

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102124\  
 Data File : VX043454.D  
 Acq On : 21 Oct 2024 15:02  
 Operator : JC/MD  
 Sample : P4425-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 21 17:42:00 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

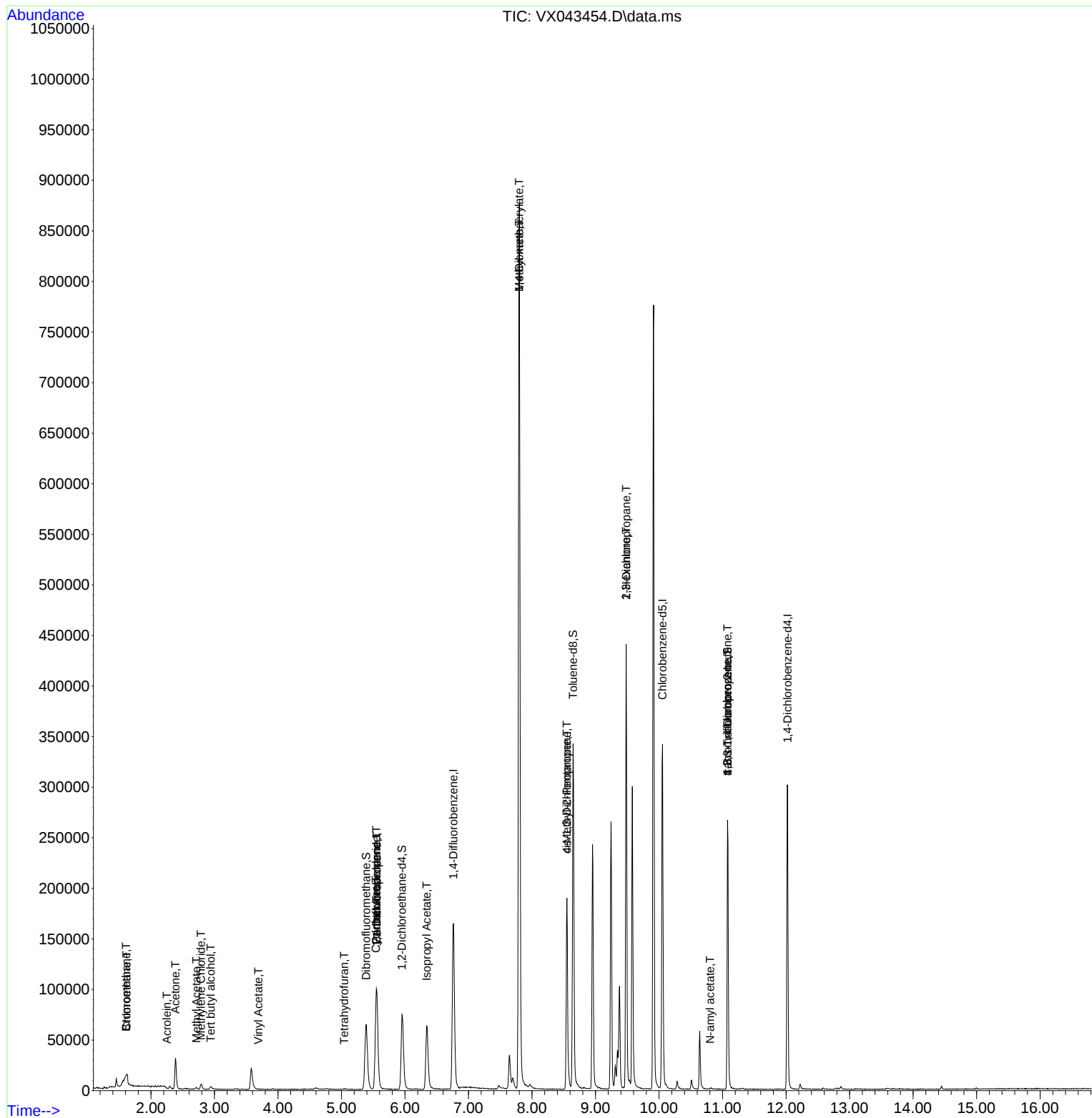
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 90808    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 167748   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 150365   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 64255    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 75662    | 51.018   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 102.040% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 56851    | 49.143   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 98.280%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 200341   | 49.972   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 99.940%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 73271    | 50.308   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 100.620% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 5) Bromomethane               | 1.605  | 94    | 232      | 0.521    | ug/l #     | 51       |
| 6) Chloroethane               | 1.617  | 64    | 89       | 0.219    | ug/l #     | 1        |
| 11) Tert butyl alcohol        | 2.940  | 59    | 1984     | 7.030    | ug/l #     | 71       |
| 13) Acrolein                  | 2.251  | 56    | 206      | 0.773    | ug/l #     | 14       |
| 16) Acetone                   | 2.386  | 43    | 33525    | 54.131   | ug/l       | 96       |
| 18) Methyl Acetate            | 2.715  | 43    | 2461     | 1.584    | ug/l       | 96       |
| 20) Methylene Chloride        | 2.788  | 84    | 2735     | 2.395    | ug/l       | 95       |
| 23) Vinyl Acetate             | 3.690  | 43    | 30       | 6.347    | ug/l #     | 71       |
| 29) Tetrahydrofuran           | 5.044  | 42    | 646      | 1.194    | ug/l #     | 37       |
| 31) Cyclohexane               | 5.544  | 56    | 2330     | 1.456    | ug/l #     | 8        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 8318     | 5.691    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 10420    | 6.023    | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 90865    | 31.345   | ug/l       | 99       |
| 48) Methyl methacrylate       | 7.799  | 41    | 80465    | 56.571   | ug/l #     | 43       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 41       | 1.483    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 69496    | 39.472   | ug/l #     | 52       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 29301    | 16.048   | ug/l #     | 59       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 3642     | 1.937    | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 53179    | 39.942   | ug/l #     | 53       |
| 74) N-amyl acetate            | 10.805 | 43    | 483      | 0.204    | ug/l #     | 49       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 40368    | 28.324   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 40368    | 73.405   | ug/l #     | 8        |

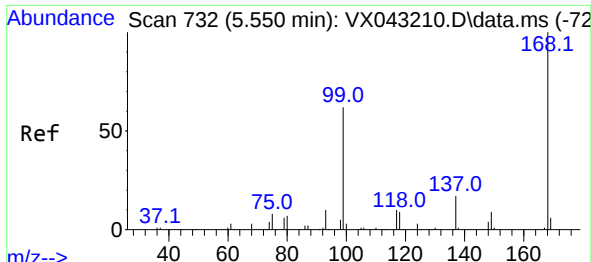
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102124\  
Data File : VX043454.D  
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Operator : JC/MD  
Sample : P4425-08  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

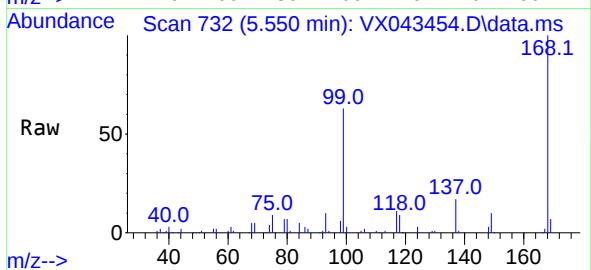
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 16:50:57 2024  
Response via : Initial Calibration



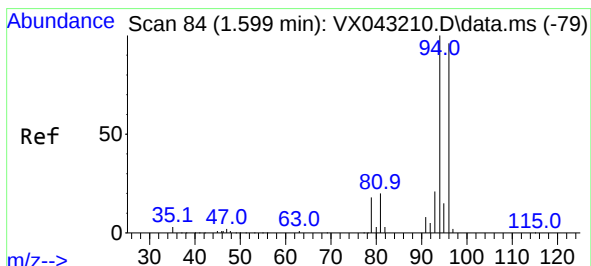
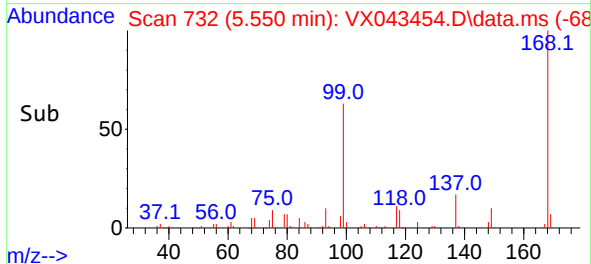
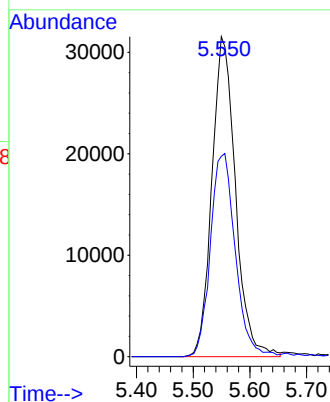


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :

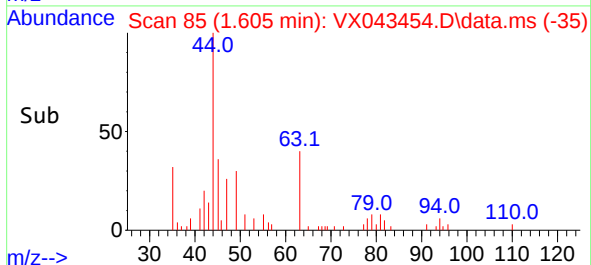
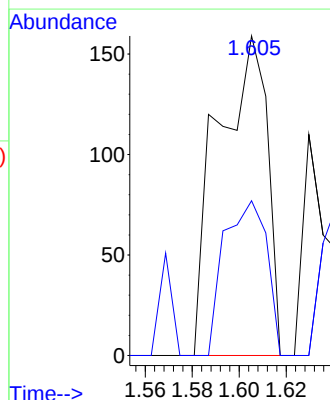
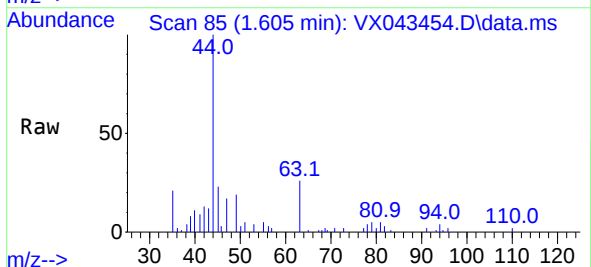


Tgt Ion:168 Resp: 90808  
Ion Ratio Lower Upper  
168 100  
99 62.6 49.7 74.5

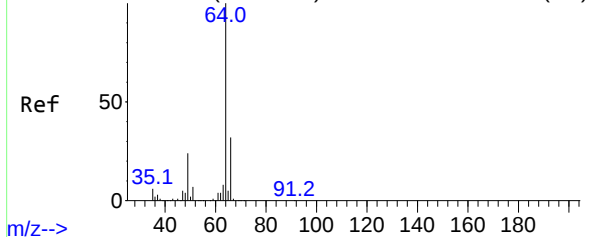


#5  
Bromomethane  
Concen: 0.521 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 94 Resp: 232  
Ion Ratio Lower Upper  
94 100  
96 48.4 76.6 115.0#



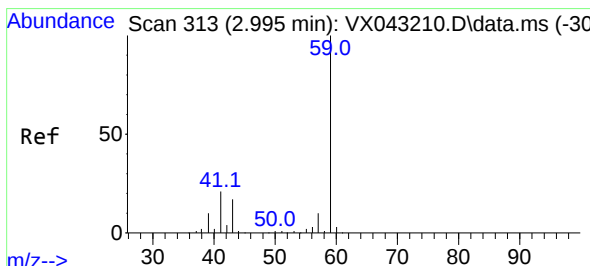
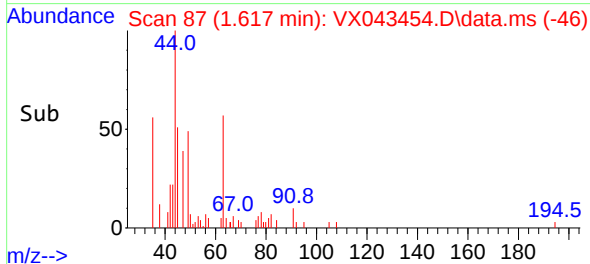
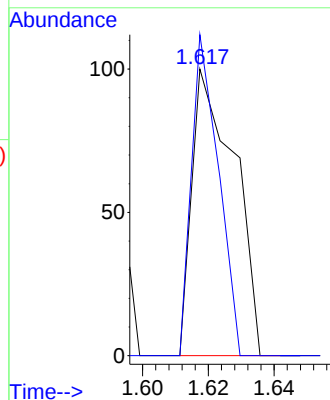
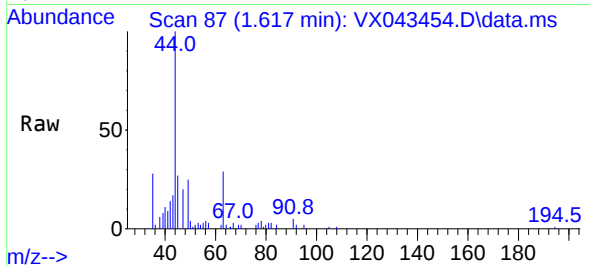
Abundance Scan 95 (1.666 min): VX043210.D\data.ms (-87)



#6  
Chloroethane  
Concen: 0.219 ug/l  
RT: 1.617 min Scan# 81  
Delta R.T. -0.049 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

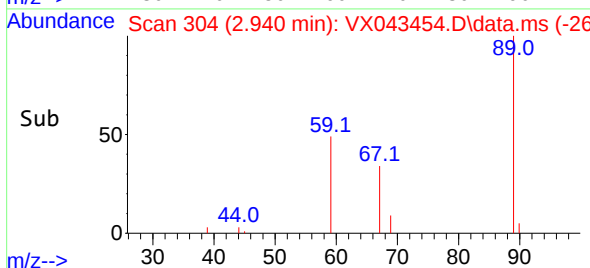
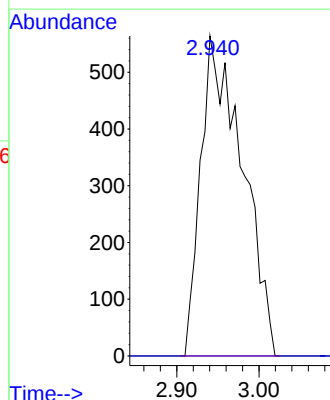
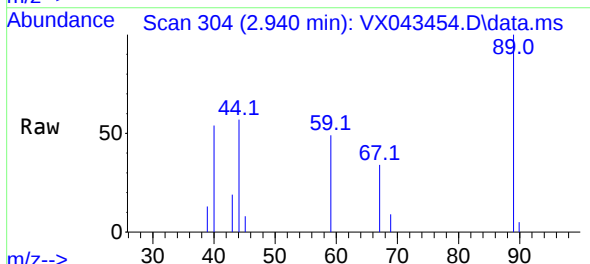
Instrument :  
MSVOA\_X  
ClientSampleId :

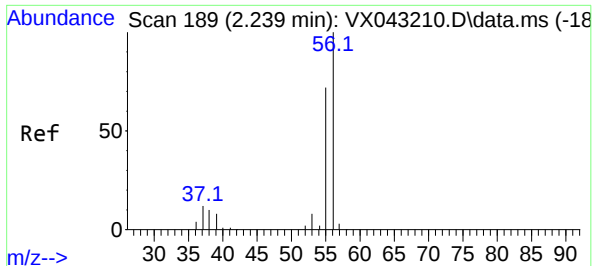
Tgt Ion: 64 Resp: 89  
Ion Ratio Lower Upper  
64 100  
66 112.0 25.8 38.8#



#11  
Tert butyl alcohol  
Concen: 7.030 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.055 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

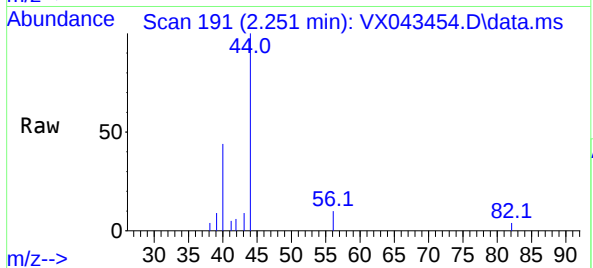
Tgt Ion: 59 Resp: 1984  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#



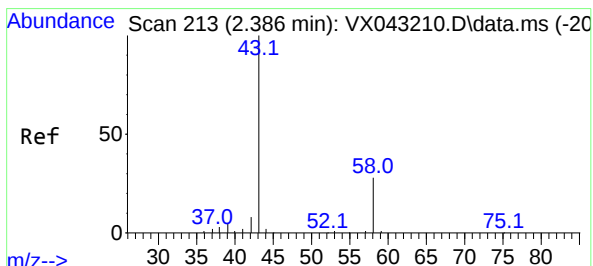
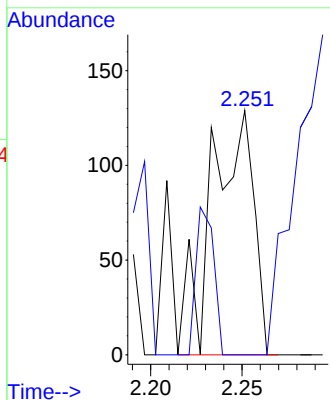
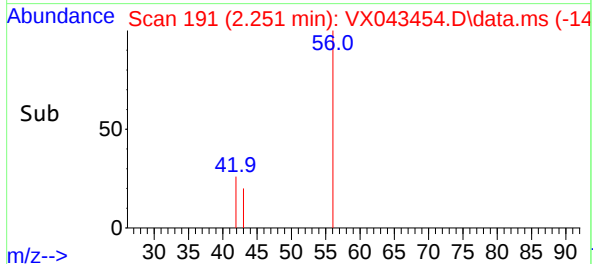


#13  
Acrolein  
Concen: 0.773 ug/l  
RT: 2.251 min Scan# 191  
Delta R.T. 0.012 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :

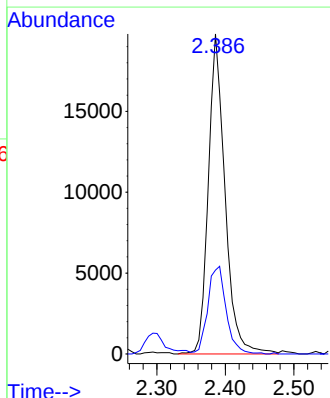
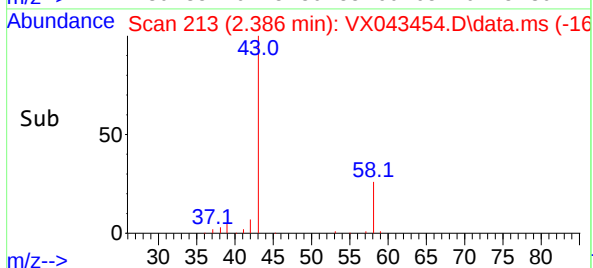
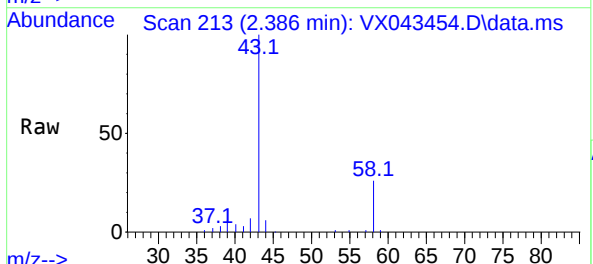


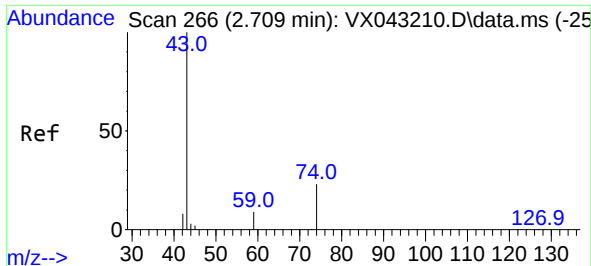
Tgt Ion: 56 Resp: 206  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.4 86.0#



#16  
Acetone  
Concen: 54.131 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 43 Resp: 33525  
Ion Ratio Lower Upper  
43 100  
58 26.2 22.6 33.8





#18

Methyl Acetate

Concen: 1.584 ug/l

RT: 2.715 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

Instrument :

MSVOA\_X

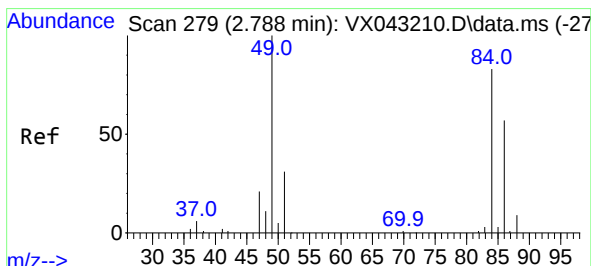
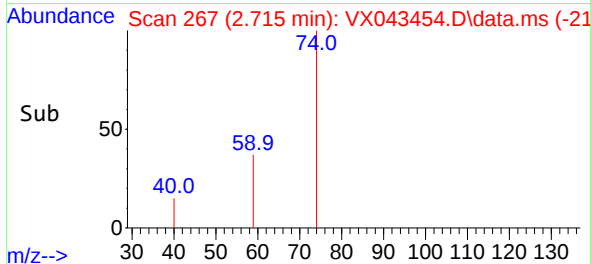
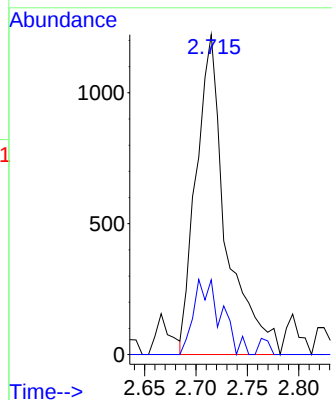
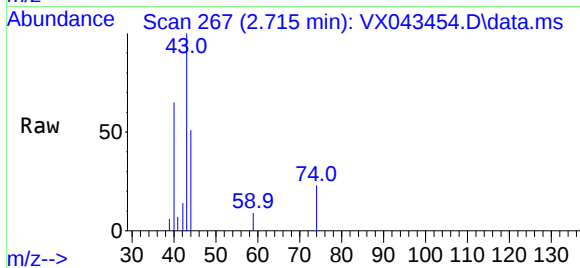
ClientSampleId :

Tgt Ion: 43 Resp: 2461

Ion Ratio Lower Upper

43 100

74 21.8 19.1 28.7



#20

Methylene Chloride

Concen: 2.395 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

Tgt Ion: 84 Resp: 2735

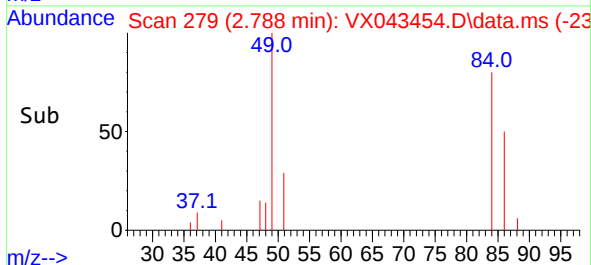
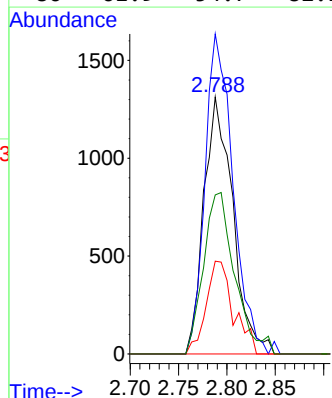
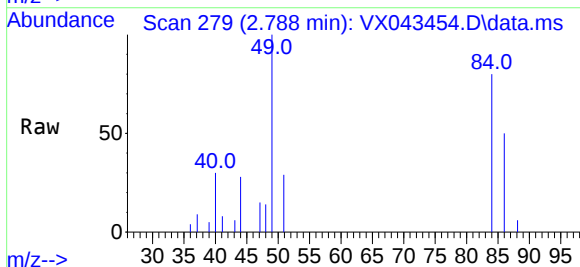
Ion Ratio Lower Upper

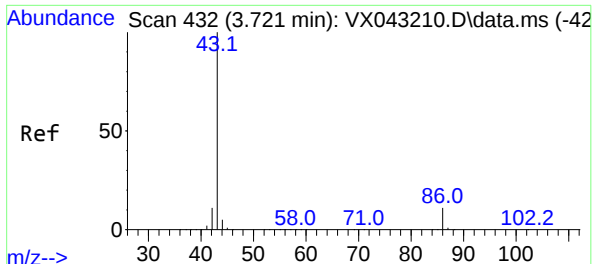
84 100

49 124.5 96.7 145.1

51 36.1 30.4 45.6

86 61.9 54.7 82.1





#23

Vinyl Acetate

Concen: 6.347 ug/l

RT: 3.690 min Scan# 43

Delta R.T. -0.031 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

Instrument :

MSVOA\_X

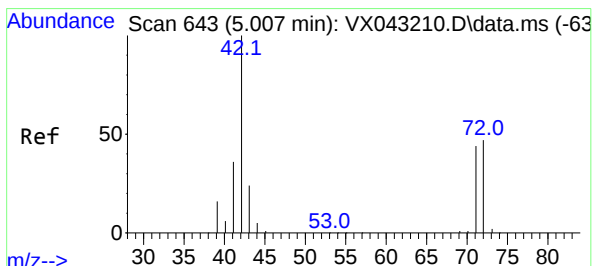
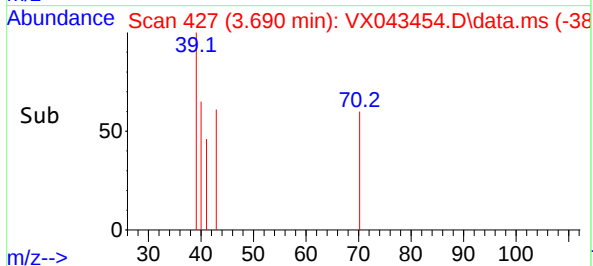
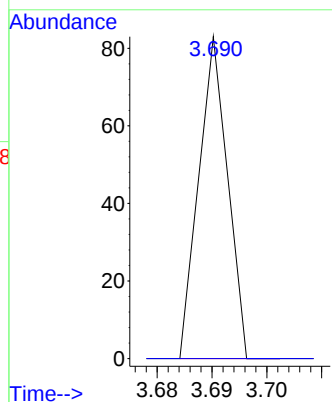
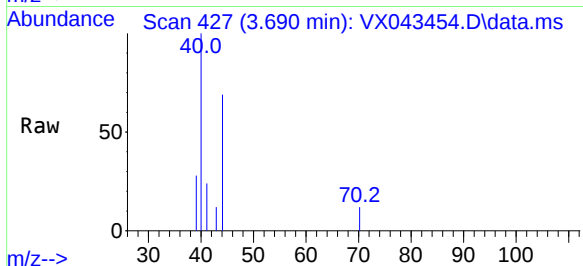
ClientSampleId :

Tgt Ion: 43 Resp: 30

Ion Ratio Lower Upper

43 100

86 0.0 8.8 13.2#



#29

Tetrahydrofuran

Concen: 1.194 ug/l

RT: 5.044 min Scan# 649

Delta R.T. 0.036 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

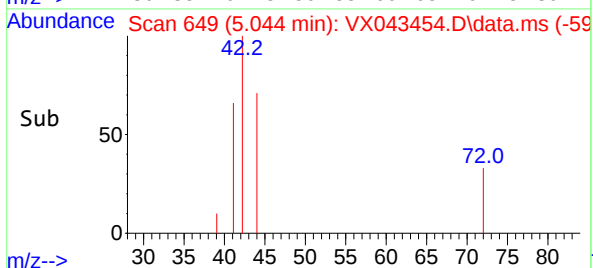
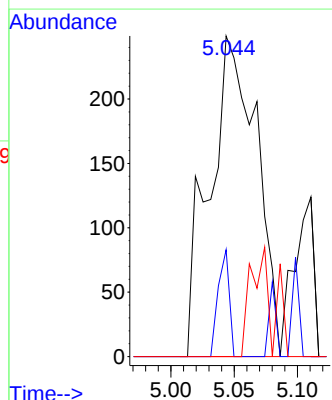
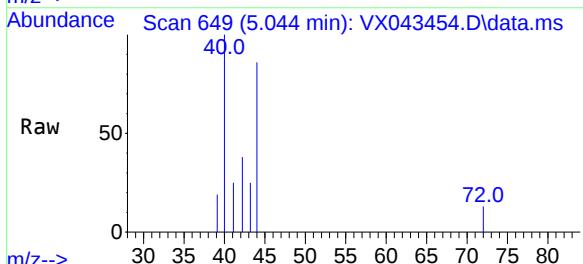
Tgt Ion: 42 Resp: 646

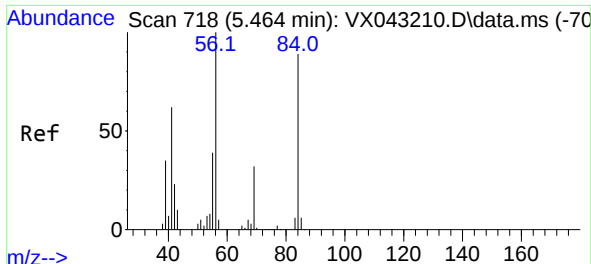
Ion Ratio Lower Upper

42 100

72 7.7 37.7 56.5#

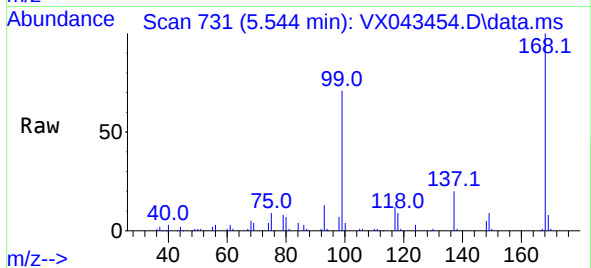
71 0.0 34.6 52.0#



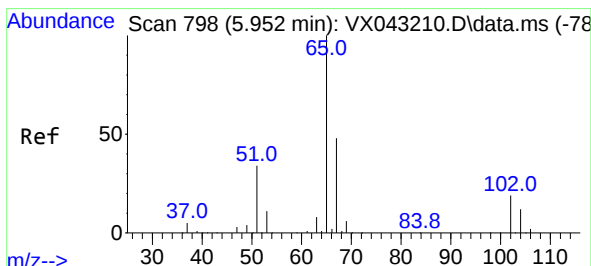
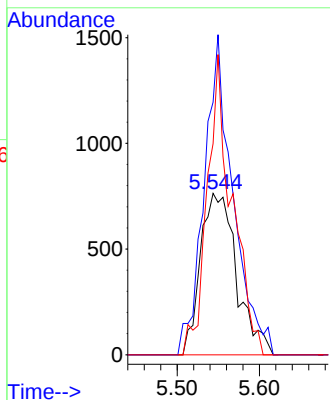
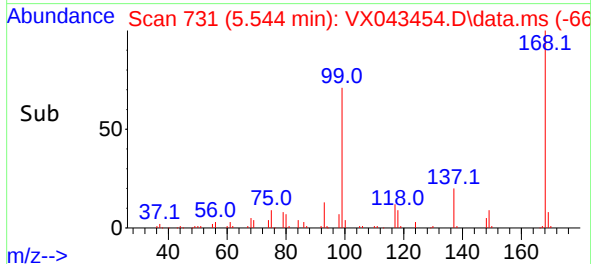


#31  
Cyclohexane  
Concen: 1.456 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :

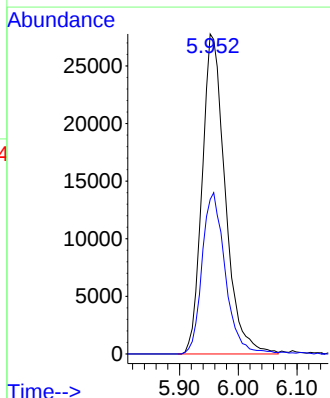
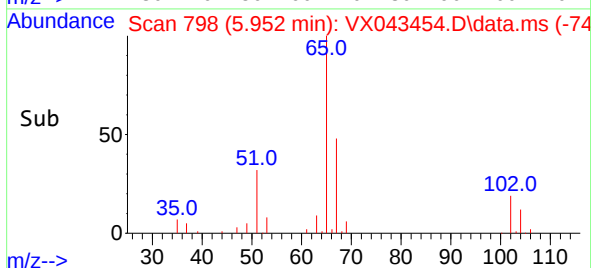
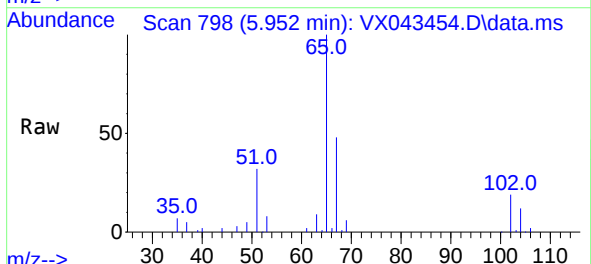


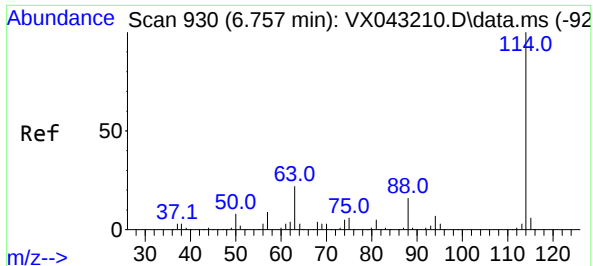
Tgt Ion: 56 Resp: 2330  
Ion Ratio Lower Upper  
56 100  
69 156.6 25.8 38.6#  
84 130.9 71.1 106.7#



#33  
1,2-Dichloroethane-d4  
Concen: 51.018 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 65 Resp: 75662  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

Instrument :

MSVOA\_X

ClientSampleId :

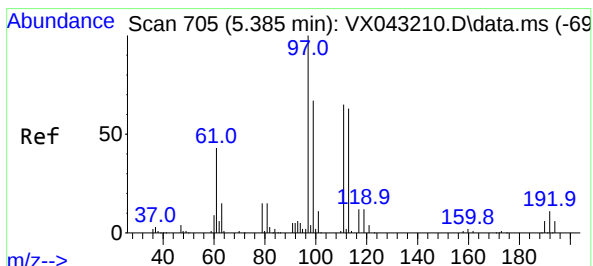
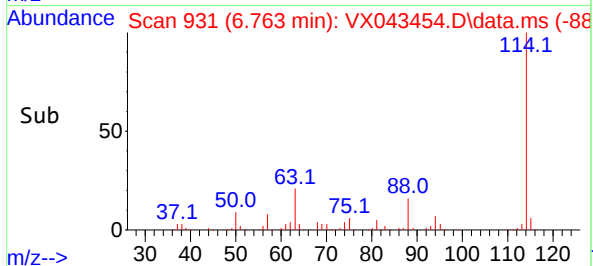
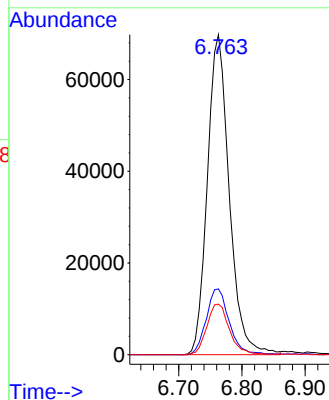
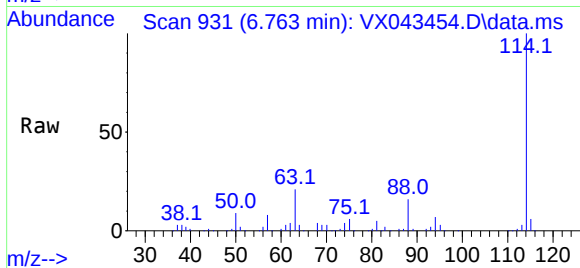
Tgt Ion:114 Resp: 167748

Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.0

88 15.8 0.0 33.0



#35

Dibromofluoromethane

Concen: 49.143 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

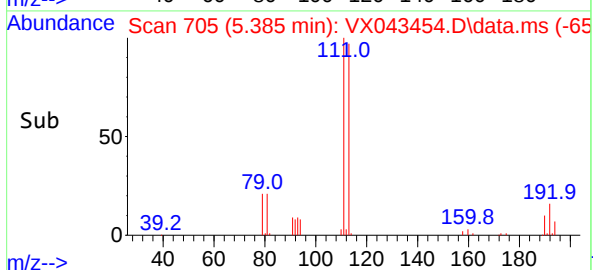
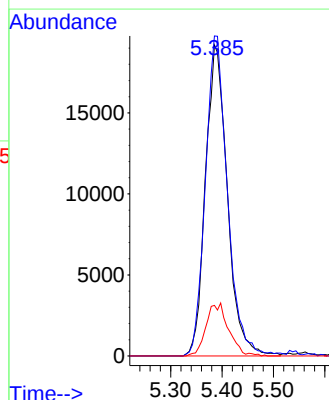
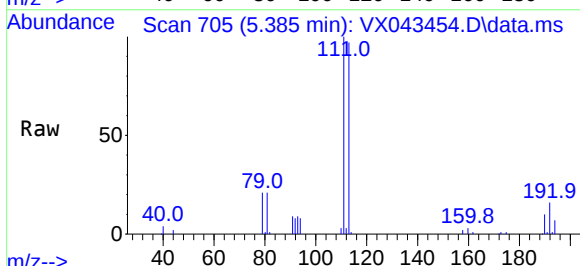
Tgt Ion:113 Resp: 56851

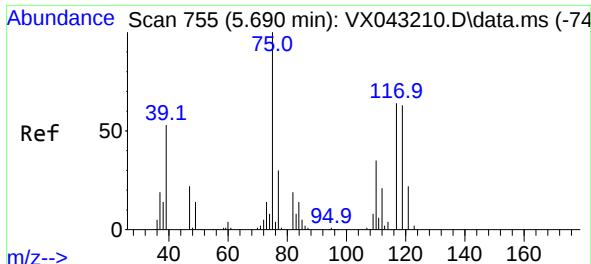
Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.0

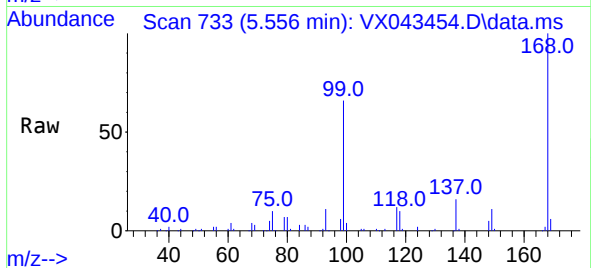
192 17.4 14.1 21.1



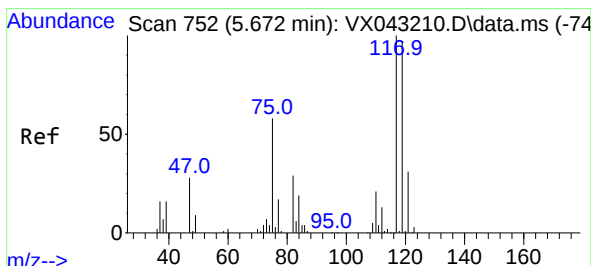
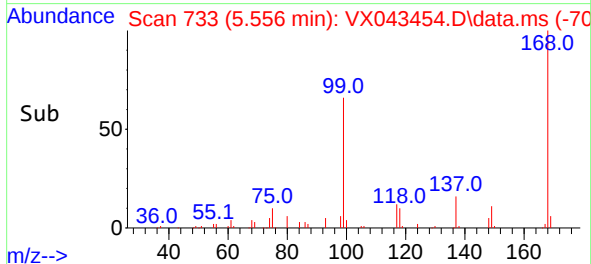
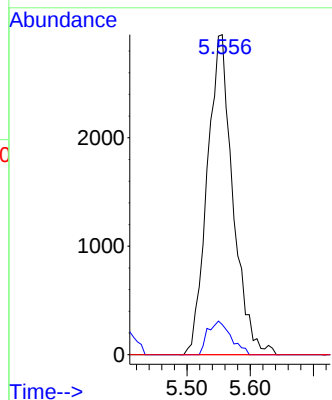


#36  
1,1-Dichloropropene  
Concen: 5.691 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.134 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :

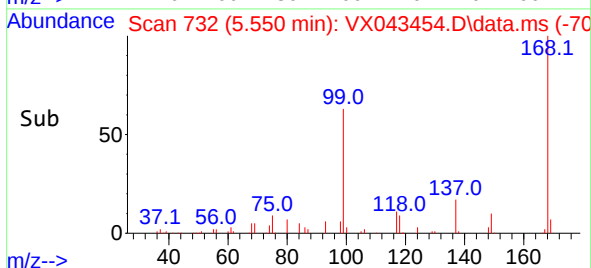
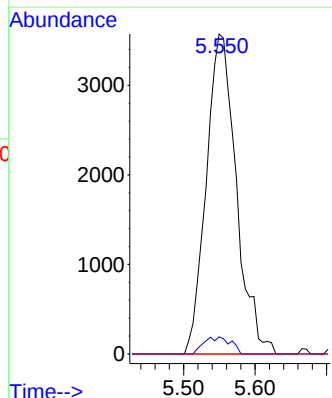
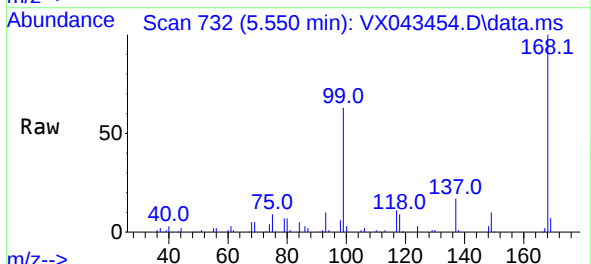


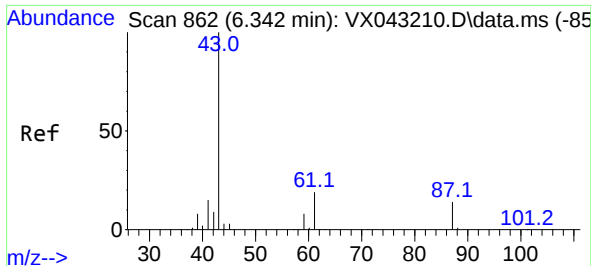
Tgt Ion: 75 Resp: 8318  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.8 53.3#  
77 0.0 24.9 37.3#



#38  
Carbon Tetrachloride  
Concen: 6.023 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 117 Resp: 10420  
Ion Ratio Lower Upper  
117 100  
119 5.3 77.7 116.5#  
121 0.0 24.3 36.5#

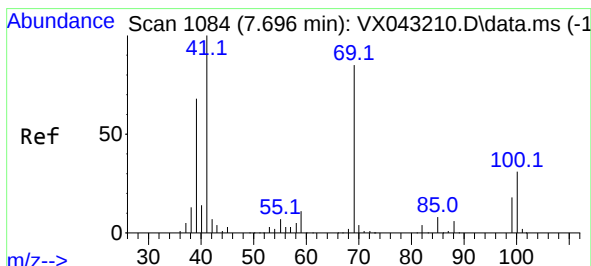
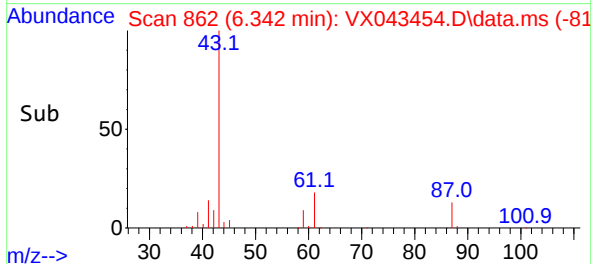
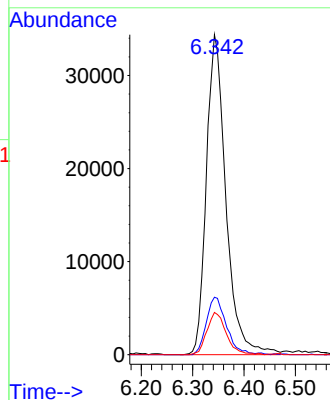
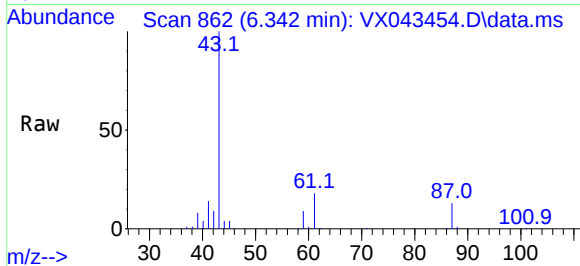




#43  
Isopropyl Acetate  
Concen: 31.345 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

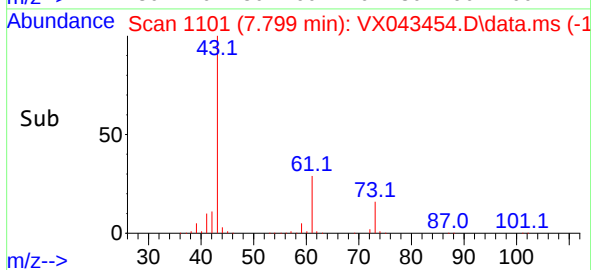
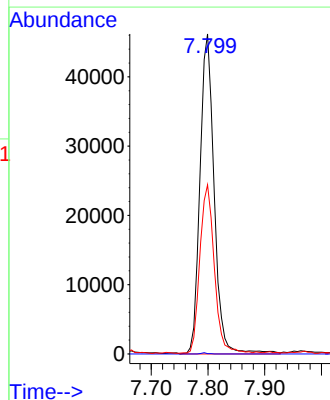
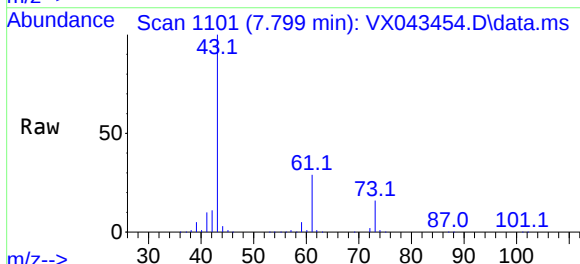
Instrument :  
MSVOA\_X  
ClientSampleId :

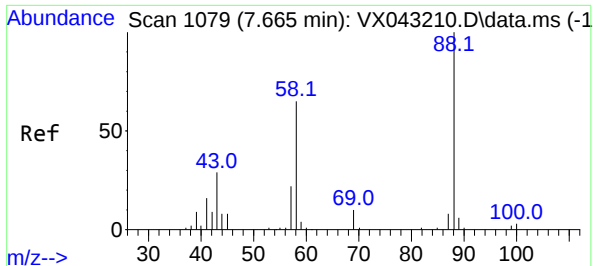
Tgt Ion: 43 Resp: 90865  
Ion Ratio Lower Upper  
43 100  
61 18.3 15.1 22.7  
87 13.1 10.8 16.2



#48  
Methyl methacrylate  
Concen: 56.571 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.103 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 41 Resp: 80465  
Ion Ratio Lower Upper  
41 100  
69 0.2 64.1 96.1#  
39 53.4 52.8 79.2





#49

1,4-Dioxane

Concen: 1.483 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.134 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

Instrument :

MSVOA\_X

ClientSampleId :

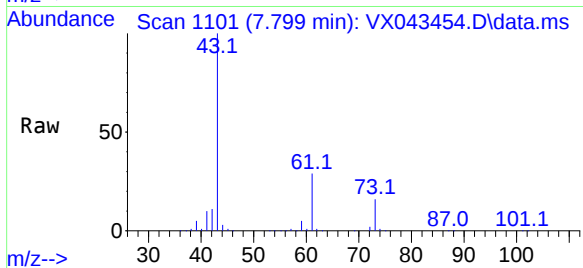
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

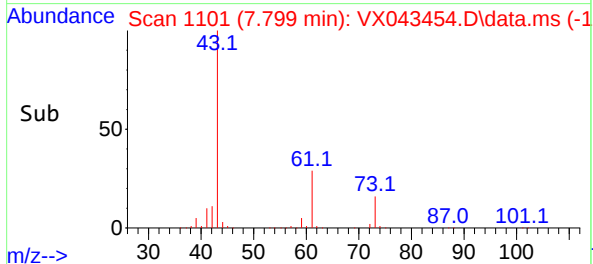
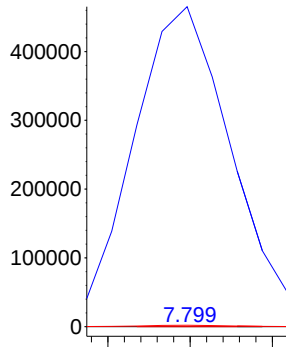
88 100

43 1972680.5 29.5 44.3#

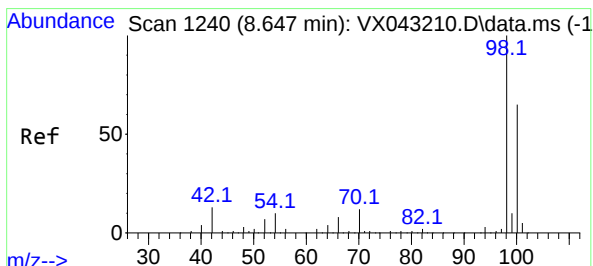
58 8858.5 55.2 82.8#



Abundance



Time-->



#50

Toluene-d8

Concen: 49.972 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX043454.D

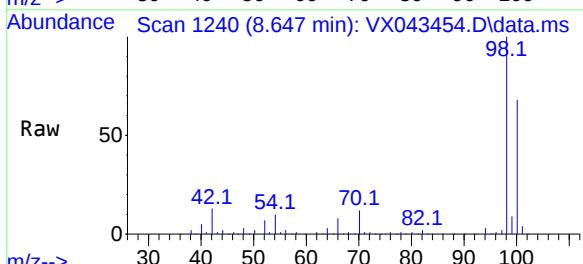
Acq: 21 Oct 2024 15:02

Tgt Ion: 98 Resp: 200341

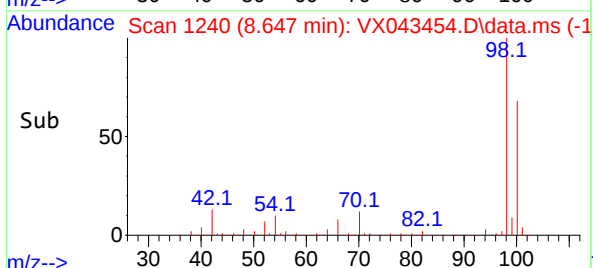
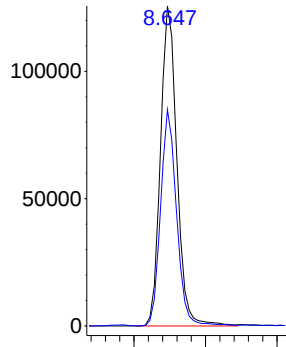
Ion Ratio Lower Upper

98 100

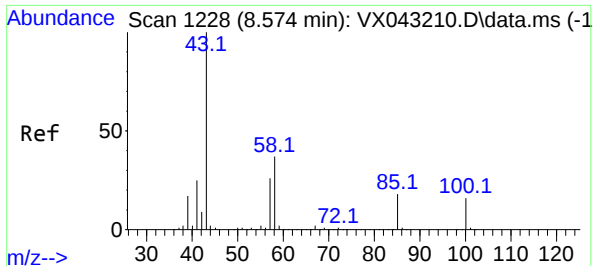
100 66.1 52.4 78.6



Abundance



Time-->



#51

4-Methyl-2-Pentanone

Concen: 39.472 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

Instrument :

MSVOA\_X

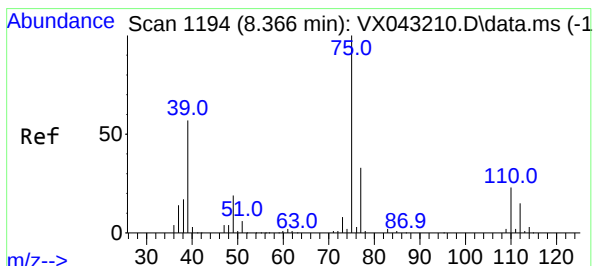
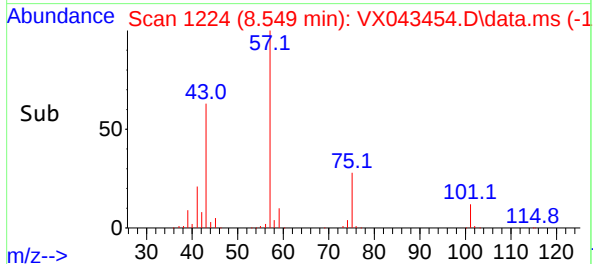
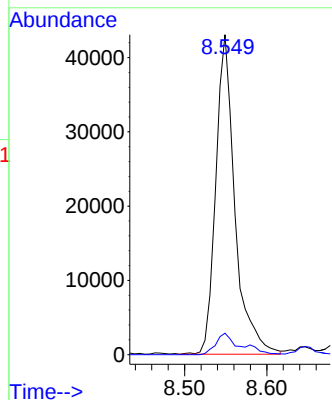
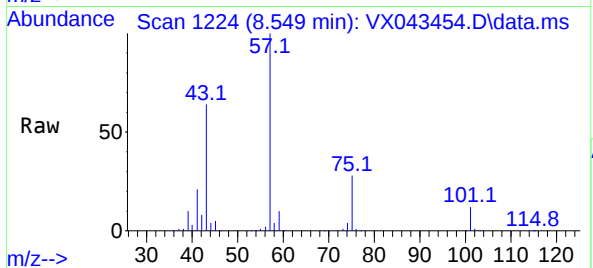
ClientSampleId :

Tgt Ion: 43 Resp: 69496

Ion Ratio Lower Upper

43 100

58 8.7 30.0 45.0#



#54

cis-1,3-Dichloropropene

Concen: 16.048 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX043454.D

Acq: 21 Oct 2024 15:02

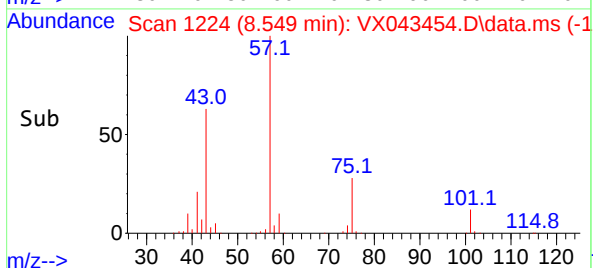
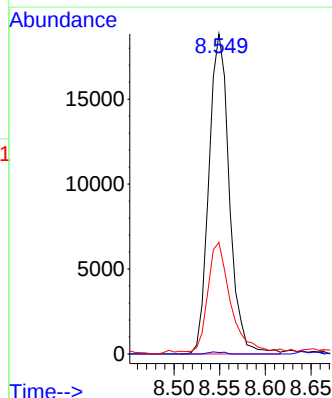
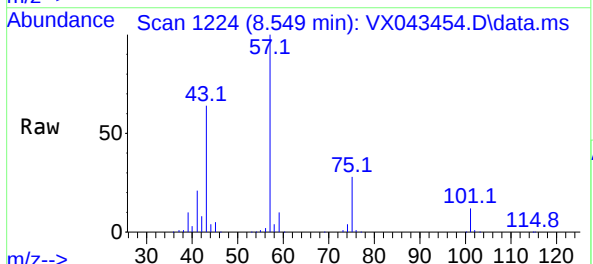
Tgt Ion: 75 Resp: 29301

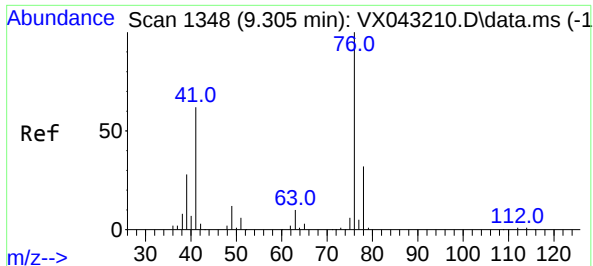
Ion Ratio Lower Upper

75 100

77 0.4 26.0 39.0#

39 34.0 45.8 68.8#

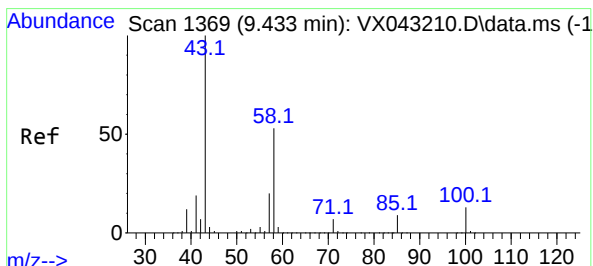
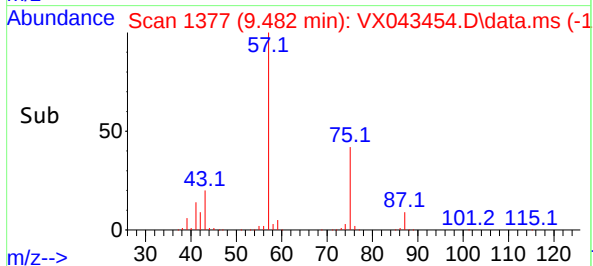
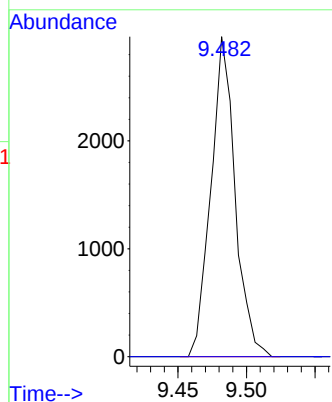
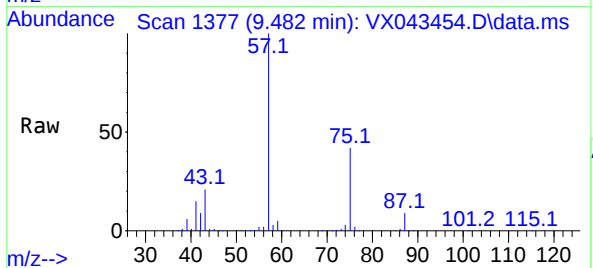




#57  
1,3-Dichloropropane  
Concen: 1.937 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

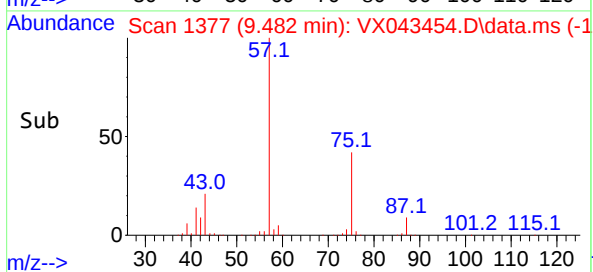
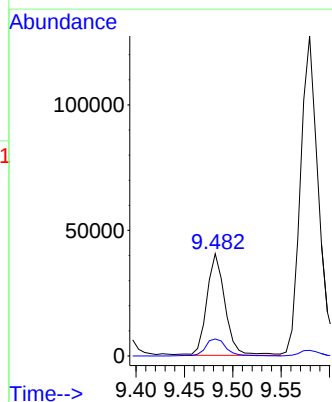
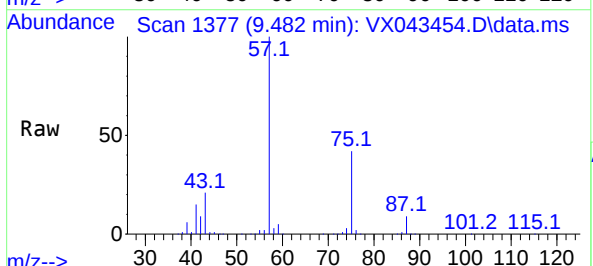
Instrument :  
MSVOA\_X  
ClientSampleId :

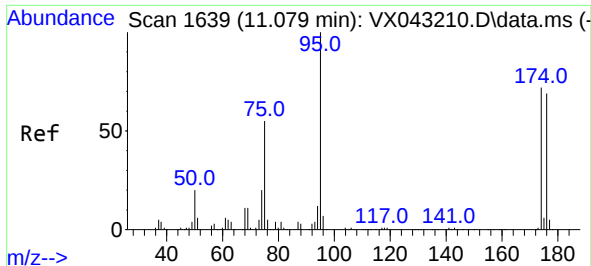
Tgt Ion: 76 Resp: 3642  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.7 38.5#



#59  
2-Hexanone  
Concen: 39.942 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 43 Resp: 53179  
Ion Ratio Lower Upper  
43 100  
58 19.2 26.1 78.3#

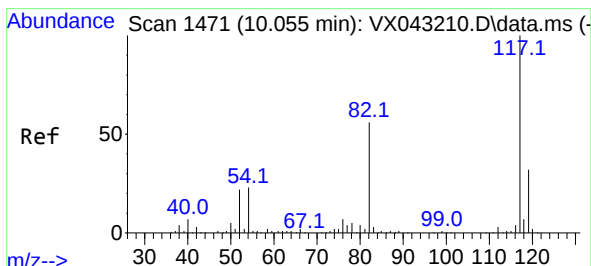
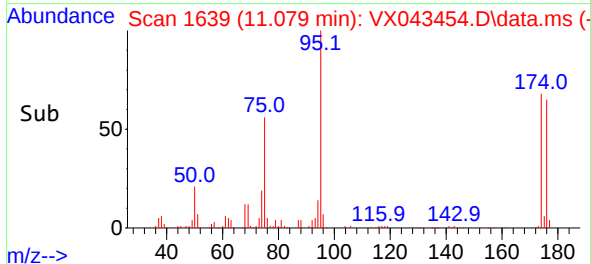
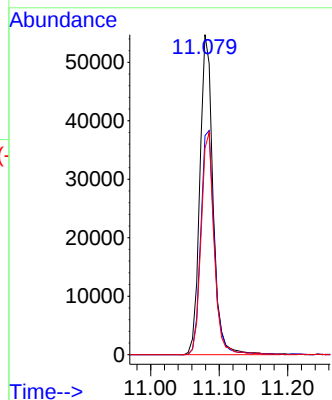
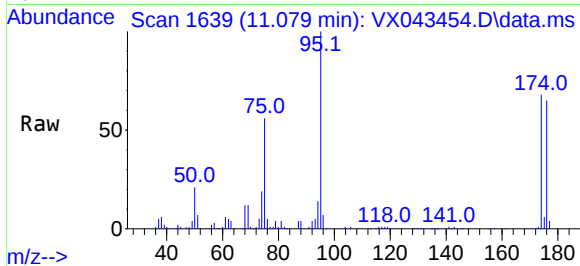




#62  
4-Bromofluorobenzene  
Concen: 50.308 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

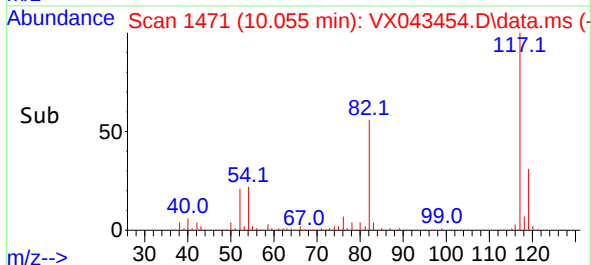
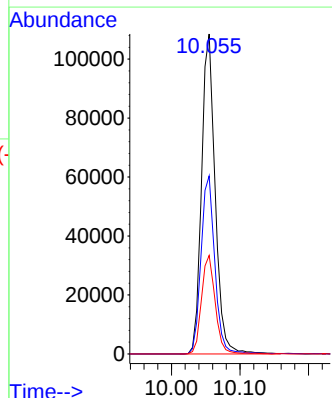
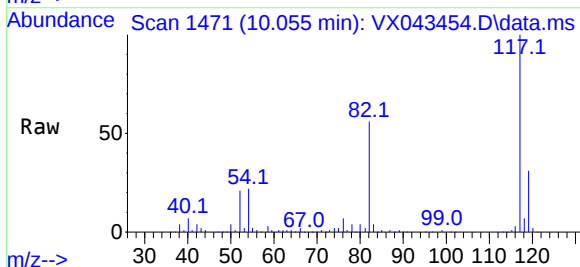
Instrument :  
MSVOA\_X  
ClientSampleId :

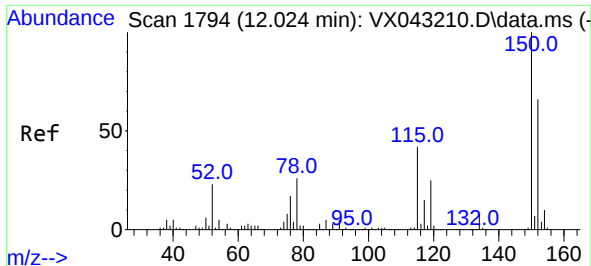
Tgt Ion: 95 Resp: 73271  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 145.0  
176 68.7 0.0 143.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

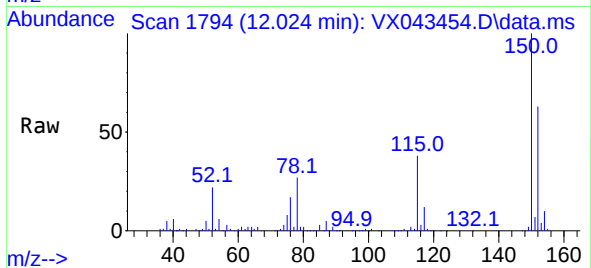
Tgt Ion: 117 Resp: 150365  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.0 67.6  
119 30.8 25.3 37.9



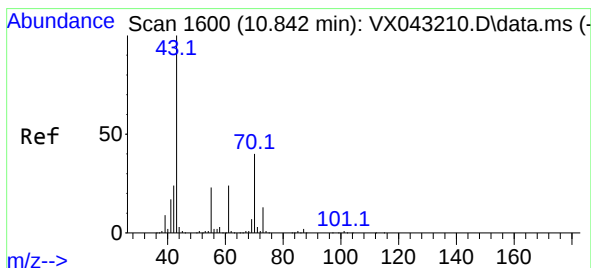
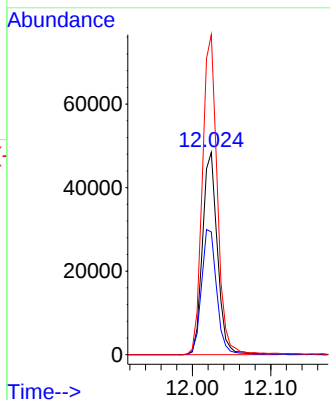
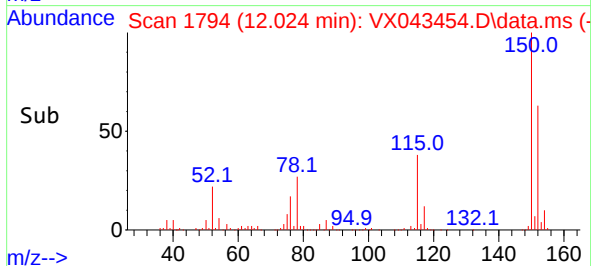


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :

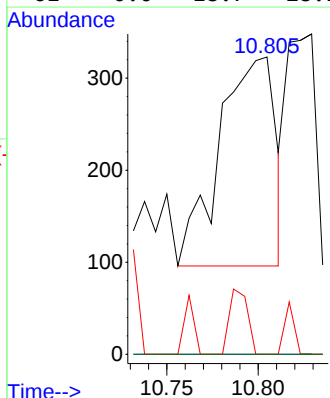
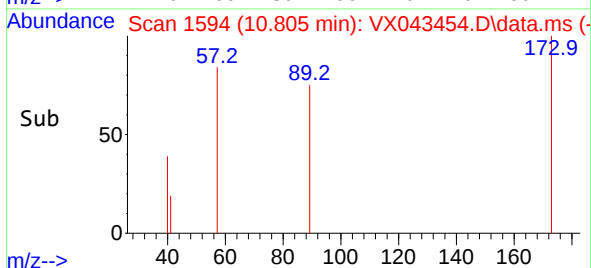
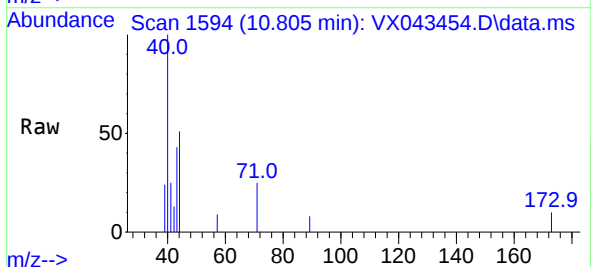


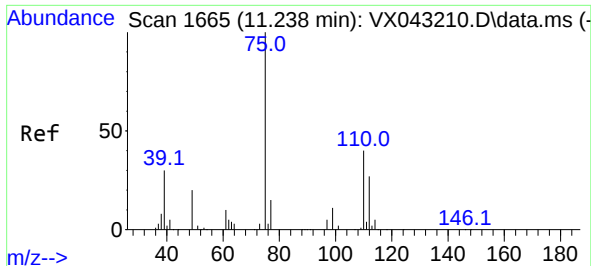
Tgt Ion:152 Resp: 64255  
Ion Ratio Lower Upper  
152 100  
115 62.9 44.1 132.3  
150 157.8 0.0 347.4



#74  
N-ethyl acetate  
Concen: 0.204 ug/l  
RT: 10.805 min Scan# 1594  
Delta R.T. -0.037 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 43 Resp: 483  
Ion Ratio Lower Upper  
43 100  
70 0.0 33.1 49.7#  
55 10.1 18.6 27.8#  
61 0.0 18.7 28.1#

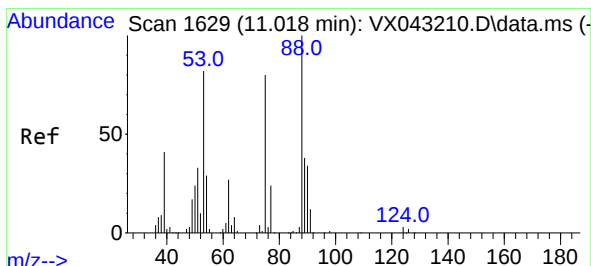
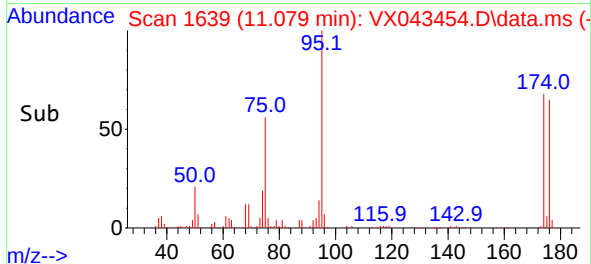
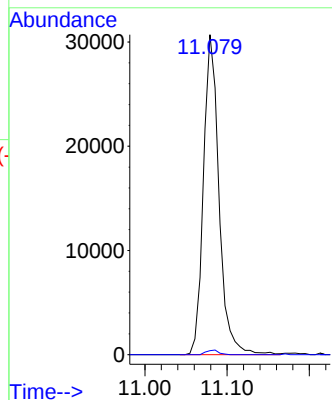
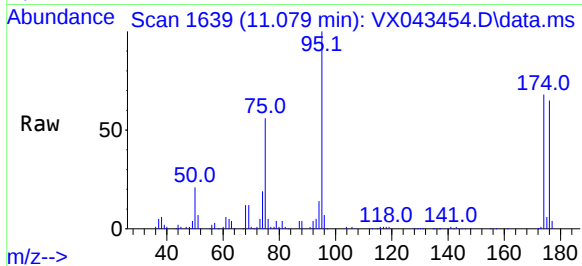




#76  
1,2,3-Trichloropropane  
Concen: 28.324 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 40368  
Ion Ratio Lower Upper  
75 100  
77 1.2 22.0 66.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.405 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX043454.D  
Acq: 21 Oct 2024 15:02

Tgt Ion: 75 Resp: 40368  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.9 125.9#  
89 0.0 38.6 58.0#

