

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122623\  
 Data File : VU057272.D  
 Acq On : 27 Dec 2023 08:11  
 Operator : MD/SY  
 Sample : 05998-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F7A73

Quant Time: Dec 28 00:55:20 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 27 01:05:12 2023  
 Response via : Initial Calibration

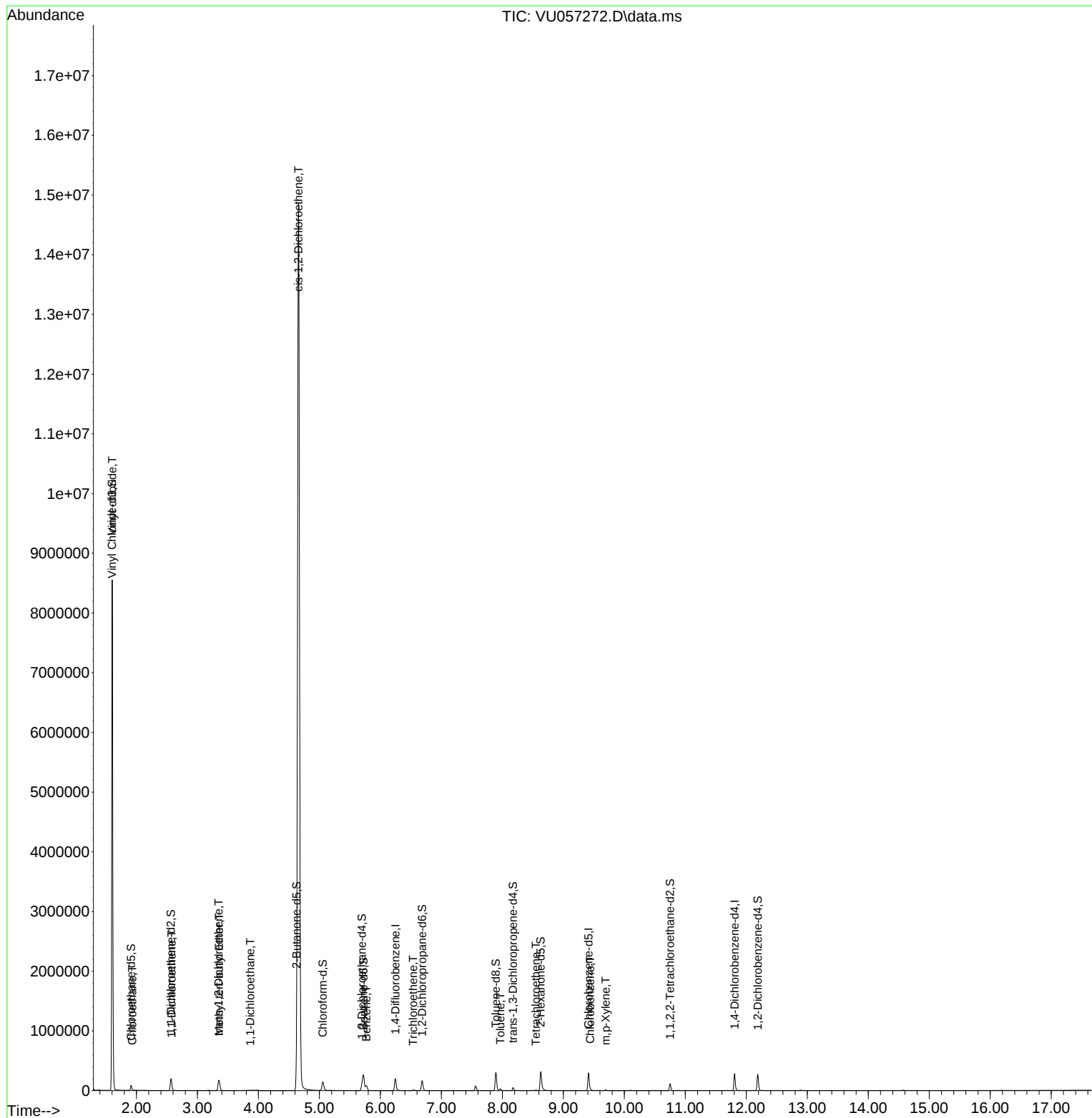
| Compound                      | R.T.   | QIon           | Response | Conc    | Units     | Dev(Min) |
|-------------------------------|--------|----------------|----------|---------|-----------|----------|
| -----                         |        |                |          |         |           |          |
| Internal Standards            |        |                |          |         |           |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114            | 162671   | 5.000   | ug/L      | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117            | 163817   | 5.000   | ug/L      | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152            | 74344    | 5.000   | ug/L      | 0.00     |
| System Monitoring Compounds   |        |                |          |         |           |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65             | 123273   | 7.929   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 40 - 130 | Recovery | =       | 158.600%# |          |
| 7) Chloroethane-d5            | 1.911  | 69             | 61776    | 4.827   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 130 | Recovery | =       | 96.600%   |          |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65             | 32184    | 4.778   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 125 | Recovery | =       | 95.600%   |          |
| 20) 2-Butanone-d5             | 4.624  | 46             | 145158   | 59.462  | ug/L      | -0.02    |
| Spiked Amount                 | 50.000 | Range 40 - 130 | Recovery | =       | 118.920%  |          |
| 24) Chloroform-d              | 5.055  | 84             | 132607   | 4.416   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =       | 88.400%   |          |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65             | 65707    | 4.592   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =       | 91.800%   |          |
| 32) Benzene-d6                | 5.721  | 84             | 256420   | 4.564   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =       | 91.200%   |          |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67             | 79580    | 4.977   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 140 | Recovery | =       | 99.600%   |          |
| 41) Toluene-d8                | 7.891  | 98             | 206868   | 4.033   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =       | 80.600%   |          |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79             | 30131    | 4.527   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 55 - 130 | Recovery | =       | 90.600%   |          |
| 46) 2-Hexanone-d5             | 8.628  | 63             | 103230   | 45.553  | ug/L      | 0.00     |
| Spiked Amount                 | 50.000 | Range 45 - 130 | Recovery | =       | 91.100%   |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84             | 57070    | 5.016   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 120 | Recovery | =       | 100.400%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152            | 71111    | 4.445   | ug/L      | 0.00     |
| Spiked Amount                 | 5.000  | Range 80 - 120 | Recovery | =       | 89.000%   |          |
| Target Compounds              |        |                |          |         |           |          |
|                               |        |                |          |         | Qvalue    |          |
| 5) Vinyl chloride             | 1.602  | 62             | 5934527  | 417.313 | ug/L      | 98       |
| 8) Chloroethane               | 1.933  | 64             | 3574     | 0.396   | ug/L      | 90       |
| 12) 1,1-Dichloroethene        | 2.576  | 96             | 22054    | 1.813   | ug/L #    | 50       |
| 17) Methyl tert-butyl Ether   | 3.354  | 73             | 93643    | 3.626   | ug/L      | 96       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96             | 40179    | 3.388   | ug/L      | 92       |
| 19) 1,1-Dichloroethane        | 3.866  | 63             | 3164     | 0.134   | ug/L      | 96       |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96             | 7907446  | 605.439 | ug/L      | 96       |
| 33) Benzene                   | 5.769  | 78             | 84111    | 1.620   | ug/L      | 100      |
| 34) Trichloroethene           | 6.538  | 95             | 4356     | 0.287   | ug/L      | 87       |
| 42) Toluene                   | 7.965  | 91             | 21546    | 0.391   | ug/L      | 96       |
| 47) Tetrachloroethene         | 8.550  | 164            | 2253     | 0.207   | ug/L      | 77       |
| 51) Chlorobenzene             | 9.441  | 112            | 8499     | 0.237   | ug/L      | 90       |
| 53) m,p-Xylene                | 9.692  | 106            | 3747     | 0.165   | ug/L      | 82       |
| -----                         |        |                |          |         |           |          |

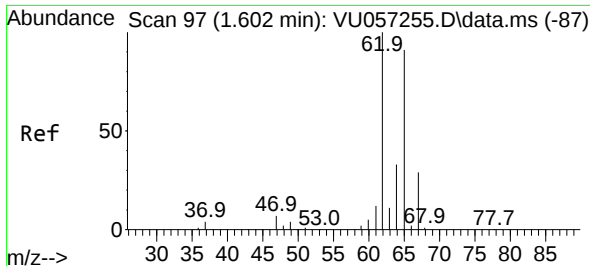
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122623\  
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ALS Vial : 45 Sample Multiplier: 1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122123WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Dec 27 01:05:12 2023  
Response via : Initial Calibration

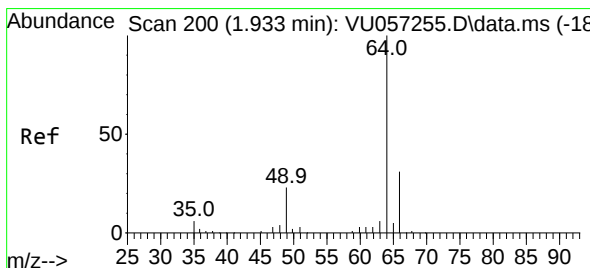
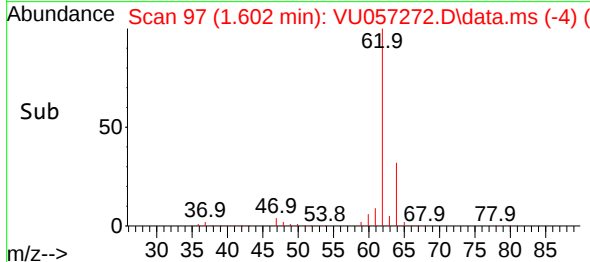
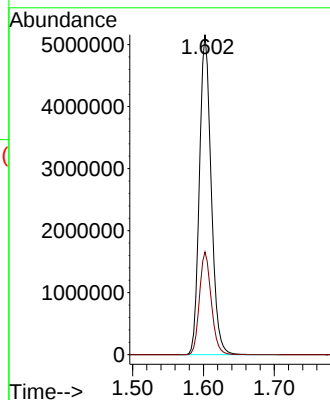
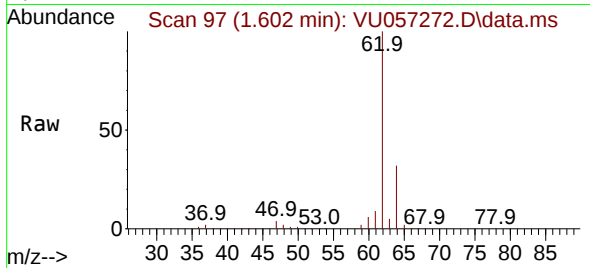




#5  
 Vinyl chloride  
 Concen: 417.313 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VU057272.D  
 Acq: 27 Dec 2023 08:11

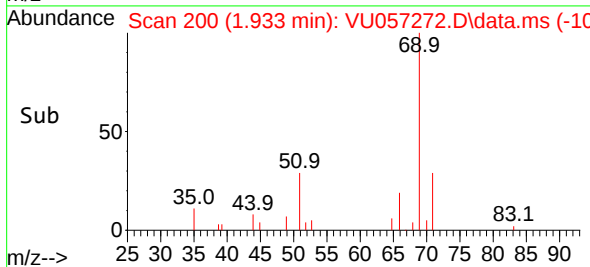
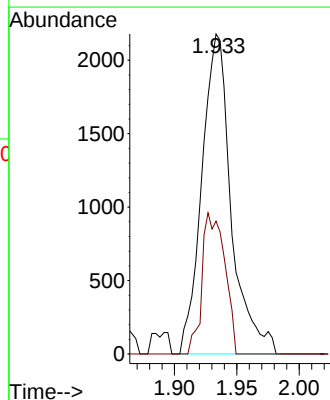
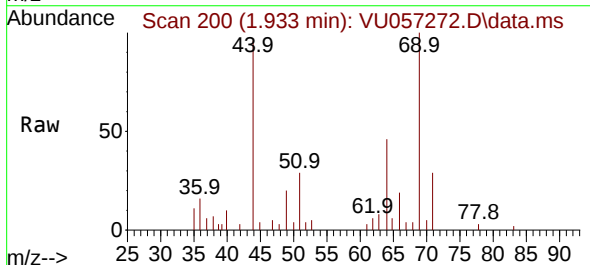
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F7A73

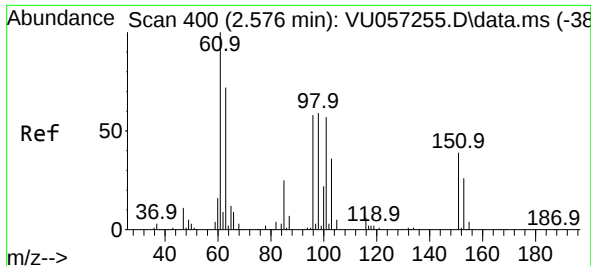
Tgt Ion: 62 Resp: 5934527  
 Ion Ratio Lower Upper  
 62 100  
 64 32.1 23.3 43.3



#8  
 Chloroethane  
 Concen: 0.396 ug/L  
 RT: 1.933 min Scan# 200  
 Delta R.T. 0.000 min  
 Lab File: VU057272.D  
 Acq: 27 Dec 2023 08:11

Tgt Ion: 64 Resp: 3574  
 Ion Ratio Lower Upper  
 64 100  
 66 36.4 21.6 40.2

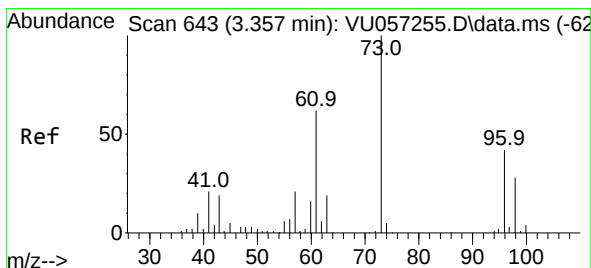
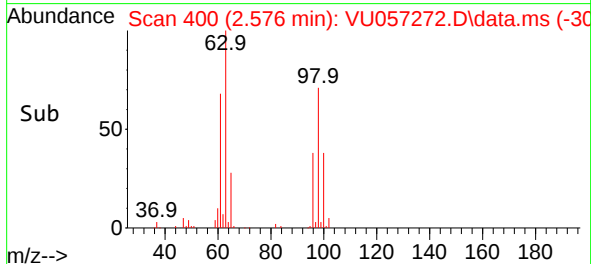
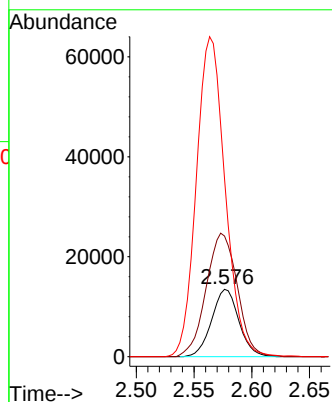
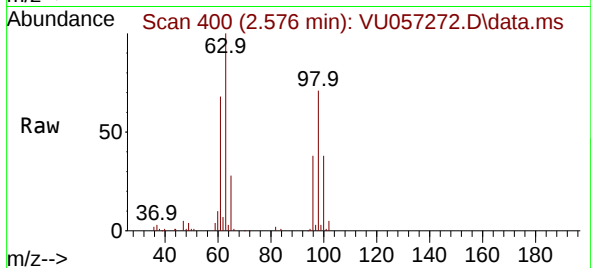




#12  
 1,1-Dichloroethene  
 Concen: 1.813 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU057272.D  
 Acq: 27 Dec 2023 08:11

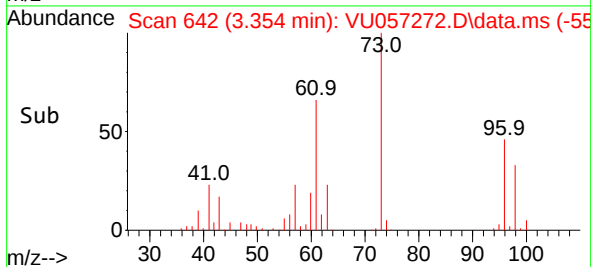
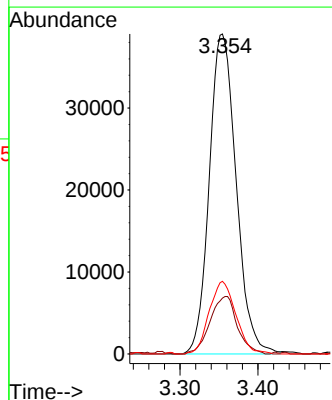
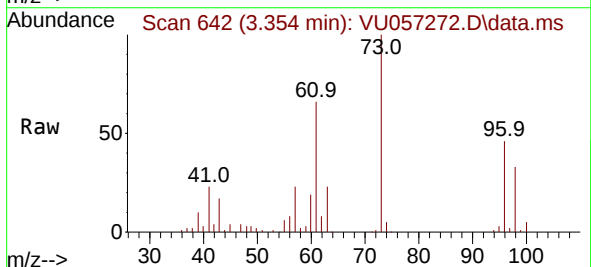
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F7A73

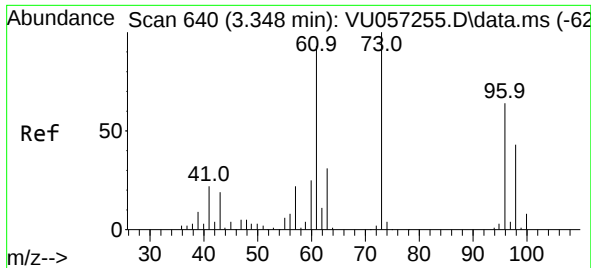
Tgt Ion: 96 Resp: 22054  
 Ion Ratio Lower Upper  
 96 100  
 61 179.1 119.6 222.0  
 63 264.2 96.2 178.8#



#17  
 Methyl tert-butyl Ether  
 Concen: 3.626 ug/L  
 RT: 3.354 min Scan# 642  
 Delta R.T. -0.003 min  
 Lab File: VU057272.D  
 Acq: 27 Dec 2023 08:11

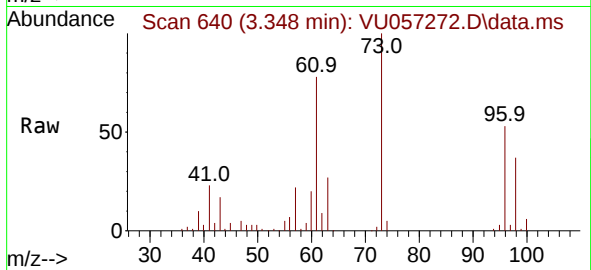
Tgt Ion: 73 Resp: 93643  
 Ion Ratio Lower Upper  
 73 100  
 43 18.2 15.4 23.0  
 57 22.5 16.2 24.2





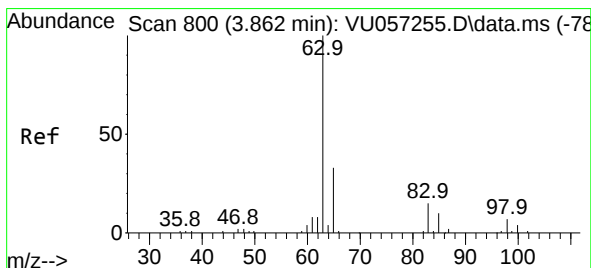
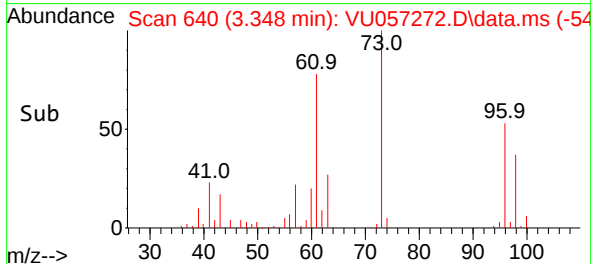
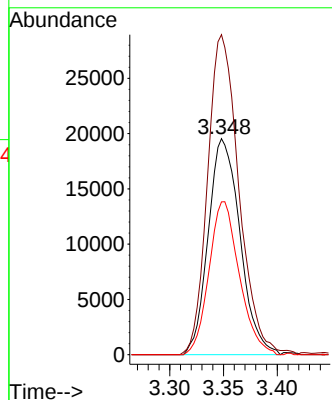
#18  
trans-1,2-Dichloroethene  
Concen: 3.388 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU057272.D  
Acq: 27 Dec 2023 08:11

Instrument :  
MSVOA\_U  
ClientSampleId :  
F7A73



Tgt Ion: 96 Resp: 40179

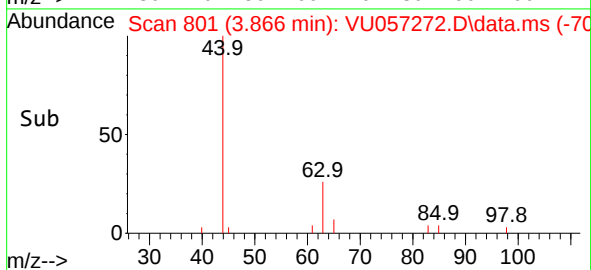
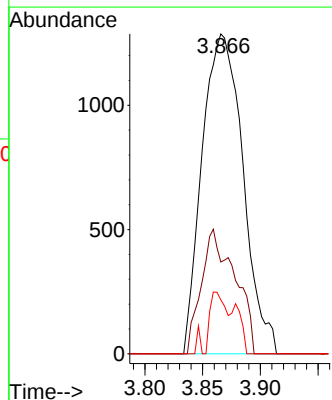
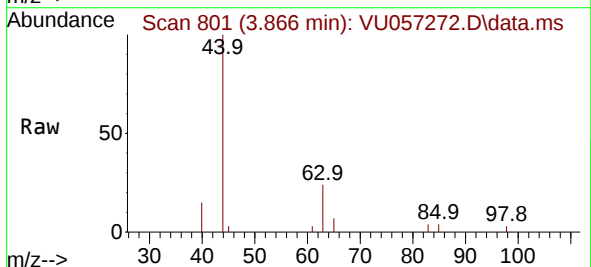
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 148.1 | 98.4  | 182.8 |
| 98  | 70.8  | 43.6  | 81.0  |

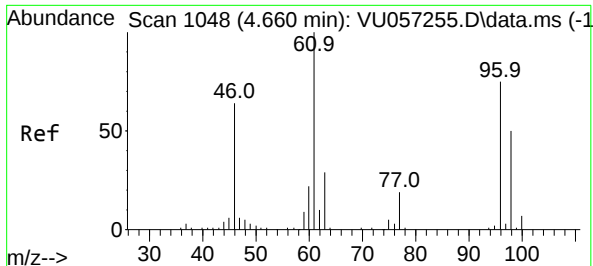


#19  
1,1-Dichloroethane  
Concen: 0.134 ug/L  
RT: 3.866 min Scan# 801  
Delta R.T. 0.003 min  
Lab File: VU057272.D  
Acq: 27 Dec 2023 08:11

Tgt Ion: 63 Resp: 3164

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 28.7  | 21.6  | 40.2  |
| 83  | 16.9  | 10.2  | 19.0  |





#22

cis-1,2-Dichloroethene

Concen: 605.439 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. -0.003 min

Lab File: VU057272.D

Acq: 27 Dec 2023 08:11

Instrument :

MSVOA\_U

ClientSampleId :

F7A73

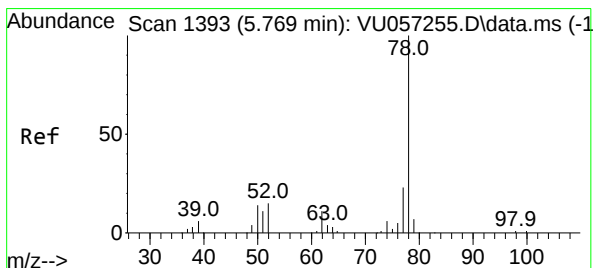
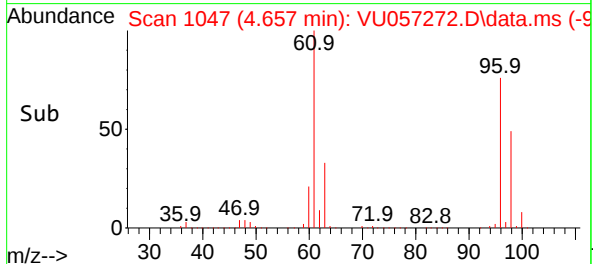
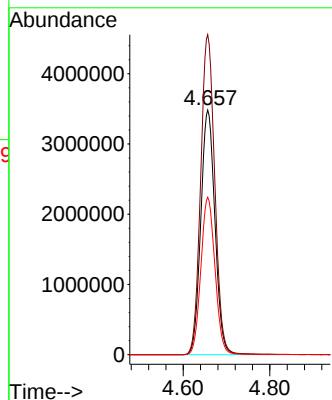
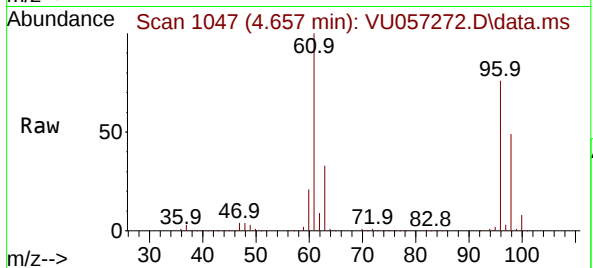
Tgt Ion: 96 Resp: 7907446

Ion Ratio Lower Upper

96 100

61 130.8 86.8 161.2

98 64.3 45.5 84.5



#33

Benzene

Concen: 1.620 ug/L

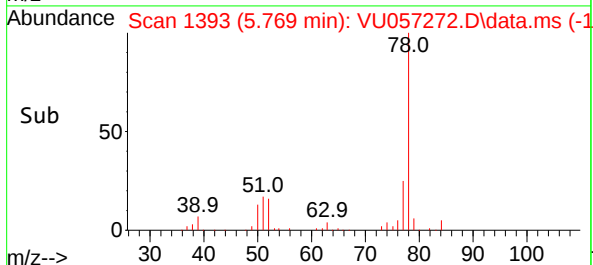
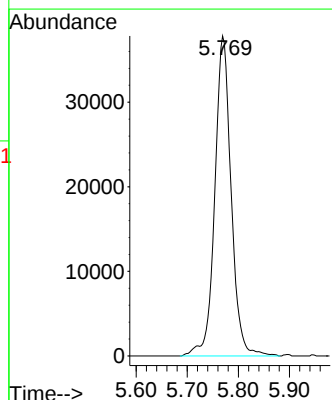
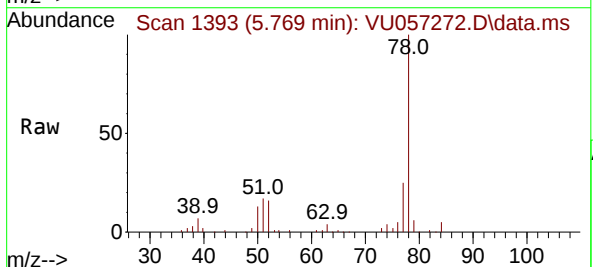
RT: 5.769 min Scan# 1393

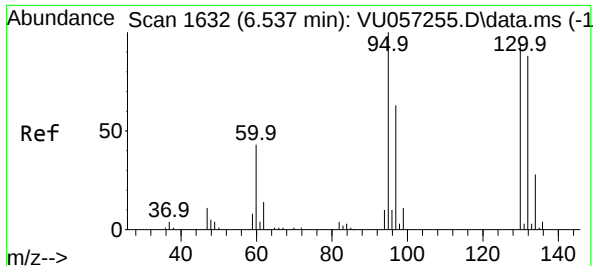
Delta R.T. 0.000 min

Lab File: VU057272.D

Acq: 27 Dec 2023 08:11

Tgt Ion: 78 Resp: 84111

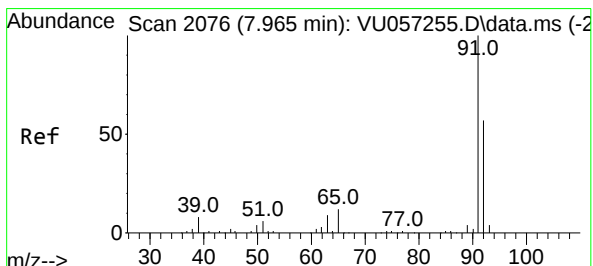
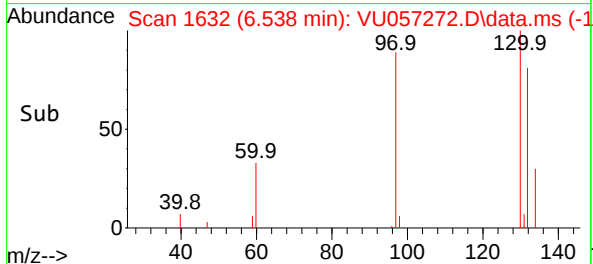
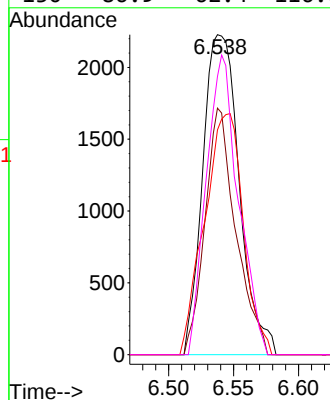
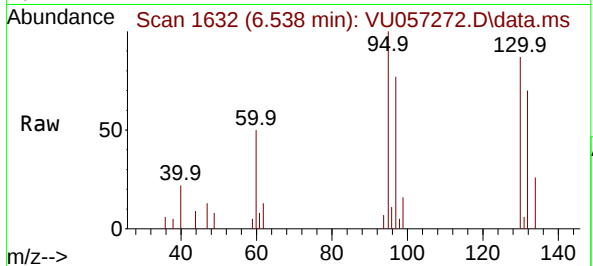




#34  
Trichloroethene  
Concen: 0.287 ug/L  
RT: 6.538 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU057272.D  
Acq: 27 Dec 2023 08:11

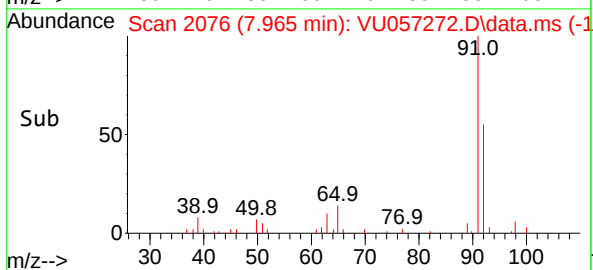
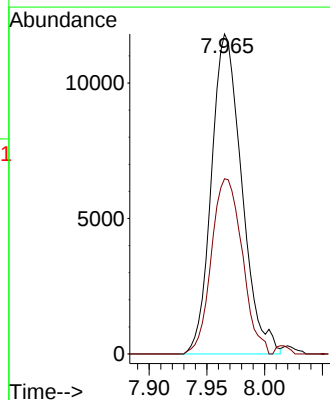
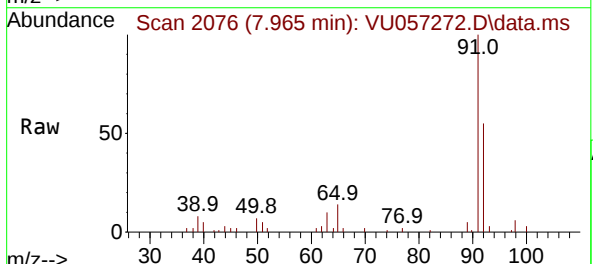
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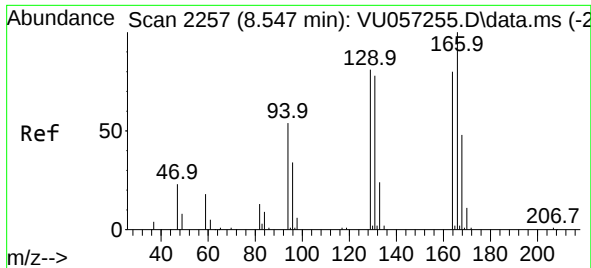
Tgt Ion: 95 Resp: 4356  
Ion Ratio Lower Upper  
95 100  
97 77.1 44.3 82.3  
132 70.2 62.6 116.2  
130 86.9 62.4 116.0



#42  
Toluene  
Concen: 0.391 ug/L  
RT: 7.965 min Scan# 2076  
Delta R.T. 0.000 min  
Lab File: VU057272.D  
Acq: 27 Dec 2023 08:11

Tgt Ion: 91 Resp: 21546  
Ion Ratio Lower Upper  
91 100  
92 54.8 40.5 75.1



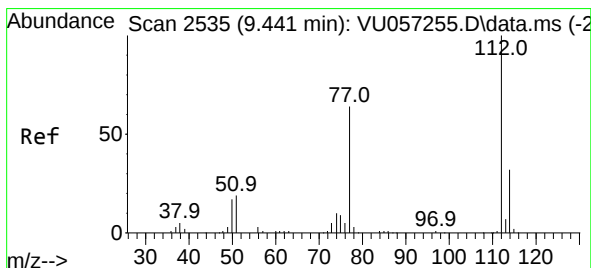
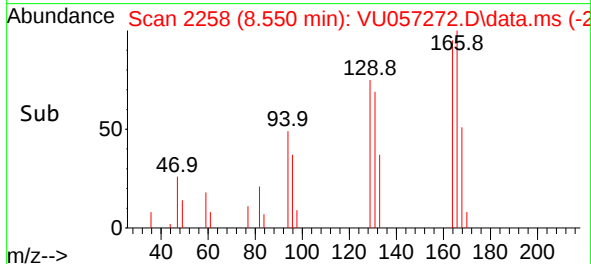
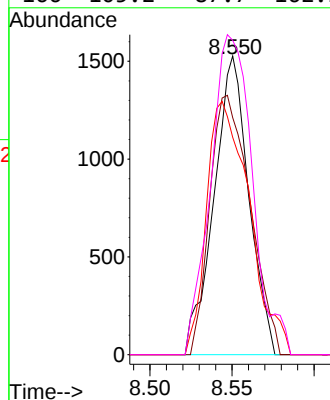
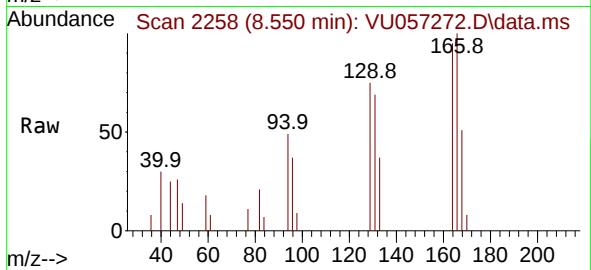


#47  
Tetrachloroethene  
Concen: 0.207 ug/L  
RT: 8.550 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU057272.D  
Acq: 27 Dec 2023 08:11

Instrument :  
MSVOA\_U  
ClientSampleId :  
F7A73

Tgt Ion:164 Resp: 2253

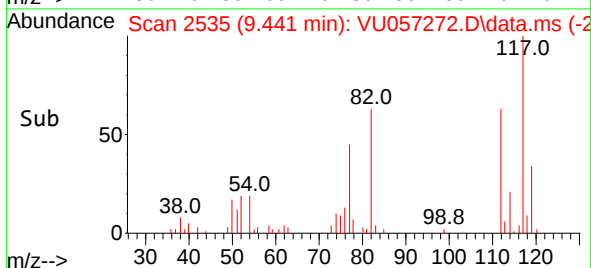
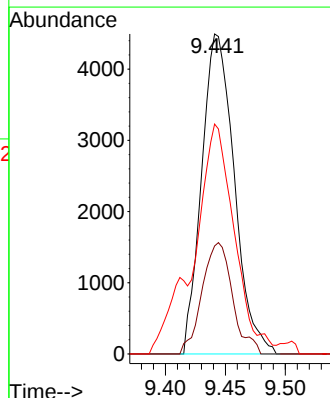
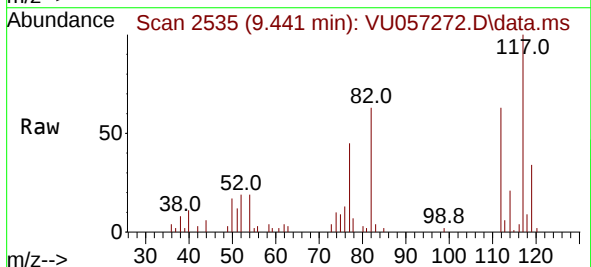
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 79.4  | 72.9  | 135.3 |
| 131 | 72.8  | 71.7  | 133.3 |
| 166 | 105.2 | 87.7  | 162.9 |

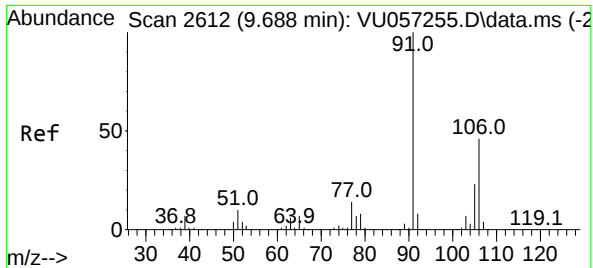


#51  
Chlorobenzene  
Concen: 0.237 ug/L  
RT: 9.441 min Scan# 2535  
Delta R.T. 0.000 min  
Lab File: VU057272.D  
Acq: 27 Dec 2023 08:11

Tgt Ion:112 Resp: 8499

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 31.0  | 22.7  | 42.1  |
| 77  | 76.1  | 52.2  | 78.2  |





#53  
 m,p-Xylene  
 Concen: 0.165 ug/L  
 RT: 9.692 min Scan# 20  
 Delta R.T. 0.003 min  
 Lab File: VU057272.D  
 Acq: 27 Dec 2023 08:11

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F7A73

Tgt Ion:106 Resp: 3747  
 Ion Ratio Lower Upper  
 106 100  
 91 192.5 154.5 286.9

