

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041323\  
 Data File : VX035039.D  
 Acq On : 12 Apr 2023 12:16  
 Operator : JC/MD  
 Sample : 02288-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 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\_X\Method\82X032923W.M  
 Title : SW846 8260

Signal : TIC: VX035039.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         | 1.453       | 56            | 60          | 74           | rBV      | 287790         | 365258        | 13.99%          | 2.129%        |
| 2         | 2.185       | 157           | 180         | 208          | rBV2     | 308740         | 2610615       | 100.00%         | 15.217%       |
| 3         | 2.392       | 208           | 214         | 230          | rVB      | 106382         | 235411        | 9.02%           | 1.372%        |
| 4         | 2.605       | 236           | 249         | 273          | rVB2     | 18892          | 120295        | 4.61%           | 0.701%        |
| 5         | 3.611       | 406           | 414         | 422          | rBV2     | 18092          | 43483         | 1.67%           | 0.253%        |
| 6         | 4.489       | 548           | 558         | 566          | rBV      | 83319          | 230785        | 8.84%           | 1.345%        |
| 7         | 4.568       | 566           | 571         | 587          | rVV      | 30498          | 92036         | 3.53%           | 0.536%        |
| 8         | 4.715       | 587           | 595         | 619          | rVB2     | 42835          | 129383        | 4.96%           | 0.754%        |
| 9         | 5.038       | 633           | 648         | 686          | rBV2     | 272910         | 1587157       | 60.80%          | 9.252%        |
| 10        | 5.385       | 693           | 705         | 720          | rVV2     | 201097         | 596674        | 22.86%          | 3.478%        |
| 11        | 5.550       | 721           | 732         | 748          | rVB2     | 294381         | 837644        | 32.09%          | 4.883%        |
| 12        | 5.958       | 788           | 799         | 812          | rBV      | 190246         | 519938        | 19.92%          | 3.031%        |
| 13        | 6.763       | 922           | 931         | 947          | rBV      | 457174         | 1108363       | 42.46%          | 6.461%        |
| 14        | 7.123       | 982           | 990         | 1002         | rBV      | 104085         | 237019        | 9.08%           | 1.382%        |
| 15        | 7.245       | 1002          | 1010        | 1028         | rBV2     | 54239          | 206428        | 7.91%           | 1.203%        |
| 16        | 8.647       | 1233          | 1240        | 1248         | rBV      | 966202         | 1509142       | 57.81%          | 8.797%        |
| 17        | 8.720       | 1248          | 1252        | 1259         | rVB      | 37844          | 62542         | 2.40%           | 0.365%        |
| 18        | 9.275       | 1333          | 1343        | 1350         | rBV      | 1304056        | 2034191       | 77.92%          | 11.857%       |
| 19        | 9.342       | 1350          | 1354        | 1366         | rVB      | 60929          | 95191         | 3.65%           | 0.555%        |
| 20        | 9.519       | 1378          | 1383        | 1392         | rBV      | 41753          | 65707         | 2.52%           | 0.383%        |
| 21        | 10.055      | 1465          | 1471        | 1489         | rVB      | 976817         | 1319231       | 50.53%          | 7.690%        |
| 22        | 10.299      | 1505          | 1511        | 1520         | rBV      | 224663         | 310685        | 11.90%          | 1.811%        |
| 23        | 10.586      | 1553          | 1558        | 1563         | rBV      | 73930          | 117703        | 4.51%           | 0.686%        |
| 24        | 10.640      | 1563          | 1567        | 1573         | rVB      | 149181         | 201035        | 7.70%           | 1.172%        |
| 25        | 11.079      | 1634          | 1639        | 1654         | rVB      | 774151         | 1013556       | 38.82%          | 5.908%        |
| 26        | 11.750      | 1746          | 1749        | 1757         | rVB      | 36542          | 51587         | 1.98%           | 0.301%        |
| 27        | 12.018      | 1788          | 1793        | 1801         | rBV      | 929216         | 1214882       | 46.54%          | 7.082%        |
| 28        | 12.219      | 1821          | 1826        | 1827         | rBV      | 70754          | 82527         | 3.16%           | 0.481%        |
| 29        | 12.244      | 1827          | 1830        | 1840         | rVV      | 103890         | 157026        | 6.01%           | 0.915%        |

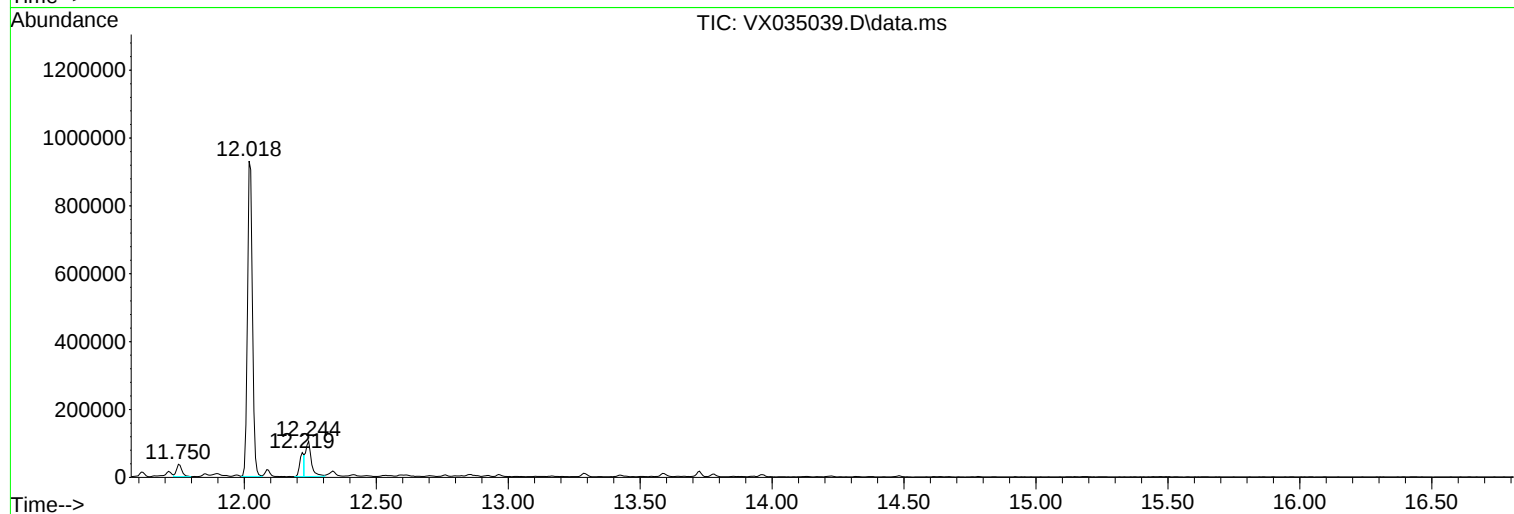
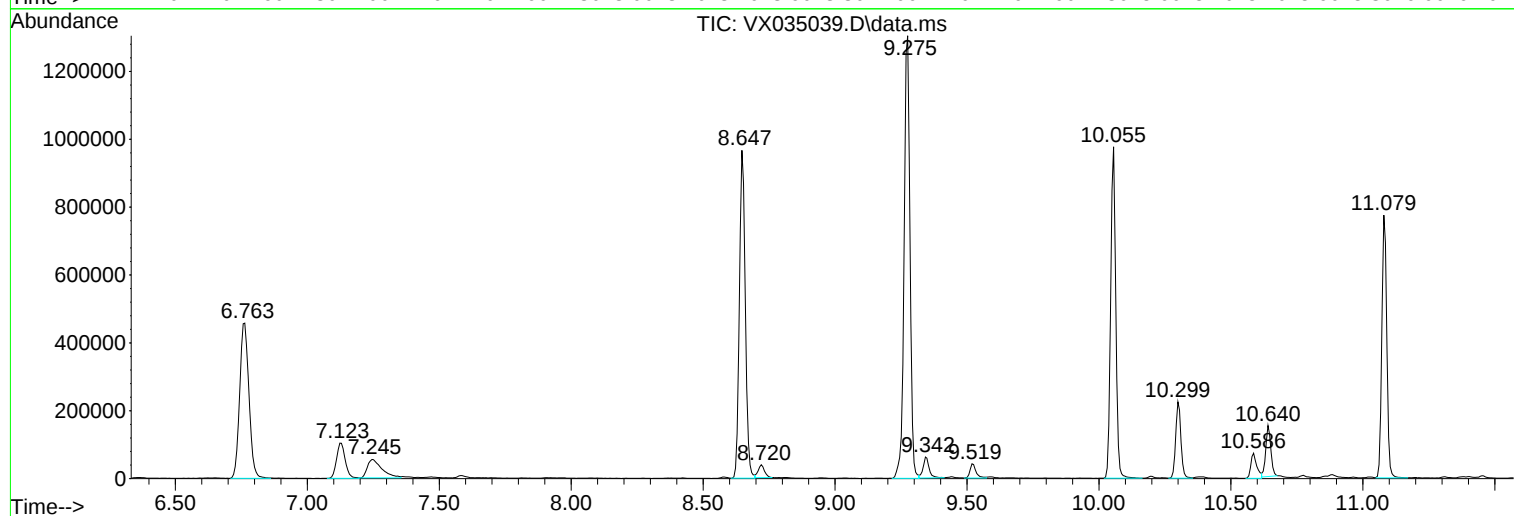
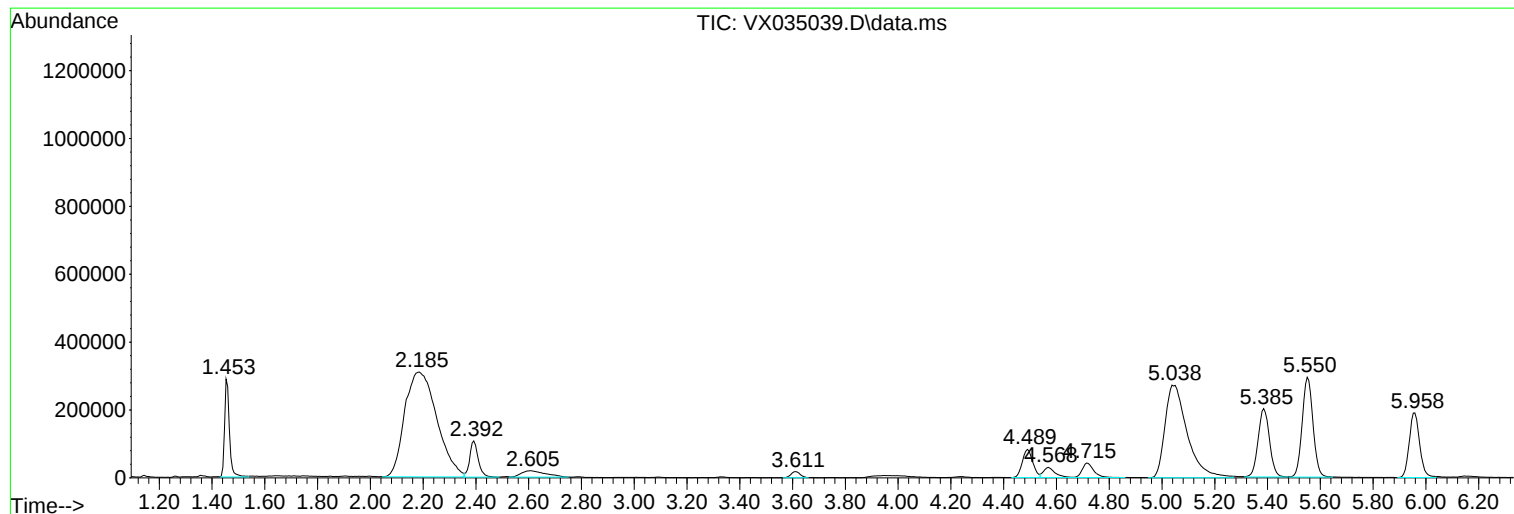
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GROUND-WATER

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032923W.M  
Quant Title : SW846 8260

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



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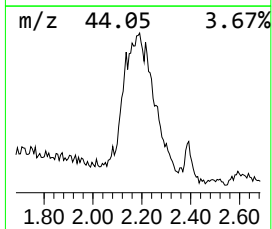
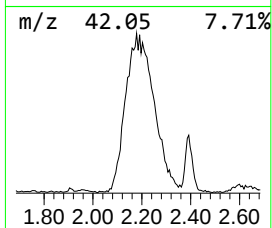
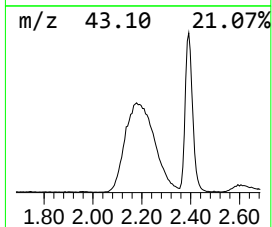
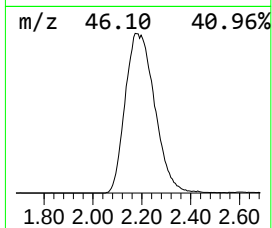
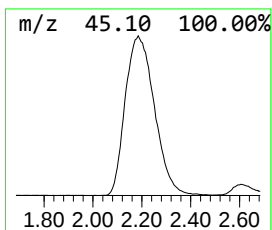
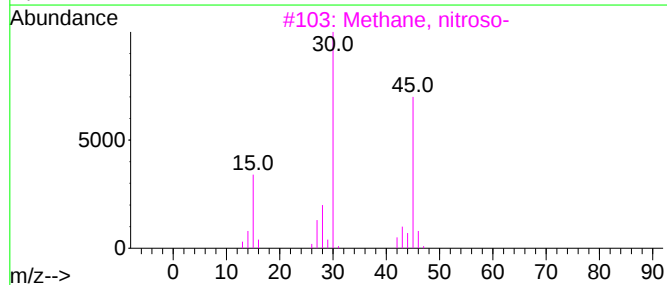
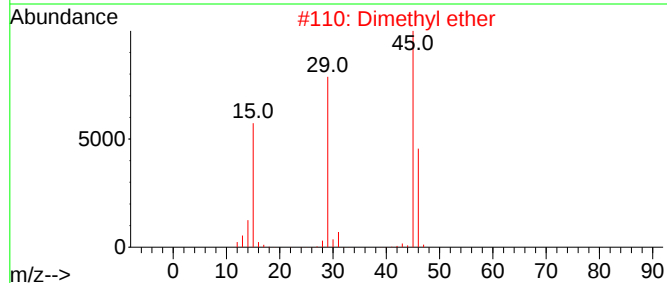
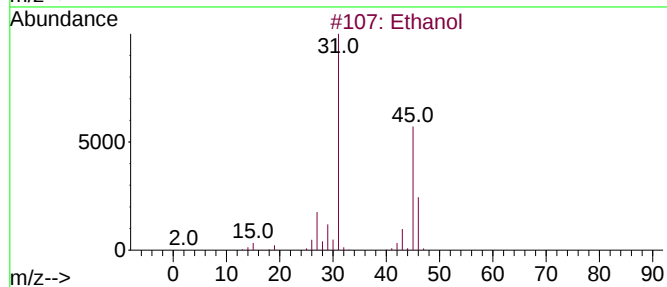
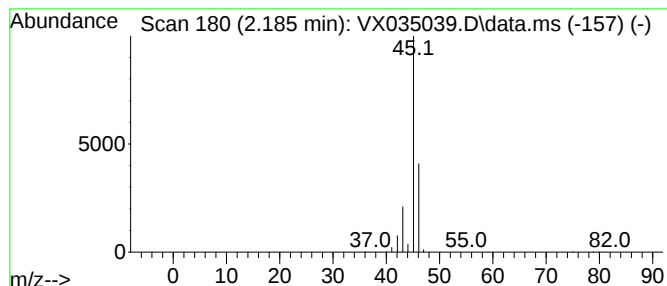
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Peak Number 2 Ethanol Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 2.185 | 155.83 ug/l | 2610620 | Pentafluorobenzene | 5.550 |

| Hit# | of 5              | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-------------------|--------------|----|---------|-------------|------|
| 1    | Ethanol           |              | 46 | C2H6O   | 000064-17-5 | 64   |
| 2    | Dimethyl ether    |              | 46 | C2H6O   | 000115-10-6 | 9    |
| 3    | Methane, nitroso- |              | 45 | CH3NO   | 000865-40-7 | 4    |
| 4    | Formic acid       |              | 46 | CH2O2   | 000064-18-6 | 4    |
| 5    | Oxalic acid       |              | 90 | C2H2O4  | 000144-62-7 | 4    |



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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GROUND-WATER

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032923W.M  
Quant Title : SW846 8260

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

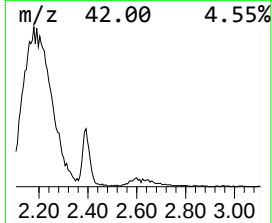
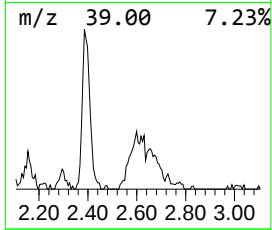
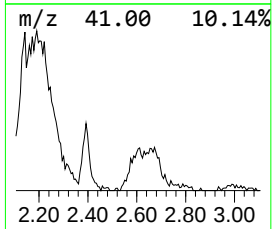
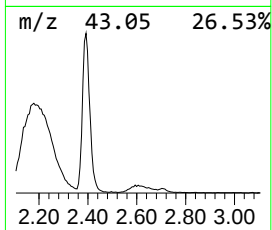
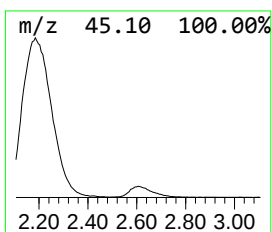
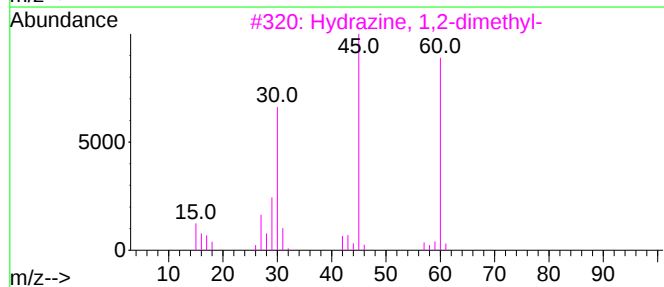
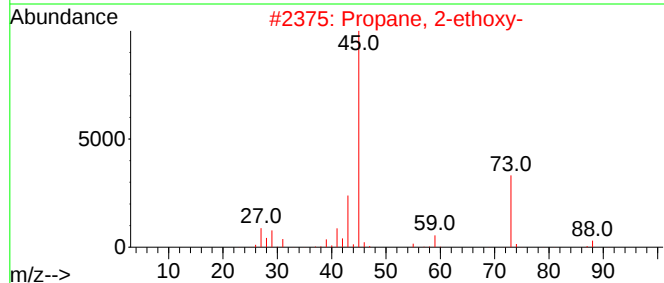
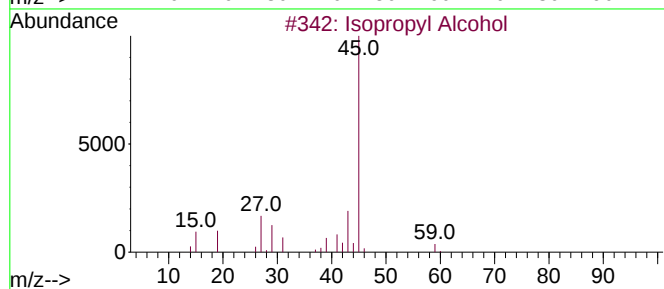
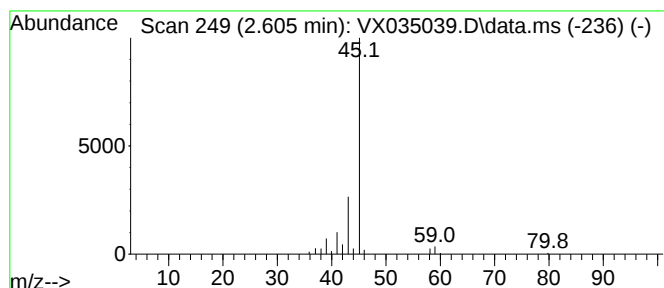
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Peak Number 3 Isopropyl Alcohol Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.605 | 7.18 ug/l | 120295 | Pentafluorobenzene | 5.550 |

| Hit# of 5 | Tentative ID                     | MW | MolForm | CAS#        | Qual |
|-----------|----------------------------------|----|---------|-------------|------|
| 1         | Isopropyl Alcohol                | 60 | C3H8O   | 000067-63-0 | 78   |
| 2         | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 9    |
| 3         | Hydrazine, 1,2-dimethyl-         | 60 | C2H8N2  | 000540-73-8 | 9    |
| 4         | Formic acid, 1-methylethyl ester | 88 | C4H8O2  | 000625-55-8 | 9    |
| 5         | Hydrazine, propyl-               | 74 | C3H10N2 | 005039-61-2 | 9    |



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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GROUND-WATER

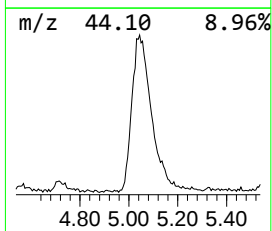
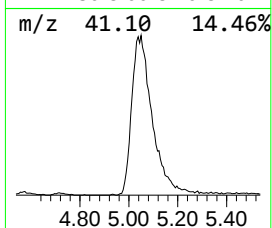
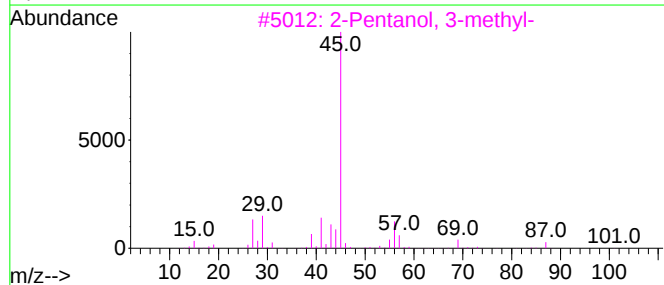
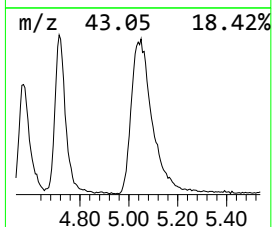
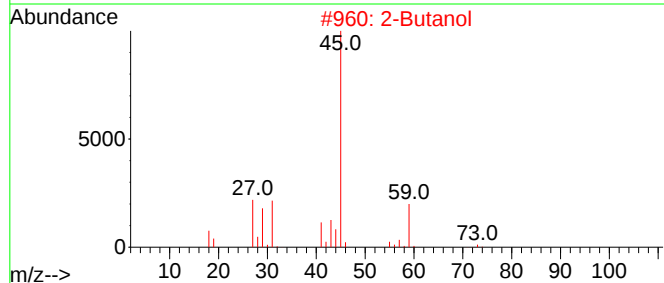
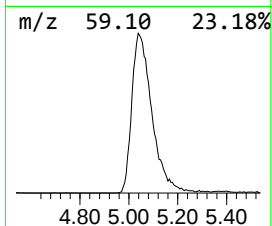
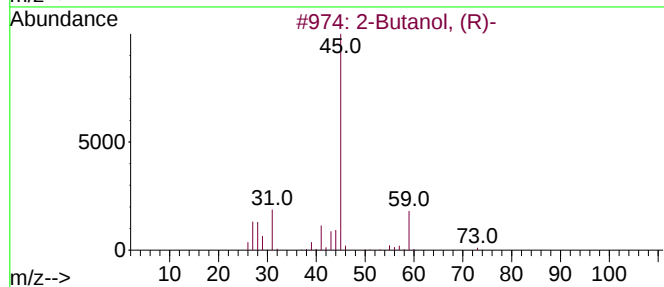
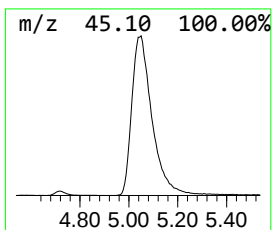
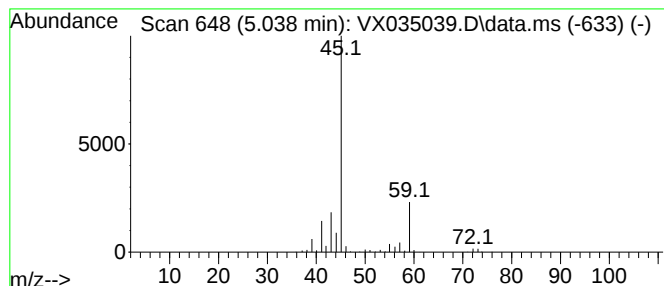
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032923W.M  
Quant Title : SW846 8260

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

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Peak Number 4 2-Butanol, (R)- Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD   | R.T.  |
|-------|------------|---------|--------------------|-------|
| 5.038 | 94.74 ug/l | 1587160 | Pentafluorobenzene | 5.550 |

| Hit# | of                    | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-----------------------|---|--------------|-----|---------|-------------|------|
| 1    | 2-Butanol, (R)-       |   |              | 74  | C4H10O  | 014898-79-4 | 83   |
| 2    | 2-Butanol             |   |              | 74  | C4H10O  | 000078-92-2 | 83   |
| 3    | 2-Pentanol, 3-methyl- |   |              | 102 | C6H14O  | 000565-60-6 | 59   |
| 4    | 2-Hexanol, (S)-       |   |              | 102 | C6H14O  | 052019-78-0 | 38   |
| 5    | 2-Hexanol             |   |              | 102 | C6H14O  | 000626-93-7 | 38   |



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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GROUND-WATER

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032923W.M  
Quant Title : SW846 8260

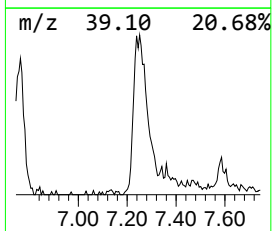
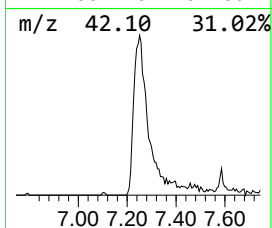
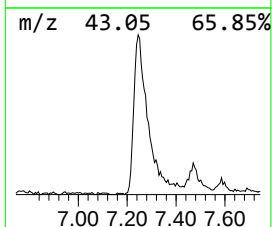
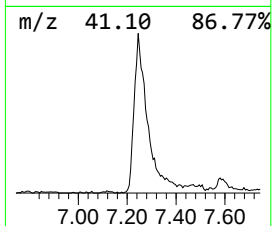
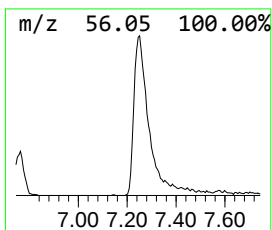
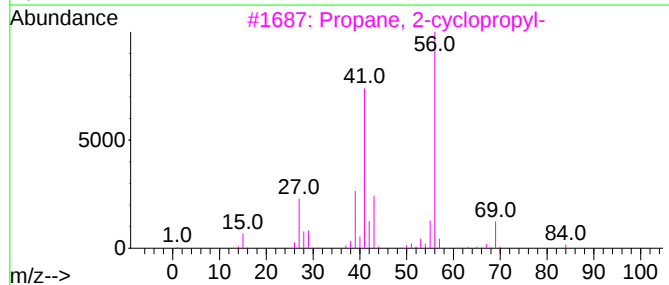
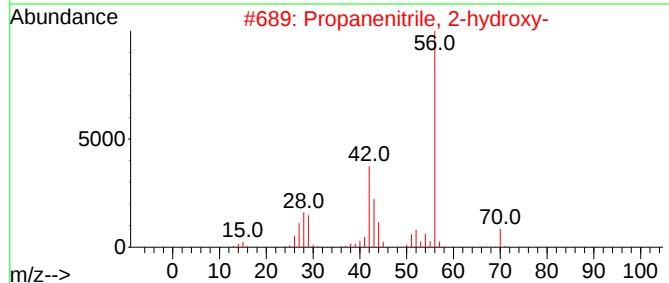
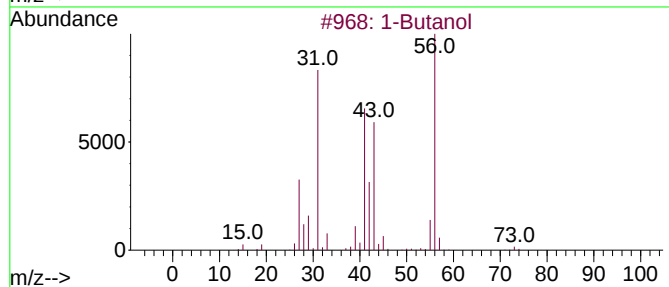
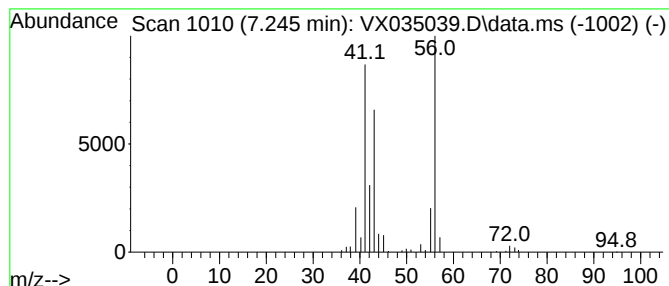
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 1-Butanol Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 7.245 | 9.31 ug/l | 206428 | 1,4-Difluorobenzene | 6.763 |

| Hit# | of | 5 | Tentative ID               | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|----|---------|-------------|------|
| 1    |    |   | 1-Butanol                  | 74 | C4H10O  | 000071-36-3 | 86   |
| 2    |    |   | Propanenitrile, 2-hydroxy- | 71 | C3H5NO  | 000078-97-7 | 50   |
| 3    |    |   | Propane, 2-cyclopropyl-    | 84 | C6H12   | 003638-35-5 | 40   |
| 4    |    |   | Oxirane, (1-methylethyl)-  | 86 | C5H10O  | 001438-14-8 | 39   |
| 5    |    |   | Cyclobutane                | 56 | C4H8    | 000287-23-0 | 9    |



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GROUND-WATER

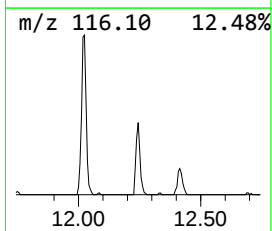
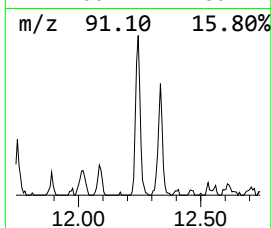
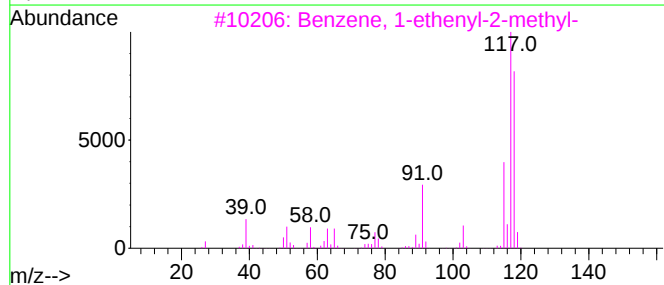
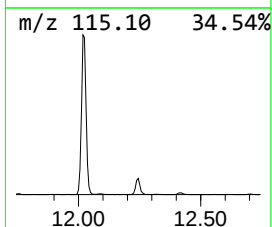
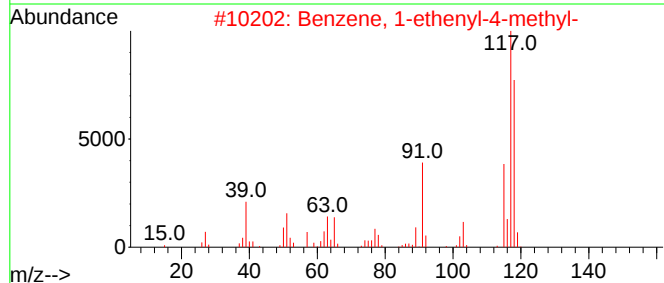
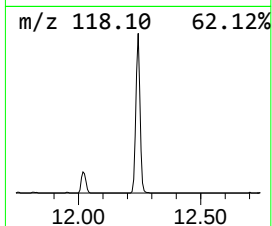
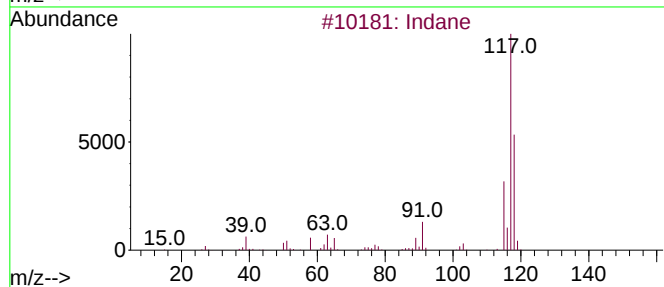
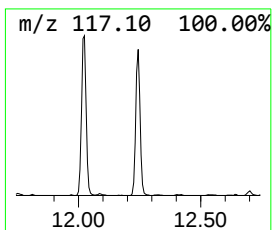
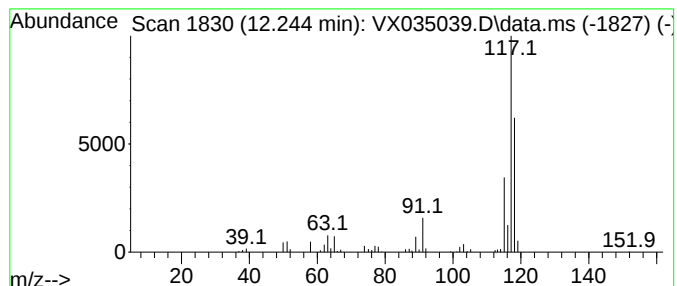
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032923W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Indane Concentration Rank 6

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.244 | 6.46 ug/l | 157026 | 1,4-Dichlorobenzene-d4 | 12.024 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Indane                              | 118 | C9H10   | 000496-11-7  | 91   |
| 2    |    |   | Benzene, 1-ethenyl-4-methyl-        | 118 | C9H10   | 000622-97-9  | 83   |
| 3    |    |   | Benzene, 1-ethenyl-2-methyl-        | 118 | C9H10   | 000611-15-4  | 81   |
| 4    |    |   | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10   | 1000191-13-7 | 74   |
| 5    |    |   | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10   | 055337-80-9  | 74   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041323\  
Data File : VX035039.D  
Acq On : 12 Apr 2023 12:16  
Operator : JC/MD  
Sample : 02288-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GROUND-WATER

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032923W.M  
Quant Title : SW846 8260

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

| TIC Top Hit name  | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|-------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                   |        |         |       |          | #                     | RT     | Resp    | Conc |
| Ethanol           | 2.185  | 155.8   | ug/l  | 2610620  | 1                     | 5.550  | 837644  | 50.0 |
| Isopropyl Alcohol | 2.605  | 7.2     | ug/l  | 120295   | 1                     | 5.550  | 837644  | 50.0 |
| 2-Butanol, (R)-   | 5.038  | 94.7    | ug/l  | 1587160  | 1                     | 5.550  | 837644  | 50.0 |
| 1-Butanol         | 7.245  | 9.3     | ug/l  | 206428   | 2                     | 6.763  | 1108360 | 50.0 |
| Indane            | 12.244 | 6.5     | ug/l  | 157026   | 4                     | 12.024 | 1214880 | 50.0 |