

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121521\  
 Data File : VW023983.D  
 Acq On : 15 Dec 2021 16:03  
 Operator : SY/MD  
 Sample : M4971-14 50X  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3D1

Quant Time: Dec 16 04:50:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121021WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 16 04:44:29 2021  
 Response via : Initial Calibration

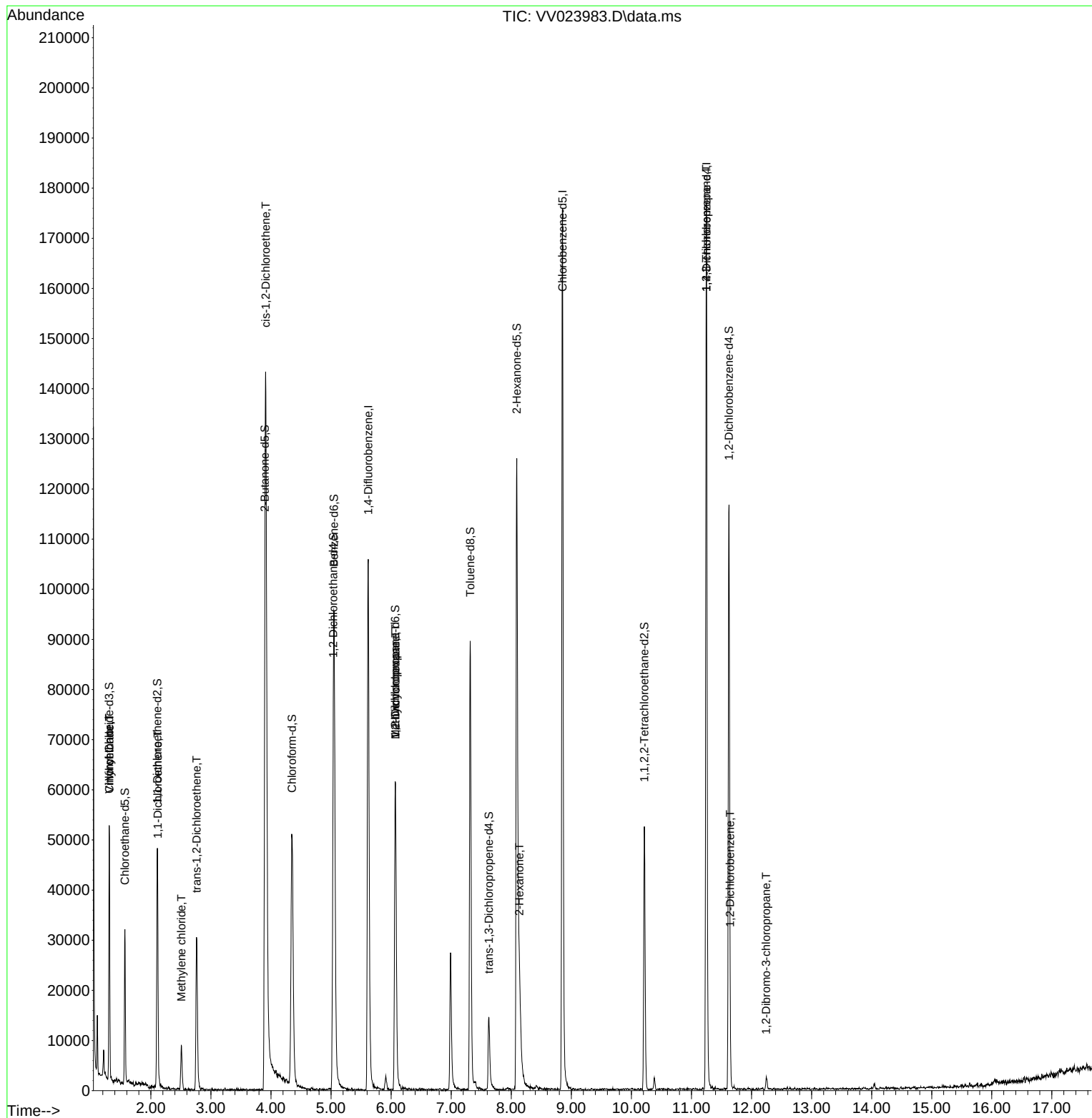
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.619  | 114   | 94152    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.854  | 117   | 102445   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249 | 152   | 48627    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.307  | 65    | 17367    | 3.431    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 68.600%  |
| 7) Chloroethane-d5            | 1.568  | 69    | 18030    | 4.269    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 85.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.108  | 63    | 25239    | 2.555    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 51.000%# |
| 20) 2-Butanone-d5             | 3.899  | 46    | 47288    | 47.820   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 95.640%  |
| 24) Chloroform-d              | 4.349  | 84    | 53289    | 4.648    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 93.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.037  | 65    | 27151    | 5.086    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.800% |
| 32) Benzene-d6                | 5.050  | 84    | 83219    | 4.101    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 82.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.069  | 67    | 28955    | 4.730    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.600%  |
| 41) Toluene-d8                | 7.317  | 98    | 61966    | 3.392    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 67.800%# |
| 43) trans-1,3-Dichloroprop... | 7.629  | 79    | 9140     | 3.599    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 72.000%  |
| 46) 2-Hexanone-d5             | 8.092  | 63    | 51756    | 45.524   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 91.040%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217 | 84    | 23980    | 4.722    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 94.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.625 | 152   | 31836    | 4.901    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 98.000%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.311  | 62    | 12852    | 1.692    | ug/L   | 98       |
| 8) Chloroethane               | 1.311  | 64    | 4177     | 0.845    | ug/L # | 62       |
| 12) 1,1-Dichloroethene        | 2.114  | 96    | 451      | 0.071    | ug/L # | 1        |
| 16) Methylene chloride        | 2.510  | 84    | 3363     | 0.407    | ug/L # | 86       |
| 18) trans-1,2-Dichloroethene  | 2.761  | 96    | 11981    | 1.713    | ug/L   | 92       |
| 22) cis-1,2-Dichloroethene    | 3.912  | 96    | 72650    | 9.815    | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.072  | 83    | 7669     | 0.637    | ug/L # | 18       |
| 37) 1,2-Dichloropropane       | 6.072  | 63    | 3654     | 0.530    | ug/L # | 84       |
| 48) 2-Hexanone                | 8.137  | 43    | 4711     | 1.964    | ug/L # | 67       |
| 61) 1,2,3-Trichloropropane    | 11.246 | 75    | 4900     | 1.479    | ug/L # | 62       |
| 67) 1,2-Dichlorobenzene       | 11.645 | 146   | 1196     | 0.089    | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 12.243 | 75    | 44       | 0.061    | ug/L # | 1        |
| -----                         |        |       |          |          |        |          |

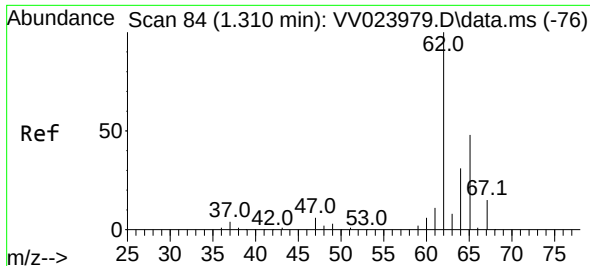
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 16 04:50:08 2021  
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Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Dec 16 04:44:29 2021  
Response via : Initial Calibration

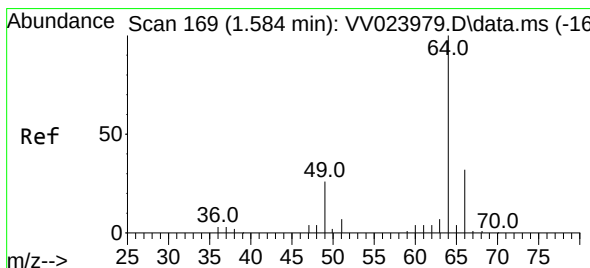
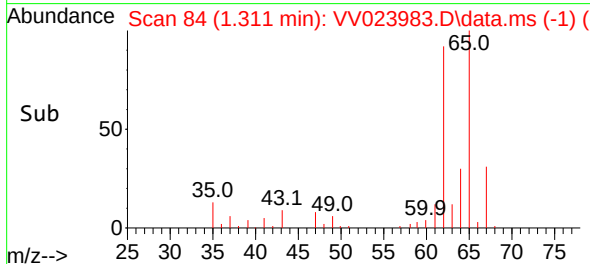
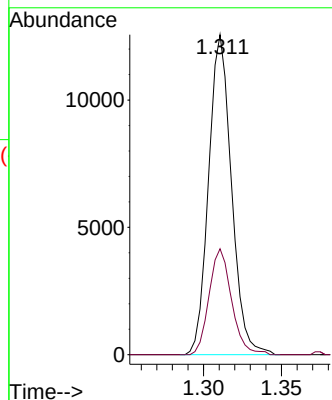
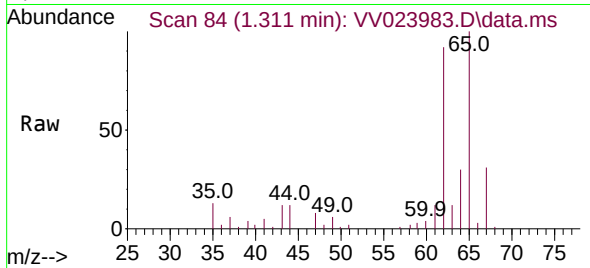




#5  
 Vinyl chloride  
 Concen: 1.692 ug/L  
 RT: 1.311 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VV023983.D  
 Acq: 15 Dec 2021 16:03

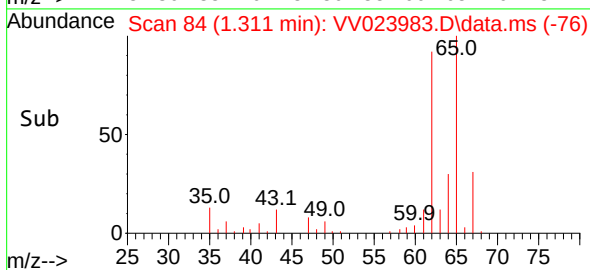
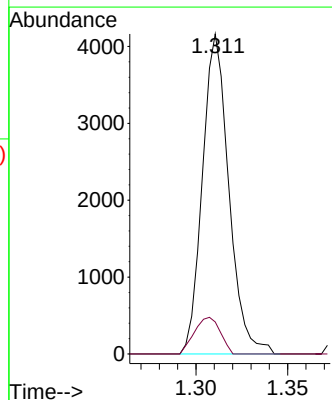
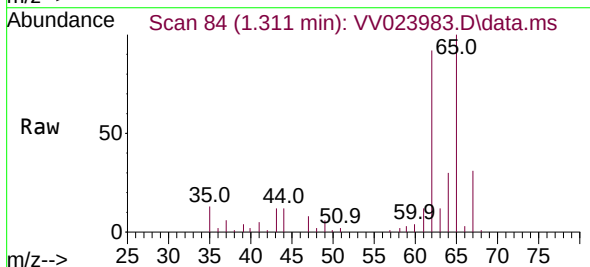
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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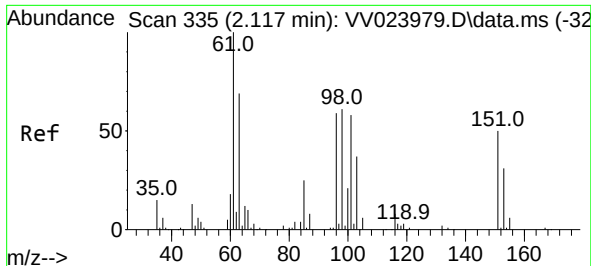
Tgt Ion: 62 Resp: 12852  
 Ion Ratio Lower Upper  
 62 100  
 64 33.1 22.4 41.6



#8  
 Chloroethane  
 Concen: 0.845 ug/L  
 RT: 1.311 min Scan# 84  
 Delta R.T. -0.273 min  
 Lab File: VV023983.D  
 Acq: 15 Dec 2021 16:03

Tgt Ion: 64 Resp: 4177  
 Ion Ratio Lower Upper  
 64 100  
 66 10.0 21.4 39.8

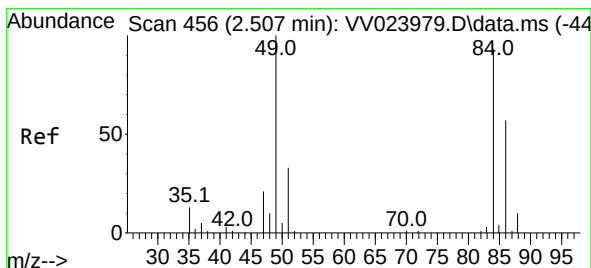
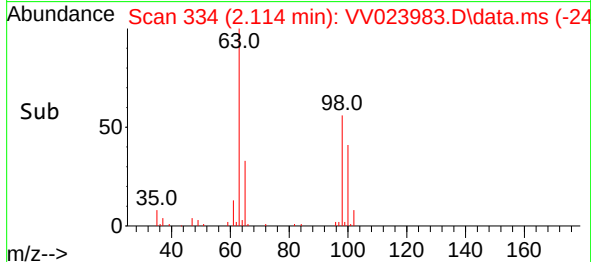
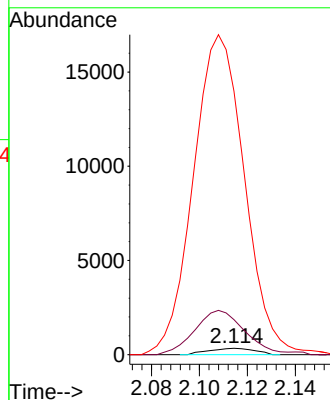
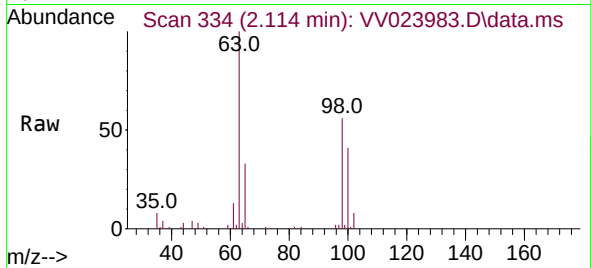




#12  
1,1-Dichloroethene  
Concen: 0.071 ug/L  
RT: 2.114 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

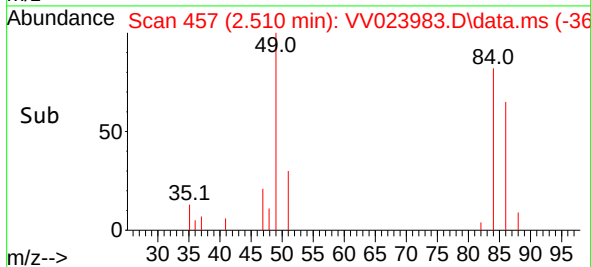
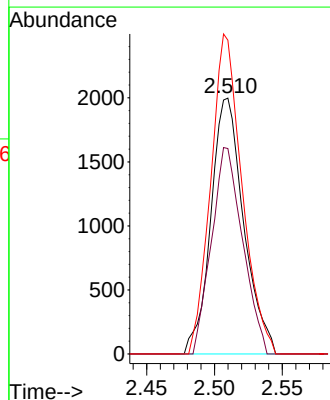
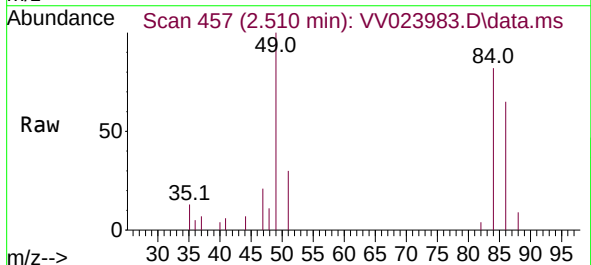
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3D1

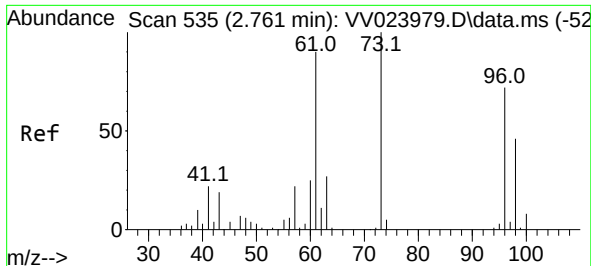
Tgt Ion: 96 Resp: 451  
Ion Ratio Lower Upper  
96 100  
61 548.4 116.1 215.5#  
63 4126.8 79.4 147.4#



#16  
Methylene chloride  
Concen: 0.407 ug/L  
RT: 2.510 min Scan# 457  
Delta R.T. 0.003 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

Tgt Ion: 84 Resp: 3363  
Ion Ratio Lower Upper  
84 100  
86 80.3 42.6 79.0#  
49 122.6 79.7 147.9

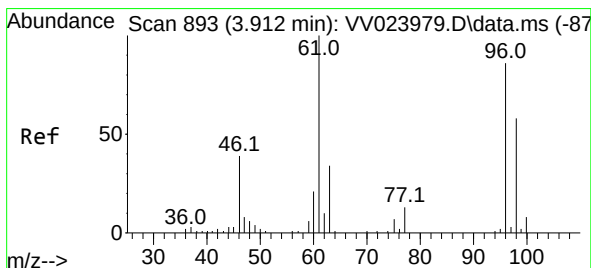
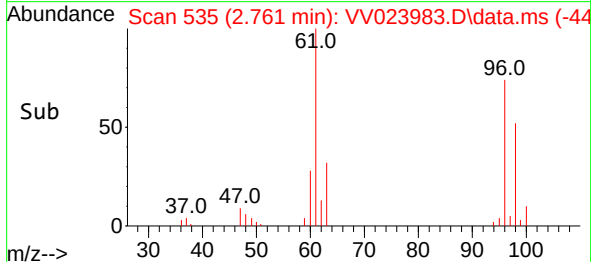
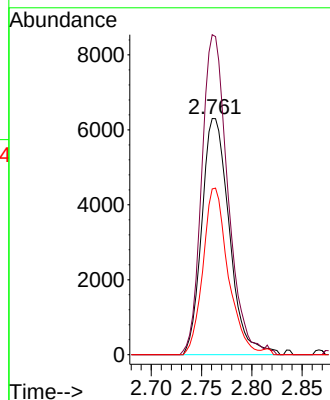
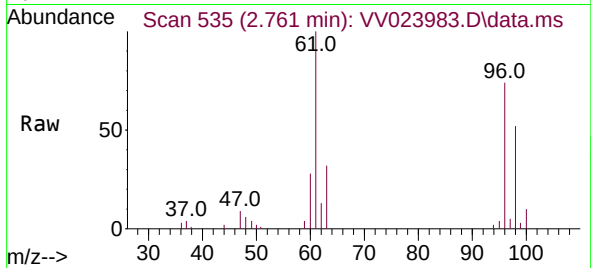




#18  
trans-1,2-Dichloroethene  
Concen: 1.713 ug/L  
RT: 2.761 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

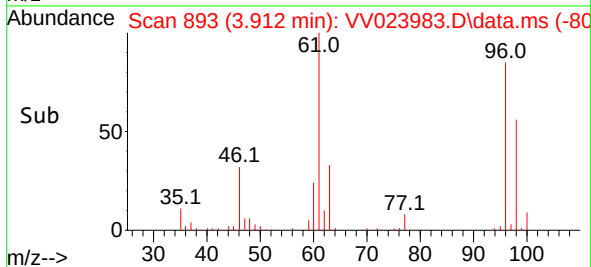
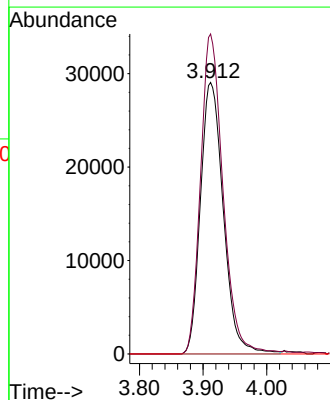
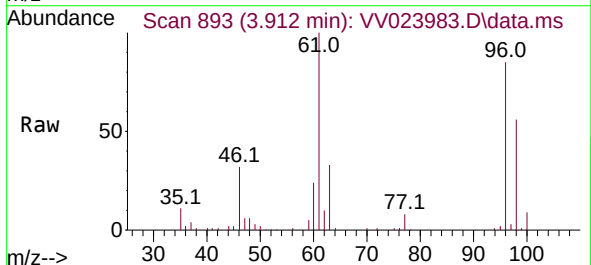
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3D1

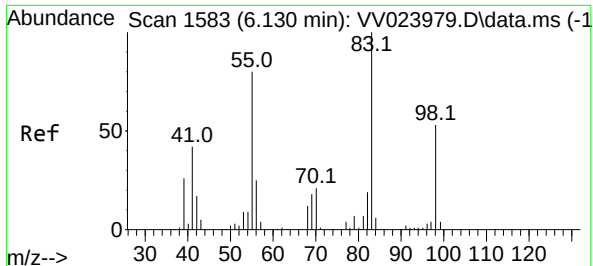
Tgt Ion: 96 Resp: 11981  
Ion Ratio Lower Upper  
96 100  
61 135.5 88.2 163.8  
98 70.2 44.9 83.5



#22  
cis-1,2-Dichloroethene  
Concen: 9.815 ug/L  
RT: 3.912 min Scan# 893  
Delta R.T. 0.000 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

Tgt Ion: 96 Resp: 72650  
Ion Ratio Lower Upper  
96 100  
61 117.9 83.4 154.8  
68 0.0 0.0 0.0





#35

Methylcyclohexane

Concen: 0.637 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.058 min

Lab File: VV023983.D

Acq: 15 Dec 2021 16:03

Instrument :

MSVOA\_V

ClientSampleId :

BG3D1

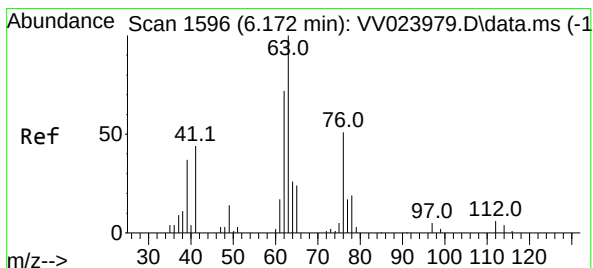
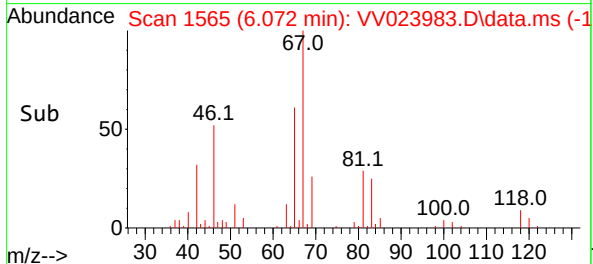
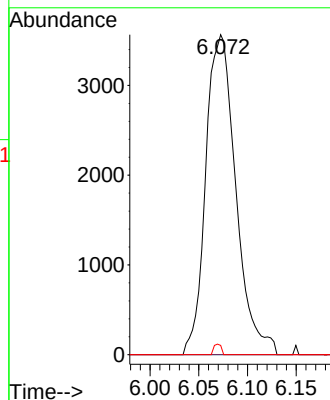
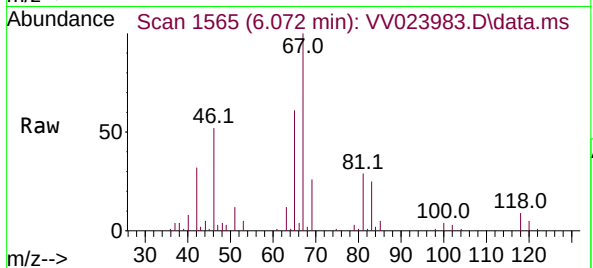
Tgt Ion: 83 Resp: 7669

Ion Ratio Lower Upper

83 100

55 0.0 60.2 90.2#

98 0.8 41.0 61.4#



#37

1,2-Dichloropropane

Concen: 0.530 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.100 min

Lab File: VV023983.D

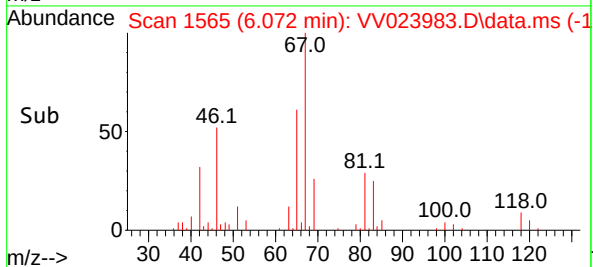
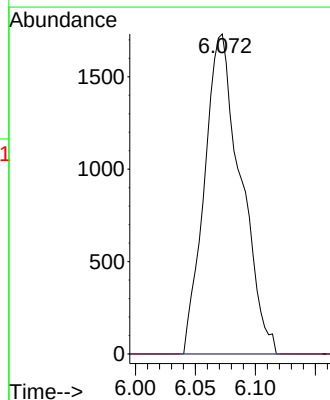
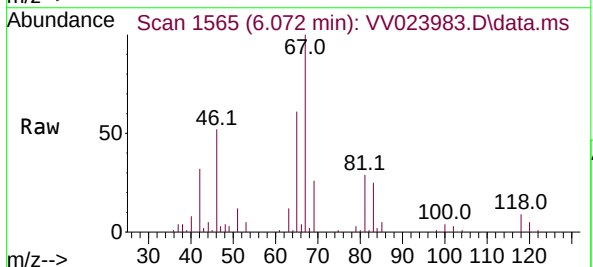
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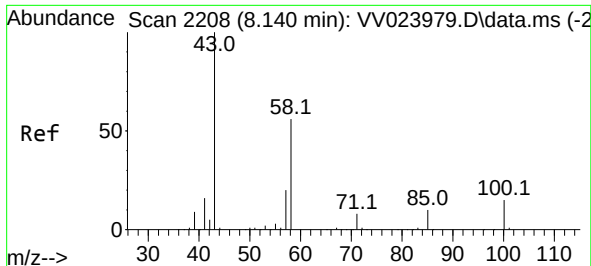
Tgt Ion: 63 Resp: 3654

Ion Ratio Lower Upper

63 100

112 0.0 4.3 6.5#

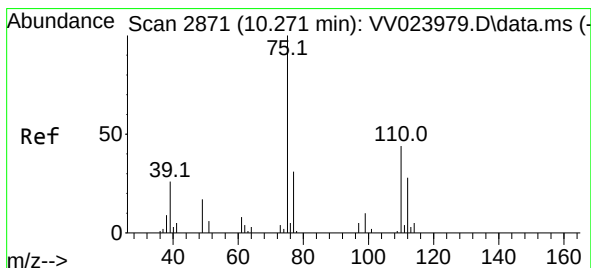
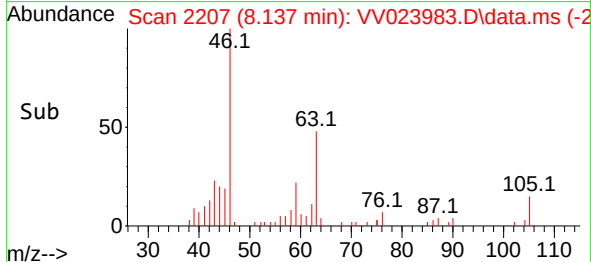
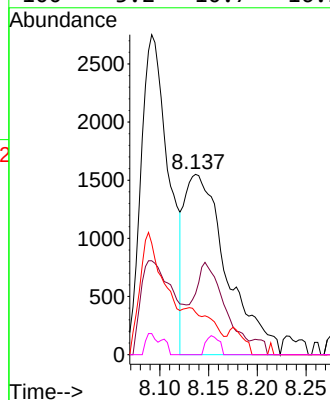
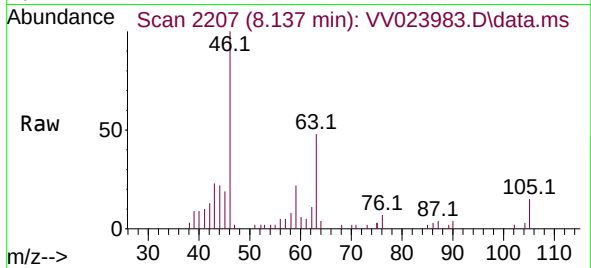




#48  
2-Hexanone  
Concen: 1.964 ug/L  
RT: 8.137 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

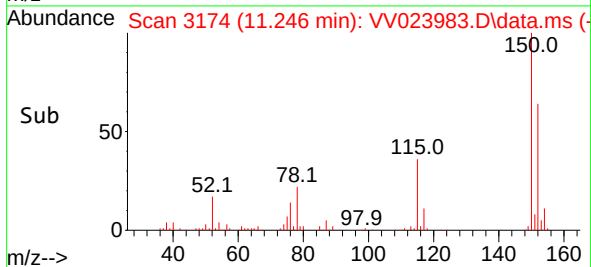
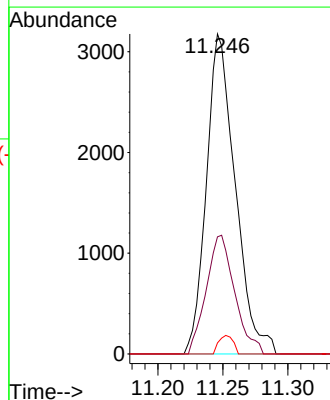
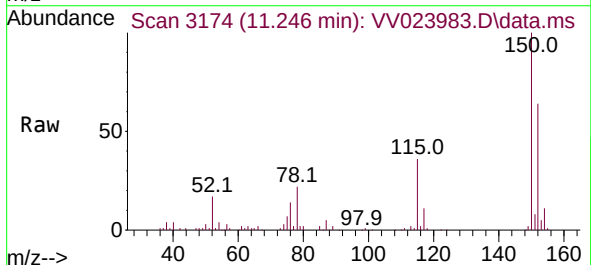
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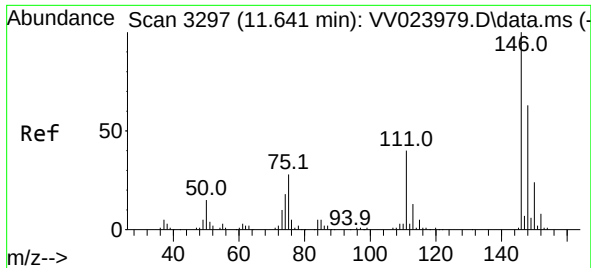
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 4711  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 29.7     | 44.5 66.7#  |
| 57 5.6      | 15.1 22.7#  |
| 100 3.2     | 10.7 16.1#  |



#61  
1,2,3-Trichloropropane  
Concen: 1.479 ug/L  
RT: 11.246 min Scan# 3174  
Delta R.T. 0.974 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 4900  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 36.6     | 26.4 39.6   |
| 110 2.9     | 34.2 51.2#  |

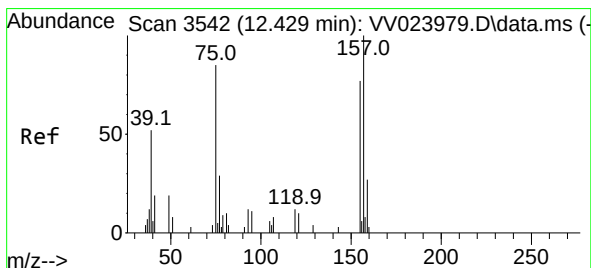
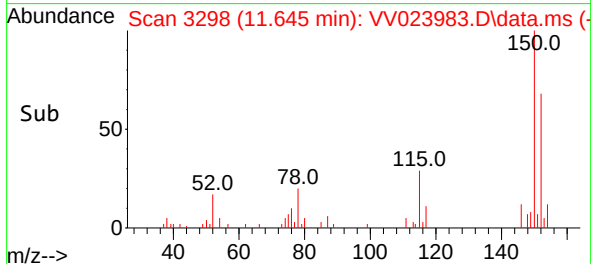
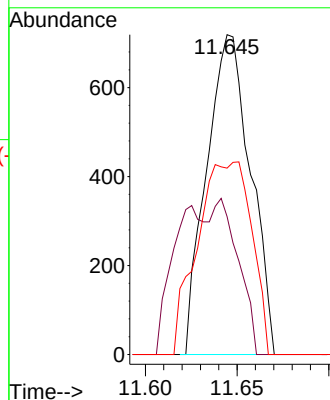
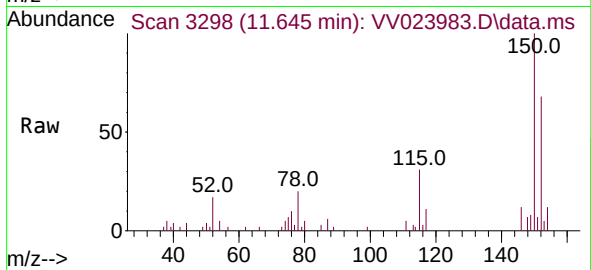




#67  
1,2-Dichlorobenzene  
Concen: 0.089 ug/L  
RT: 11.645 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3D1

Tgt Ion:146 Resp: 1196  
Ion Ratio Lower Upper  
146 100  
111 43.1 31.9 47.9  
148 58.3 50.5 75.7



#68  
1,2-Dibromo-3-chloropropane  
Concen: 0.061 ug/L  
RT: 12.243 min Scan# 3484  
Delta R.T. -0.186 min  
Lab File: VV023983.D  
Acq: 15 Dec 2021 16:03

Tgt Ion: 75 Resp: 44  
Ion Ratio Lower Upper  
75 100  
155 0.0 71.7 107.5#  
157 0.0 103.3 154.9#

