

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\  
 Data File : VU028644.D  
 Acq On : 12 Dec 2018 11:57  
 Operator : MD/SY  
 Sample : J6356-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GROUND-WATER

## 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\_U\METHOD\82U120618W.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         | 4.881       | 1136          | 1153        | 1171         | rBV2     | 91249          | 205487        | 2.48%           | 1.239%        |
| 2         | 4.983       | 1171          | 1185        | 1205         | rVB      | 140199         | 308077        | 3.71%           | 1.858%        |
| 3         | 5.308       | 1272          | 1286        | 1306         | rBV      | 109964         | 229964        | 2.77%           | 1.387%        |
| 4         | 5.884       | 1450          | 1465        | 1484         | rBV      | 236078         | 465526        | 5.61%           | 2.808%        |
| 5         | 7.565       | 1974          | 1988        | 2003         | rBV      | 369171         | 644802        | 7.77%           | 3.889%        |
| 6         | 9.089       | 2449          | 2462        | 2486         | rBV      | 321073         | 598916        | 7.21%           | 3.612%        |
| 7         | 9.919       | 2708          | 2720        | 2740         | rBV      | 95734          | 150938        | 1.82%           | 0.910%        |
| 8         | 10.305      | 2829          | 2840        | 2864         | rBV      | 242967         | 387549        | 4.67%           | 2.337%        |
| 9         | 10.681      | 2945          | 2957        | 2976         | rBV      | 41636          | 89548         | 1.08%           | 0.540%        |
| 10        | 11.125      | 3080          | 3095        | 3115         | rBV2     | 497733         | 963620        | 11.61%          | 5.812%        |
| 11        | 11.482      | 3195          | 3206        | 3223         | rBV      | 293524         | 467698        | 5.63%           | 2.821%        |
| 12        | 12.893      | 3633          | 3645        | 3659         | rBV      | 141834         | 212541        | 2.56%           | 1.282%        |
| 13        | 13.845      | 3927          | 3941        | 3956         | rBV      | 59799          | 100423        | 1.21%           | 0.606%        |
| 14        | 14.025      | 3984          | 3997        | 4020         | rBV      | 87687          | 156418        | 1.88%           | 0.943%        |
| 15        | 15.015      | 4291          | 4305        | 4323         | rBV      | 2202480        | 3296632       | 39.71%          | 19.883%       |
| 16        | 15.359      | 4397          | 4412        | 4446         | rBV      | 5568474        | 8301751       | 100.00%         | 50.071%       |

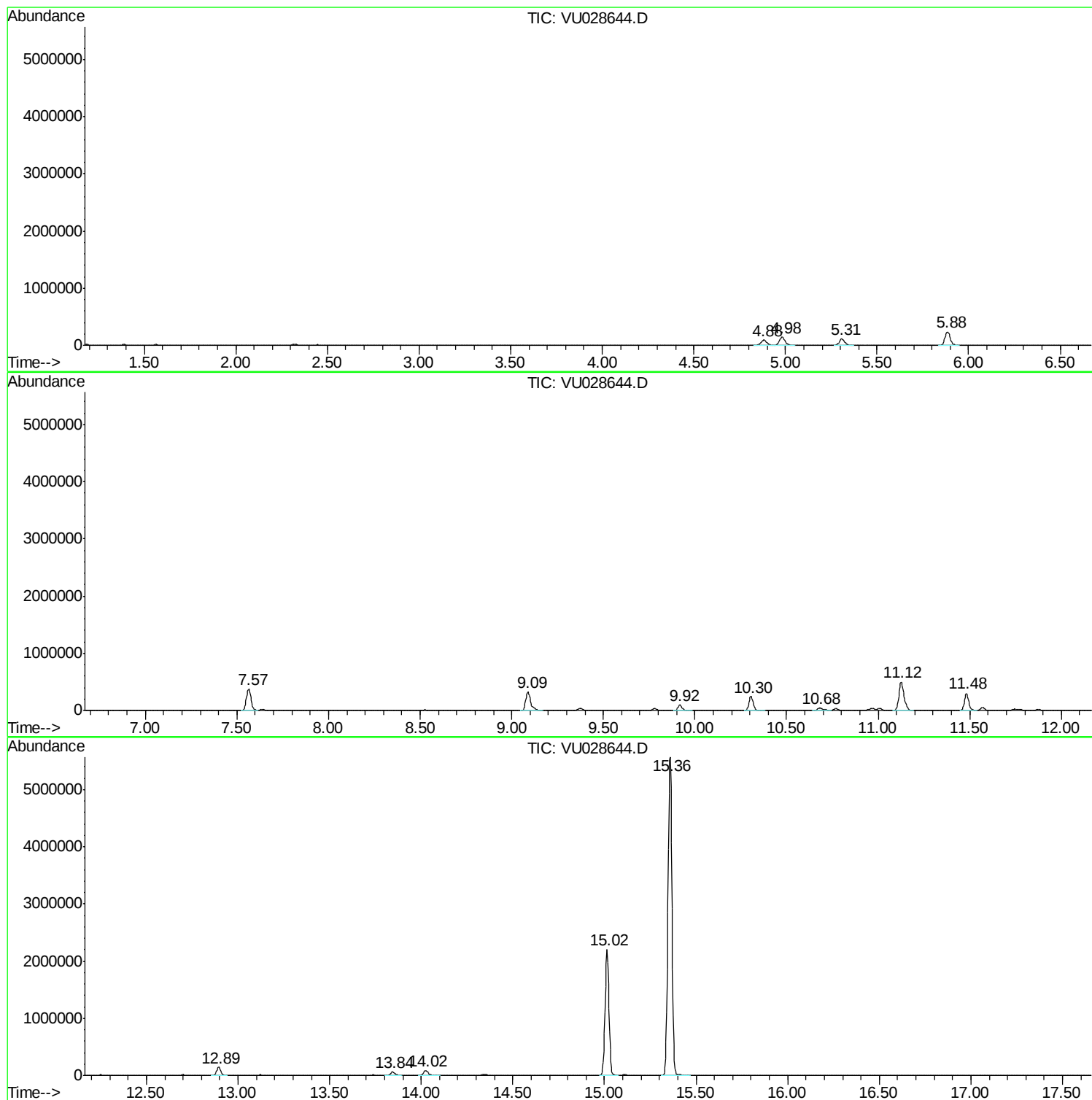
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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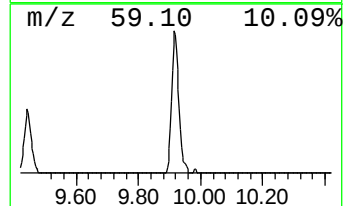
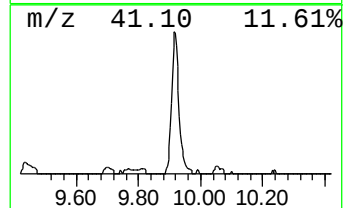
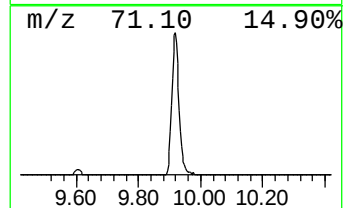
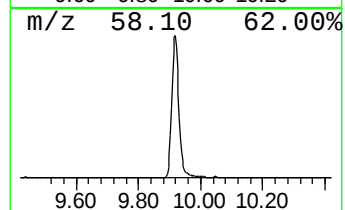
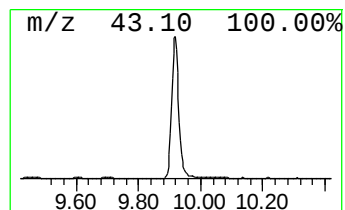
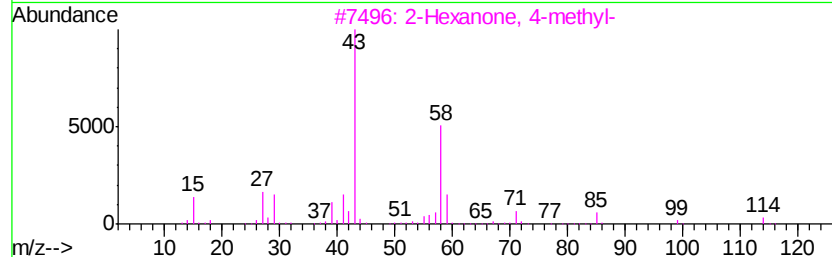
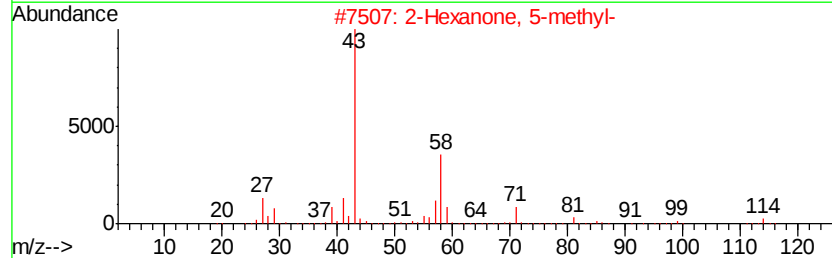
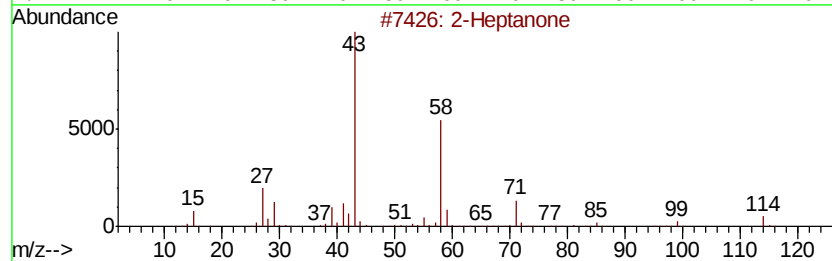
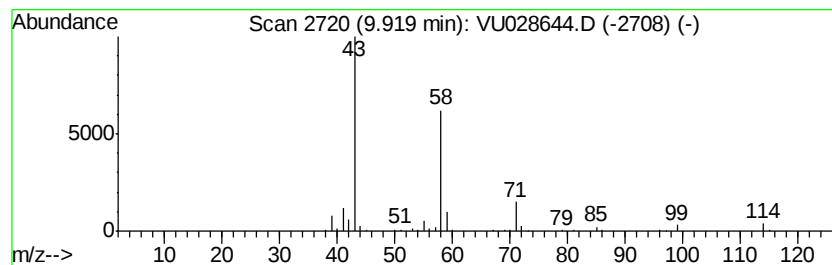
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260

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

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Peak Number 1 2-Heptanone Concentration Rank 5

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 9.92 | 12.60 ug/l | 150938 | Chlorobenzene-d5 | 9.09 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Heptanone                | 114 | C7H14O  | 000110-43-0 | 91   |
| 2    |    | 2-Hexanone, 5-methyl-      | 114 | C7H14O  | 000110-12-3 | 90   |
| 3    |    | 2-Hexanone, 4-methyl-      | 114 | C7H14O  | 000105-42-0 | 64   |
| 4    |    | 2-Pentanone, 4,4-dimethyl- | 114 | C7H14O  | 000590-50-1 | 50   |
| 5    |    | 2-Heptanone, 6-methyl-     | 128 | C8H16O  | 000928-68-7 | 40   |



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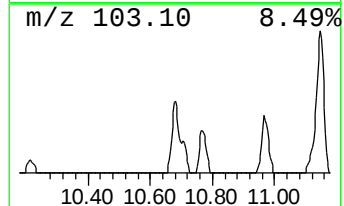
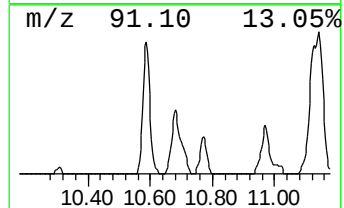
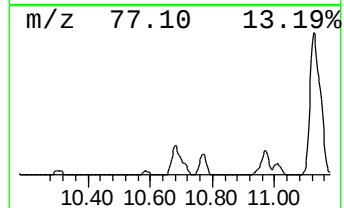
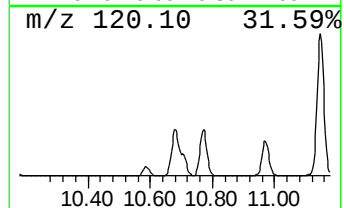
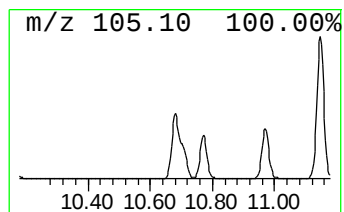
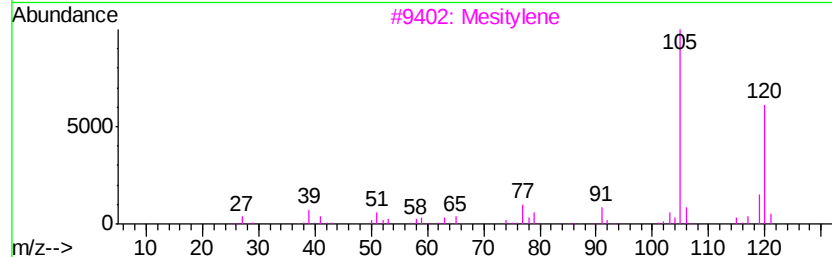
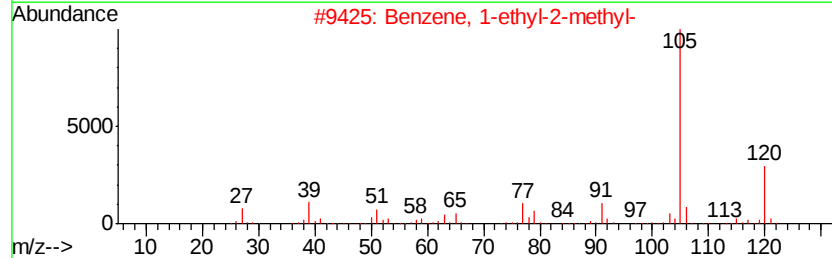
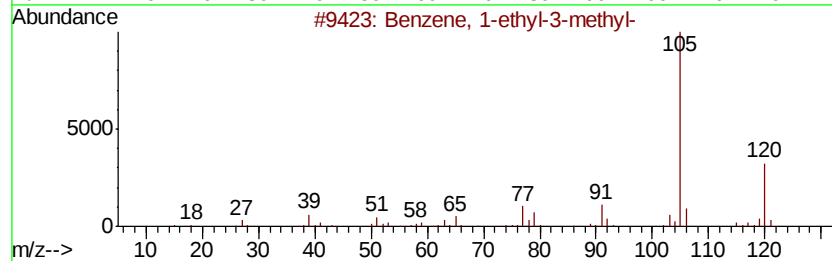
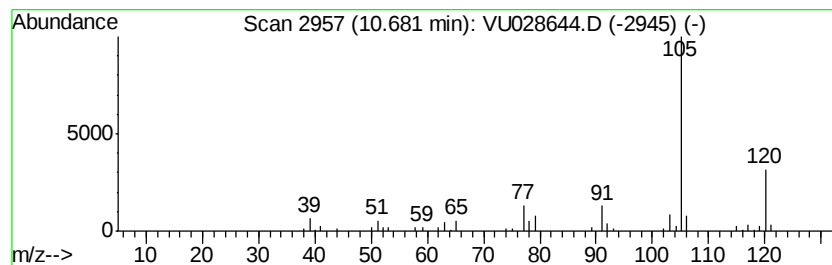
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TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzene, 1-ethyl-3-methyl- Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 10.68 | 9.57 ug/l | 89548 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 95   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 3    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |



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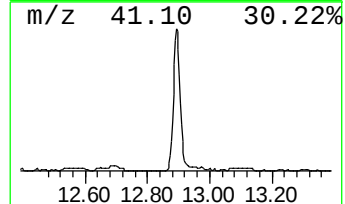
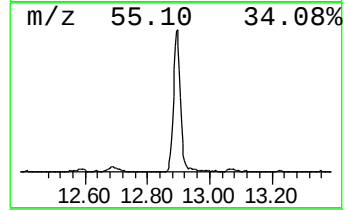
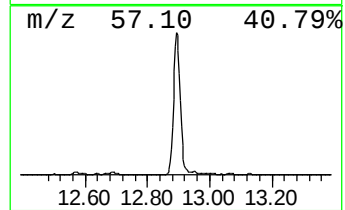
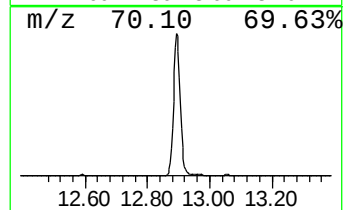
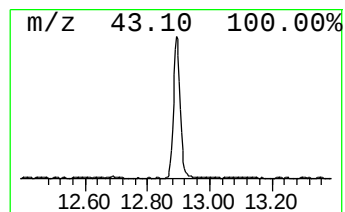
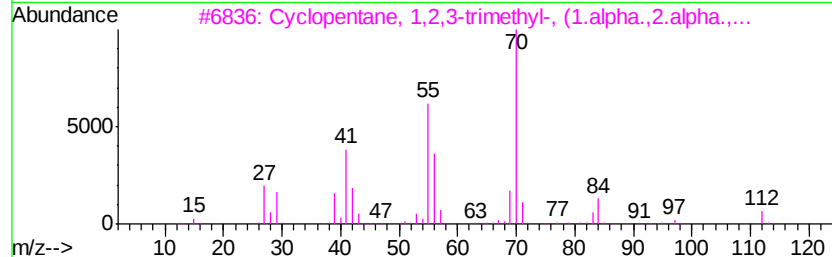
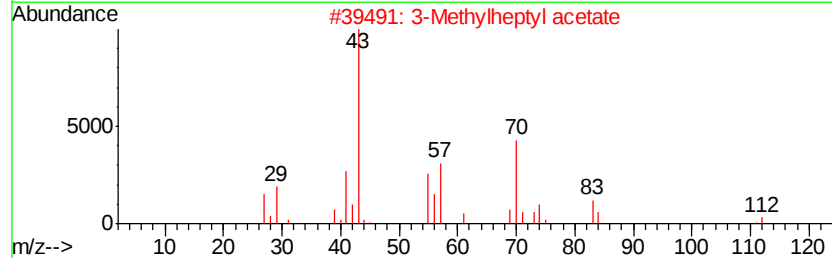
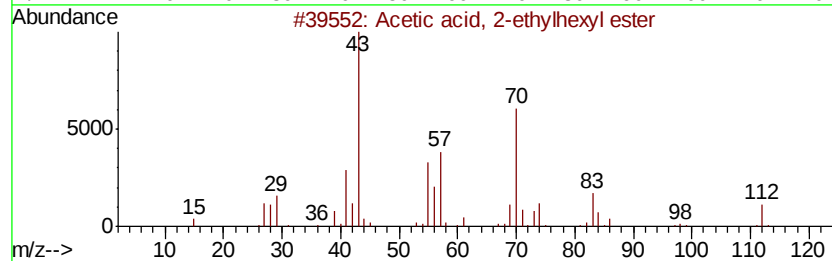
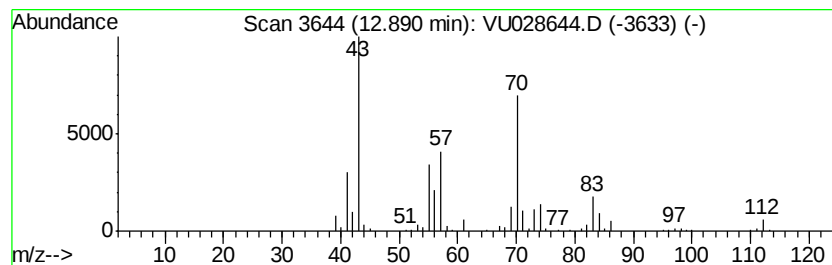
Instrument :  
MSVOA\_U  
ClientSampleId :  
GROUND-WATER

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

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Peak Number 3 Acetic acid, 2-ethylhexyl e... Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------------|-------------|------|------|
| 12.89   | 22.72 ug/l                          | 212541       | 1,4-Dichlorobenzene-d4 | 11.48       |      |      |
| Hit# of | 5                                   | Tentative ID | MW                     | MolForm     | CAS# | Qual |
| 1       | Acetic acid, 2-ethylhexyl ester     | 172          | C10H20O2               | 000103-09-3 | 90   |      |
| 2       | 3-Methylheptyl acetate              | 172          | C10H20O2               | 072218-58-7 | 90   |      |
| 3       | Cyclopentane, 1,2,3-trimethyl-, ... | 112          | C8H16                  | 002613-69-6 | 76   |      |
| 4       | 1-Octene                            | 112          | C8H16                  | 000111-66-0 | 43   |      |
| 5       | Cyclopentane, 1,2,4-trimethyl-, ... | 112          | C8H16                  | 004850-28-6 | 43   |      |



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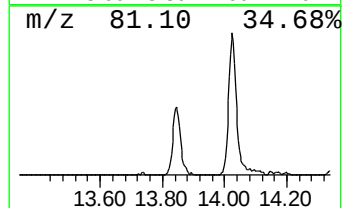
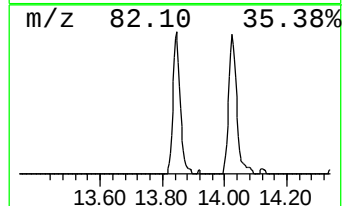
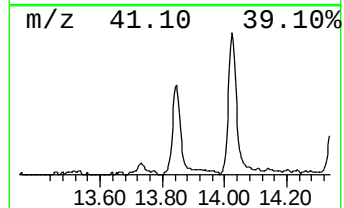
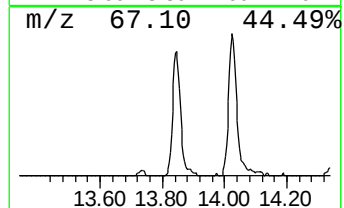
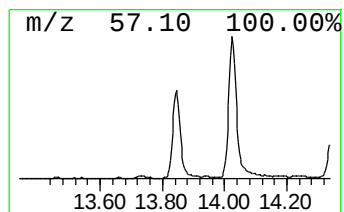
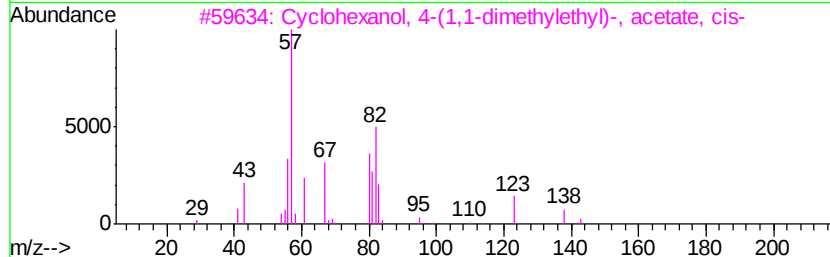
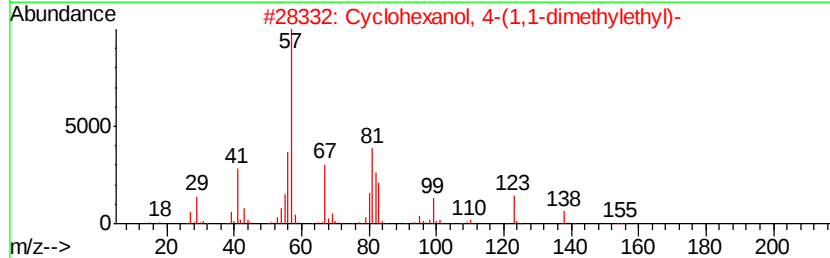
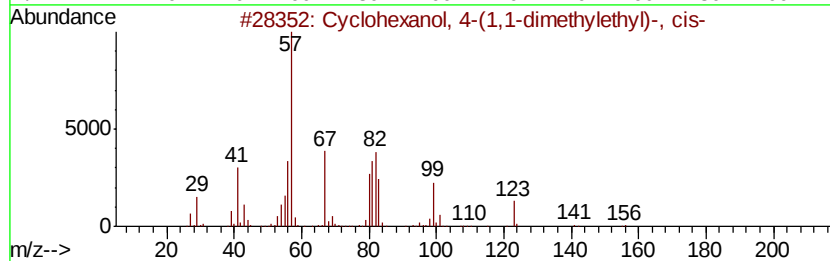
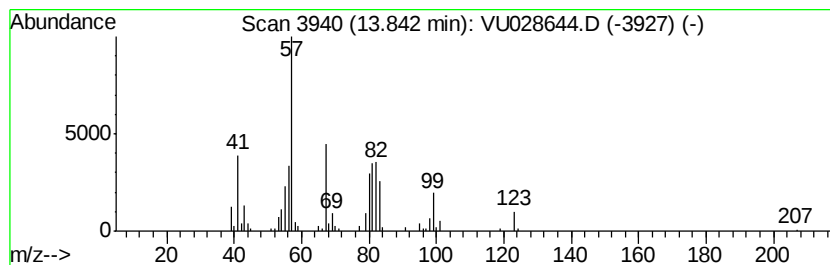
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Peak Number 4 Cyclohexanol, 4-(1,1-dimeth... Concentration Rank 6

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.84   | 10.74 ug/l | 100423                              | 1,4-Dichlorobenzene-d4 | 11.48          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Cyclohexanol, 4-(1,1-dimethyleth... | 156 C10H20O            | 000937-05-3 91 |
| 2       |            | Cyclohexanol, 4-(1,1-dimethyleth... | 156 C10H20O            | 000098-52-2 53 |
| 3       |            | Cyclohexanol, 4-(1,1-dimethyleth... | 198 C12H22O2           | 010411-92-4 50 |
| 4       |            | 4-tert-Butylcyclohexyl acetate      | 198 C12H22O2           | 032210-23-4 50 |
| 5       |            | Cyclohexanol, 2-(1,1-dimethyleth... | 156 C10H20O            | 013491-79-7 47 |



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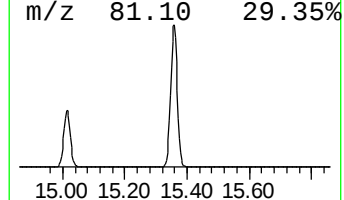
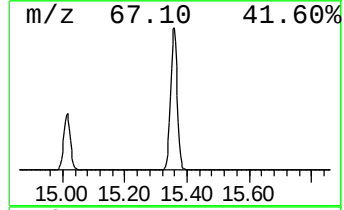
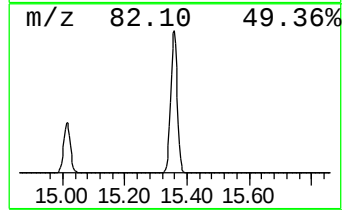
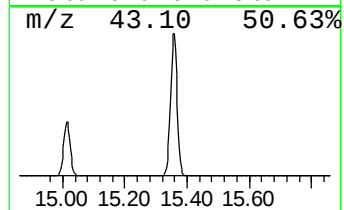
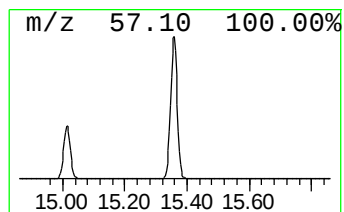
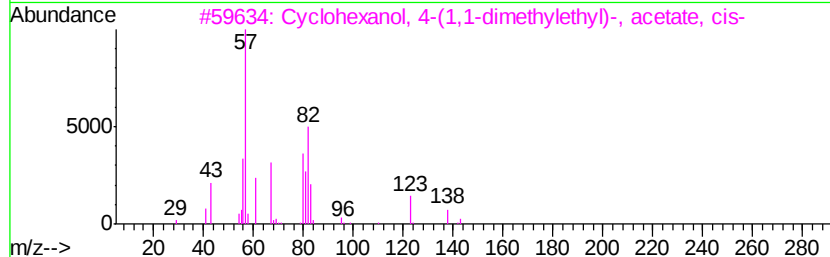
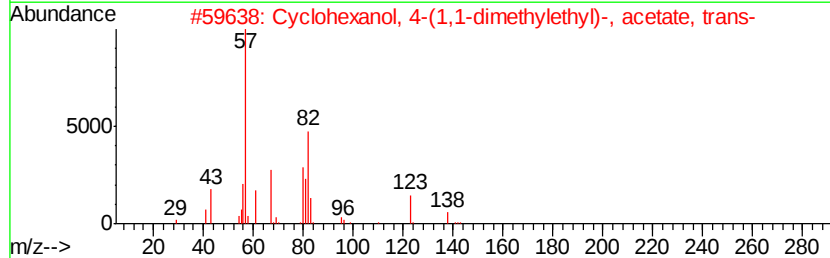
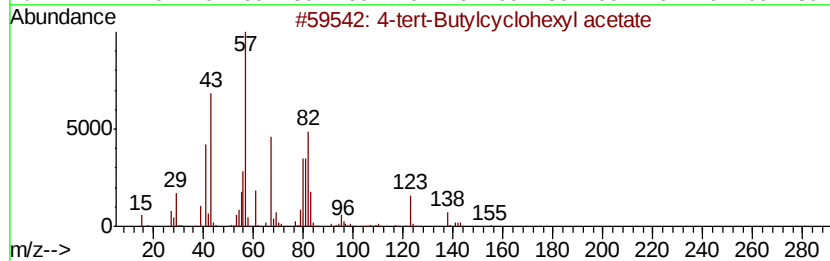
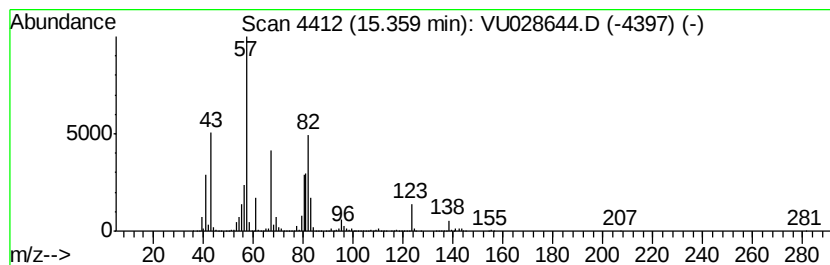
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 4-tert-Butylcyclohexyl acetate Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.36 | 887.51 ug/l | 8301750 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 4-tert-Butylcyclohexyl acetate      | 198 | C12H22O2 | 032210-23-4 | 91   |
| 2    |    | Cyclohexanol, 4-(1,1-dimethyleth... | 198 | C12H22O2 | 001900-69-2 | 83   |
| 3    |    | Cyclohexanol, 4-(1,1-dimethyleth... | 198 | C12H22O2 | 010411-92-4 | 58   |
| 4    |    | Cyclohexanol, 4-(1,1-dimethyleth... | 156 | C10H20O  | 000098-52-2 | 50   |
| 5    |    | Cyclohexanol, 2-(1,1-dimethyleth... | 156 | C10H20O  | 013491-79-7 | 50   |



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ClientSampleId :  
GROUND-WATER

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Heptanone          | 9.92  | 12.6    | ug/l  | 150938   | 3                     | 9.09  | 598916 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 9.6     | ug/l  | 89548    | 4                     | 11.48 | 467698 | 50.0 |
| Acetic acid, 2-et... | 12.89 | 22.7    | ug/l  | 212541   | 4                     | 11.48 | 467698 | 50.0 |
| Cyclohexanol, 4-(... | 13.84 | 10.7    | ug/l  | 100423   | 4                     | 11.48 | 467698 | 50.0 |
| 4-tert-Butylcyclo... | 15.36 | 887.5   | ug/l  | 8301750  | 4                     | 11.48 | 467698 | 50.0 |