

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101321\  
 Data File : VX024803.D  
 Acq On : 13 Oct 2021 23:06  
 Operator : JC/MD  
 Sample : M4190-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TRIP-BLANK

Quant Time: Oct 14 03:59:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101321W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 14 03:51:38 2021  
 Response via : Initial Calibration

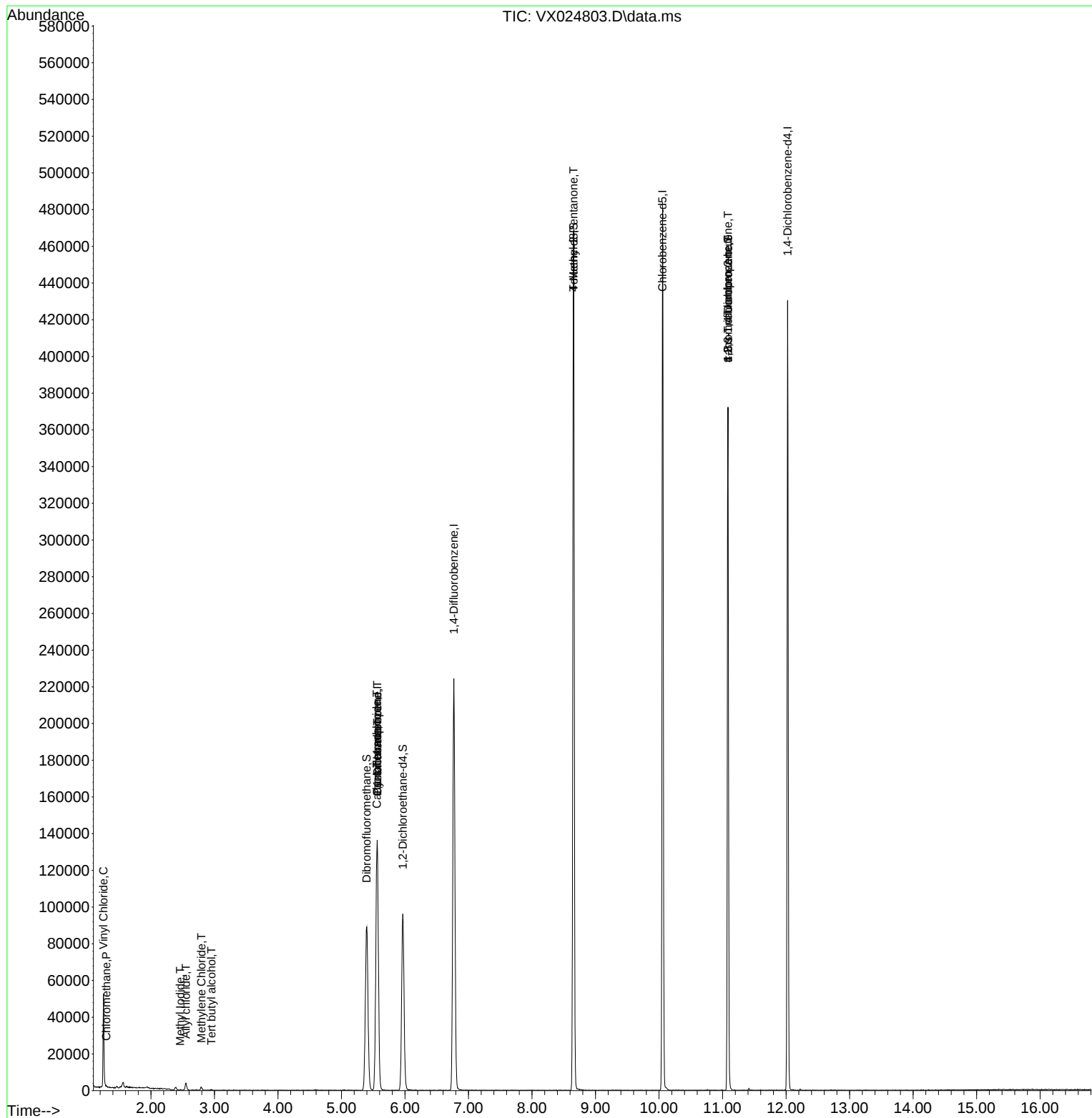
| Compound                      | R.T. QIon |       | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-------------|----------|
| -----                         |           |       |          |           |             |          |
| Internal Standards            |           |       |          |           |             |          |
| 1) Pentafluorobenzene         | 5.562     | 168   | 127658   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769     | 114   | 221834   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 213629   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 86573    | 50.000    | ug/l        | 0.00     |
|                               |           |       |          |           |             |          |
| System Monitoring Compounds   |           |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.964     | 65    | 98440    | 62.739    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | = 125.480%# |          |
| 35) Dibromofluoromethane      | 5.397     | 113   | 77066    | 58.356    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | = 116.720%  |          |
| 50) Toluene-d8                | 8.653     | 98    | 273900   | 56.070    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | = 112.140%# |          |
| 62) 4-Bromofluorobenzene      | 11.085    | 95    | 97845    | 50.927    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | = 101.860%  |          |
|                               |           |       |          |           |             |          |
| Target Compounds              |           |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 1.294     | 50    | 379      | 0.320     | ug/l #      | 73       |
| 4) Vinyl Chloride             | 1.252     | 62    | 348      | 0.284     | ug/l #      | 1        |
| 5) Bromomethane               | 1.605     | 94    | 342      | Below Cal |             | 96       |
| 10) Methyl Iodide             | 2.459     | 142   | 153      | 1.013     | ug/l #      | 60       |
| 11) Tert butyl alcohol        | 2.953     | 59    | 221      | 0.668     | ug/l #      | 72       |
| 14) Allyl chloride            | 2.550     | 41    | 507      | 0.252     | ug/l #      | 57       |
| 16) Acetone                   | 2.386     | 43    | 1821     | Below Cal |             | 89       |
| 20) Methylene Chloride        | 2.794     | 84    | 694      | 0.522     | ug/l #      | 85       |
| 31) Cyclohexane               | 5.562     | 56    | 2802     | 1.341     | ug/l #      | 32       |
| 36) 1,1-Dichloropropene       | 5.562     | 75    | 10344    | 5.269     | ug/l #      | 49       |
| 38) Carbon Tetrachloride      | 5.556     | 117   | 13059    | 5.937     | ug/l #      | 17       |
| 51) 4-Methyl-2-Pentanone      | 8.653     | 43    | 1307     | 0.563     | ug/l #      | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085    | 75    | 51948    | 28.762    | ug/l #      | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.085    | 75    | 51948    | 77.355    | ug/l #      | 9        |
| -----                         |           |       |          |           |             |          |

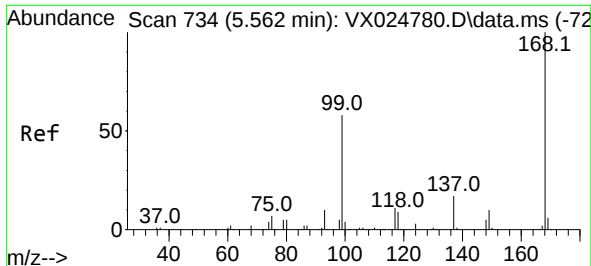
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101321\  
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Sample : M4190-07  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
TRIP-BLANK

Quant Time: Oct 14 03:59:15 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101321W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 14 03:51:38 2021  
Response via : Initial Calibration

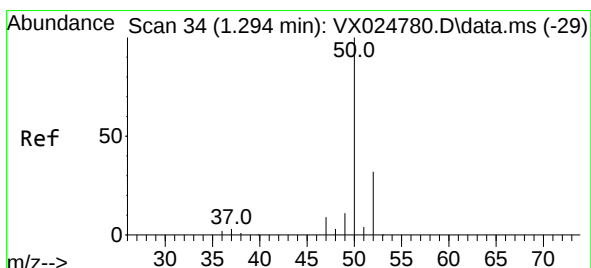
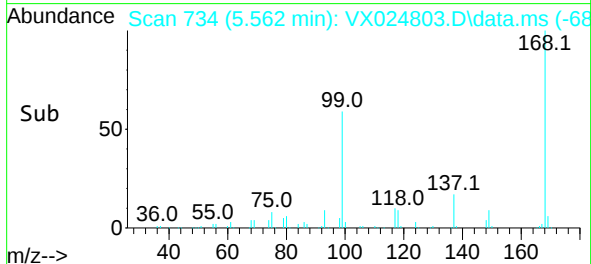
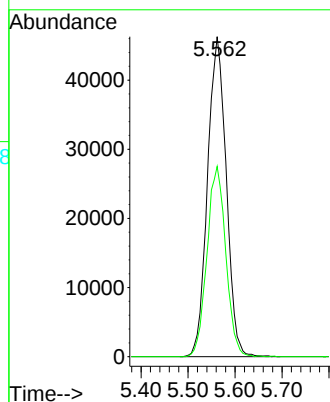
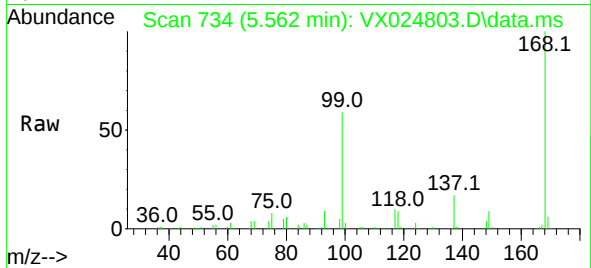




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

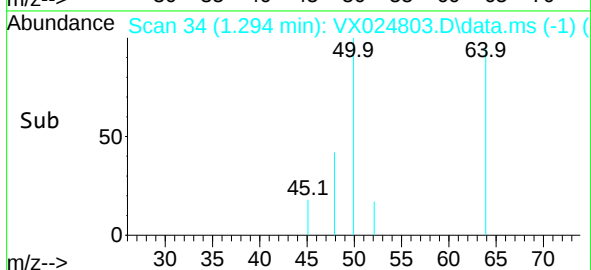
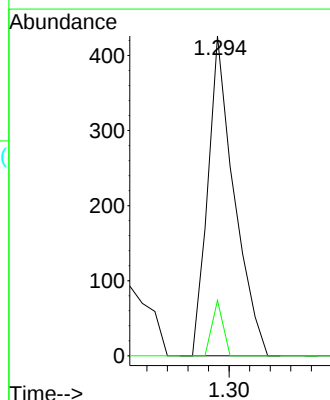
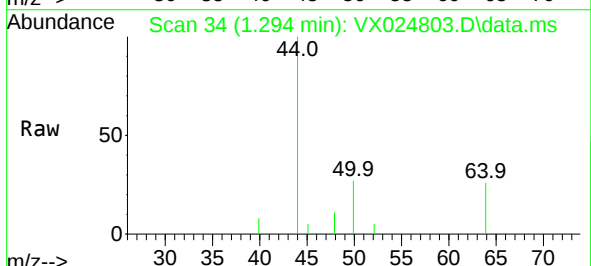
Instrument :  
MSVOA\_X  
ClientSampleId :  
TRIP-BLANK

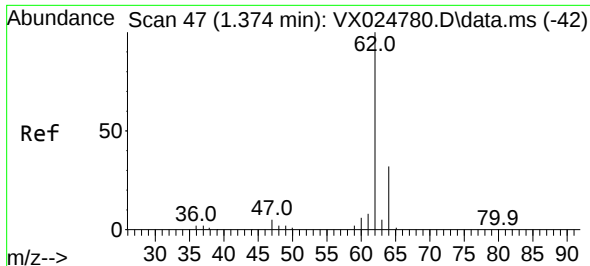
Tgt Ion:168 Resp: 127658  
Ion Ratio Lower Upper  
168 100  
99 59.5 46.4 69.6



#3  
Chloromethane  
Concen: 0.320 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Tgt Ion: 50 Resp: 379  
Ion Ratio Lower Upper  
50 100  
52 17.4 25.9 38.9#

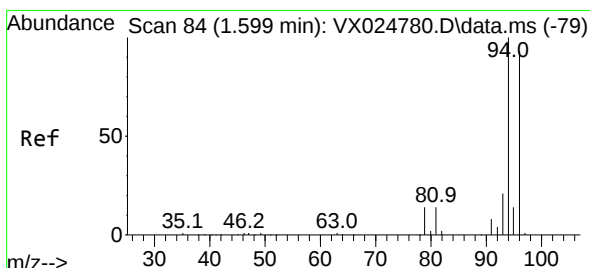
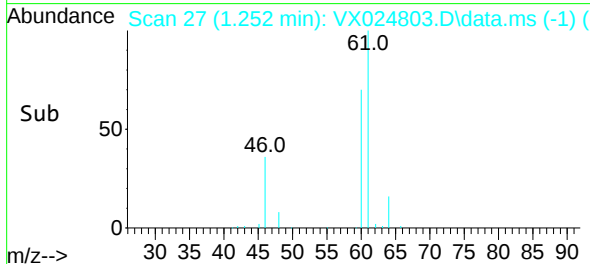
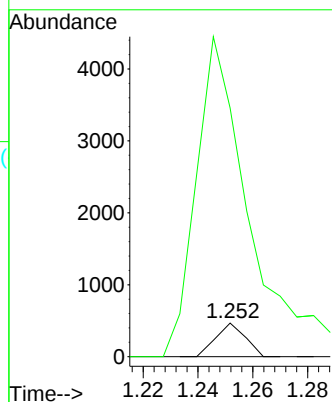
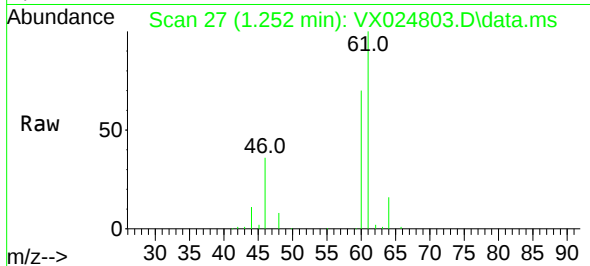




#4  
 Vinyl Chloride  
 Concen: 0.284 ug/l  
 RT: 1.252 min Scan# 27  
 Delta R.T. -0.122 min  
 Lab File: VX024803.D  
 Acq: 13 Oct 2021 23:06

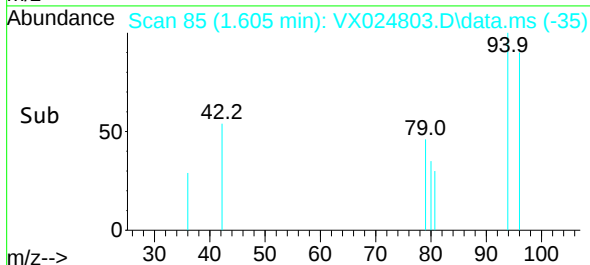
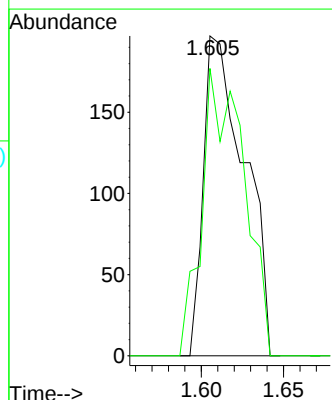
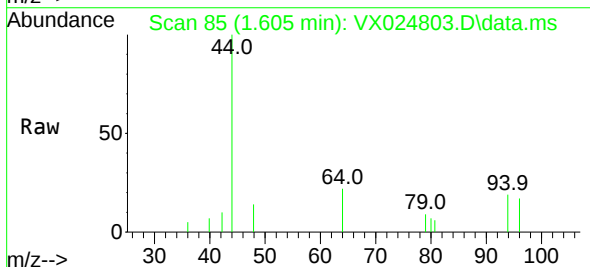
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TRIP-BLANK

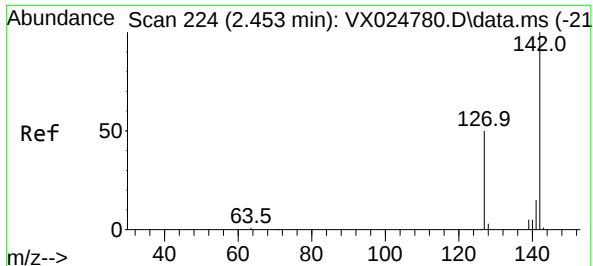
Tgt Ion: 62 Resp: 348  
 Ion Ratio Lower Upper  
 62 100  
 64 610.5 26.0 39.0#



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.605 min Scan# 85  
 Delta R.T. 0.006 min  
 Lab File: VX024803.D  
 Acq: 13 Oct 2021 23:06

Tgt Ion: 94 Resp: 342  
 Ion Ratio Lower Upper  
 94 100  
 96 89.8 74.8 112.2

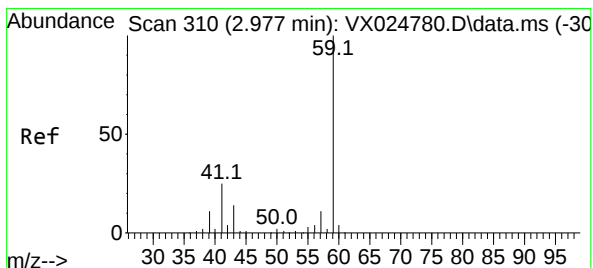
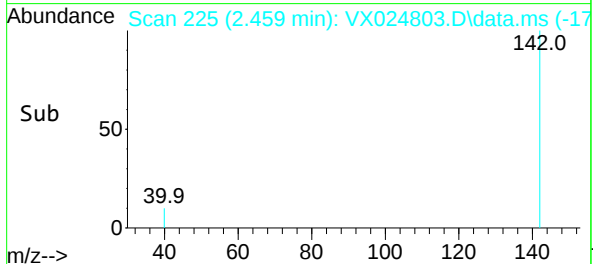
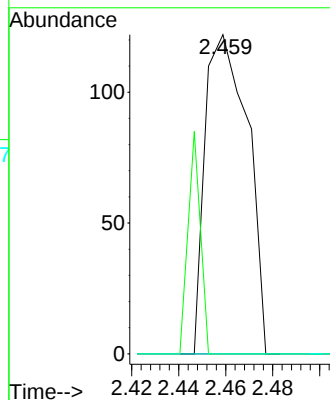
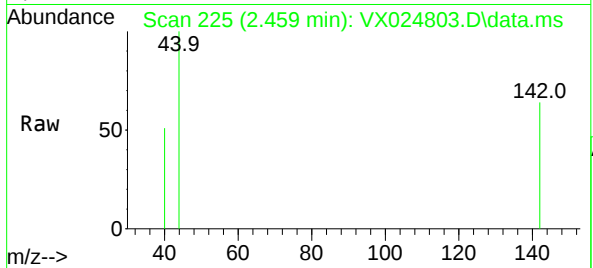




#10  
Methyl Iodide  
Concen: 1.013 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

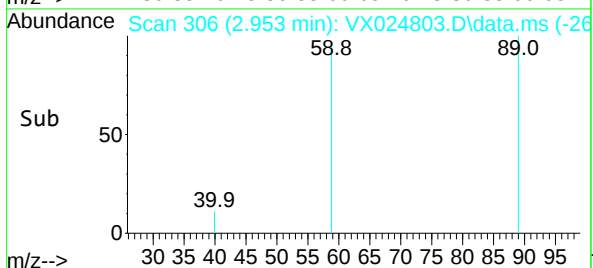
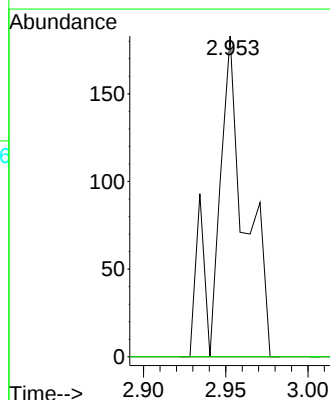
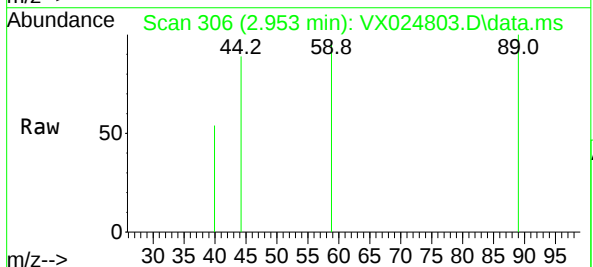
Instrument :  
MSVOA\_X  
ClientSampleId :  
TRIP-BLANK

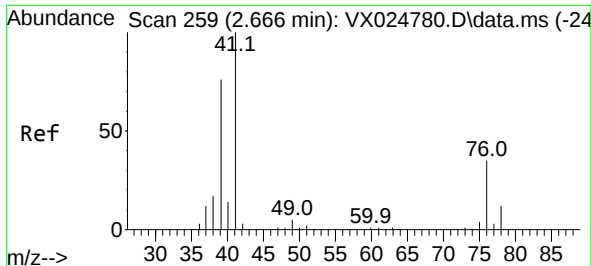
Tgt Ion:142 Resp: 153  
Ion Ratio Lower Upper  
142 100  
127 20.3 38.9 58.3#  
141 0.0 11.7 17.5#



#11  
Tert butyl alcohol  
Concen: 0.668 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.025 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Tgt Ion: 59 Resp: 221  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

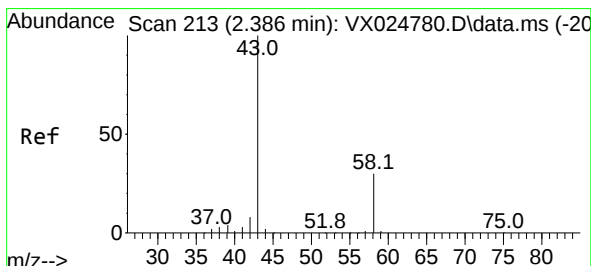
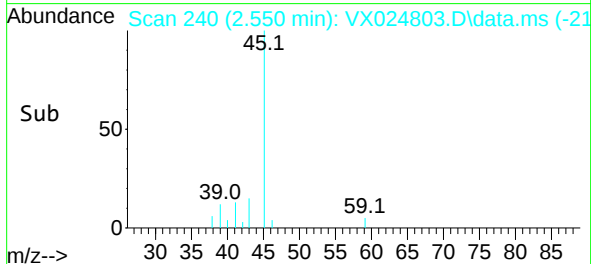
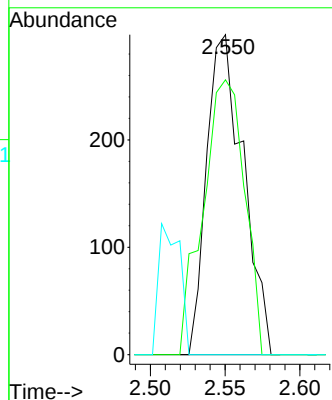
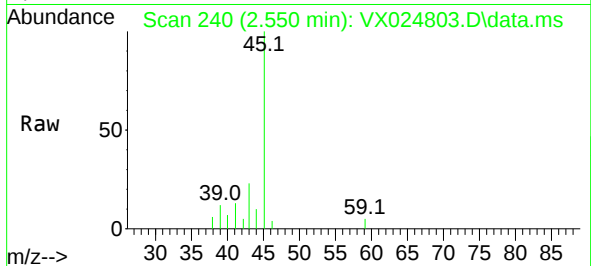




#14  
 Allyl chloride  
 Concen: 0.252 ug/l  
 RT: 2.550 min Scan# 240  
 Delta R.T. -0.116 min  
 Lab File: VX024803.D  
 Acq: 13 Oct 2021 23:06

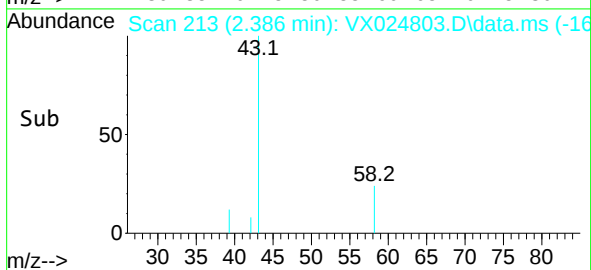
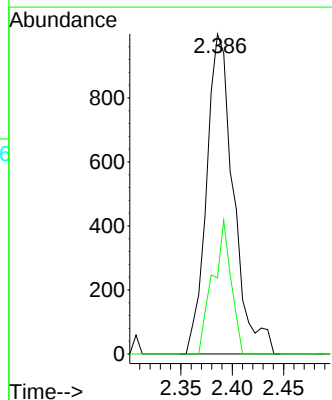
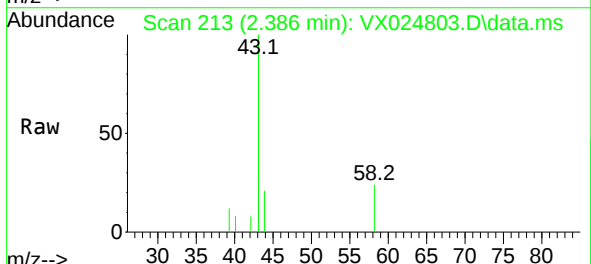
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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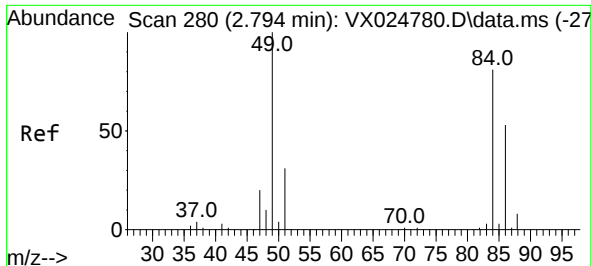
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 507   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 97.4     | 54.6 82.0#  |
| 76 0.0      | 25.3 37.9#  |



#16  
 Acetone  
 Concen: Below Cal  
 RT: 2.386 min Scan# 213  
 Delta R.T. -0.000 min  
 Lab File: VX024803.D  
 Acq: 13 Oct 2021 23:06

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1821  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 23.8     | 24.0 36.0#  |

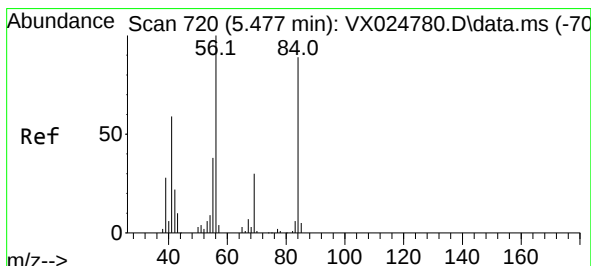
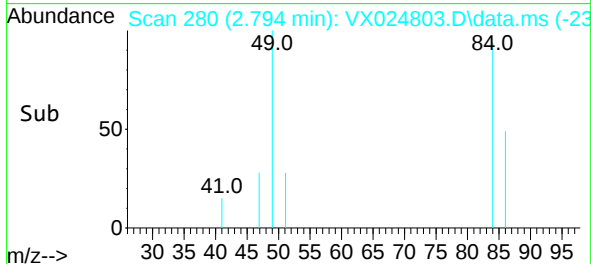
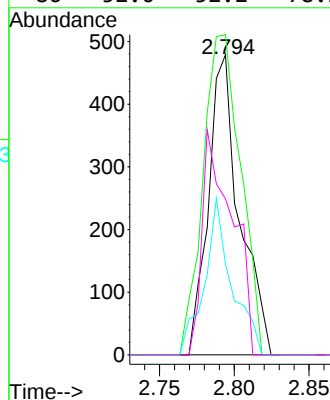
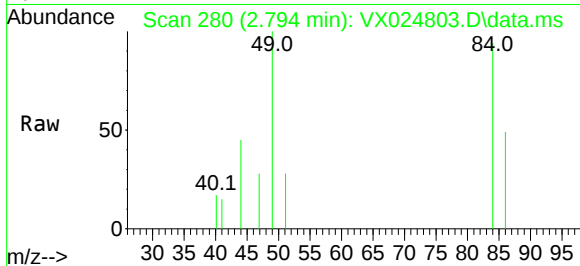




#20  
Methylene Chloride  
Concen: 0.522 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. -0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

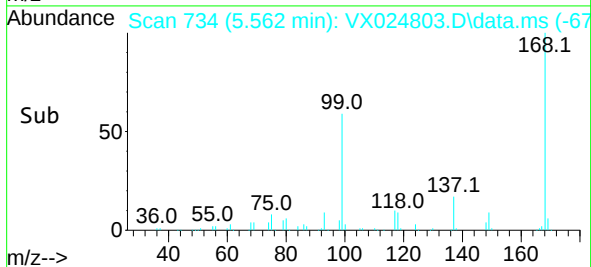
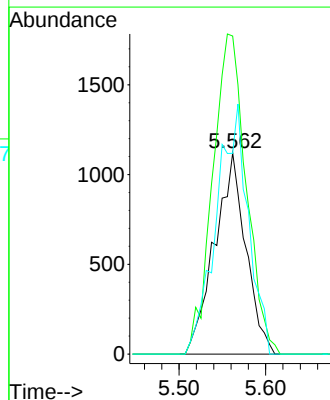
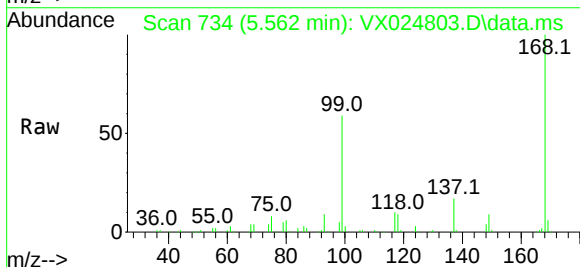
Instrument :  
MSVOA\_X  
ClientSampleId :  
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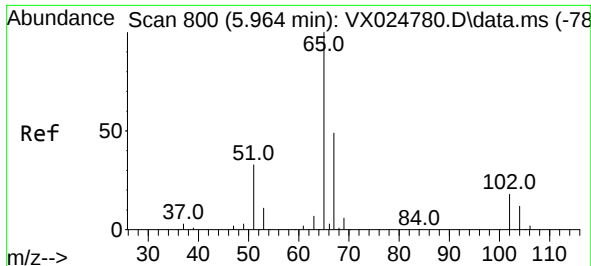
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 694   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 106.7 | 98.2  | 147.2 |
| 51       | 30.3  | 30.2  | 45.4  |
| 86       | 52.0  | 52.2  | 78.2# |



#31  
Cyclohexane  
Concen: 1.341 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2802  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 158.0 | 24.2  | 36.2# |
| 84       | 99.7  | 71.5  | 107.3 |





#33

1,2-Dichloroethane-d4

Concen: 62.739 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.000 min

Lab File: VX024803.D

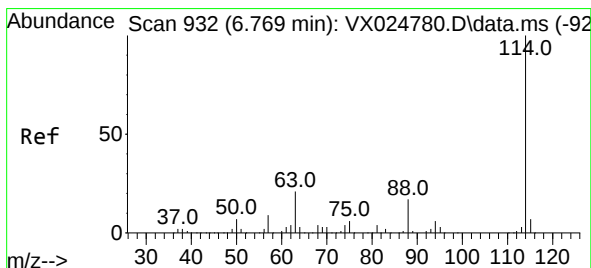
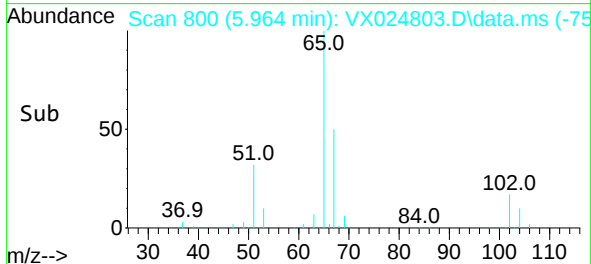
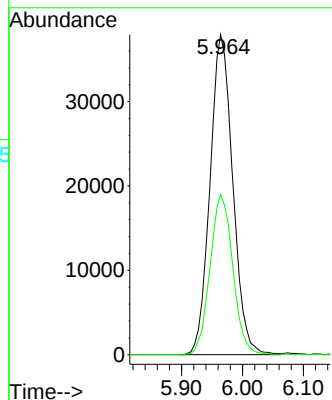
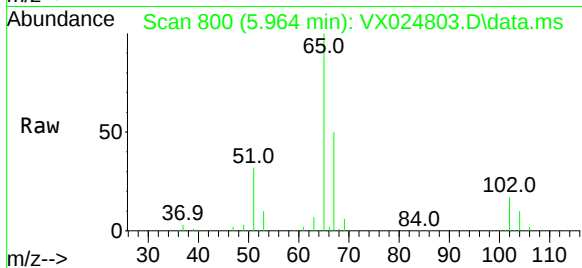
Acq: 13 Oct 2021 23:06

Tgt Ion: 65 Resp: 98440

Ion Ratio Lower Upper

65 100

67 50.0 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX024803.D

Acq: 13 Oct 2021 23:06

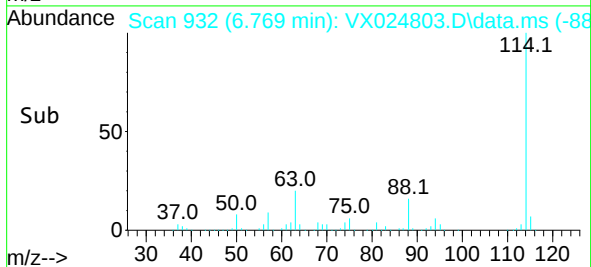
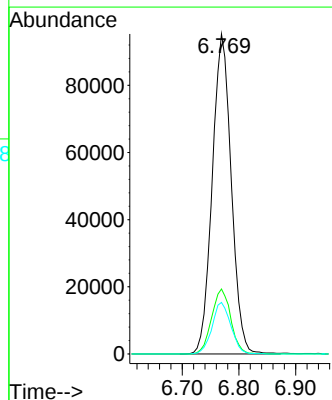
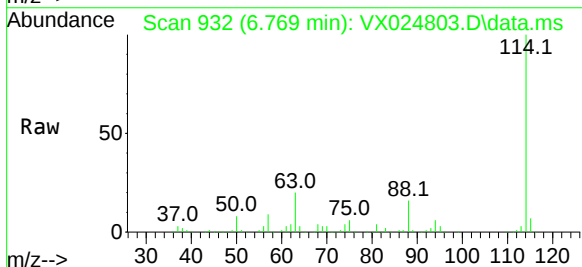
Tgt Ion: 114 Resp: 221834

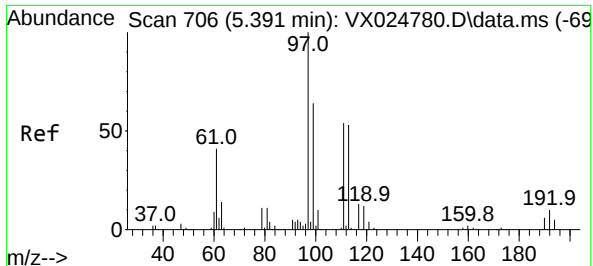
Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.0

88 16.1 0.0 34.8

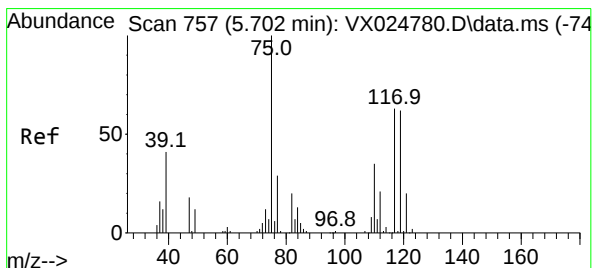
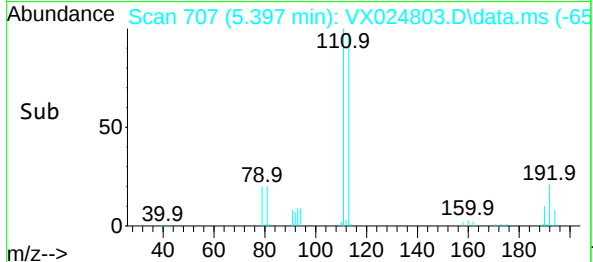
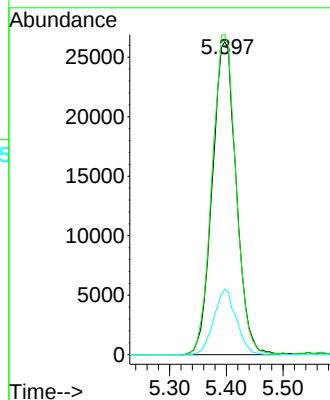
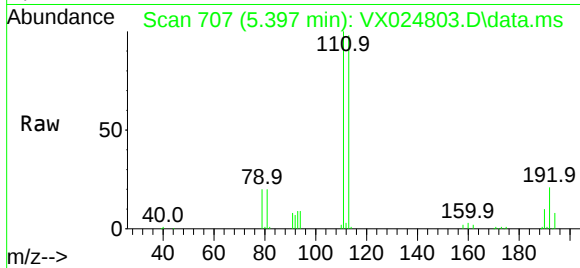




#35  
Dibromofluoromethane  
Concen: 58.356 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

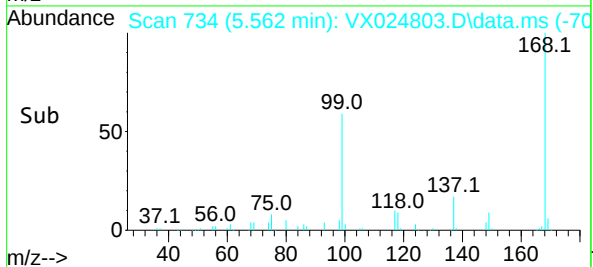
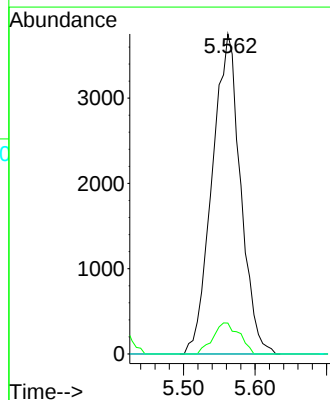
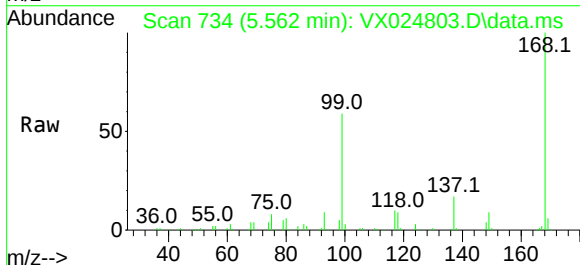
Instrument :  
MSVOA\_X  
ClientSampled :  
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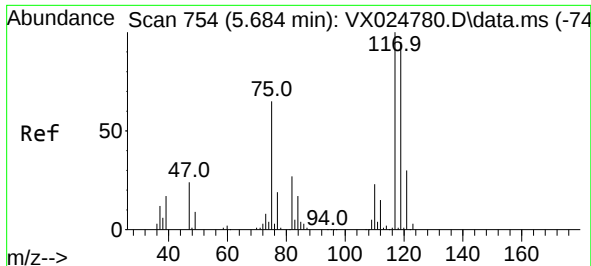
Tgt Ion:113 Resp: 77066  
Ion Ratio Lower Upper  
113 100  
111 102.4 82.1 123.1  
192 19.6 15.6 23.4



#36  
1,1-Dichloropropene  
Concen: 5.269 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

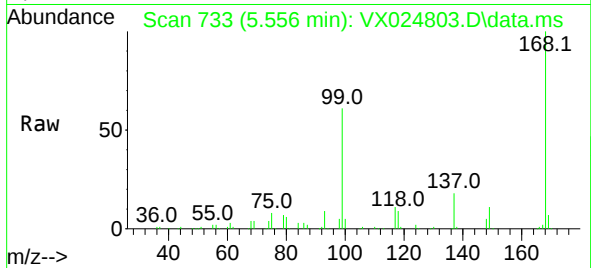
Tgt Ion: 75 Resp: 10344  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.1 54.3#  
77 0.0 24.4 36.6#



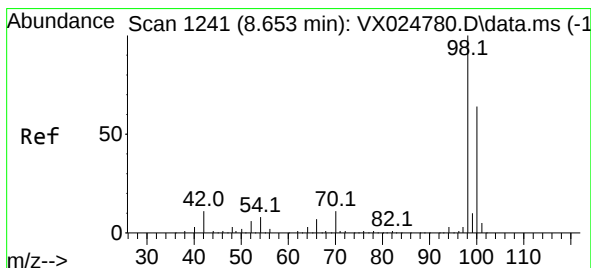
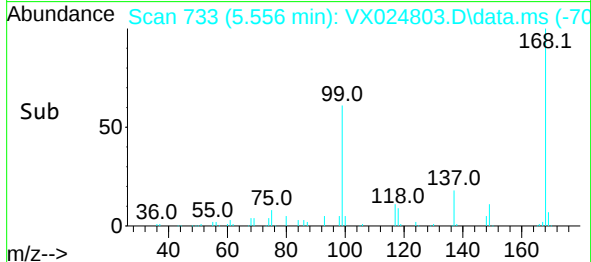
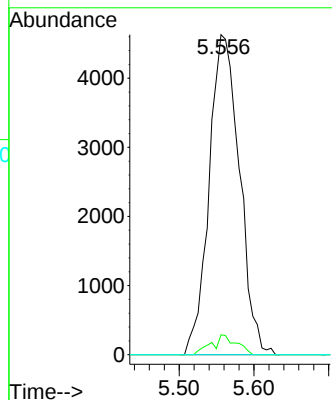


#38  
Carbon Tetrachloride  
Concen: 5.937 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
TRIP-BLANK

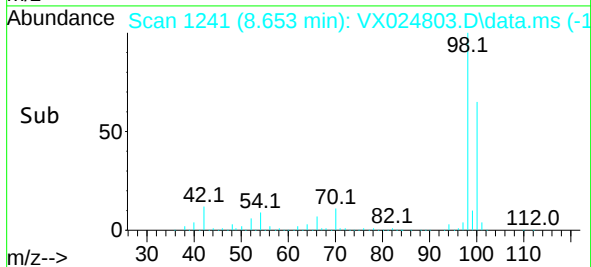
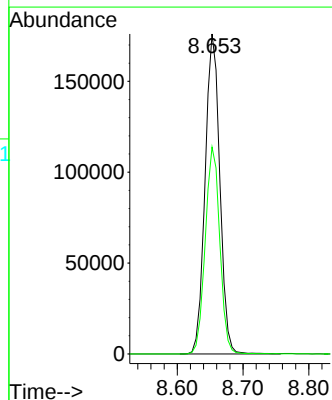
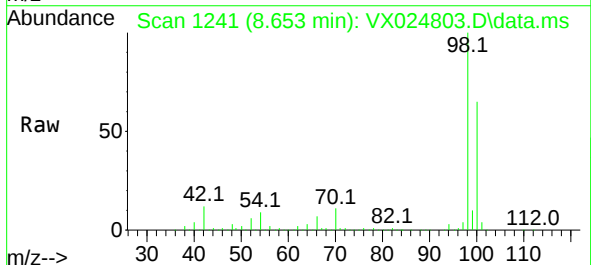


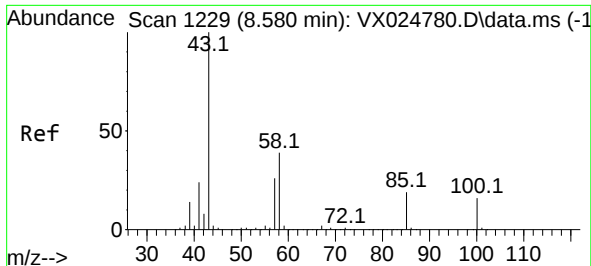
Tgt Ion:117 Resp: 13059  
Ion Ratio Lower Upper  
117 100  
119 6.2 75.6 113.4#  
121 0.0 23.7 35.5#



#50  
Toluene-d8  
Concen: 56.070 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Tgt Ion: 98 Resp: 273900  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.4 77.0

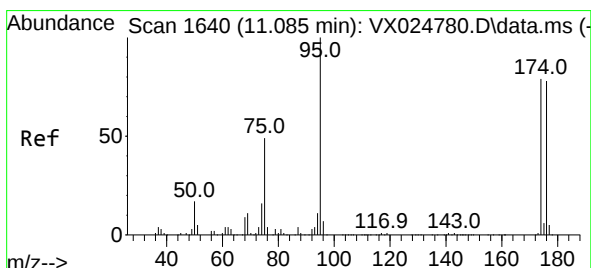
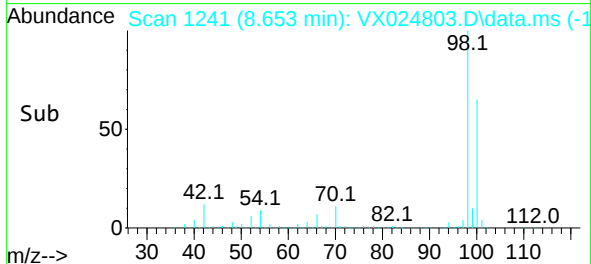
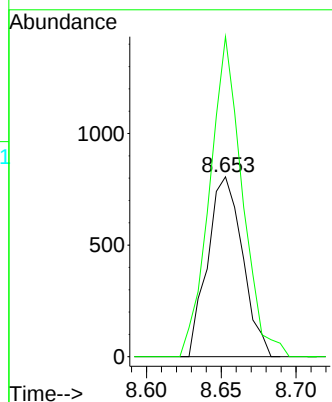
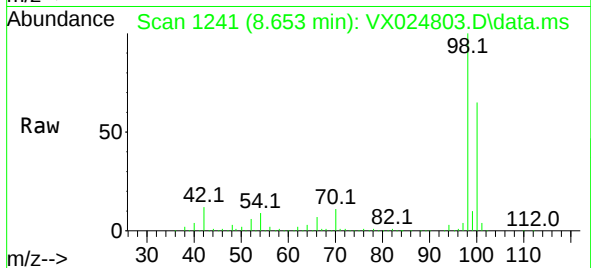




#51  
4-Methyl-2-Pentanone  
Concen: 0.563 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

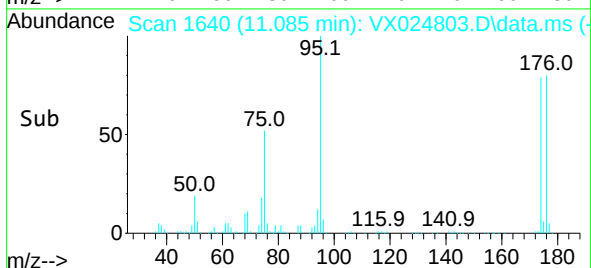
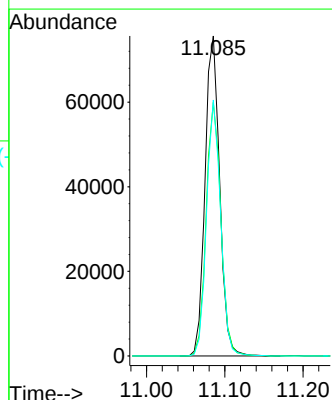
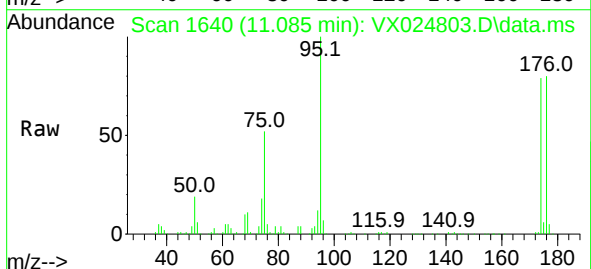
Instrument :  
MSVOA\_X  
ClientSampleId :  
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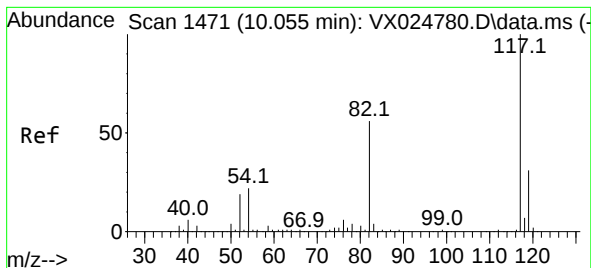
Tgt Ion: 43 Resp: 1307  
Ion Ratio Lower Upper  
43 100  
58 166.5 30.9 46.3#



#62  
4-Bromofluorobenzene  
Concen: 50.927 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Tgt Ion: 95 Resp: 97845  
Ion Ratio Lower Upper  
95 100  
174 79.5 0.0 158.0  
176 77.0 0.0 153.6

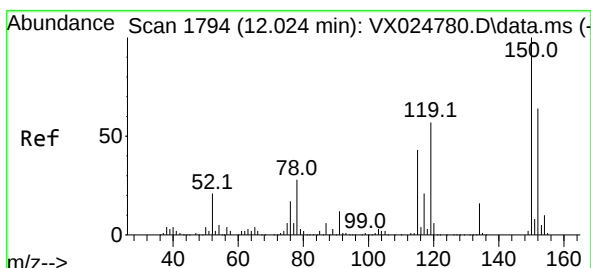
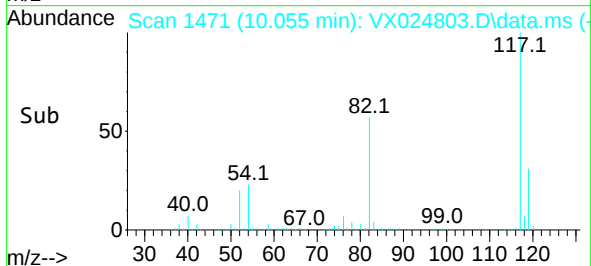
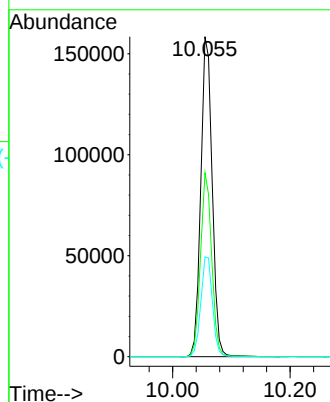
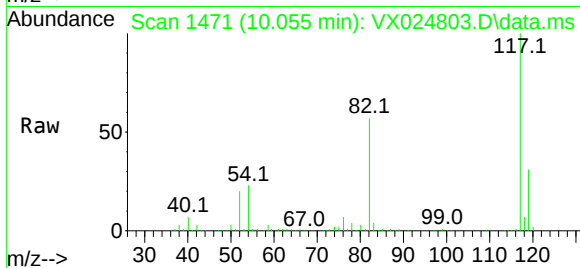




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

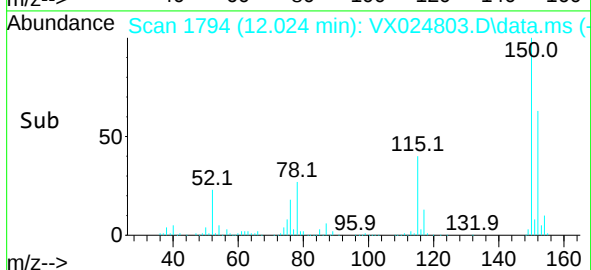
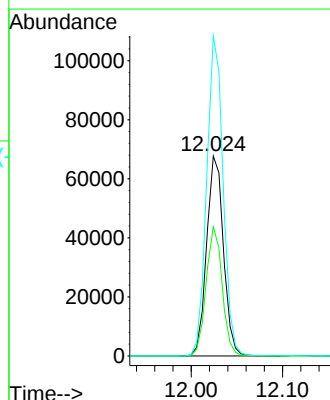
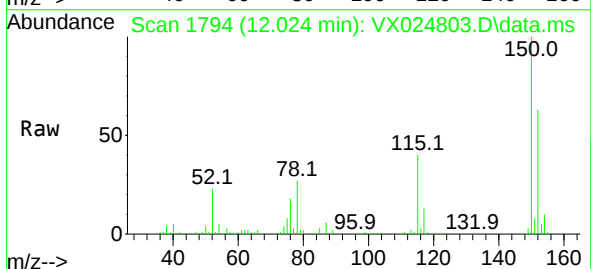
Instrument :  
MSVOA\_X  
ClientSampleId :  
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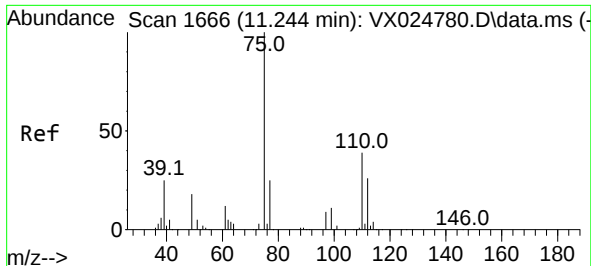
Tgt Ion:117 Resp: 213629  
Ion Ratio Lower Upper  
117 100  
82 57.4 44.6 67.0  
119 31.2 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Tgt Ion:152 Resp: 86573  
Ion Ratio Lower Upper  
152 100  
115 61.8 43.3 129.8  
150 156.1 0.0 351.2

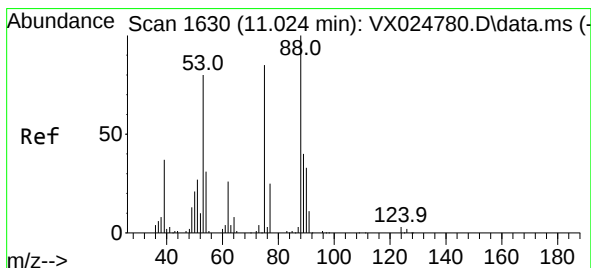
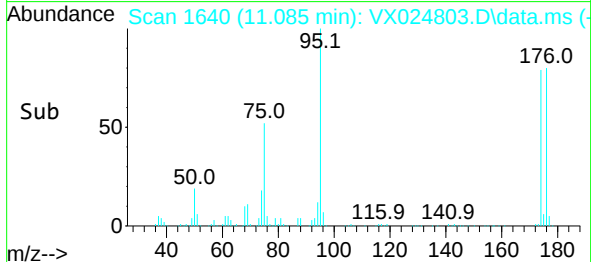
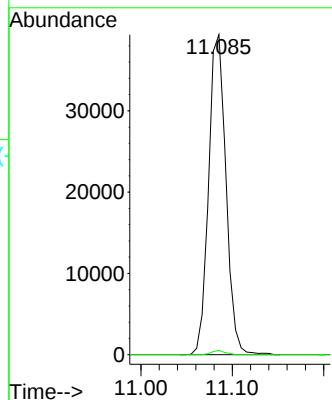
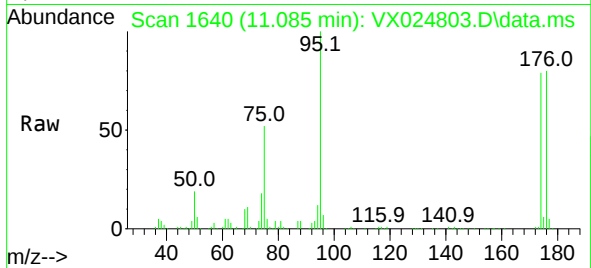




#76  
1,2,3-Trichloropropane  
Concen: 28.762 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
TRIP-BLANK

Tgt Ion: 75 Resp: 51948  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.355 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024803.D  
Acq: 13 Oct 2021 23:06

Tgt Ion: 75 Resp: 51948  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.0 38.2 57.2#

