

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121024\  
 Data File : VX044214.D  
 Acq On : 10 Dec 2024 17:33  
 Operator : JC/MD  
 Sample : P5246-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 11 01:39:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 22 03:45:52 2024  
 Response via : Initial Calibration

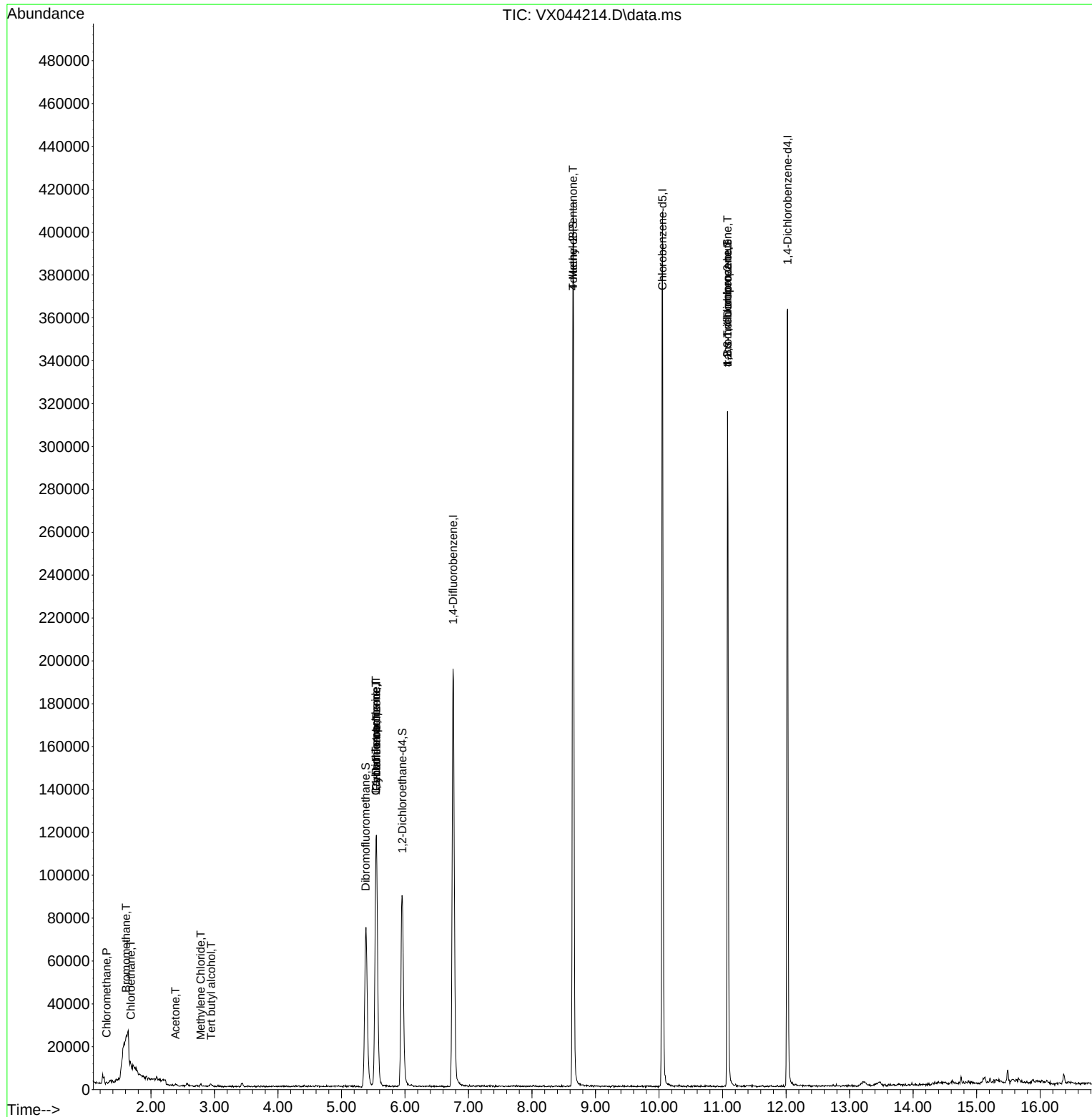
| Compound                      | R.T. QIon |       | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|-----------|-------|----------|--------|----------|----------|
| -----                         |           |       |          |        |          |          |
| Internal Standards            |           |       |          |        |          |          |
| 1) Pentafluorobenzene         | 5.550     | 168   | 97758    | 50.000 | ug/l     | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.757     | 114   | 191902   | 50.000 | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 171864   | 50.000 | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 71791    | 50.000 | ug/l     | 0.00     |
| System Monitoring Compounds   |           |       |          |        |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 91125    | 54.347 | ug/l     | 0.01     |
| Spiked Amount 50.000          | Range 74  | - 125 | Recovery | =      | 108.700% |          |
| 35) Dibromofluoromethane      | 5.379     | 113   | 63256    | 46.131 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 75  | - 124 | Recovery | =      | 92.260%  |          |
| 50) Toluene-d8                | 8.647     | 98    | 234469   | 49.604 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 86  | - 113 | Recovery | =      | 99.200%  |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 80939    | 50.315 | ug/l     | 0.00     |
| Spiked Amount 50.000          | Range 77  | - 121 | Recovery | =      | 100.620% |          |
| Target Compounds              |           |       |          |        |          |          |
|                               |           |       |          |        | Qvalue   |          |
| 3) Chloromethane              | 1.301     | 50    | 344      | 0.264  | ug/l #   | 82       |
| 5) Bromomethane               | 1.605     | 94    | 432      | 0.507  | ug/l #   | 48       |
| 6) Chloroethane               | 1.685     | 64    | 207      | 0.245  | ug/l #   | 42       |
| 11) Tert butyl alcohol        | 2.947     | 59    | 450      | 1.672  | ug/l #   | 73       |
| 16) Acetone                   | 2.386     | 43    | 1054     | 1.369  | ug/l #   | 77       |
| 20) Methylene Chloride        | 2.782     | 84    | 421      | 0.322  | ug/l #   | 76       |
| 31) Cyclohexane               | 5.550     | 56    | 3226     | 1.726  | ug/l #   | 1        |
| 36) 1,1-Dichloropropene       | 5.544     | 75    | 9823     | 5.749  | ug/l #   | 50       |
| 38) Carbon Tetrachloride      | 5.544     | 117   | 12712    | 6.621  | ug/l #   | 19       |
| 51) 4-Methyl-2-Pentanone      | 8.647     | 43    | 1243     | 0.603  | ug/l #   | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 47286    | 30.035 | ug/l #   | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 47286    | 81.958 | ug/l #   | 6        |
| -----                         |           |       |          |        |          |          |

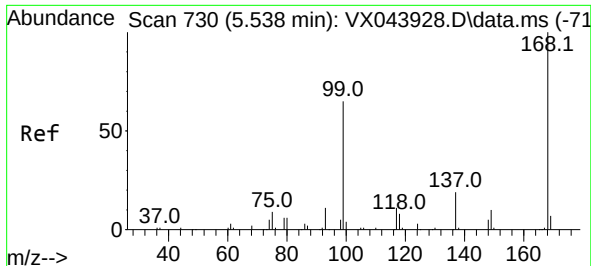
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121024\  
Data File : VX044214.D  
Acq On    : 10 Dec 2024  17:33  
Operator  : JC/MD  
Sample    : P5246-02  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 19    Sample Multiplier: 1
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**Instrument :**  
MSVOA\_X  
**ClientSampleId :**

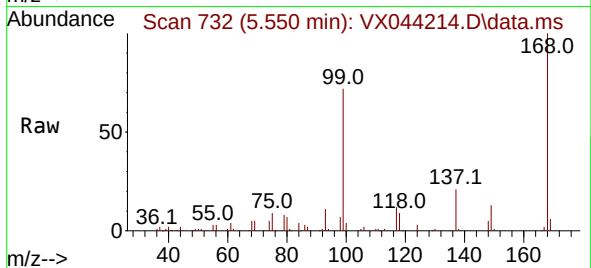
Quant Time: Dec 11 01:39:02 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
Quant Title : SW846 8260  
Qlast Update : Fri Nov 22 03:45:52 2024  
Response via : Initial Calibration



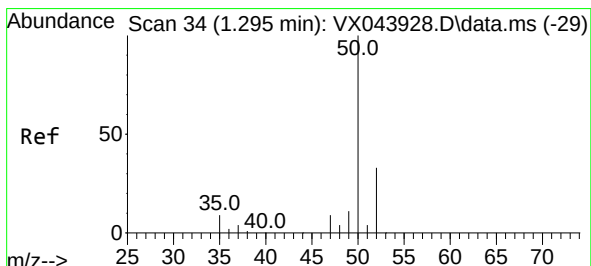
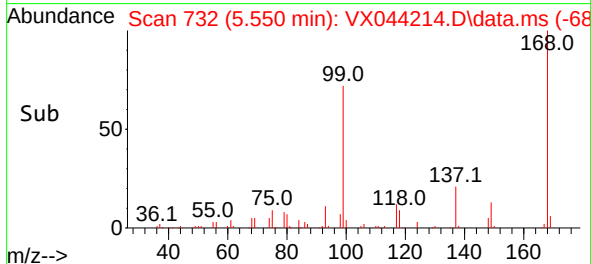
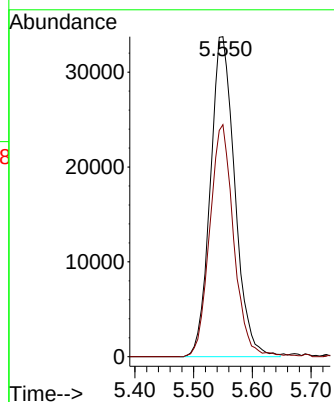


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Instrument :  
MSVOA\_X  
ClientSampleId :

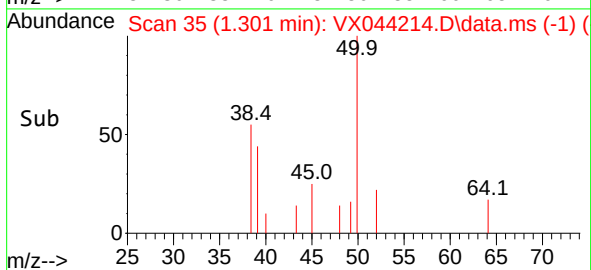
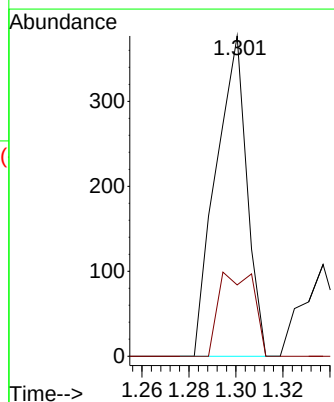
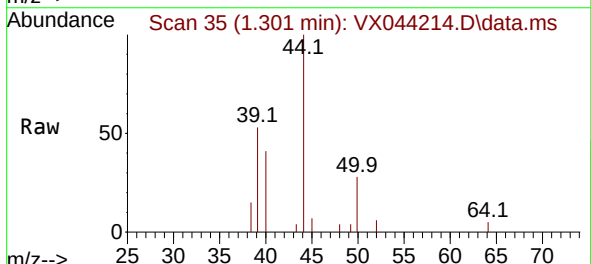


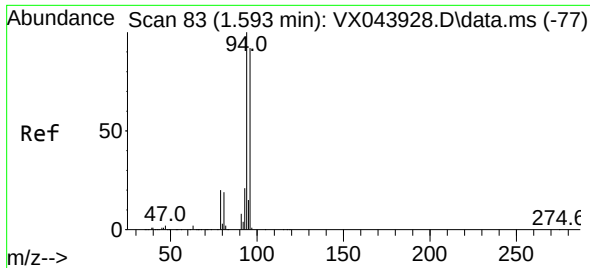
Tgt Ion:168 Resp: 97758  
Ion Ratio Lower Upper  
168 100  
99 72.5 51.8 77.8



#3  
Chloromethane  
Concen: 0.264 ug/l  
RT: 1.301 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Tgt Ion: 50 Resp: 344  
Ion Ratio Lower Upper  
50 100  
52 22.3 26.1 39.1#

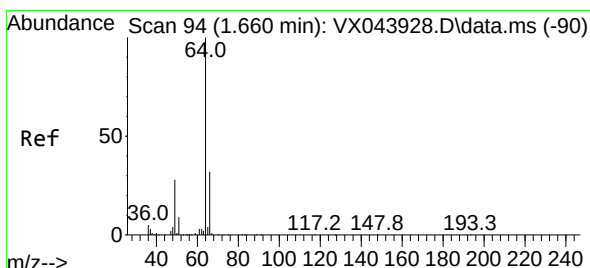
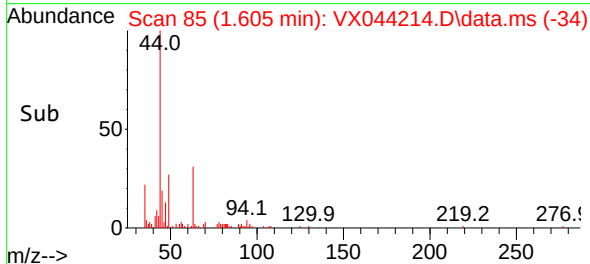
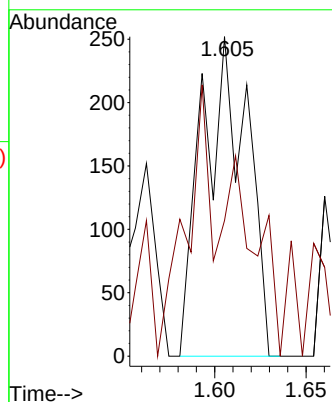
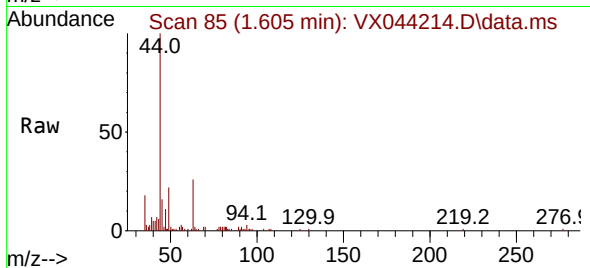




#5  
Bromomethane  
Concen: 0.507 ug/l  
RT: 1.605 min Scan# 81  
Delta R.T. 0.012 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

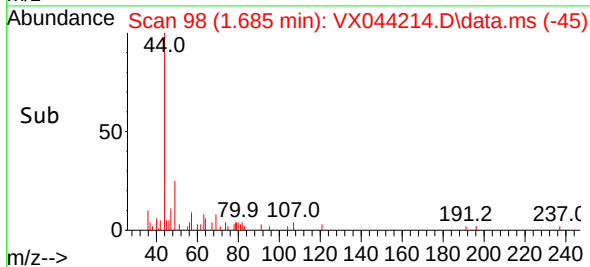
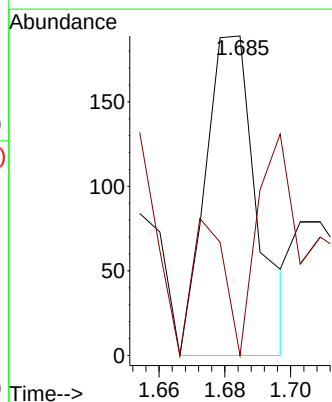
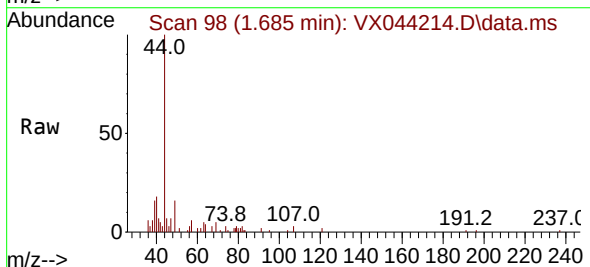
Instrument :  
MSVOA\_X  
ClientSampleId :

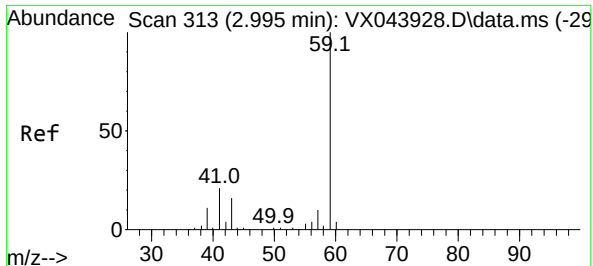
Tgt Ion: 94 Resp: 432  
Ion Ratio Lower Upper  
94 100  
96 42.5 73.9 110.9#



#6  
Chloroethane  
Concen: 0.245 ug/l  
RT: 1.685 min Scan# 98  
Delta R.T. 0.024 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

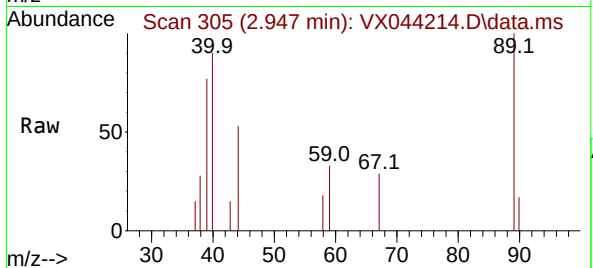
Tgt Ion: 64 Resp: 207  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.9 38.9#



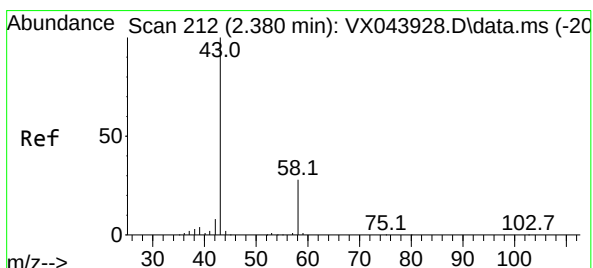
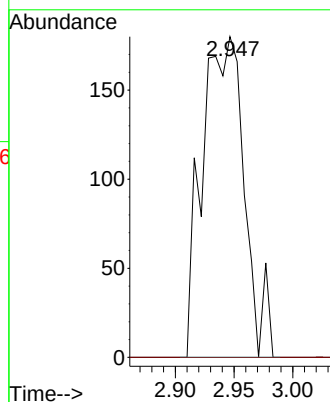
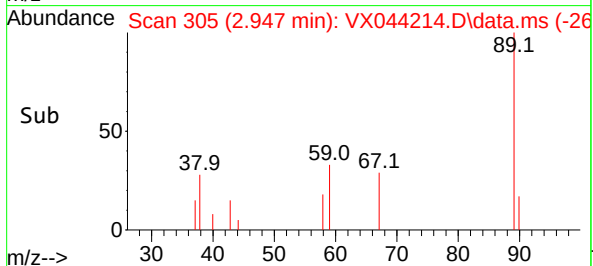


#11  
Tert butyl alcohol  
Concen: 1.672 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.049 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Instrument :  
MSVOA\_X  
ClientSampleId :

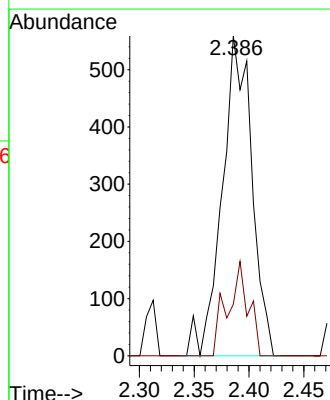
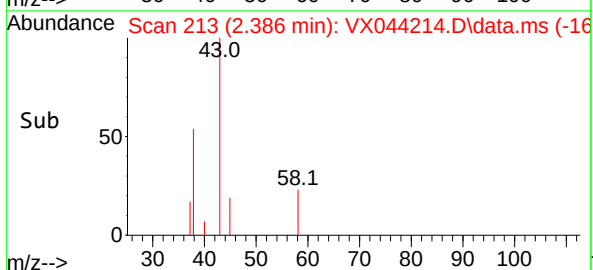
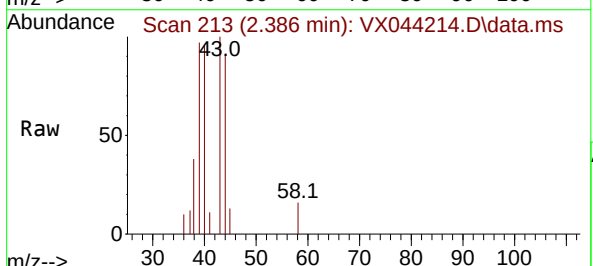


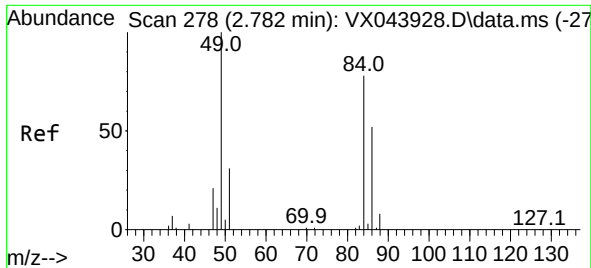
Tgt Ion: 59 Resp: 450  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#



#16  
Acetone  
Concen: 1.369 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Tgt Ion: 43 Resp: 1054  
Ion Ratio Lower Upper  
43 100  
58 16.1 22.7 34.1#

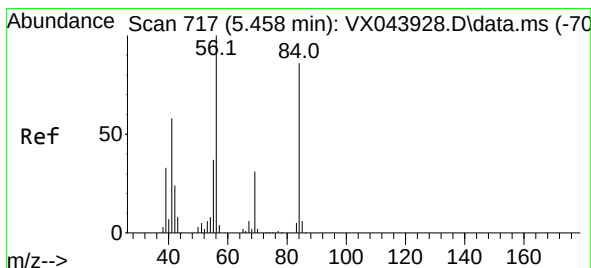
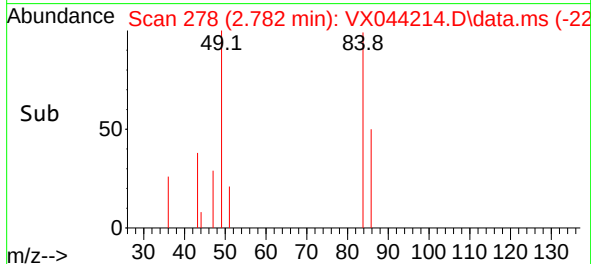
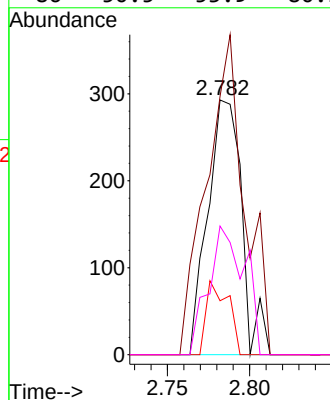
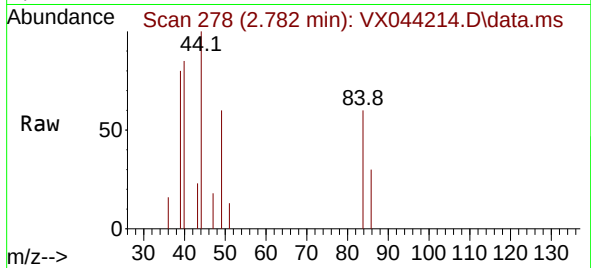




#20  
Methylene Chloride  
Concen: 0.322 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

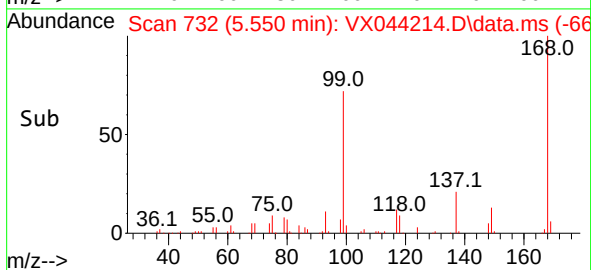
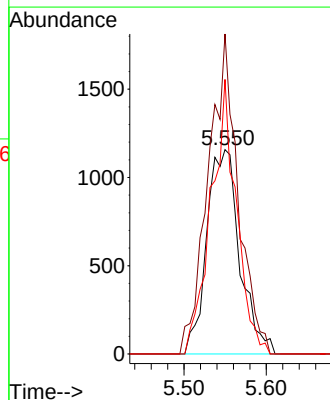
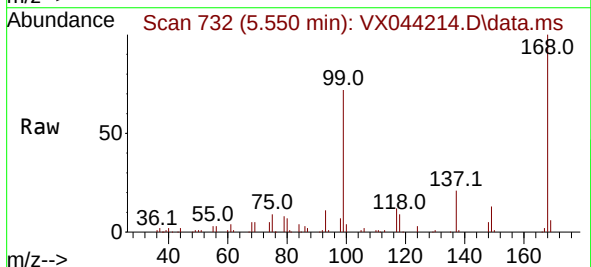
Instrument :  
MSVOA\_X  
ClientSampleId :

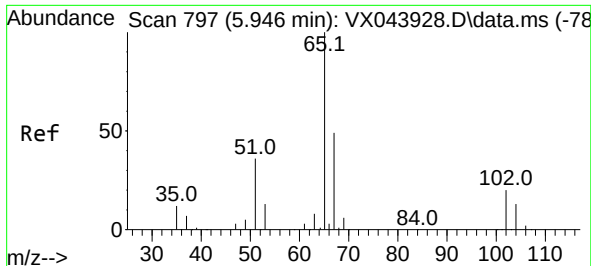
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 421    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 101.4 | 102.7 | 154.1# |
| 51       | 21.2  | 31.7  | 47.5#  |
| 86       | 50.5  | 53.9  | 80.9#  |



#31  
Cyclohexane  
Concen: 1.726 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.091 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3226   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 156.6 | 24.7  | 37.1#  |
| 84       | 134.4 | 68.7  | 103.1# |

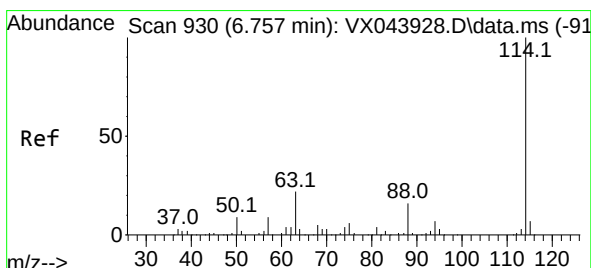
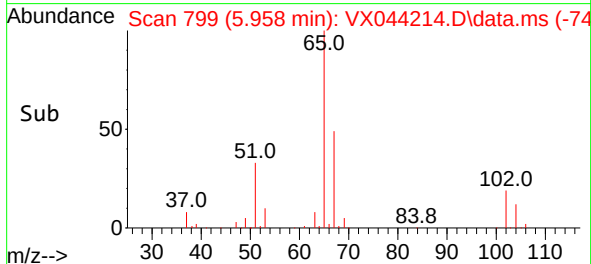
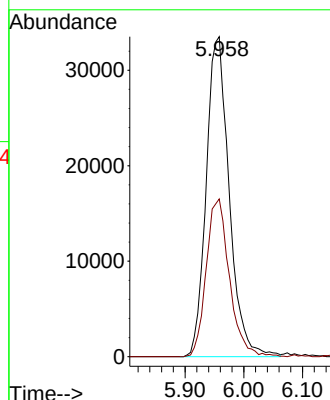
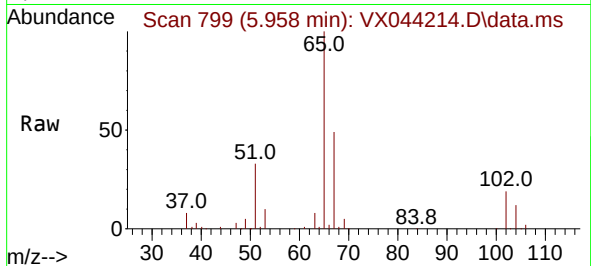




#33  
1,2-Dichloroethane-d4  
Concen: 54.347 ug/l  
RT: 5.958 min Scan# 797  
Delta R.T. 0.012 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

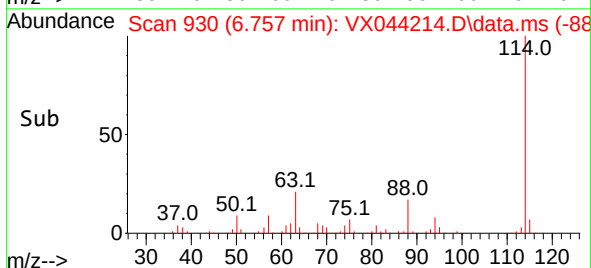
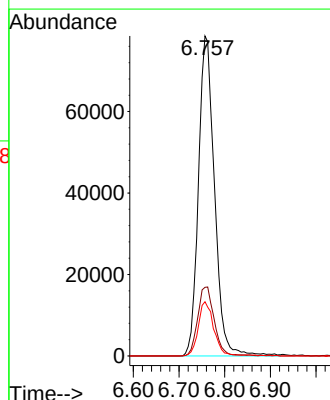
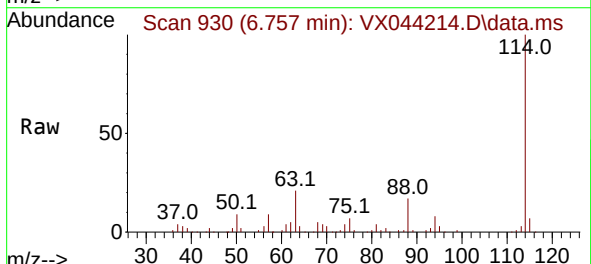
Instrument :  
MSVOA\_X  
ClientSampleId :

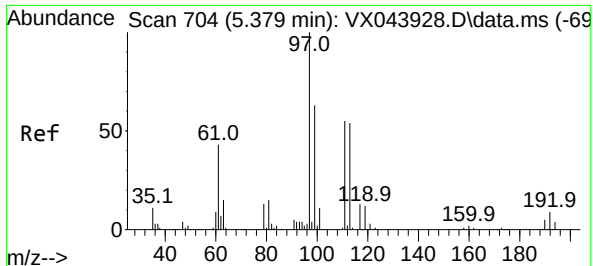
Tgt Ion: 65 Resp: 91125  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 100.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.000 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Tgt Ion: 114 Resp: 191902  
Ion Ratio Lower Upper  
114 100  
63 21.5 0.0 44.0  
88 17.0 0.0 32.4





#35

Dibromofluoromethane

Concen: 46.131 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

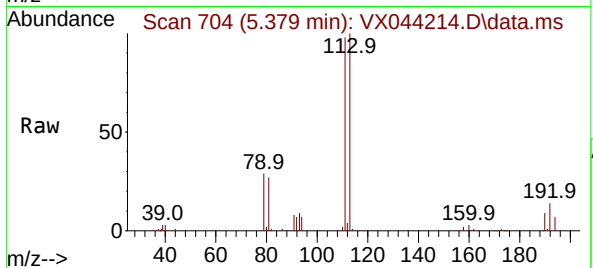
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Acq: 10 Dec 2024 17:33

Instrument :

MSVOA\_X

ClientSampleId :



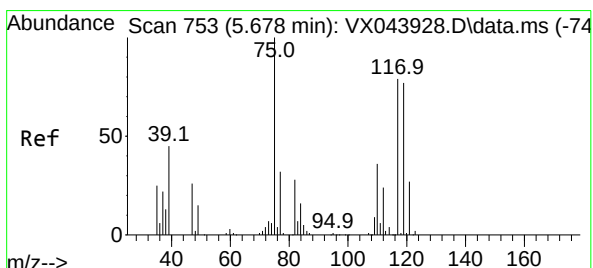
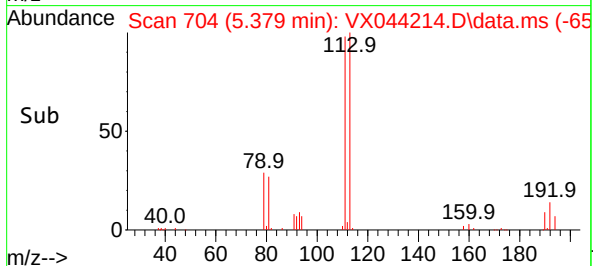
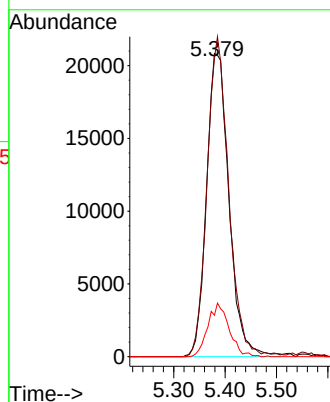
Tgt Ion:113 Resp: 63256

Ion Ratio Lower Upper

113 100

111 101.3 81.0 121.4

192 16.6 13.0 19.6



#36

1,1-Dichloropropene

Concen: 5.749 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.134 min

Lab File: VX044214.D

Acq: 10 Dec 2024 17:33

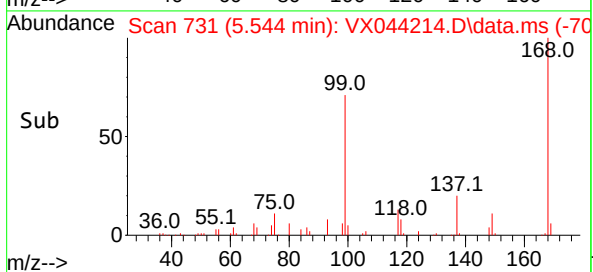
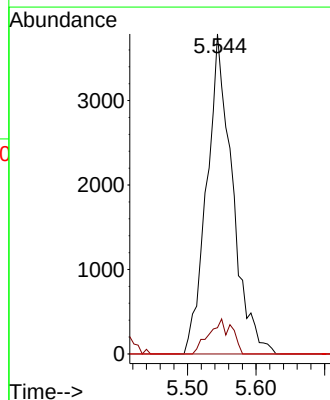
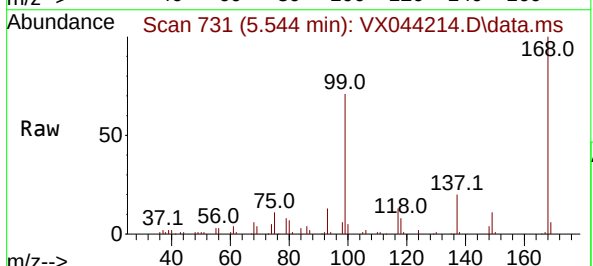
Tgt Ion: 75 Resp: 9823

Ion Ratio Lower Upper

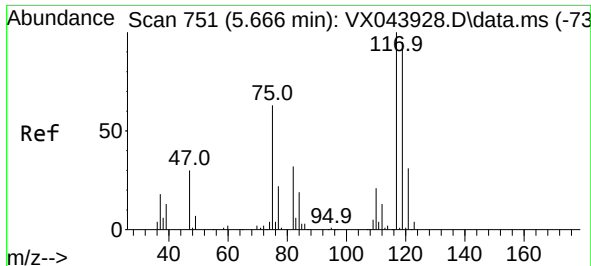
75 100

110 9.8 17.4 52.2#

77 0.0 25.8 38.8#

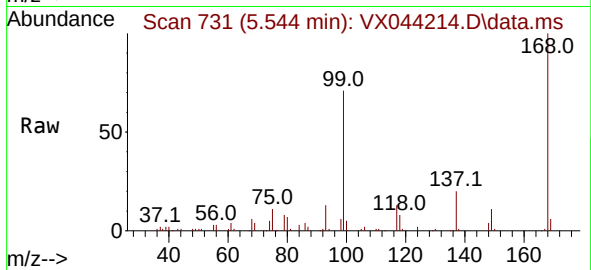




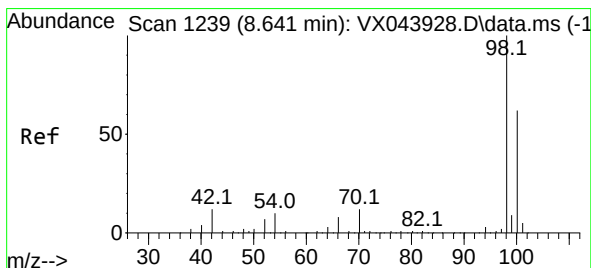
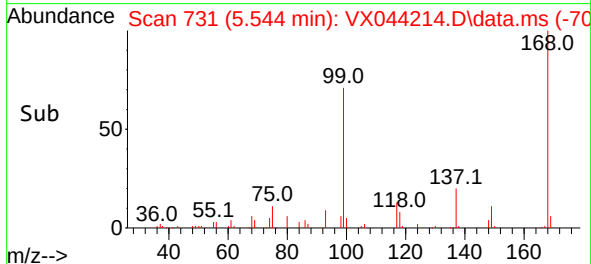
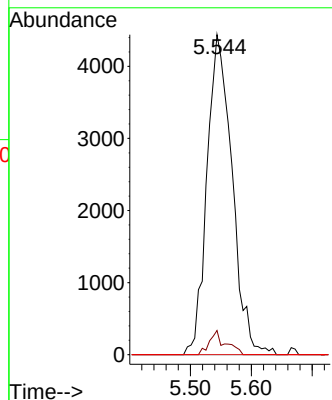


#38  
Carbon Tetrachloride  
Concen: 6.621 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Instrument :  
MSVOA\_X  
ClientSampleId :

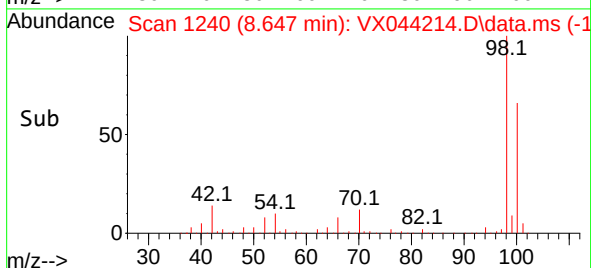
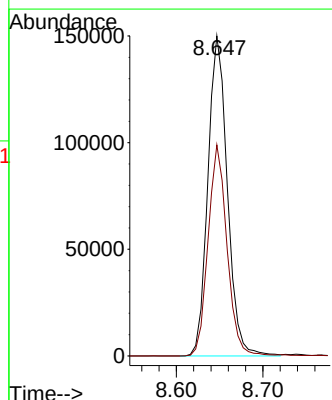
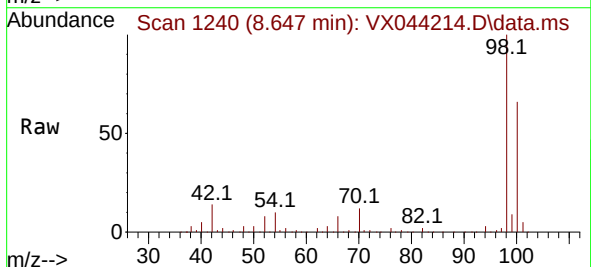


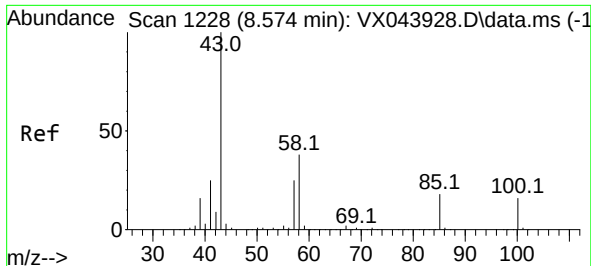
Tgt Ion:117 Resp: 12712  
Ion Ratio Lower Upper  
117 100  
119 7.6 75.2 112.8#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 49.604 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Tgt Ion: 98 Resp: 234469  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.6 79.0

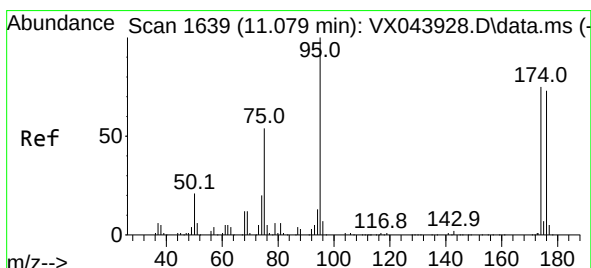
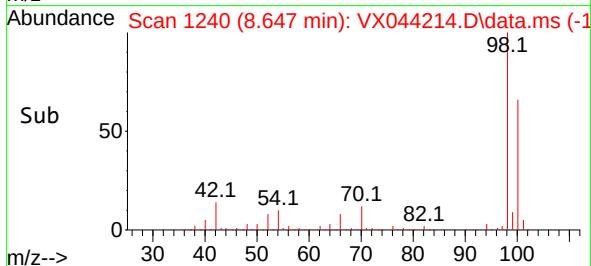
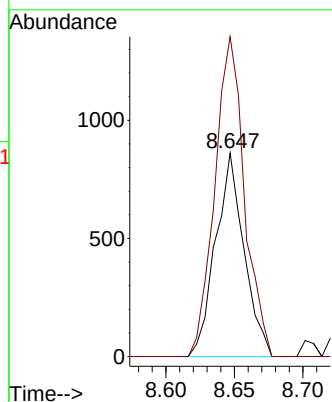
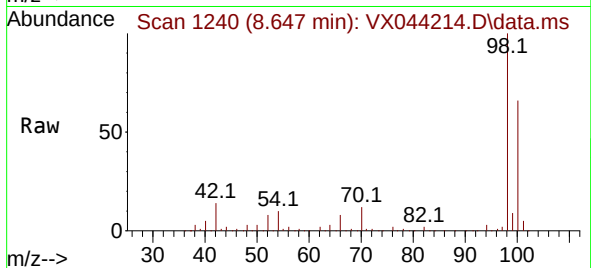




#51  
4-Methyl-2-Pentanone  
Concen: 0.603 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

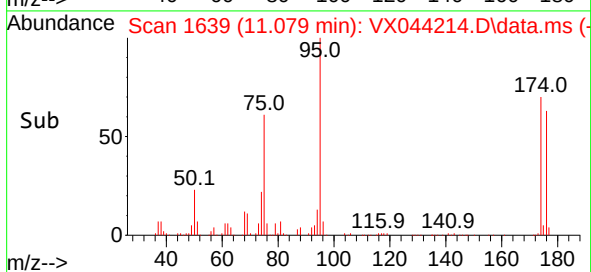
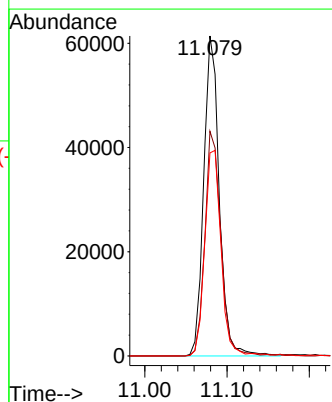
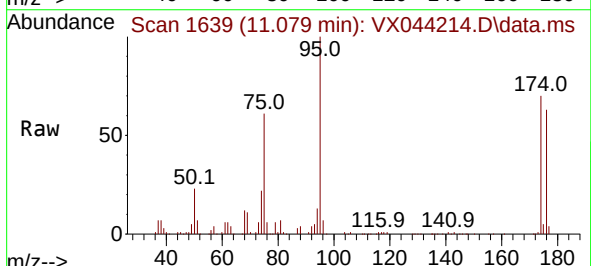
Instrument :  
MSVOA\_X  
ClientSampleId :

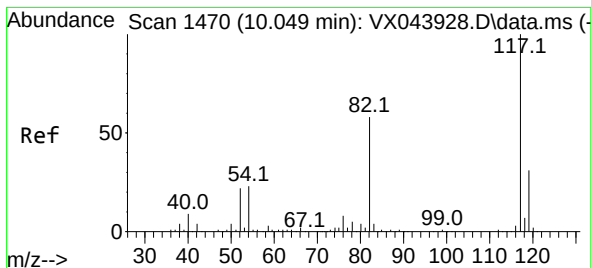
Tgt Ion: 43 Resp: 1243  
Ion Ratio Lower Upper  
43 100  
58 163.9 30.0 45.0#



#62  
4-Bromofluorobenzene  
Concen: 50.315 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Tgt Ion: 95 Resp: 80939  
Ion Ratio Lower Upper  
95 100  
174 72.0 0.0 150.4  
176 67.4 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX044214.D

Acq: 10 Dec 2024 17:33

Instrument :

MSVOA\_X

ClientSampleId :

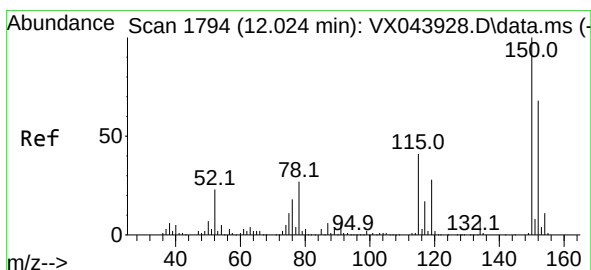
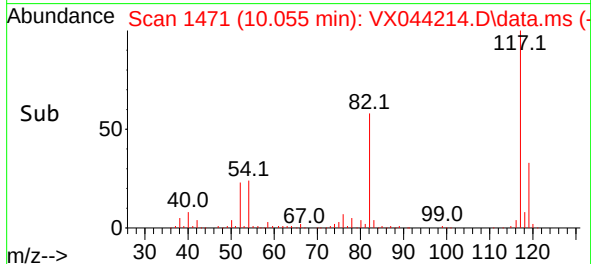
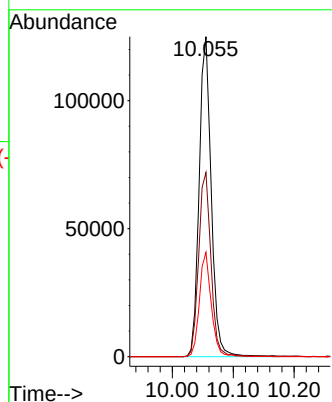
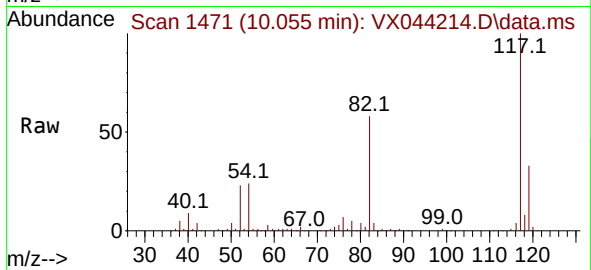
Tgt Ion:117 Resp: 171864

Ion Ratio Lower Upper

117 100

82 57.5 46.4 69.6

119 32.6 24.6 37.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX044214.D

Acq: 10 Dec 2024 17:33

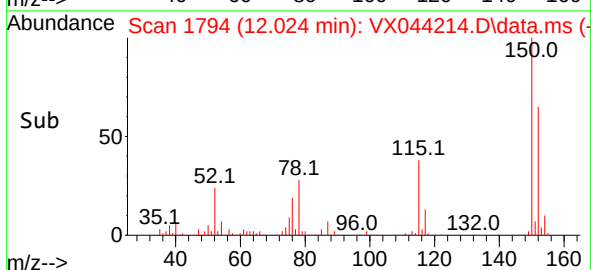
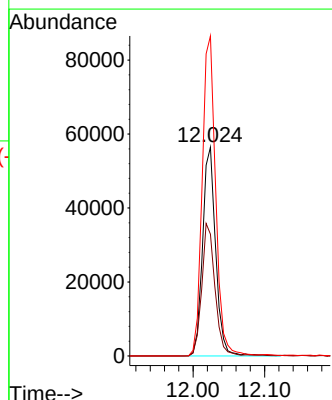
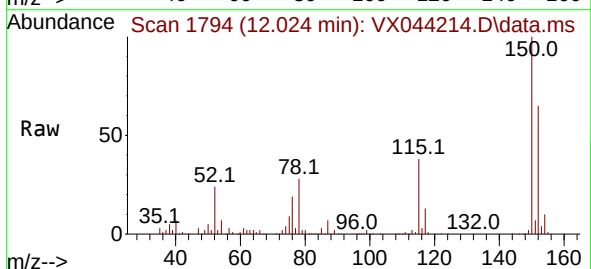
Tgt Ion:152 Resp: 71791

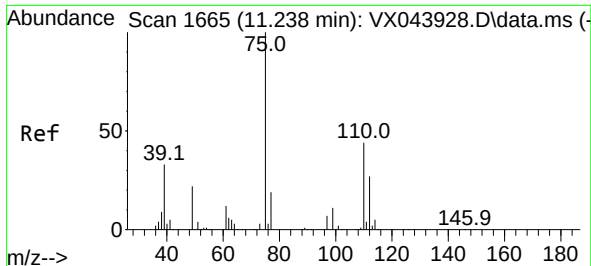
Ion Ratio Lower Upper

152 100

115 64.5 45.4 136.2

150 157.2 0.0 353.0

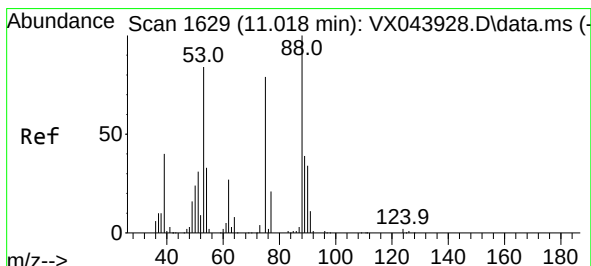
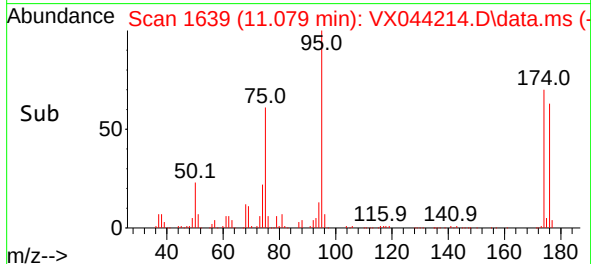
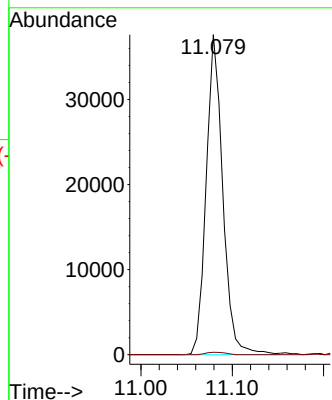
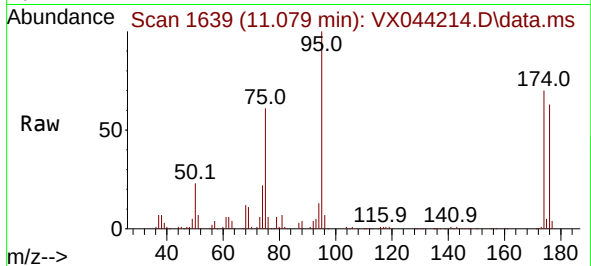




#76  
1,2,3-Trichloropropane  
Concen: 30.035 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 47286  
Ion Ratio Lower Upper  
75 100  
77 0.9 21.8 65.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.958 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX044214.D  
Acq: 10 Dec 2024 17:33

Tgt Ion: 75 Resp: 47286  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.7 130.1#  
89 0.0 38.2 57.2#

