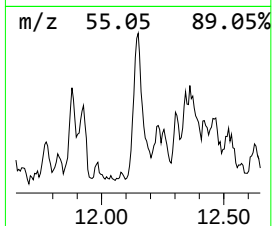
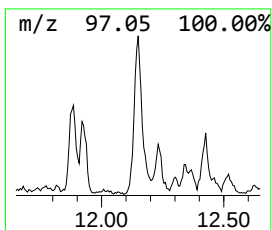
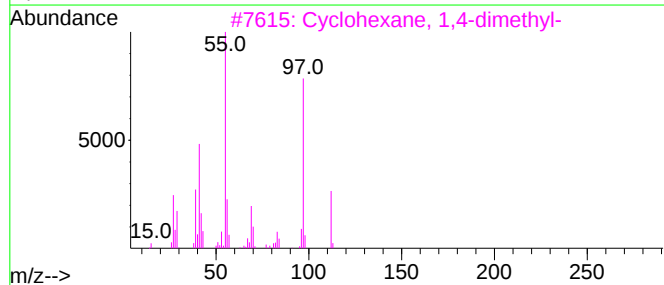
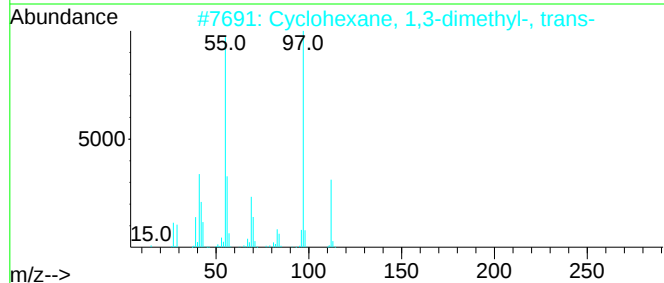
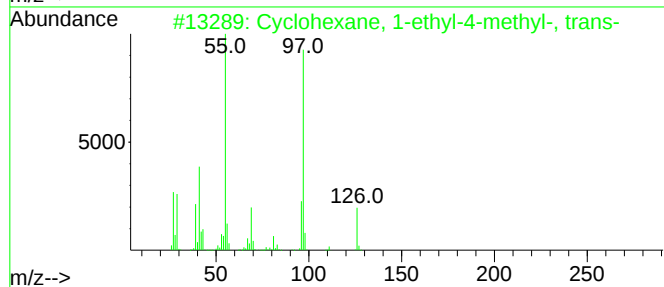
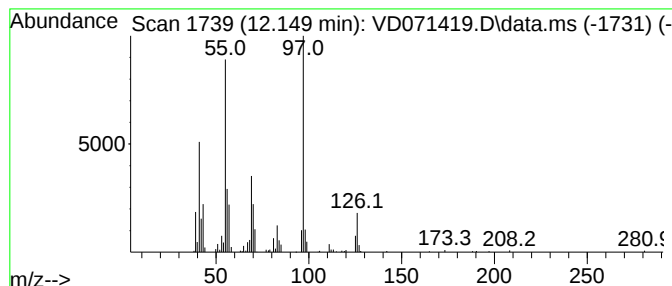
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Cyclohexane, 1-ethyl-4-meth... Concentration Rank 10

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.149 | 8.37 ug/l | 392338 | Chlorobenzene-d5 | 11.638 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 64   |
| 2    |      | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 64   |
| 3    |      | Cyclohexane, 1,4-dimethyl-          | 112 | C8H16   | 000589-90-2 | 64   |
| 4    |      | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 64   |
| 5    |      | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 58   |



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MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

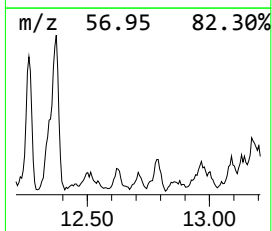
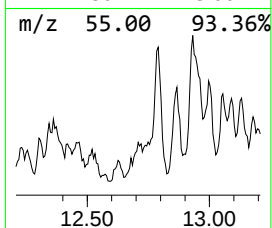
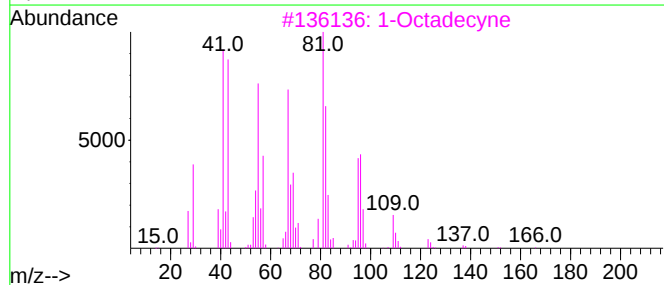
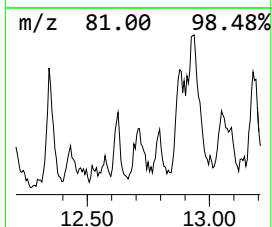
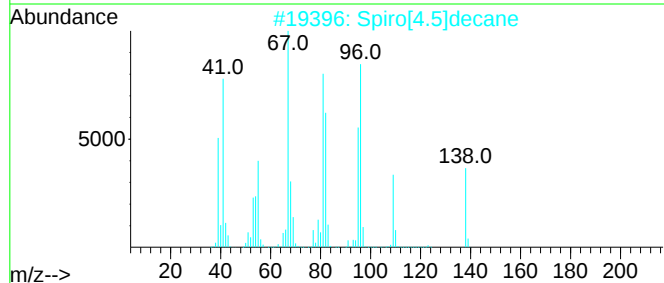
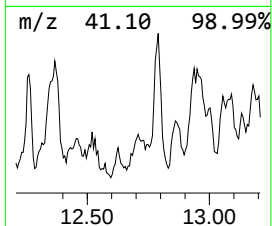
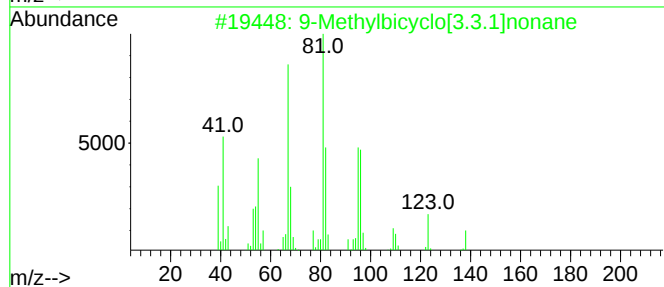
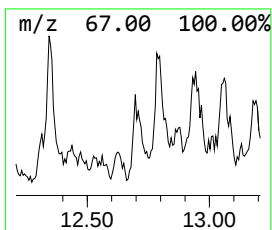
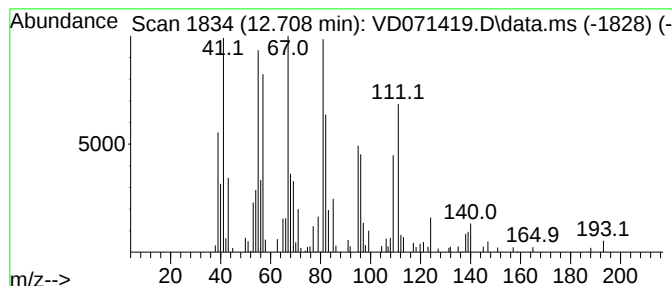
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

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

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Peak Number 2 9-Methylbicyclo[3.3.1]nonane Concentration Rank 8

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.708 | 9.65 ug/l | 263363 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 9-Methylbicyclo[3.3.1]nonane        | 138 | C10H18  | 025107-01-1 | 70   |
| 2    |    |   | Spiro[4.5]decane                    | 138 | C10H18  | 000176-63-6 | 64   |
| 3    |    |   | 1-Octadecyne                        | 250 | C18H34  | 000629-89-0 | 58   |
| 4    |    |   | Cyclooctene, 3-methyl-              | 124 | C9H16   | 013152-05-1 | 58   |
| 5    |    |   | cis-1,4-Dimethyl-2-methylenecycl... | 124 | C9H16   | 019781-46-5 | 55   |



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HB-3-(10-15)-12-17-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

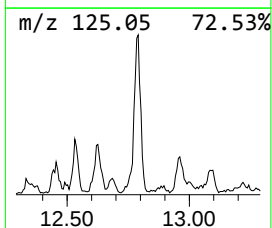
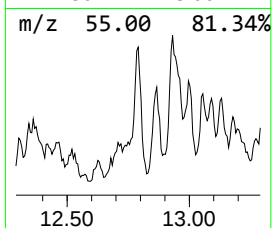
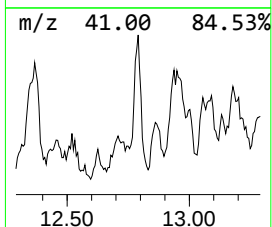
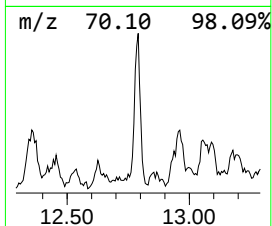
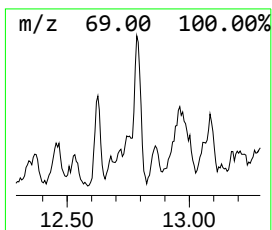
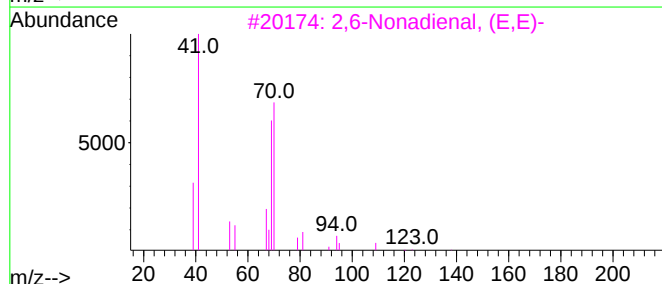
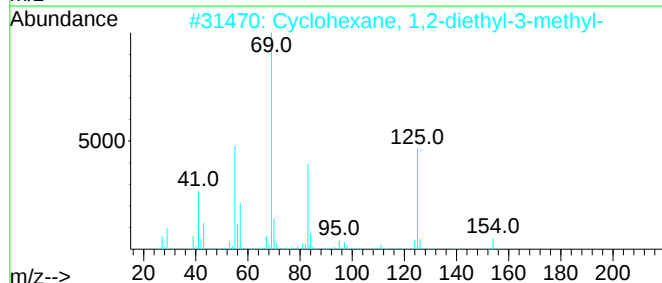
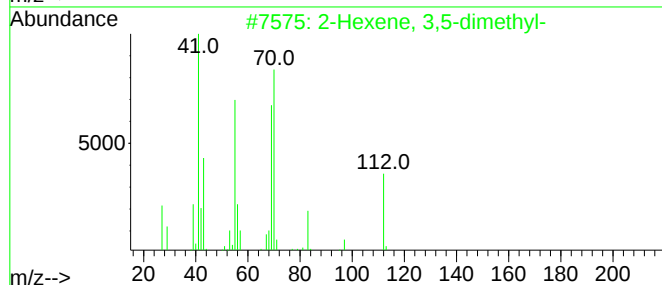
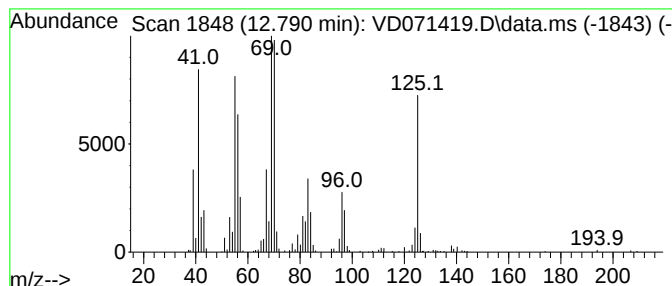
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown12.791 Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.791 | 23.20 ug/l | 632879 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of                                 | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------------------------------------|---|--------------|-----|---------|-------------|------|
| 1    | 2-Hexene, 3,5-dimethyl-            |   |              | 112 | C8H16   | 003404-79-3 | 43   |
| 2    | Cyclohexane, 1,2-diethyl-3-methyl- |   |              | 154 | C11H22  | 061141-80-8 | 38   |
| 3    | 2,6-Nonadienal, (E,E)-             |   |              | 138 | C9H14O  | 017587-33-6 | 38   |
| 4    | Cyclooctane, 1-methyl-3-propyl-    |   |              | 168 | C12H24  | 255885-37-1 | 38   |
| 5    | 1-Nonanol                          |   |              | 144 | C9H20O  | 000143-08-8 | 27   |



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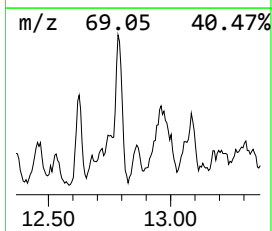
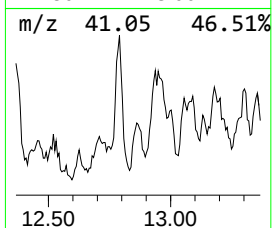
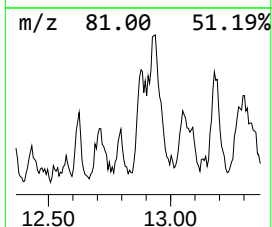
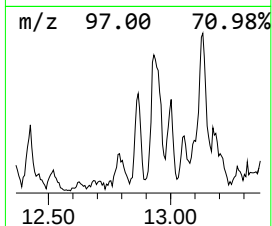
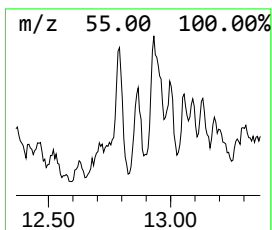
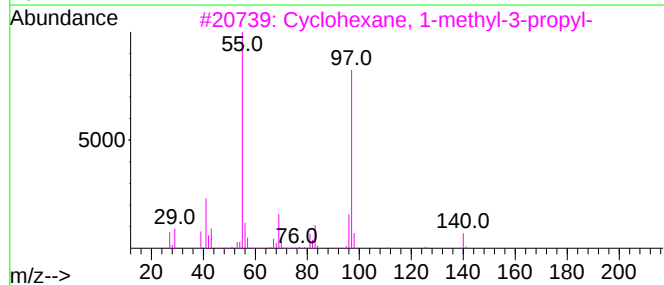
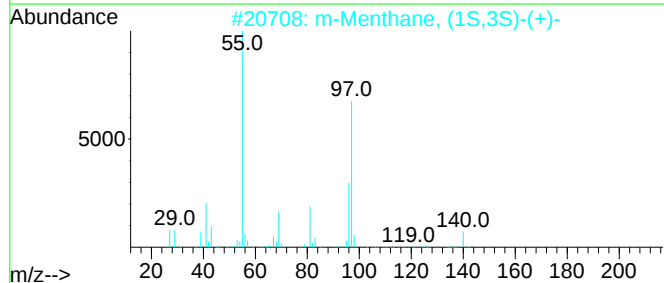
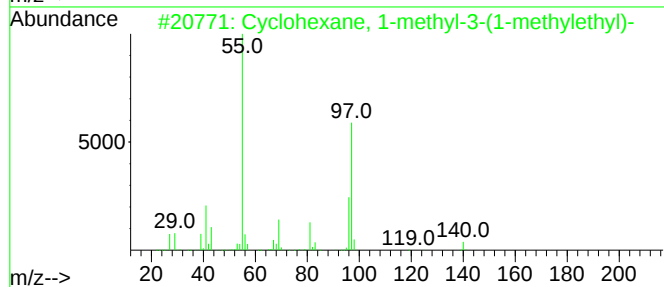
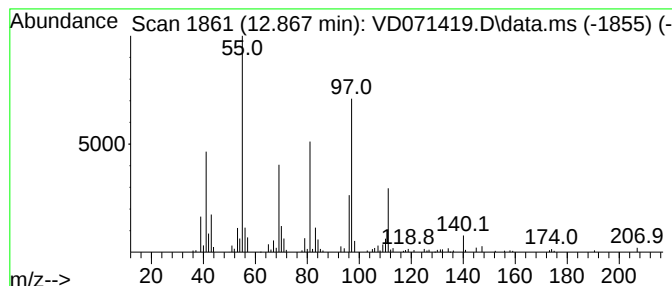
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Cyclohexane, 1-methyl-3-(1-... Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.867 | 11.37 ug/l | 310303 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-3-(1-methy... | 140 | C10H20  | 016580-24-8 | 58   |
| 2    |    |   | m-Menthane, (1S,3S)-(+)-            | 140 | C10H20  | 013837-67-7 | 58   |
| 3    |    |   | Cyclohexane, 1-methyl-3-propyl-     | 140 | C10H20  | 004291-80-9 | 52   |
| 4    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 49   |
| 5    |    |   | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20  | 000099-82-1 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

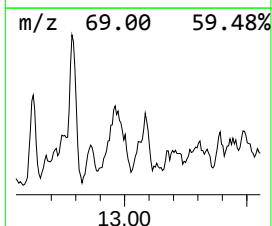
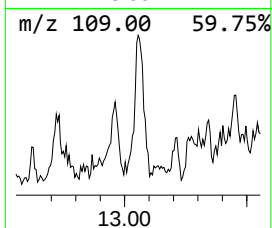
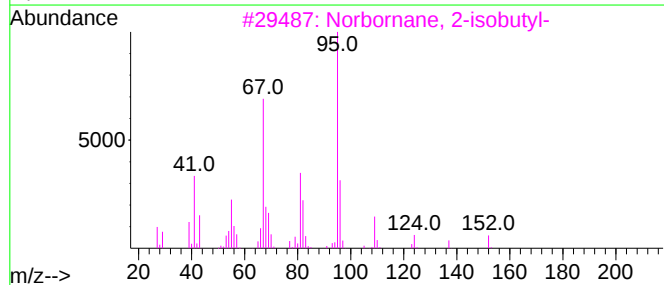
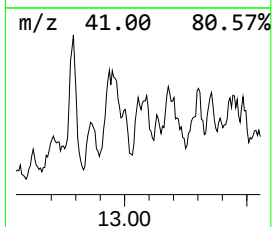
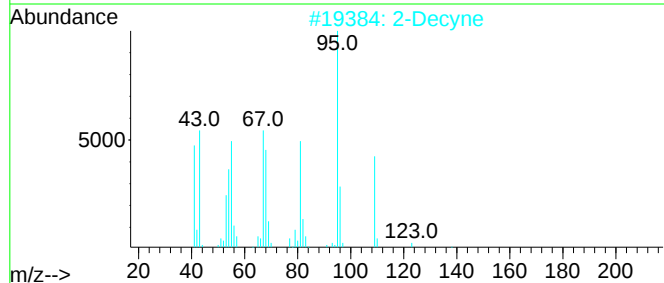
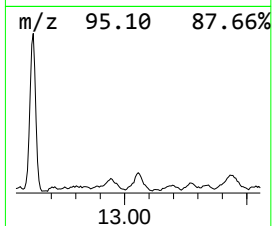
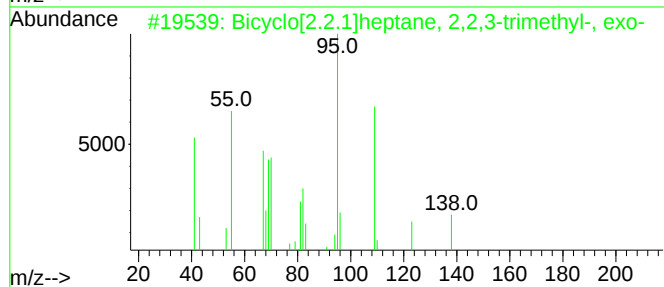
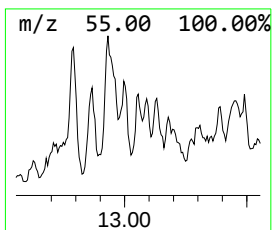
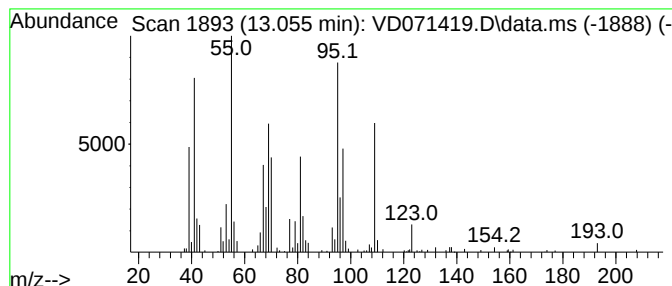
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Bicyclo[2.2.1]heptane, 2,2,... Concentration Rank 7

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.055 | 9.69 ug/l | 264355 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18  | 020536-41-8 | 59   |
| 2    |    |   | 2-Decyne                            | 138 | C10H18  | 002384-70-5 | 43   |
| 3    |    |   | Norbornane, 2-isobutyl-             | 152 | C11H20  | 018127-14-5 | 38   |
| 4    |    |   | Bicyclo[2.2.1]heptane, 2-ethyl-     | 124 | C9H16   | 002146-41-0 | 38   |
| 5    |    |   | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18  | 004863-59-6 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

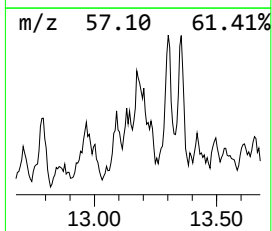
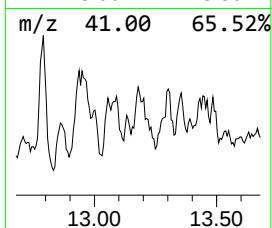
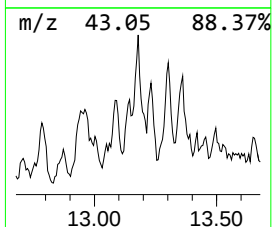
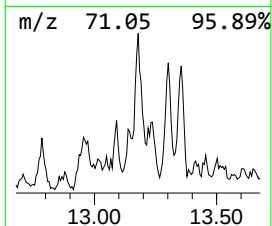
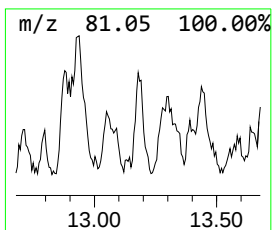
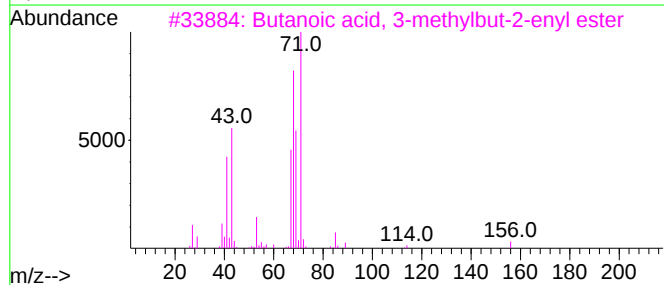
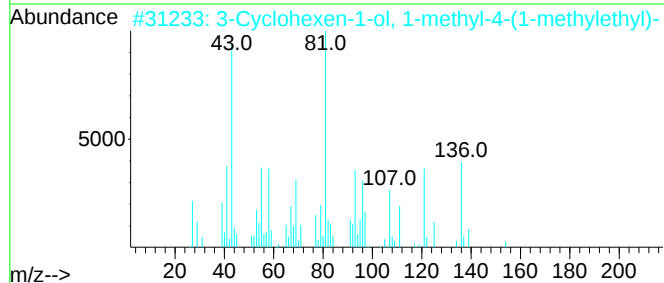
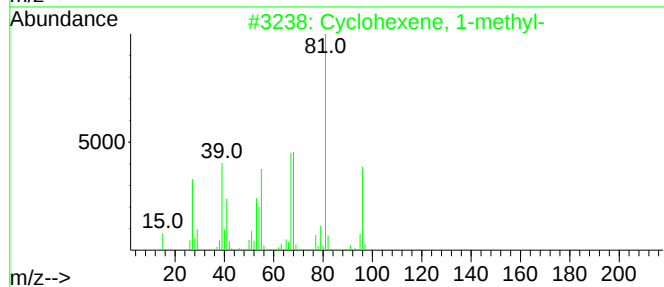
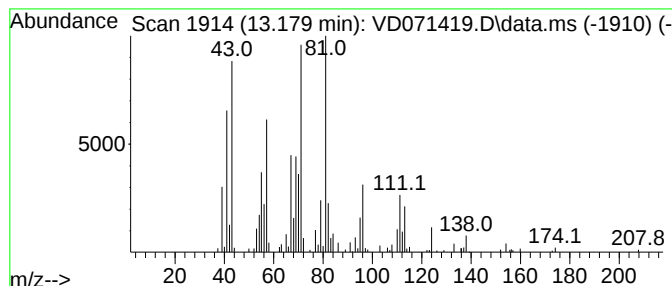
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Quant Title : SW846 8260

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

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Peak Number 6 unknown13.179 Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.179 | 18.52 ug/l | 505335 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                                   | MW  | MolForm | CAS#         | Qual |
|------|----|---|------------------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclohexene, 1-methyl-                         | 96  | C7H12   | 000591-49-1  | 38   |
| 2    |    |   | 3-Cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)- | 154 | C10H18O | 000586-82-3  | 38   |
| 3    |    |   | Butanoic acid, 3-methylbut-2-enyl-             | 156 | C9H16O2 | 1000299-11-8 | 30   |
| 4    |    |   | Cyclohexene, 3-propyl-                         | 124 | C9H16   | 003983-06-0  | 30   |
| 5    |    |   | 2,4-Hexadiene, 2-methyl-                       | 96  | C7H12   | 028823-41-8  | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

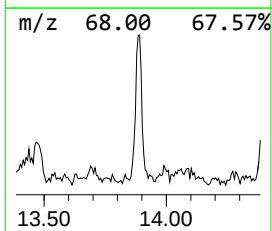
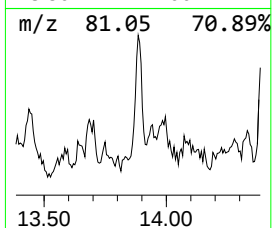
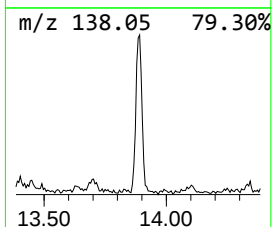
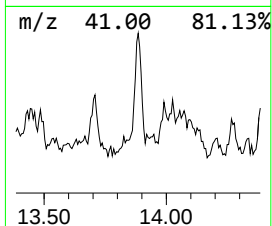
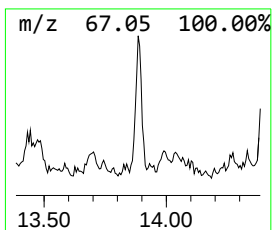
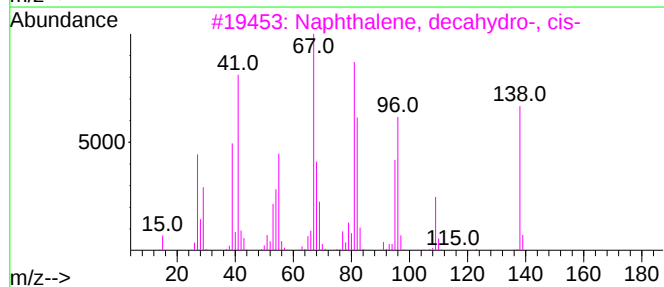
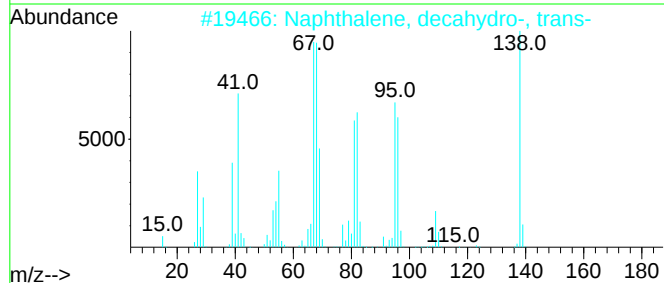
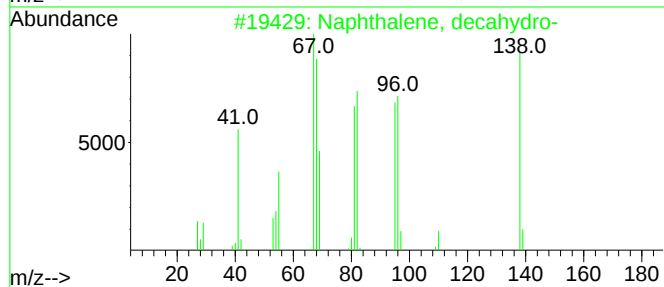
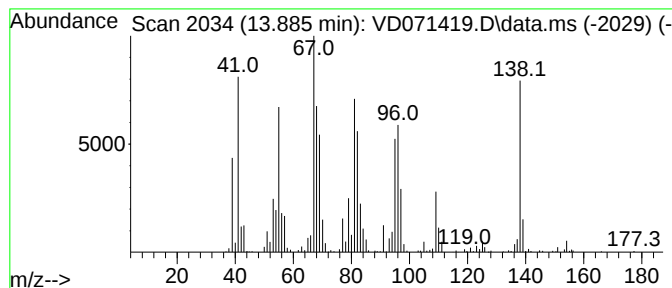
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Quant Title : SW846 8260

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

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Peak Number 7 Naphthalene, decahydro- Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.884 | 26.75 ug/l | 729844 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, decahydro-         | 138 | C10H18  | 000091-17-8 | 95   |
| 2    |    |   | Naphthalene, decahydro-, trans- | 138 | C10H18  | 000493-02-7 | 93   |
| 3    |    |   | Naphthalene, decahydro-, cis-   | 138 | C10H18  | 000493-01-6 | 91   |
| 4    |    |   | Spiro[4.5]decane                | 138 | C10H18  | 000176-63-6 | 90   |
| 5    |    |   | Cyclodecene                     | 138 | C10H18  | 003618-12-0 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

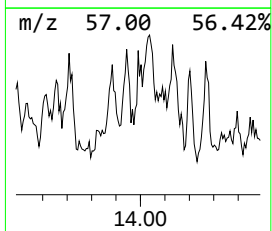
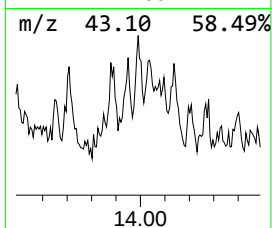
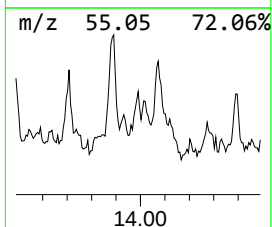
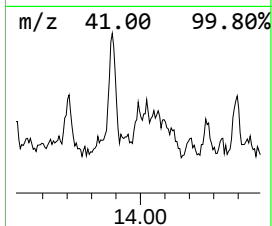
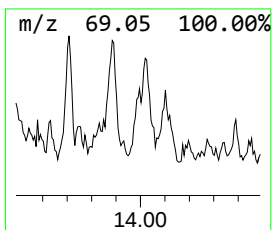
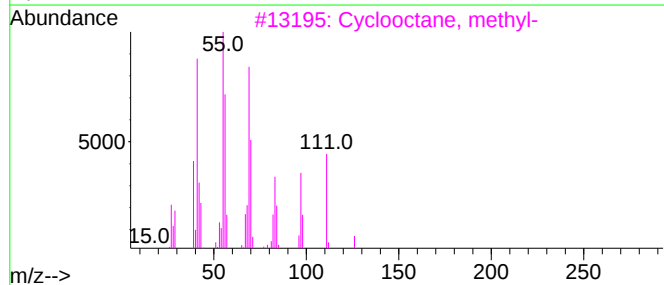
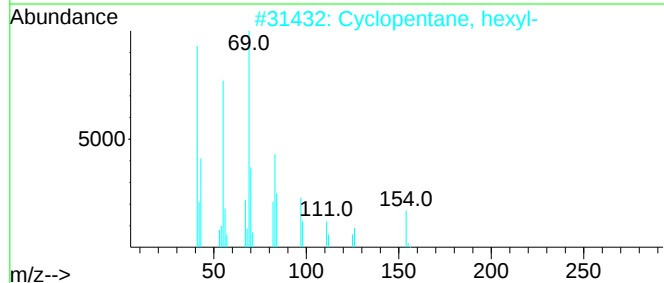
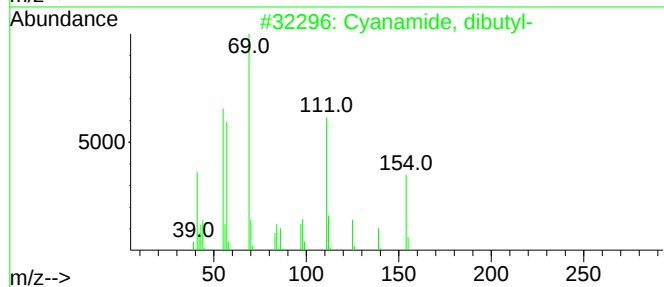
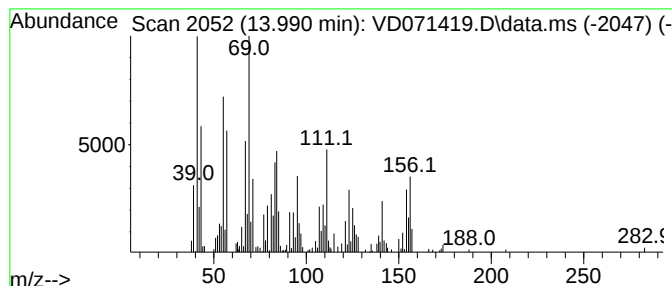
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Quant Title : SW846 8260

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

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Peak Number 8 unknown13.990 Concentration Rank 9

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.990 | 9.57 ug/l | 261160 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyanamide, dibutyl-             | 154 | C9H18N2 | 002050-54-6 | 45   |
| 2    |    |   | Cyclopentane, hexyl-            | 154 | C11H22  | 004457-00-5 | 38   |
| 3    |    |   | Cyclooctane, methyl-            | 126 | C9H18   | 001502-38-1 | 38   |
| 4    |    |   | Cyclohexane, 1,2-diethyl-, cis- | 140 | C10H20  | 000824-43-1 | 30   |
| 5    |    |   | Cyclopropane, 1-ethyl-1-methyl- | 84  | C6H12   | 053778-43-1 | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

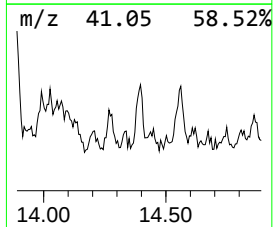
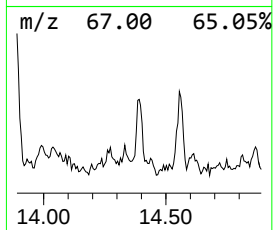
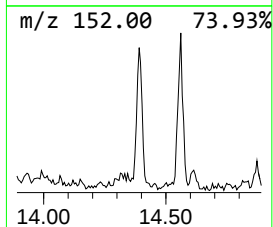
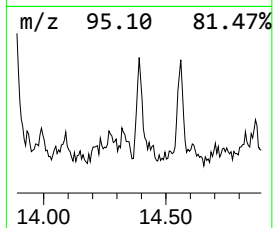
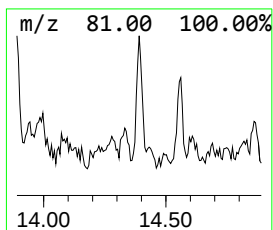
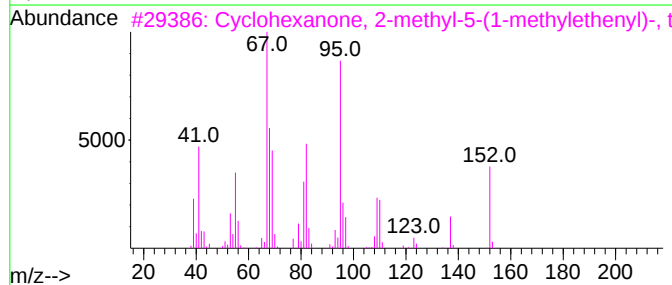
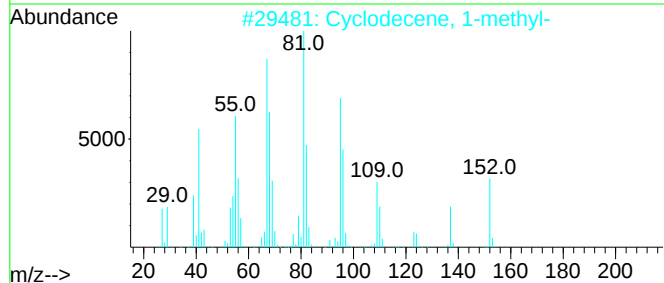
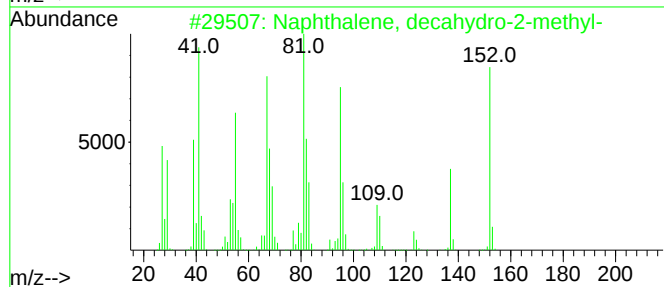
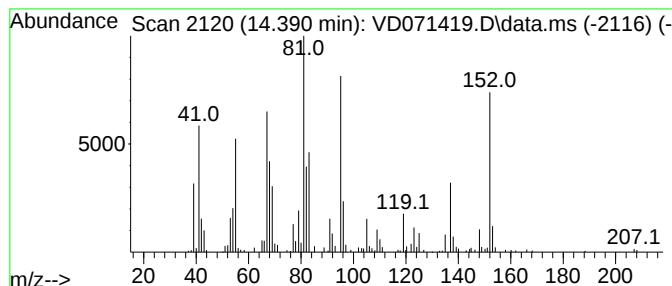
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 Naphthalene, decahydro-2-me... Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.390 | 11.69 ug/l | 318800 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1 | 91   |
| 2    |    |   | Cyclodecene, 1-methyl-              | 152 | C11H20  | 066633-38-3 | 87   |
| 3    |    |   | Cyclohexanone, 2-methyl-5-(1-met... | 152 | C10H16O | 005948-04-9 | 70   |
| 4    |    |   | (+)-Dihydrocarvone                  | 152 | C10H16O | 005524-05-0 | 70   |
| 5    |    |   | 2H-Inden-2-one, octahydro-3a-met... | 152 | C10H16O | 013351-29-6 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

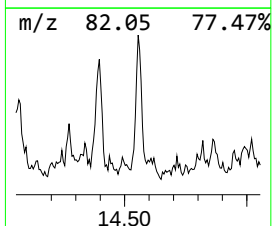
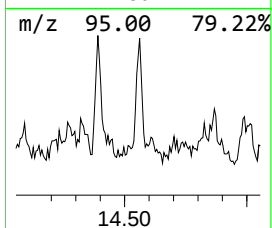
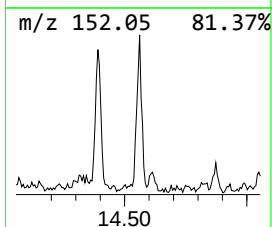
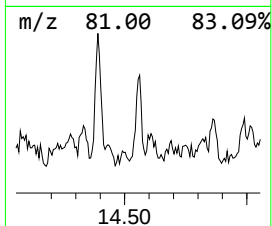
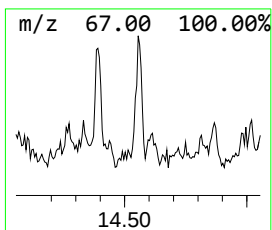
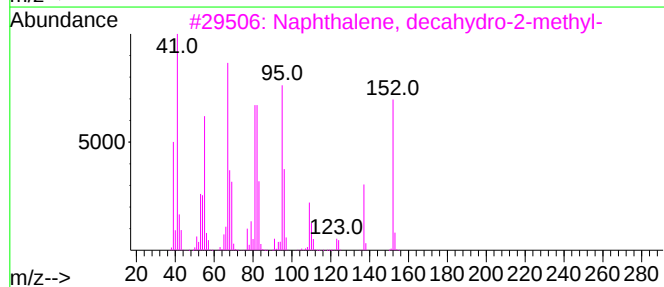
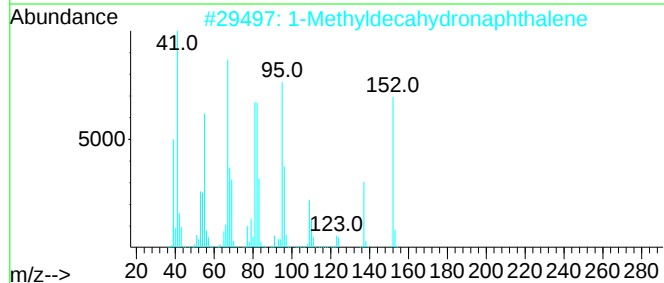
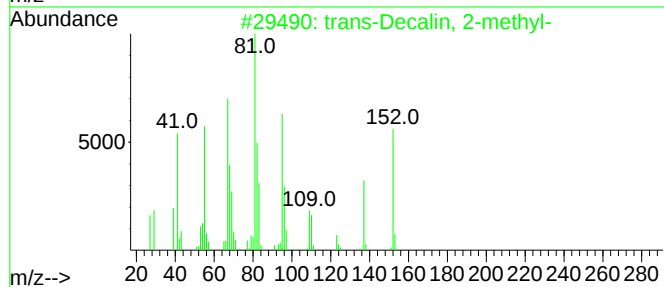
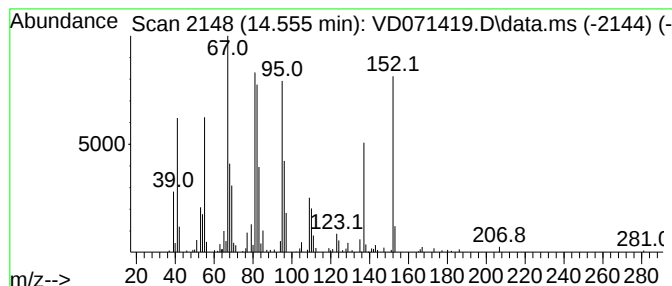
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 10 trans-Decalin, 2-methyl- Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.555 | 10.97 ug/l | 299254 | 1,4-Dichlorobenzene-d4 | 13.567 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 93   |
| 2    |    |   | 1-Methyldecahydronaphthalene        | 152 | C11H20  | 002958-75-0  | 90   |
| 3    |    |   | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 90   |
| 4    |    |   | cis-Decalin, 2-syn-methyl-          | 152 | C11H20  | 1000155-85-6 | 76   |
| 5    |    |   | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5  | 70   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
Data File : VD071419.D  
Acq On : 21 Dec 2021 19:12  
Operator : VA/SY  
Sample : M5182-04  
Misc : 5.94G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HB-3-(10-15)-12-17-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.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 |
| Cyclohexane, 1-... | 12.149 | 8.4     | ug/l  | 392338   | 3                     | 11.638 | 2343110 | 50.0 |
| 9-Methylbicyclo... | 12.708 | 9.7     | ug/l  | 263363   | 4                     | 13.567 | 1364110 | 50.0 |
| unknown12.791      | 12.791 | 23.2    | ug/l  | 632879   | 4                     | 13.567 | 1364110 | 50.0 |
| Cyclohexane, 1-... | 12.867 | 11.4    | ug/l  | 310303   | 4                     | 13.567 | 1364110 | 50.0 |
| Bicyclo[2.2.1]h... | 13.055 | 9.7     | ug/l  | 264355   | 4                     | 13.567 | 1364110 | 50.0 |
| unknown13.179      | 13.179 | 18.5    | ug/l  | 505335   | 4                     | 13.567 | 1364110 | 50.0 |
| Naphthalene, de... | 13.884 | 26.8    | ug/l  | 729844   | 4                     | 13.567 | 1364110 | 50.0 |
| unknown13.990      | 13.990 | 9.6     | ug/l  | 261160   | 4                     | 13.567 | 1364110 | 50.0 |
| Naphthalene, de... | 14.390 | 11.7    | ug/l  | 318800   | 4                     | 13.567 | 1364110 | 50.0 |
| trans-Decalin, ... | 14.555 | 11.0    | ug/l  | 299254   | 4                     | 13.567 | 1364110 | 50.0 |