

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122123\  
 Data File : VU057146.D  
 Acq On : 21 Dec 2023 20:02  
 Operator : MD/SY  
 Sample : 05894-06  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BH3K6

Quant Time: Dec 21 23:33:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 21 23:30:13 2023  
 Response via : Initial Calibration

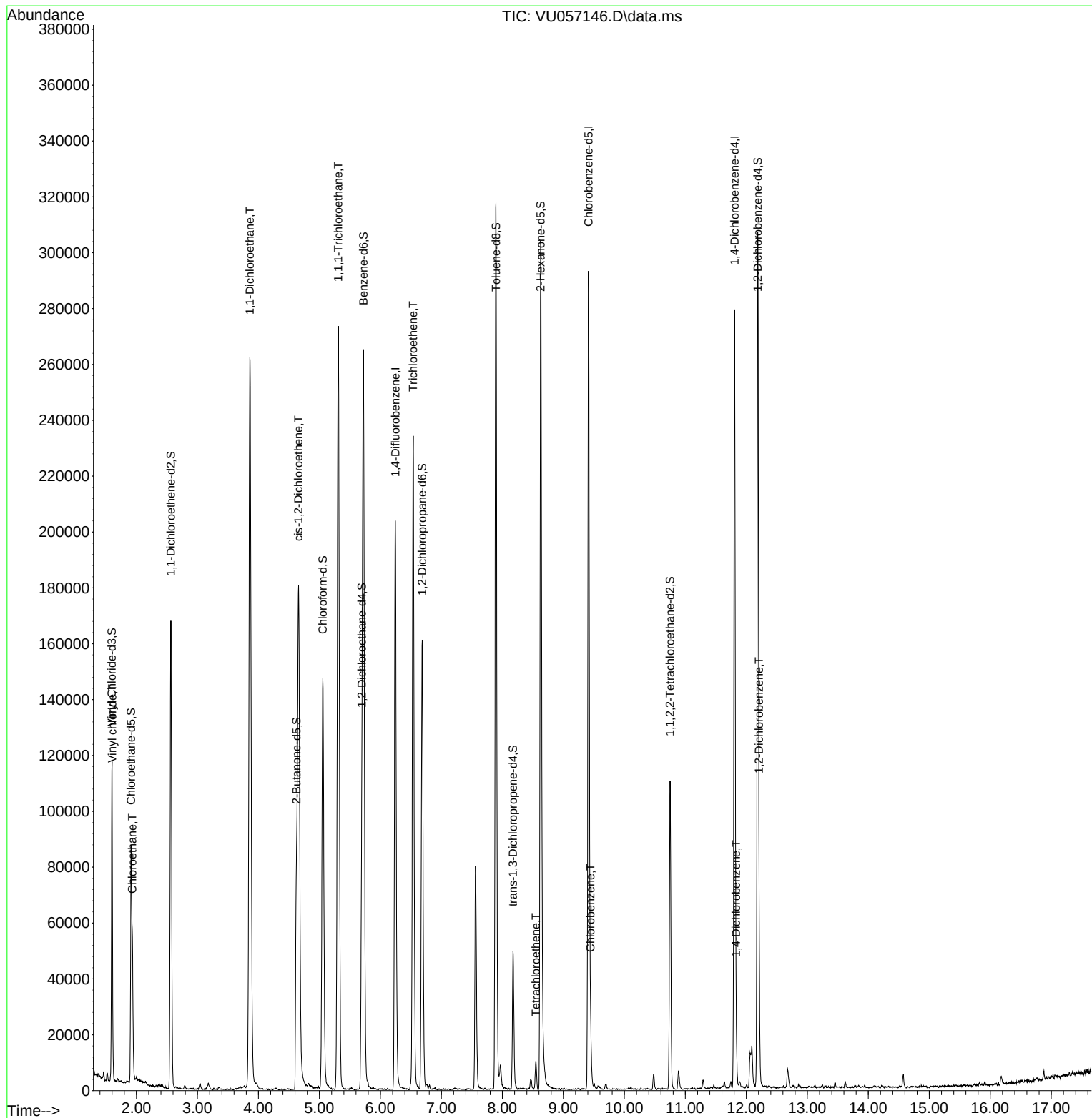
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 165688   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 163525   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 74633    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 73299    | 4.629    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 92.600%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 62202    | 4.772    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 95.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 31246    | 4.554    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 91.000%  |
| 20) 2-Butanone-d5             | 4.624  | 46    | 124549   | 50.091   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 100.180% |
| 24) Chloroform-d              | 5.055  | 84    | 140038   | 4.579    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 68669    | 4.711    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.200%  |
| 32) Benzene-d6                | 5.721  | 84    | 256353   | 4.571    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 74997    | 4.699    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.000%  |
| 41) Toluene-d8                | 7.894  | 98    | 217182   | 4.241    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.800%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 29191    | 4.394    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 87.800%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 105373   | 46.581   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 93.160%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 53100    | 4.675    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 93.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 75860    | 4.724    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.400%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 5) Vinyl chloride             | 1.602  | 62    | 9259     | 0.639    | ug/L   | 84       |
| 8) Chloroethane               | 1.933  | 64    | 27735    | 3.016    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.859  | 63    | 302588   | 12.622   | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96    | 84888    | 6.381    | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97    | 208937   | 8.040    | ug/L   | 99       |
| 34) Trichloroethene           | 6.538  | 95    | 82431    | 5.438    | ug/L   | 93       |
| 47) Tetrachloroethene         | 8.550  | 164   | 2044     | 0.188    | ug/L   | 86       |
| 51) Chlorobenzene             | 9.444  | 112   | 10586    | 0.296    | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146   | 4962     | 0.190    | ug/L # | 86       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146   | 9960     | 0.428    | ug/L   | 92       |
| -----                         |        |       |          |          |        |          |

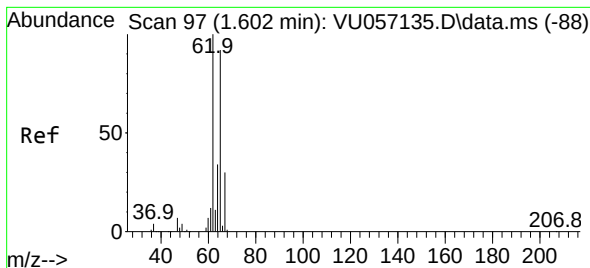
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Dec 21 23:30:13 2023  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.639 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Instrument :

MSVOA\_U

ClientSampleId :

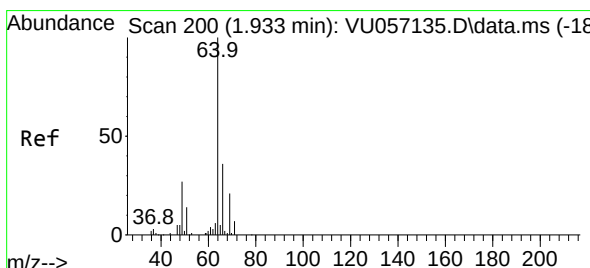
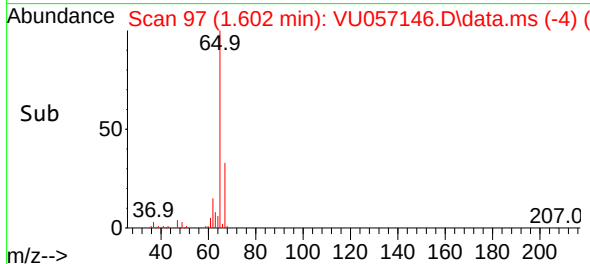
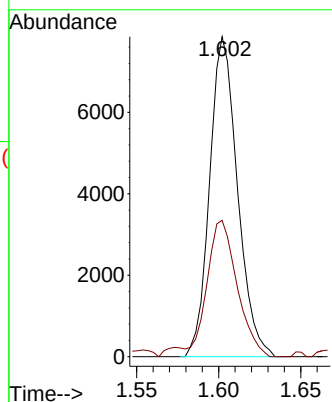
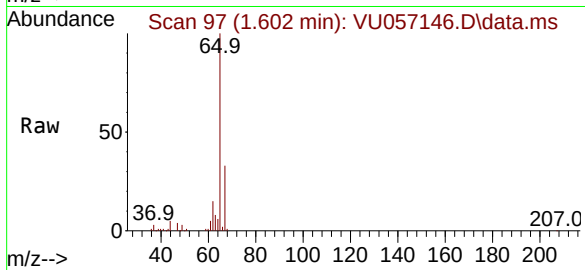
BH3K6

Tgt Ion: 62 Resp: 9259

Ion Ratio Lower Upper

62 100

64 42.6 23.3 43.3



#8

Chloroethane

Concen: 3.016 ug/L

RT: 1.933 min Scan# 200

Delta R.T. 0.000 min

Lab File: VU057146.D

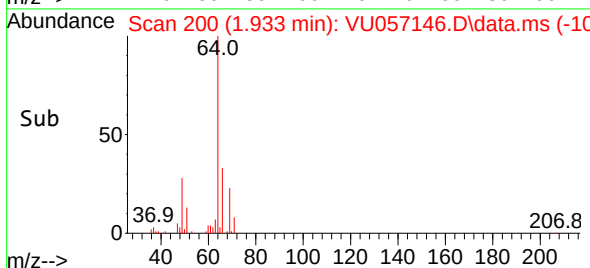
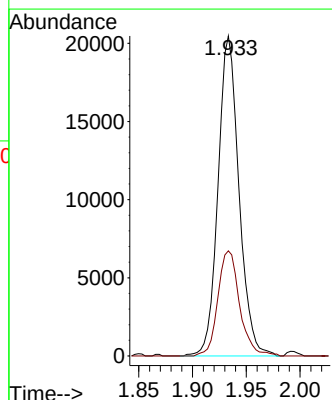
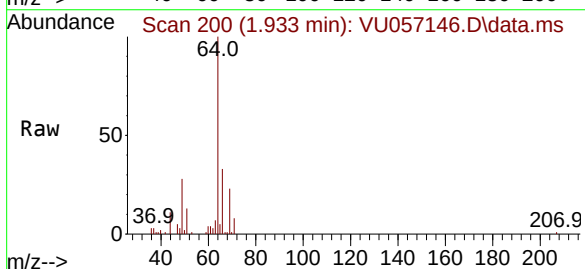
Acq: 21 Dec 2023 20:02

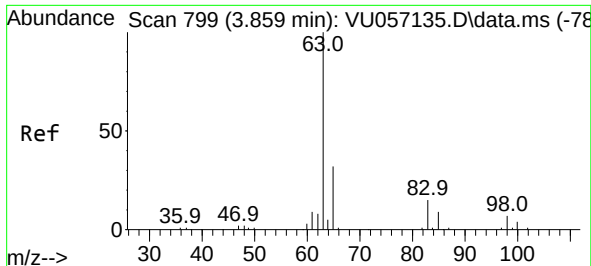
Tgt Ion: 64 Resp: 27735

Ion Ratio Lower Upper

64 100

66 32.8 21.6 40.2





#19

1,1-Dichloroethane

Concen: 12.622 ug/L

RT: 3.859 min Scan# 799

Delta R.T. 0.000 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Instrument :

MSVOA\_U

ClientSampleId :

BH3K6

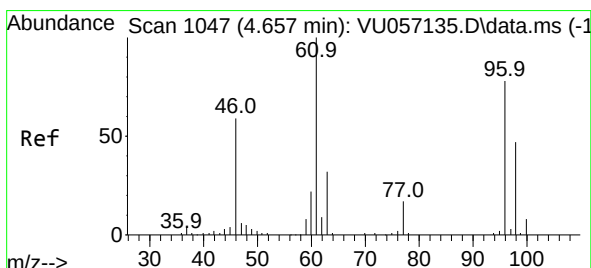
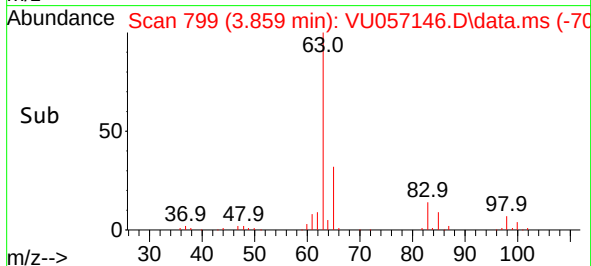
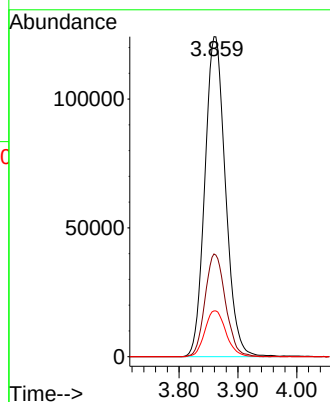
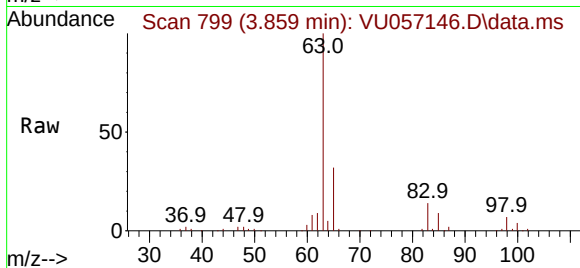
Tgt Ion: 63 Resp: 302588

Ion Ratio Lower Upper

63 100

65 32.1 21.6 40.2

83 14.3 10.2 19.0



#22

cis-1,2-Dichloroethene

Concen: 6.381 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

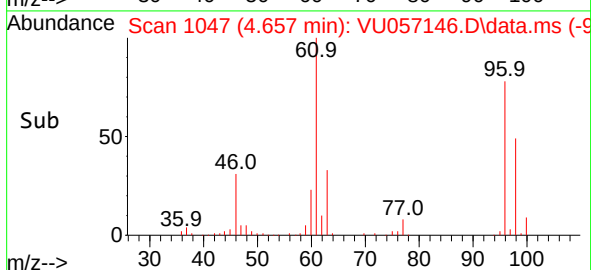
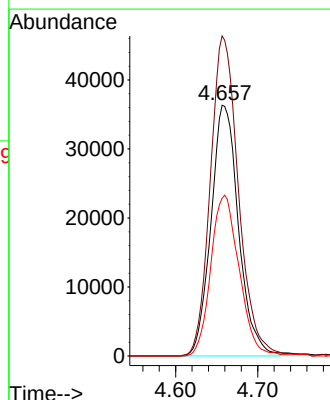
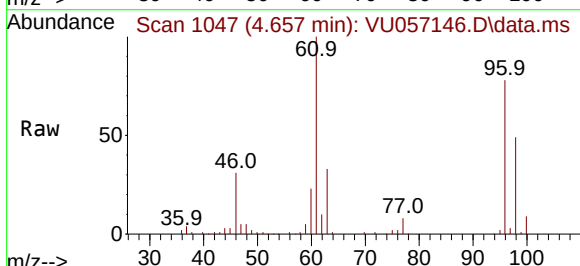
Tgt Ion: 96 Resp: 84888

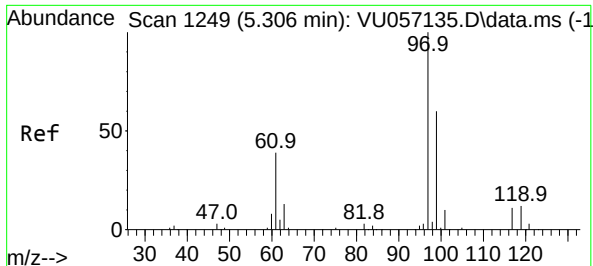
Ion Ratio Lower Upper

96 100

61 127.7 86.8 161.2

98 62.9 45.5 84.5





#29

1,1,1-Trichloroethane

Concen: 8.040 ug/L

RT: 5.309 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Instrument :

MSVOA\_U

ClientSampleId :

BH3K6

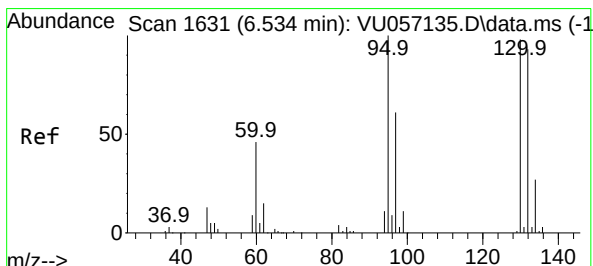
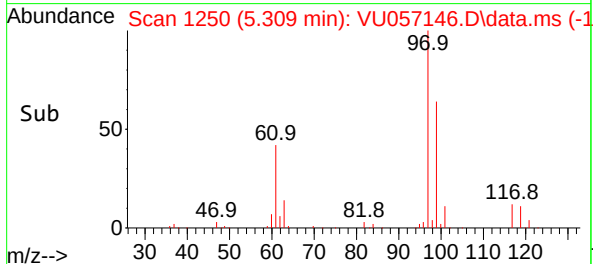
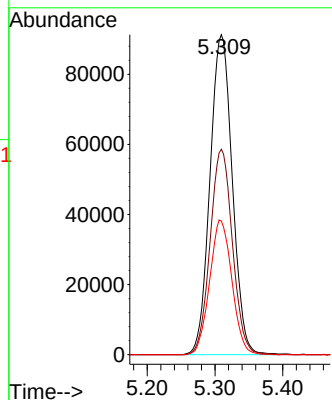
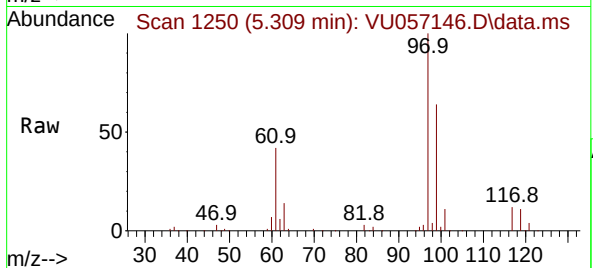
Tgt Ion: 97 Resp: 208937

Ion Ratio Lower Upper

97 100

99 64.3 51.2 76.8

61 42.0 32.5 48.7



#34

Trichloroethene

Concen: 5.438 ug/L

RT: 6.538 min Scan# 1632

Delta R.T. 0.003 min

Lab File: VU057146.D

Acq: 21 Dec 2023 20:02

Tgt Ion: 95 Resp: 82431

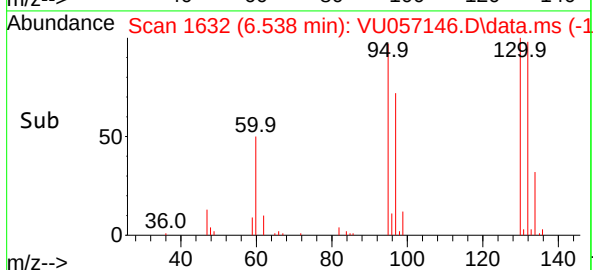
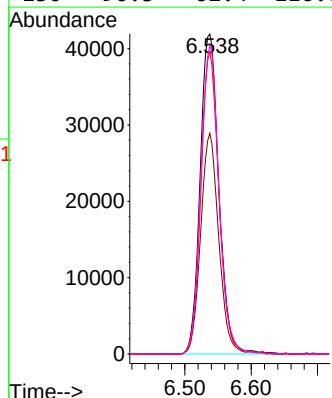
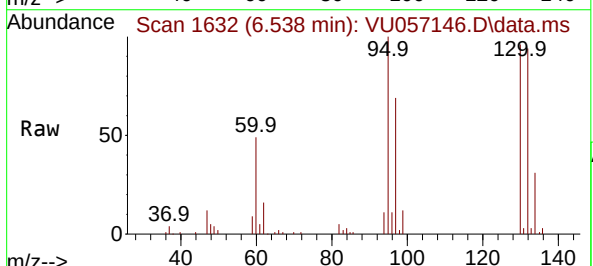
Ion Ratio Lower Upper

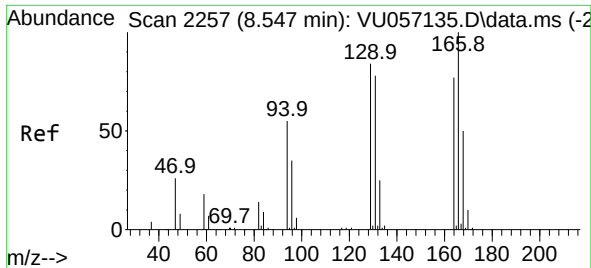
95 100

97 68.9 44.3 82.3

132 94.5 62.6 116.2

130 96.3 62.4 116.0



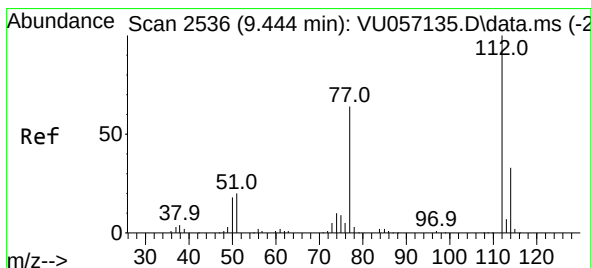
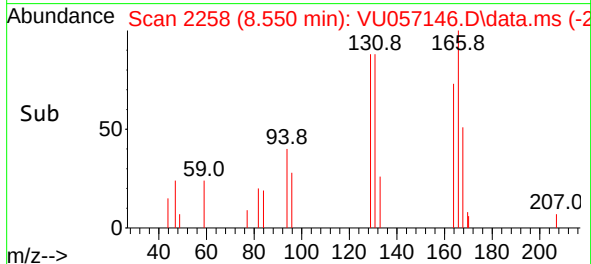
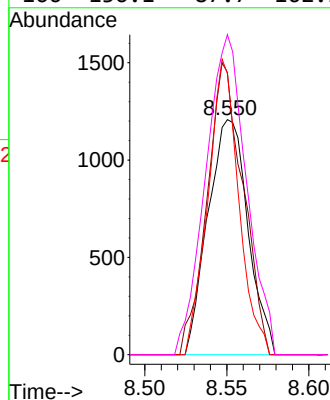
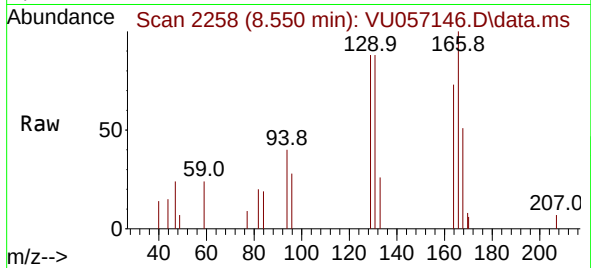


#47  
 Tetrachloroethene  
 Concen: 0.188 ug/L  
 RT: 8.550 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VU057146.D  
 Acq: 21 Dec 2023 20:02

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BH3K6

Tgt Ion:164 Resp: 2044

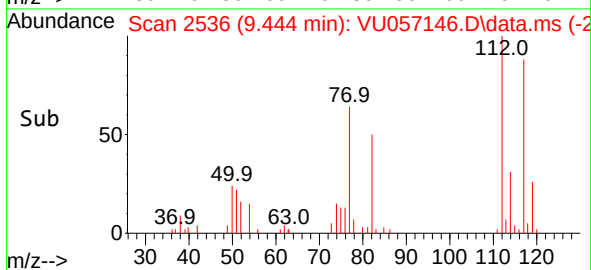
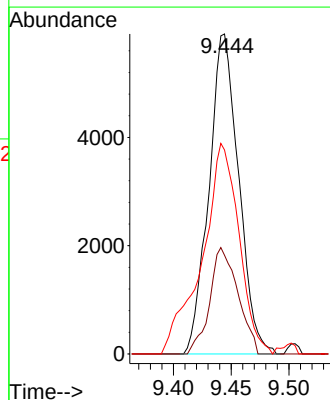
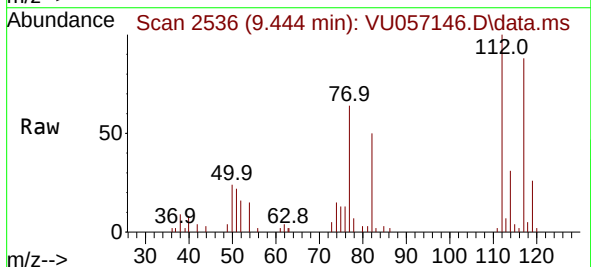
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 120.0 | 72.9  | 135.3 |
| 131 | 119.5 | 71.7  | 133.3 |
| 166 | 136.1 | 87.7  | 162.9 |

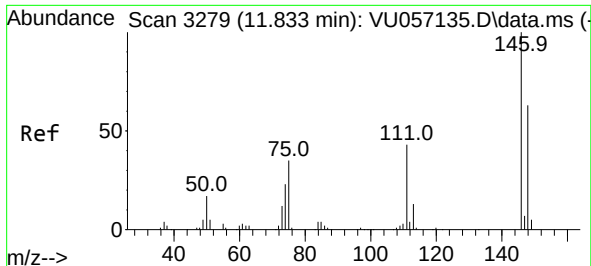


#51  
 Chlorobenzene  
 Concen: 0.296 ug/L  
 RT: 9.444 min Scan# 2536  
 Delta R.T. 0.000 min  
 Lab File: VU057146.D  
 Acq: 21 Dec 2023 20:02

Tgt Ion:112 Resp: 10586

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 30.9  | 22.7  | 42.1  |
| 77  | 63.7  | 52.2  | 78.2  |

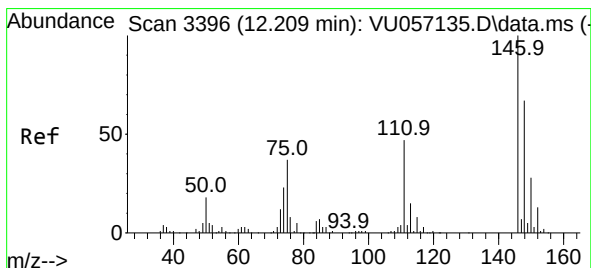
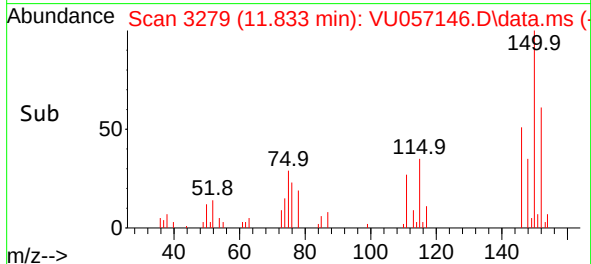
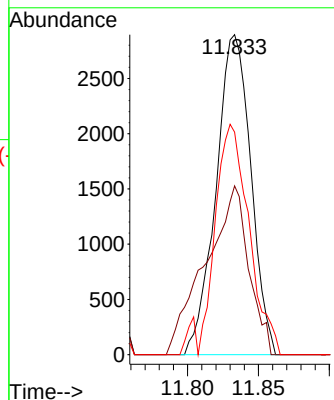
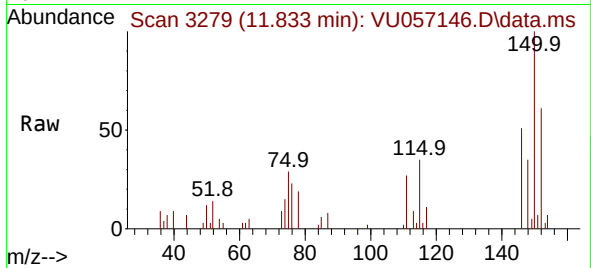




#65  
1,4-Dichlorobenzene  
Concen: 0.190 ug/L  
RT: 11.833 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU057146.D  
Acq: 21 Dec 2023 20:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Tgt Ion:146 Resp: 4962  
Ion Ratio Lower Upper  
146 100  
111 52.7 28.1 52.3#  
148 69.5 43.0 79.8



#67  
1,2-Dichlorobenzene  
Concen: 0.428 ug/L  
RT: 12.206 min Scan# 3395  
Delta R.T. -0.003 min  
Lab File: VU057146.D  
Acq: 21 Dec 2023 20:02

Tgt Ion:146 Resp: 9960  
Ion Ratio Lower Upper  
146 100  
111 51.6 37.9 56.9  
148 69.2 50.1 75.1

