

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX040825\  
 Data File : VX045654.D  
 Acq On : 08 Apr 2025 15:58  
 Operator : JC/MD  
 Sample : PB167492ZHE03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB167492ZHE03

Quant Time: Apr 09 01:40:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 02 03:11:43 2025  
 Response via : Initial Calibration

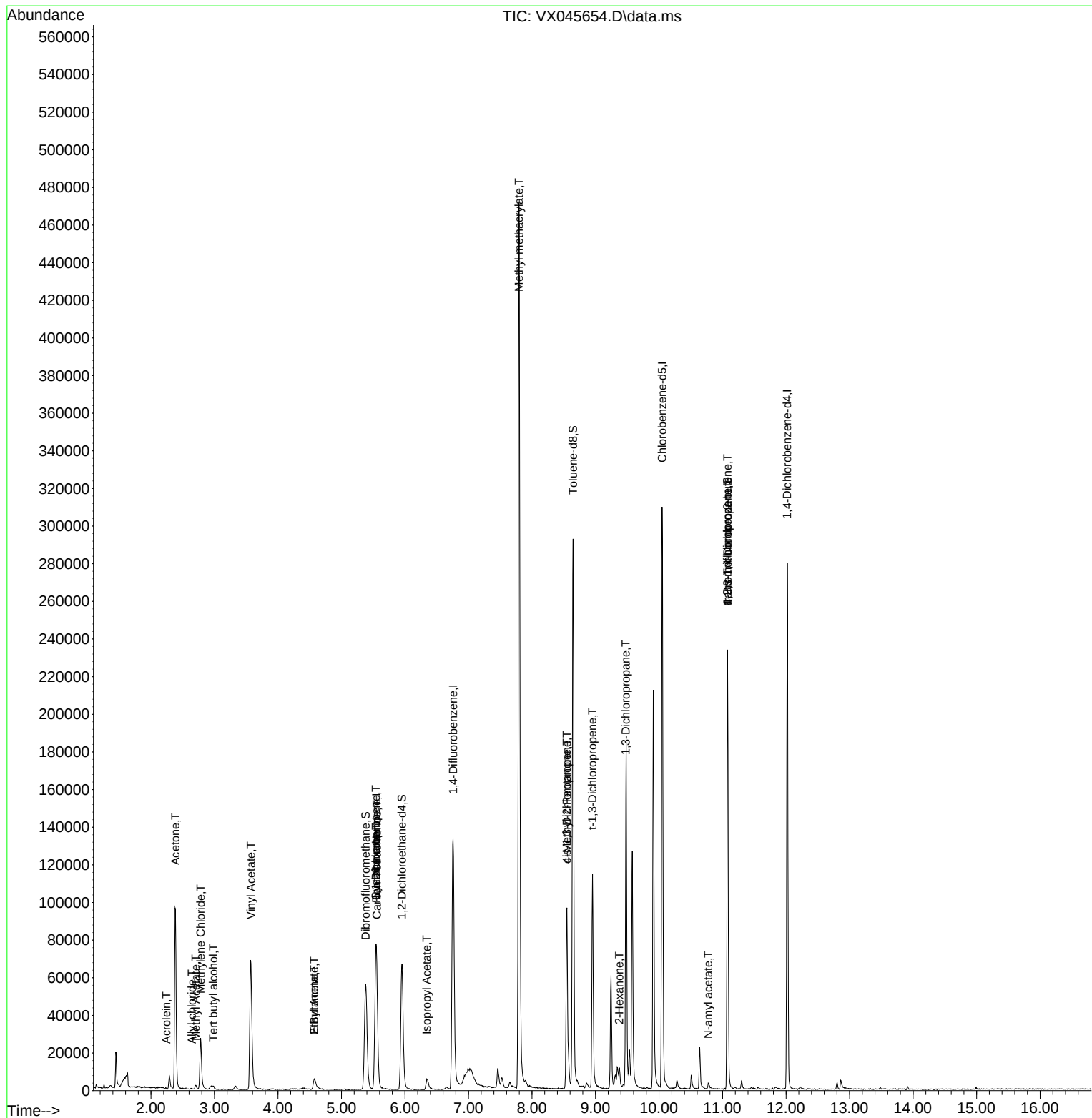
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 67363    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 132718   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 124907   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 51698    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 67476    | 54.774   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 109.540% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 48421    | 51.422   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 102.840% |          |
| 50) Toluene-d8                | 8.647  | 98    | 170639   | 51.918   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 103.840% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 61958    | 51.754   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 103.500% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 2.983  | 59    | 2155     | 13.017   | ug/l       | 95       |
| 13) Acrolein                  | 2.239  | 56    | 160      | 0.702    | ug/l #     | 62       |
| 14) Allyl chloride            | 2.642  | 41    | 429      | 0.280    | ug/l #     | 58       |
| 16) Acetone                   | 2.386  | 43    | 107737   | 212.982  | ug/l       | 98       |
| 18) Methyl Acetate            | 2.703  | 43    | 2581     | 2.216    | ug/l       | 96       |
| 20) Methylene Chloride        | 2.782  | 84    | 12090    | 12.766   | ug/l       | 97       |
| 23) Vinyl Acetate             | 3.574  | 43    | 1236     | 0.473    | ug/l #     | 74       |
| 25) 2-Butanone                | 4.568  | 43    | 11604    | 15.671   | ug/l       | 98       |
| 31) Cyclohexane               | 5.544  | 56    | 1737     | 1.149    | ug/l #     | 16       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 6624     | 5.210    | ug/l #     | 49       |
| 37) Ethyl Acetate             | 4.568  | 43    | 11604    | 7.242    | ug/l #     | 71       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 7838     | 5.704    | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 8608     | 3.545    | ug/l       | 97       |
| 48) Methyl methacrylate       | 7.793  | 41    | 47446    | 37.841   | ug/l #     | 50       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 42717    | 26.535   | ug/l #     | 48       |
| 53) t-1,3-Dichloropropene     | 8.951  | 75    | 208      | 2.428    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 15156    | 10.859   | ug/l #     | 66       |
| 57) 1,3-Dichloropropane       | 9.476  | 76    | 1508     | 0.925    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.372  | 43    | 9919     | 8.321    | ug/l #     | 28       |
| 74) N-amyl acetate            | 10.774 | 43    | 2073     | 1.047    | ug/l #     | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 35497    | 28.149   | ug/l #     | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 35497    | 95.534   | ug/l #     | 1        |
| -----                         |        |       |          |          |            |          |

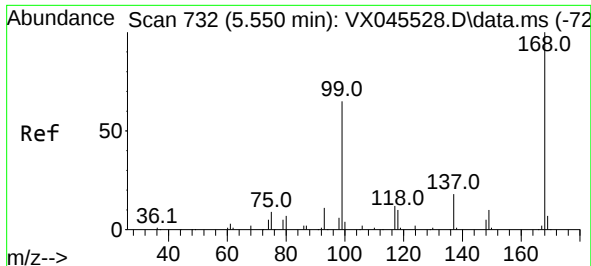
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 02 03:11:43 2025  
Response via : Initial Calibration

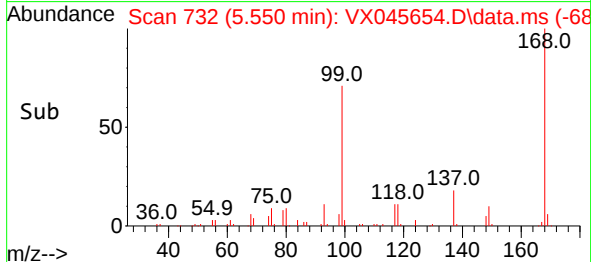
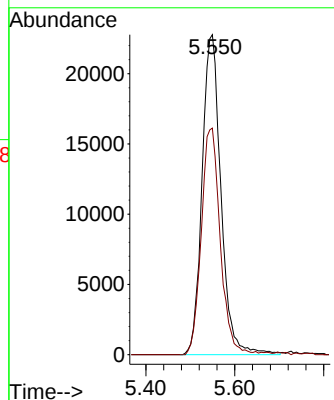
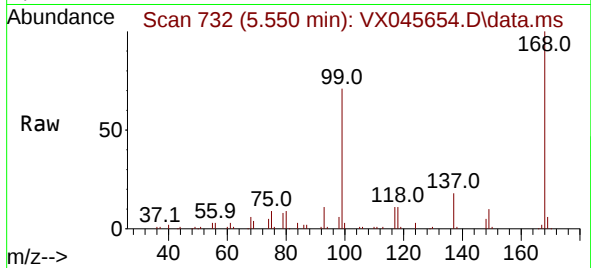




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

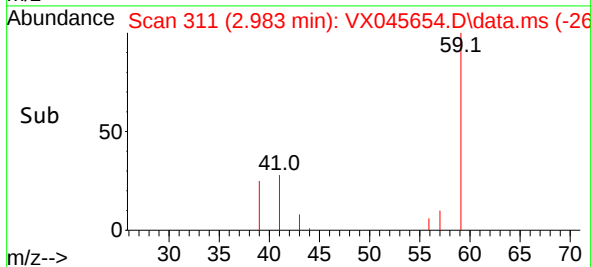
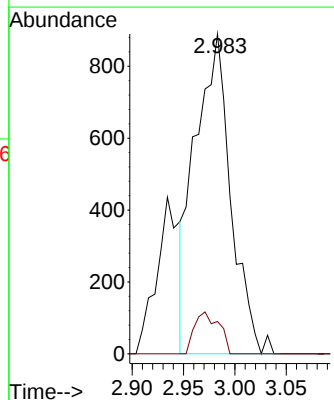
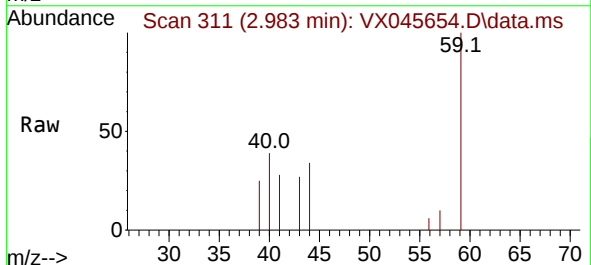
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

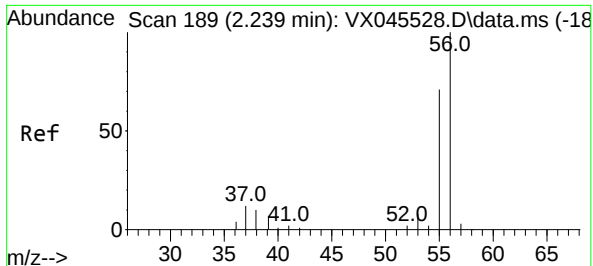
Tgt Ion:168 Resp: 67363  
Ion Ratio Lower Upper  
168 100  
99 70.8 52.3 78.5



#11  
Tert butyl alcohol  
Concen: 13.017 ug/l  
RT: 2.983 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 59 Resp: 2155  
Ion Ratio Lower Upper  
59 100  
57 9.0 8.6 12.8





#13

Acrolein

Concen: 0.702 ug/l

RT: 2.239 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

Instrument :

MSVOA\_X

ClientSampleId :

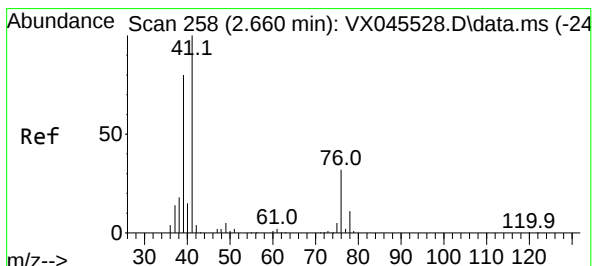
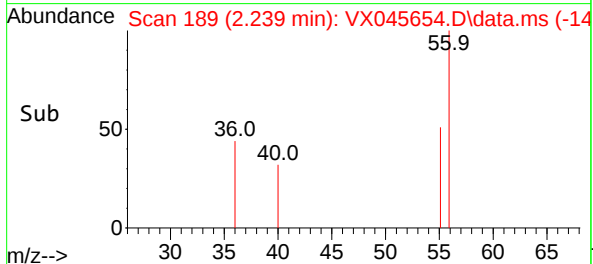
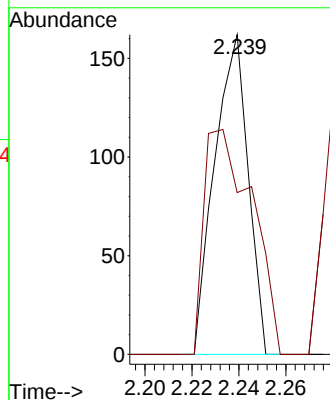
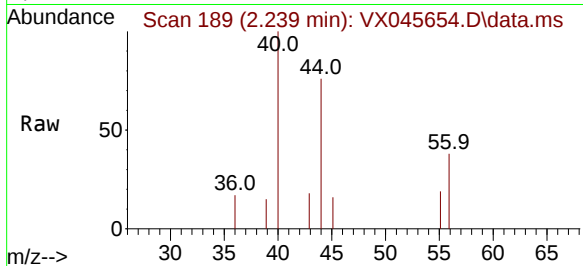
PB167492ZHE03

Tgt Ion: 56 Resp: 160

Ion Ratio Lower Upper

56 100

55 101.3 56.2 84.2#



#14

Allyl chloride

Concen: 0.280 ug/l

RT: 2.642 min Scan# 255

Delta R.T. -0.018 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

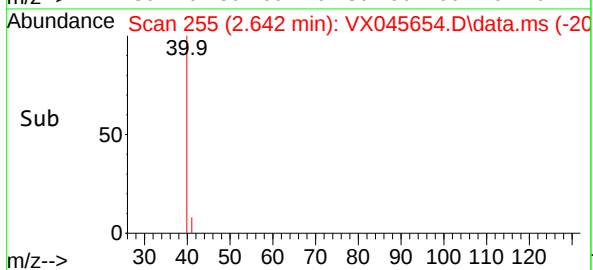
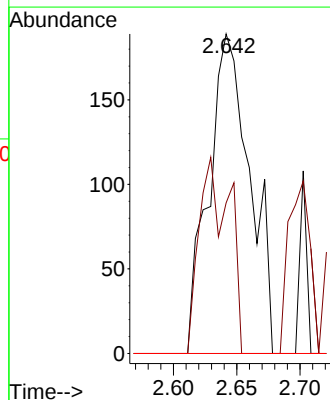
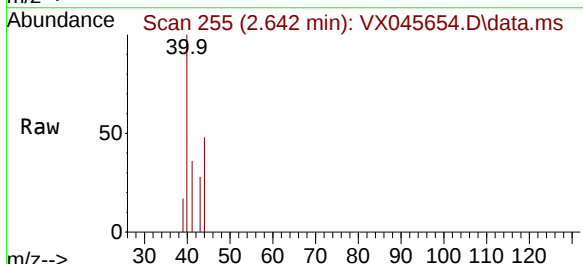
Tgt Ion: 41 Resp: 429

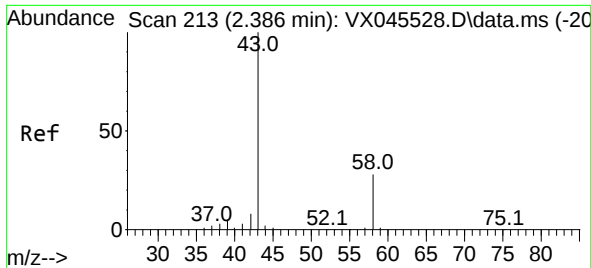
Ion Ratio Lower Upper

41 100

39 44.8 60.2 90.2#

76 0.0 24.6 36.8#

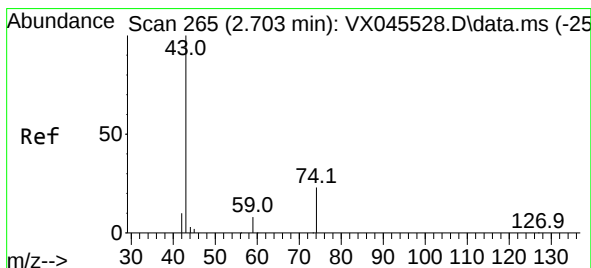
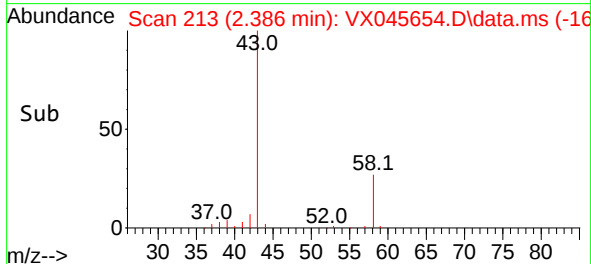
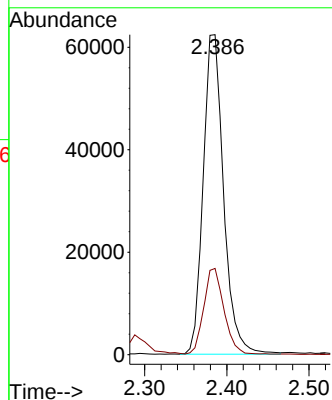
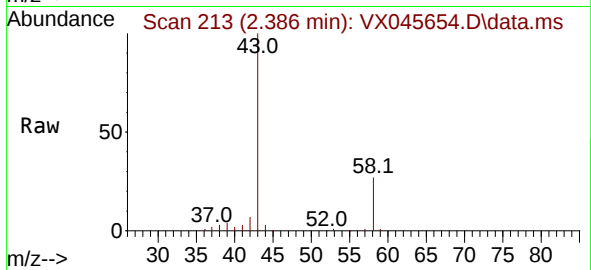




#16  
Acetone  
Concen: 212.982 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

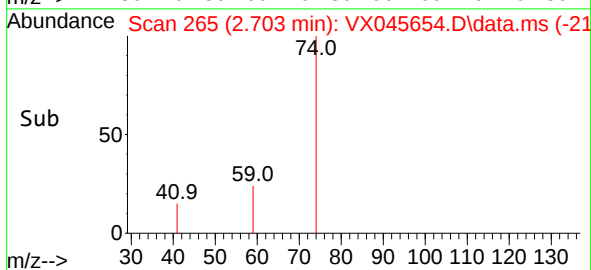
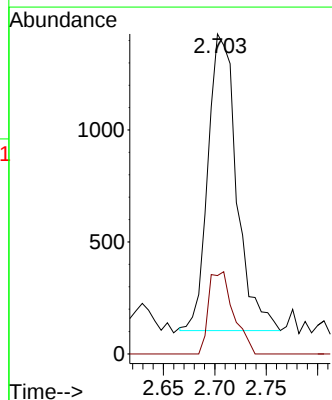
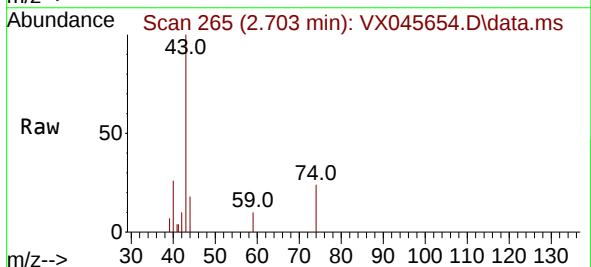
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

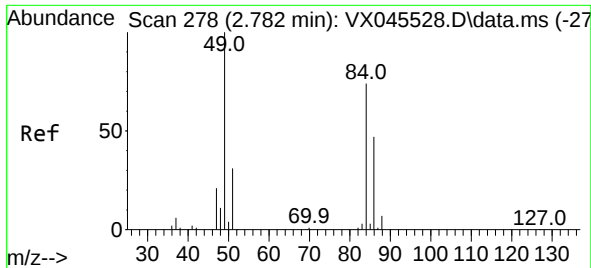
Tgt Ion: 43 Resp: 107737  
Ion Ratio Lower Upper  
43 100  
58 26.8 22.3 33.5



#18  
Methyl Acetate  
Concen: 2.216 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 43 Resp: 2581  
Ion Ratio Lower Upper  
43 100  
74 23.8 17.5 26.3

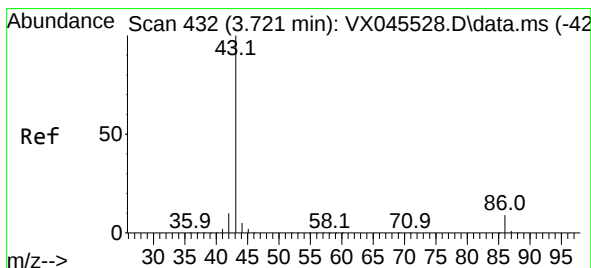
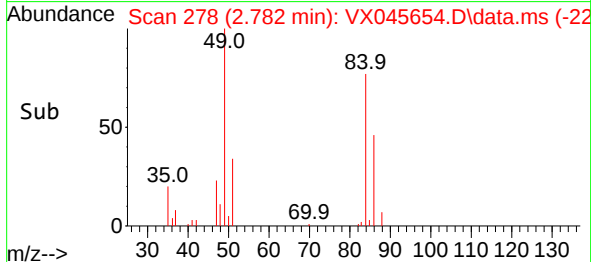
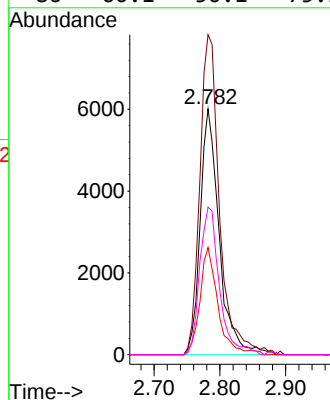
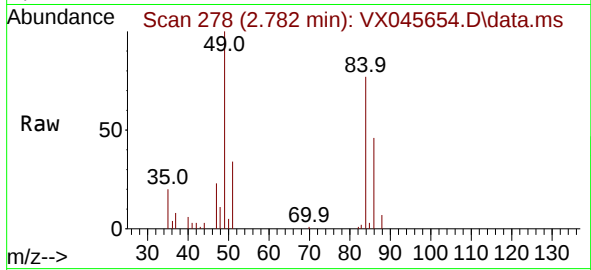




#20  
Methylene Chloride  
Concen: 12.766 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

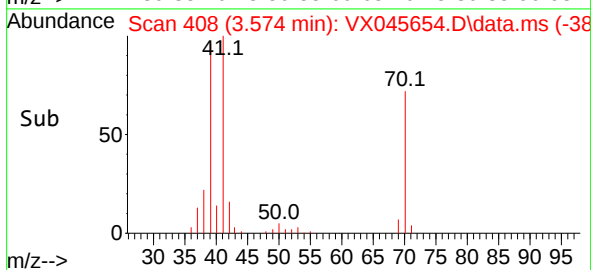
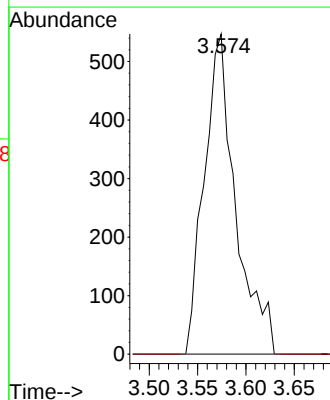
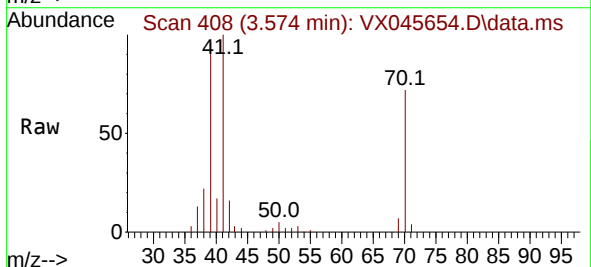
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

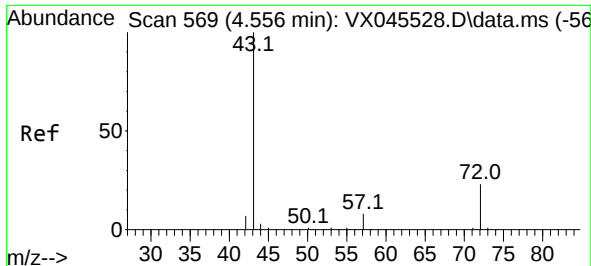
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 12090 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 130.2 | 107.5 | 161.3 |
| 51       | 43.6  | 33.0  | 49.6  |
| 86       | 60.1  | 50.1  | 75.1  |



#23  
Vinyl Acetate  
Concen: 0.473 ug/l  
RT: 3.574 min Scan# 408  
Delta R.T. -0.146 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1236  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 7.5   | 11.3# |

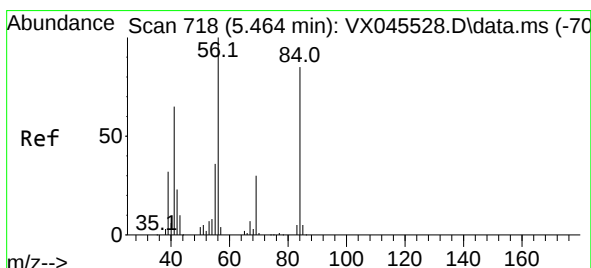
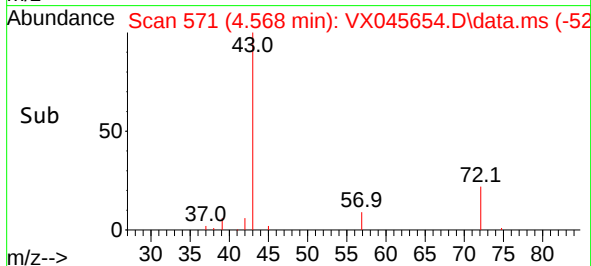
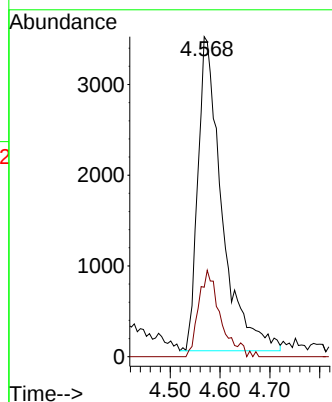
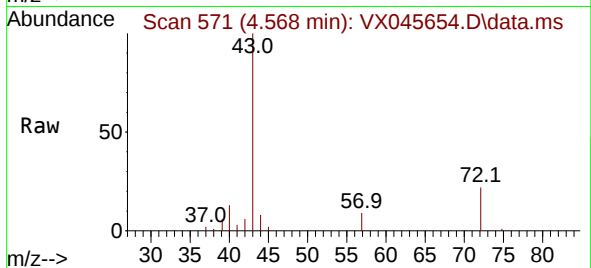




#25  
2-Butanone  
Concen: 15.671 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

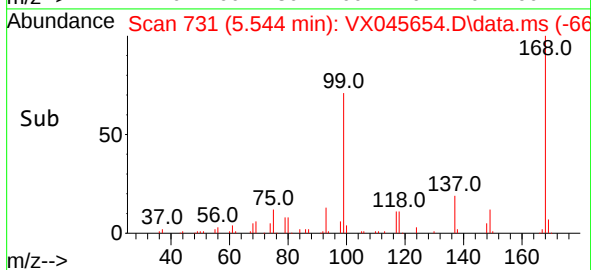
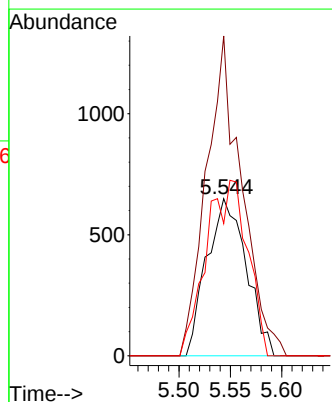
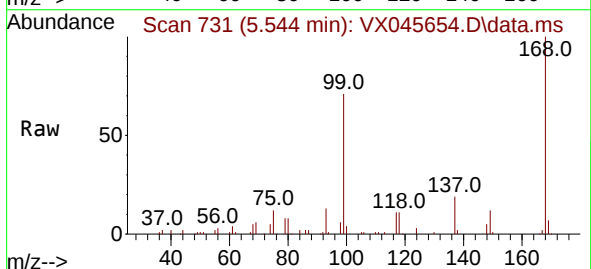
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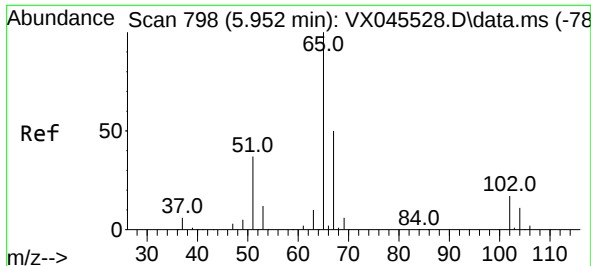
Tgt Ion: 43 Resp: 11604  
Ion Ratio Lower Upper  
43 100  
72 22.1 18.6 28.0



#31  
Cyclohexane  
Concen: 1.149 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.079 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 56 Resp: 1737  
Ion Ratio Lower Upper  
56 100  
69 203.5 23.6 35.4#  
84 84.3 67.7 101.5





#33

1,2-Dichloroethane-d4

Concen: 54.774 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

Instrument :

MSVOA\_X

ClientSampleId :

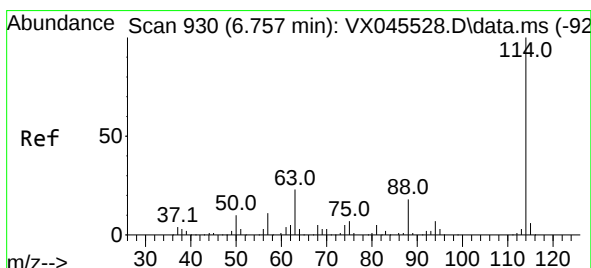
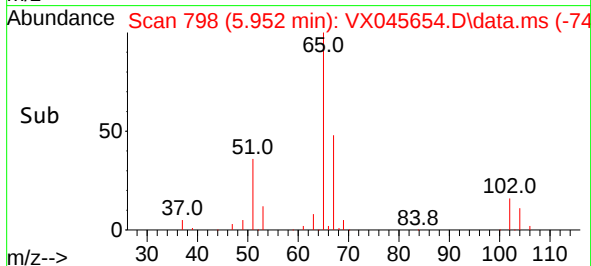
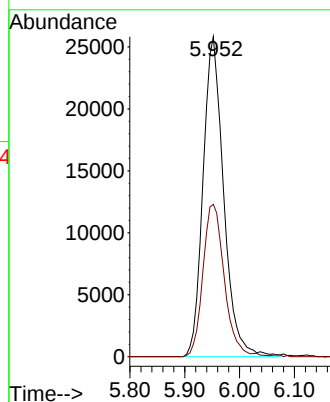
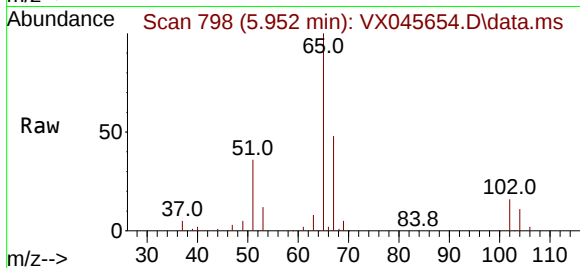
PB167492ZHE03

Tgt Ion: 65 Resp: 67476

Ion Ratio Lower Upper

65 100

67 49.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

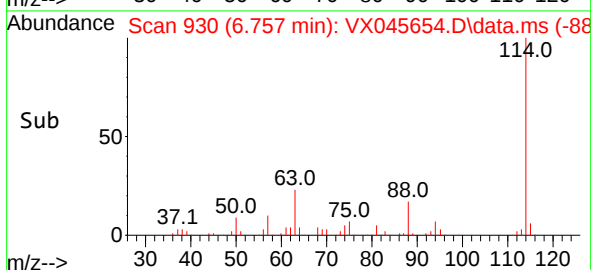
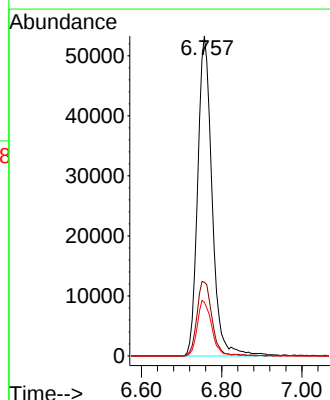
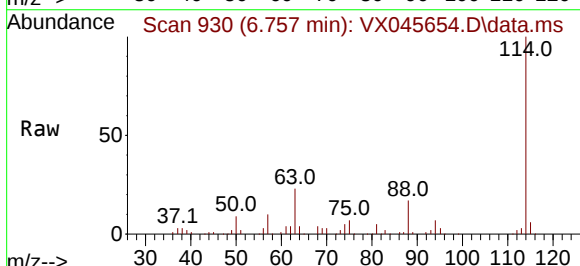
Tgt Ion: 114 Resp: 132718

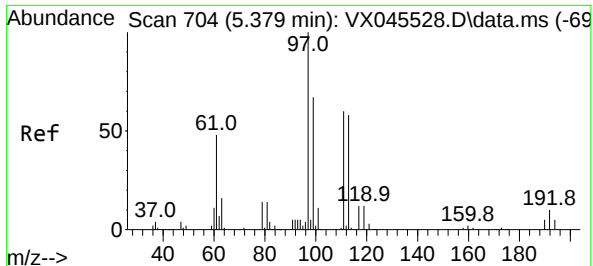
Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.8

88 16.8 0.0 35.4





#35

Dibromofluoromethane

Concen: 51.422 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045654.D

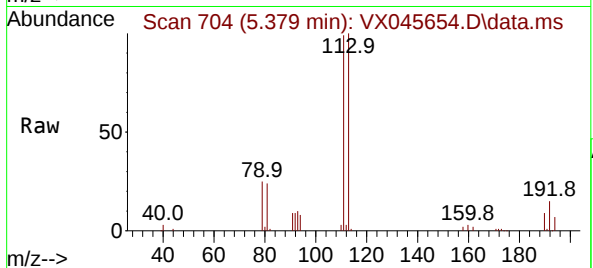
Acq: 08 Apr 2025 15:58

Instrument :

MSVOA\_X

ClientSampleId :

PB167492ZHE03



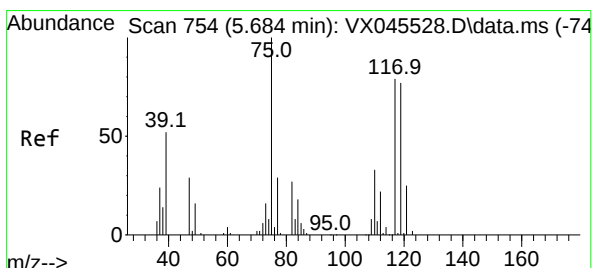
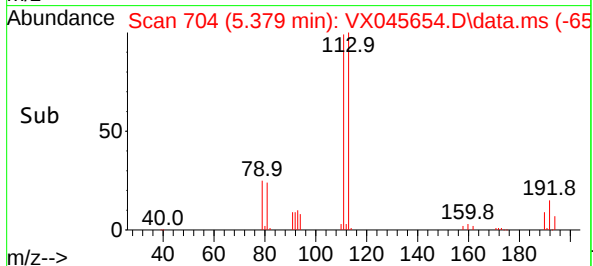
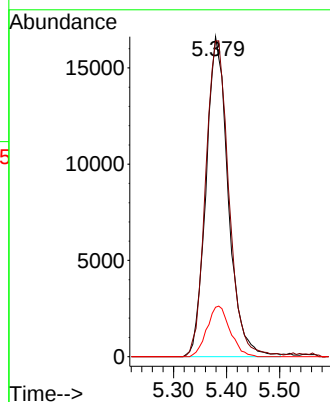
Tgt Ion:113 Resp: 48421

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.6

192 16.4 13.8 20.6



#36

1,1-Dichloropropene

Concen: 5.210 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

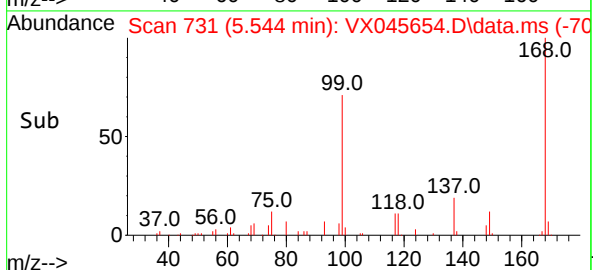
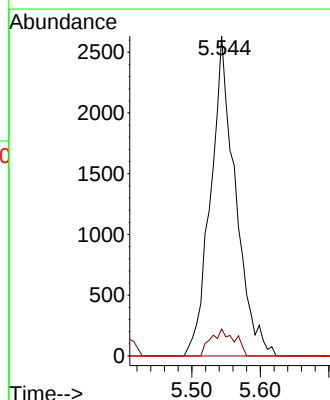
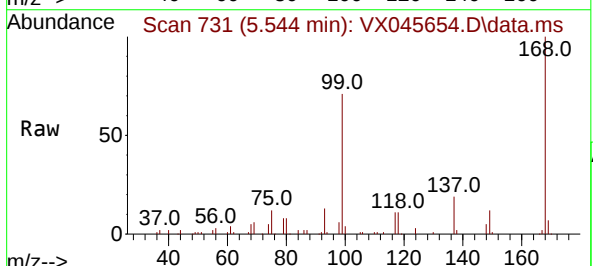
Tgt Ion: 75 Resp: 6624

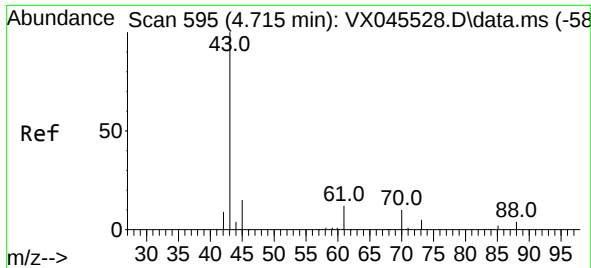
Ion Ratio Lower Upper

75 100

110 8.0 16.9 50.6#

77 0.0 25.0 37.4#

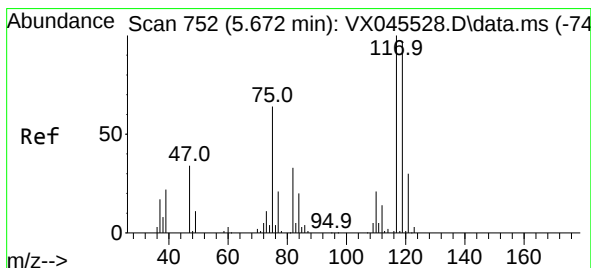
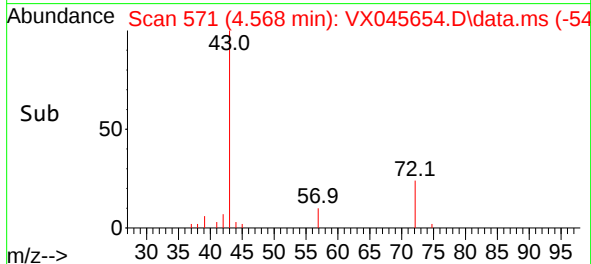
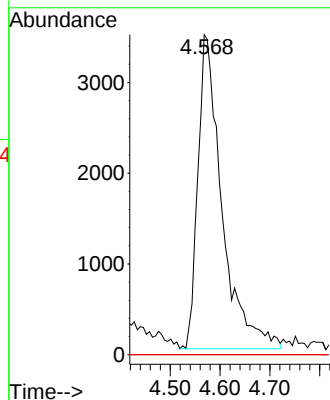
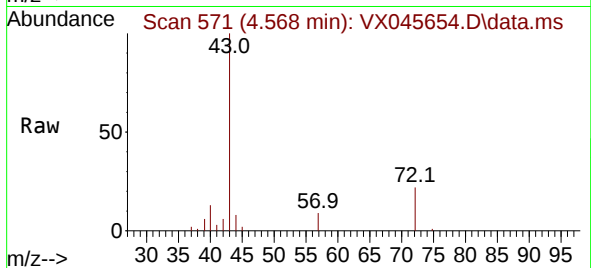




#37  
Ethyl Acetate  
Concen: 7.242 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. -0.146 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

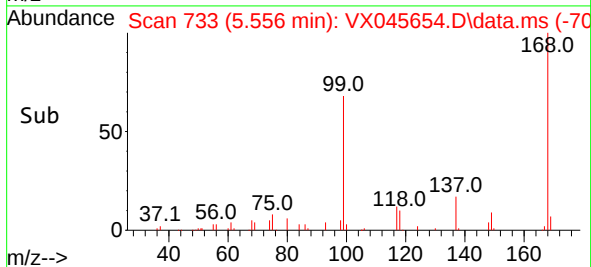
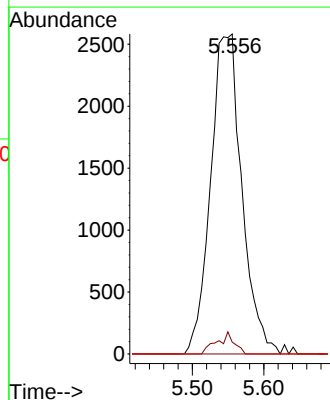
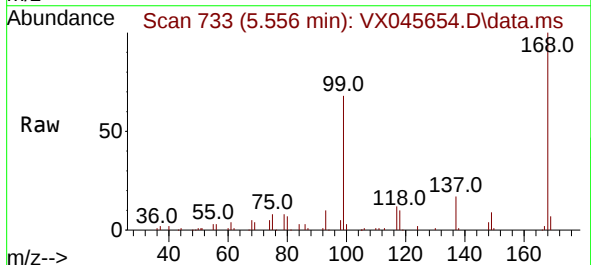
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

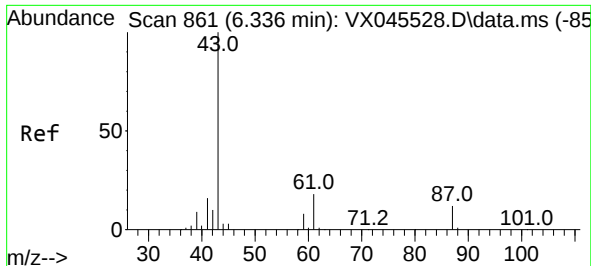
Tgt Ion: 43 Resp: 11604  
Ion Ratio Lower Upper  
43 100  
61 0.0 9.9 14.9#  
70 0.0 7.5 11.3#



#38  
Carbon Tetrachloride  
Concen: 5.704 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.116 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 117 Resp: 7838  
Ion Ratio Lower Upper  
117 100  
119 3.7 76.9 115.3#  
121 0.0 24.2 36.2#

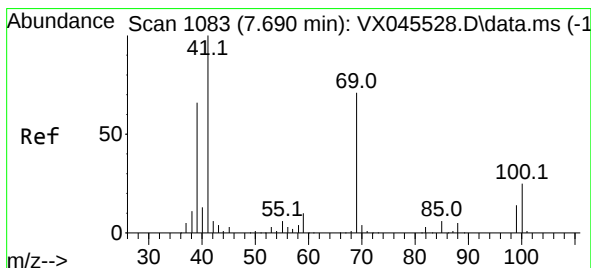
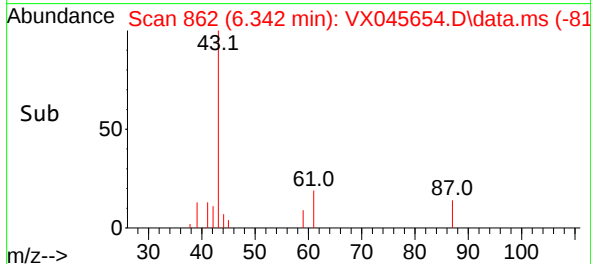
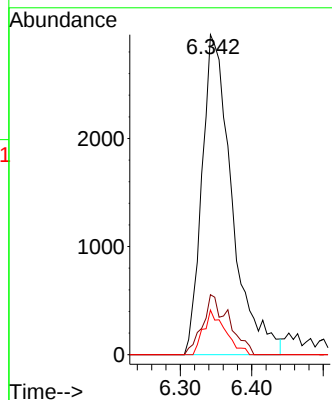
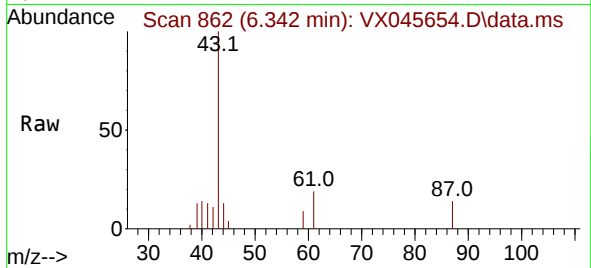




#43  
Isopropyl Acetate  
Concen: 3.545 ug/l  
RT: 6.342 min Scan# 861  
Delta R.T. 0.006 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

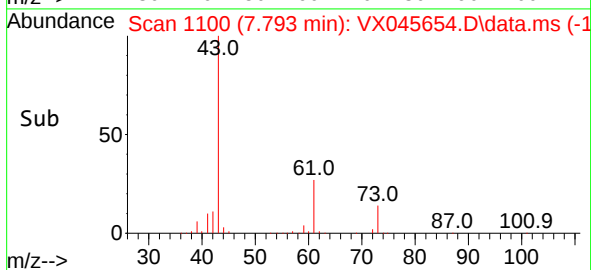
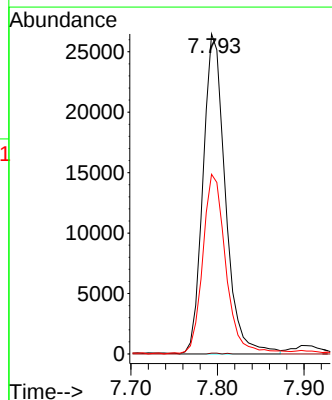
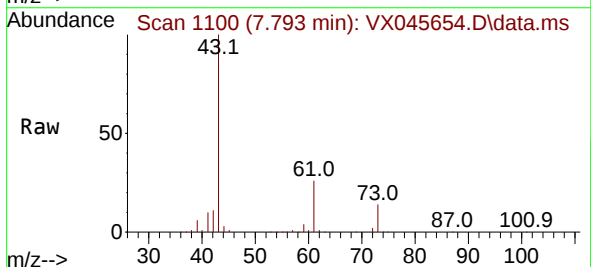
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

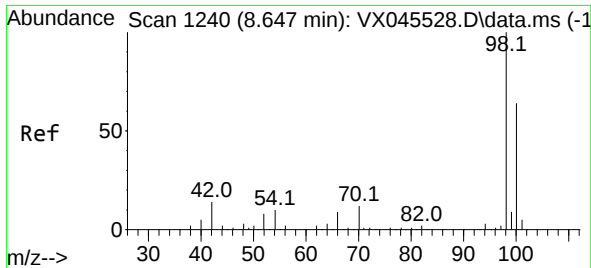
Tgt Ion: 43 Resp: 8608  
Ion Ratio Lower Upper  
43 100  
61 16.6 14.1 21.1  
87 10.1 9.2 13.8



#48  
Methyl methacrylate  
Concen: 37.841 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.104 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 41 Resp: 47446  
Ion Ratio Lower Upper  
41 100  
69 0.1 58.2 87.2#  
39 58.4 53.6 80.4

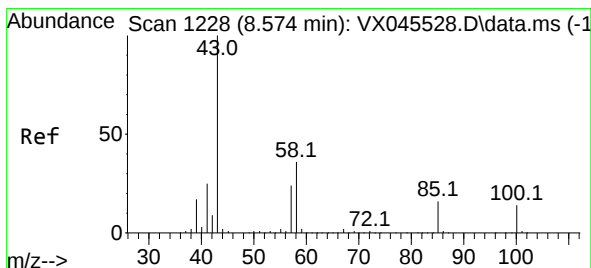
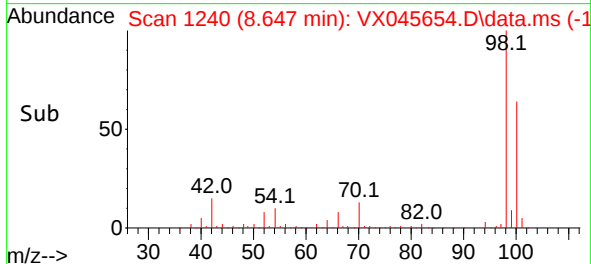
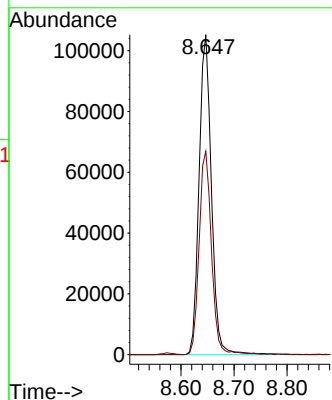
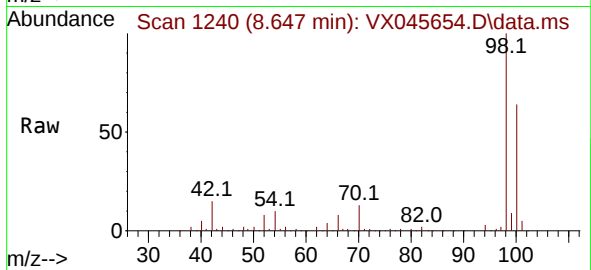




#50  
Toluene-d8  
Concen: 51.918 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

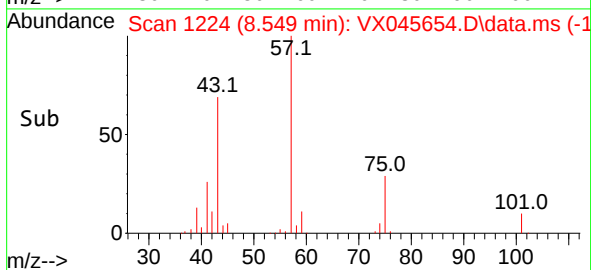
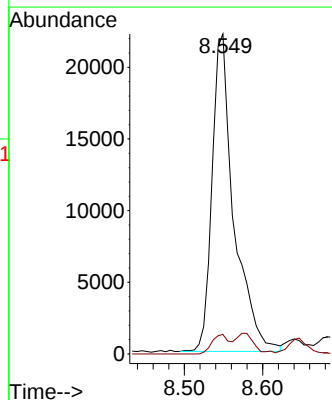
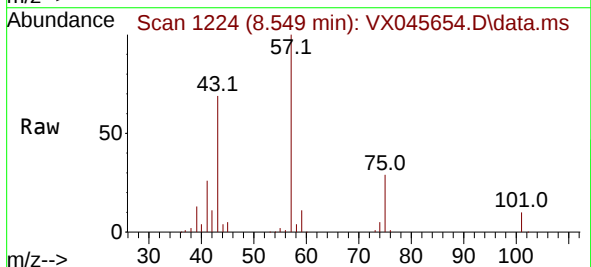
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

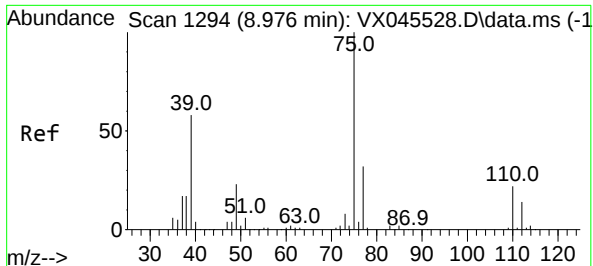
Tgt Ion: 98 Resp: 170639  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 26.535 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 43 Resp: 42717  
Ion Ratio Lower Upper  
43 100  
58 5.1 28.5 42.7#





#53

t-1,3-Dichloropropene

Concen: 2.428 ug/l

RT: 8.951 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

Instrument :

MSVOA\_X

ClientSampleId :

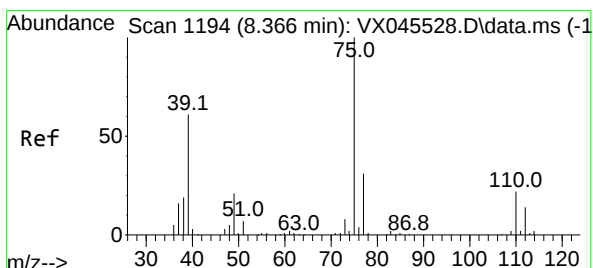
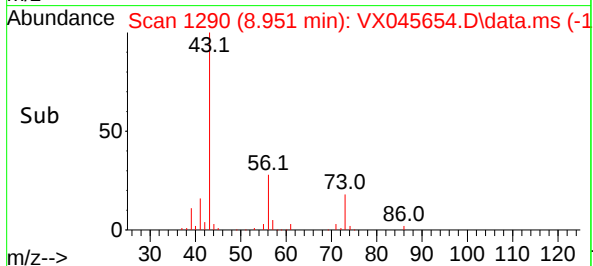
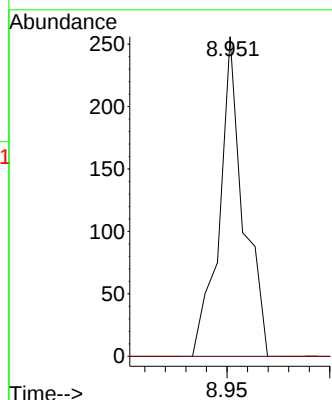
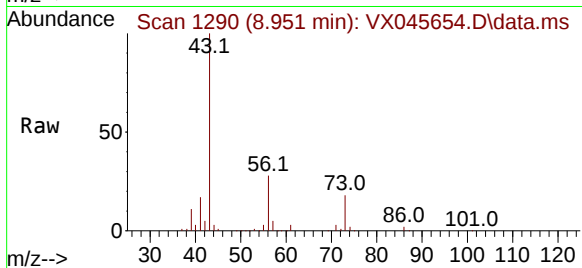
PB167492ZHE03

Tgt Ion: 75 Resp: 208

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 10.859 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

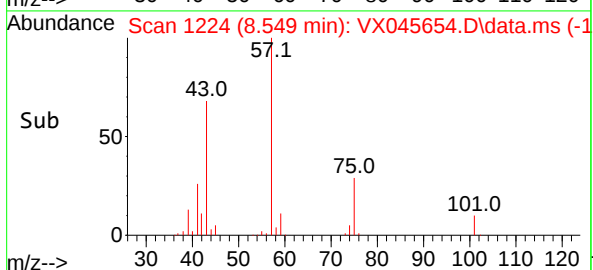
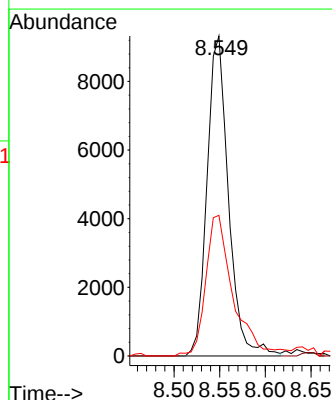
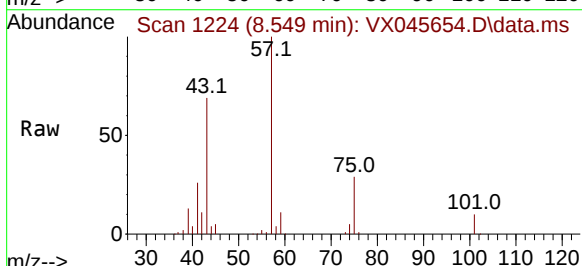
Tgt Ion: 75 Resp: 15156

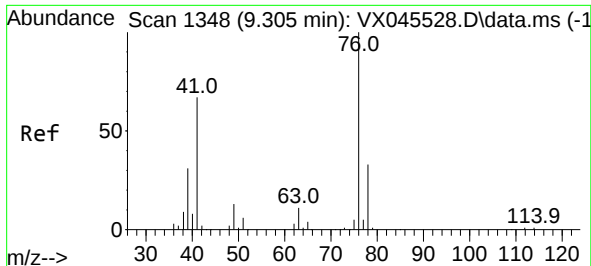
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 43.0 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.925 ug/l

RT: 9.476 min Scan# 1376

Delta R.T. 0.171 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

Instrument :

MSVOA\_X

ClientSampleId :

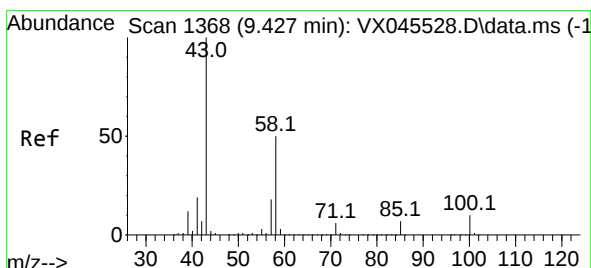
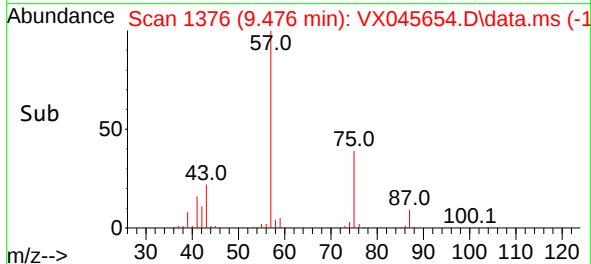
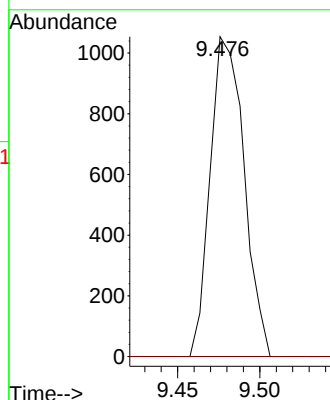
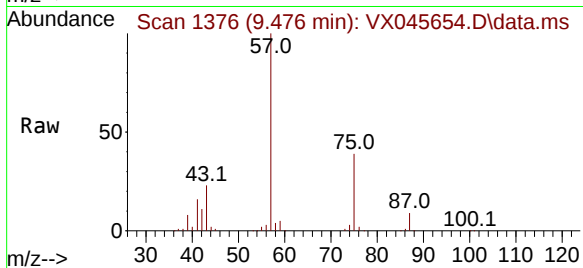
PB167492ZHE03

Tgt Ion: 76 Resp: 1508

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 8.321 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX045654.D

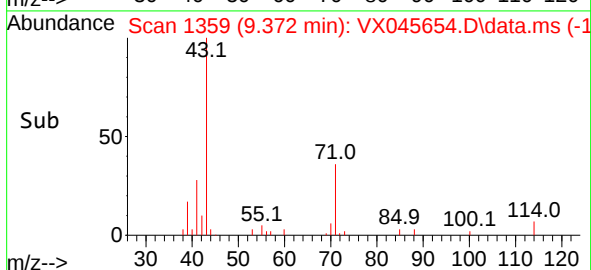
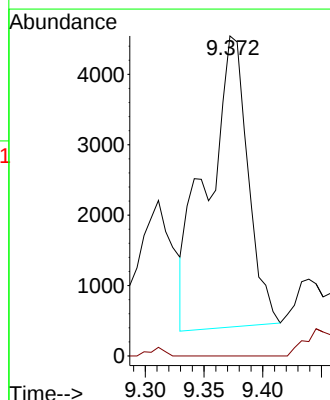
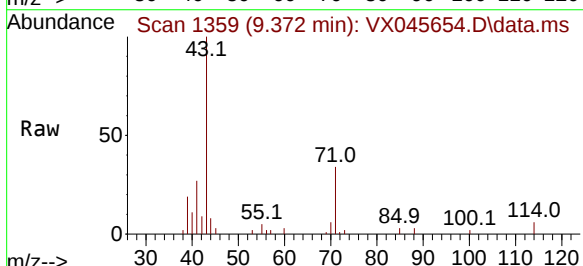
Acq: 08 Apr 2025 15:58

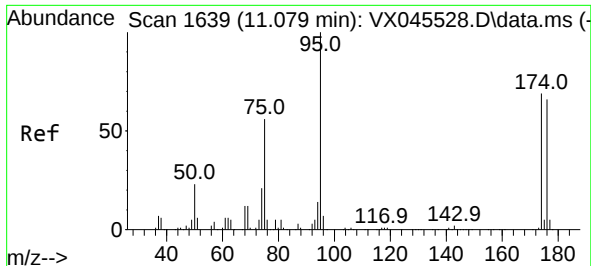
Tgt Ion: 43 Resp: 9919

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#





#62

4-Bromofluorobenzene

Concen: 51.754 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

Instrument :

MSVOA\_X

ClientSampleId :

PB167492ZHE03

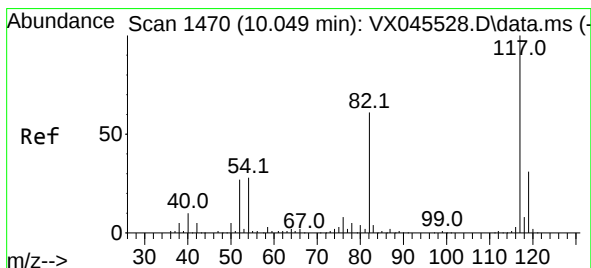
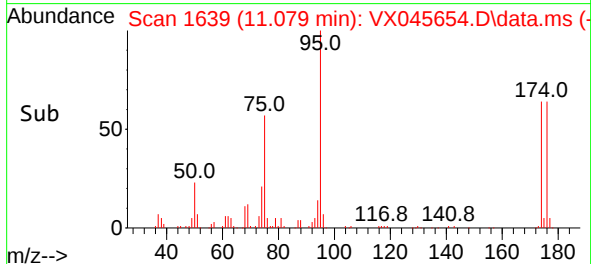
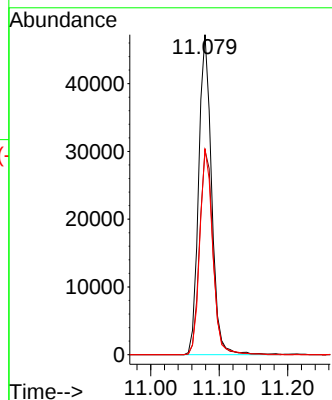
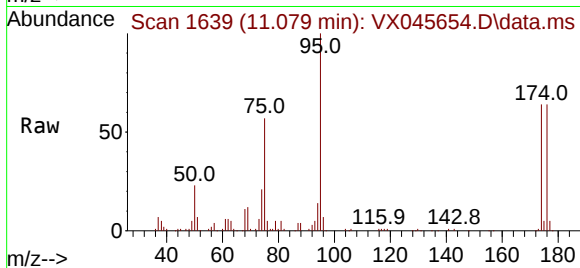
Tgt Ion: 95 Resp: 61958

Ion Ratio Lower Upper

95 100

174 66.4 0.0 135.8

176 64.4 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045654.D

Acq: 08 Apr 2025 15:58

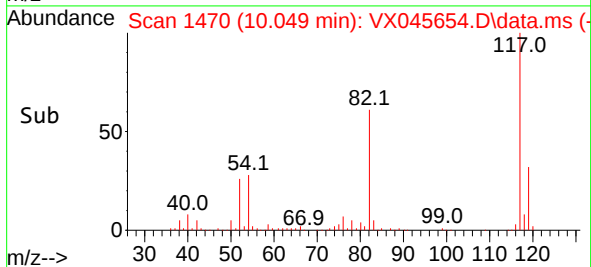
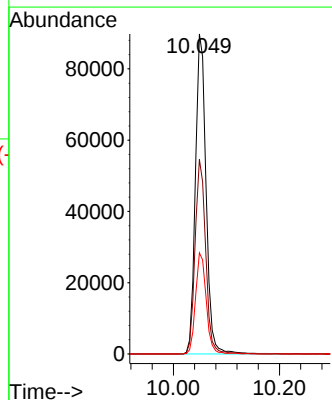
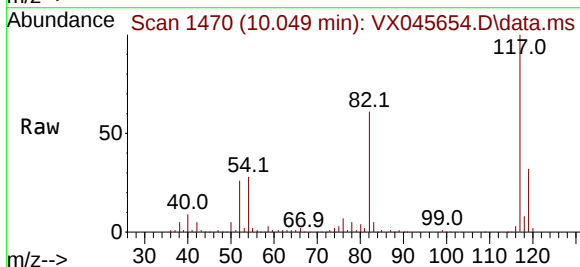
Tgt Ion: 117 Resp: 124907

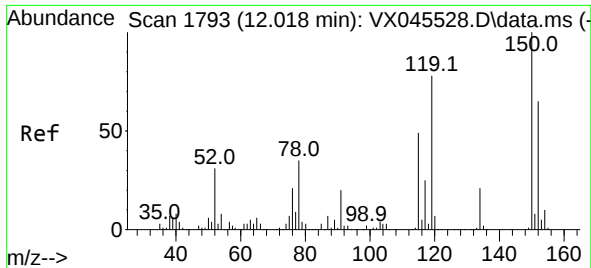
Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

119 31.6 25.1 37.7

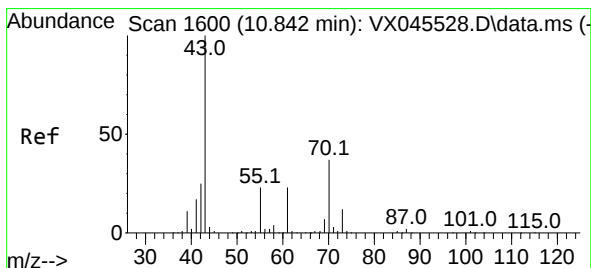
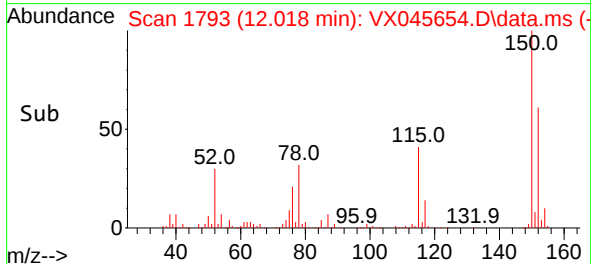
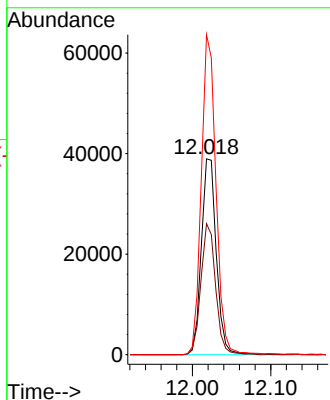
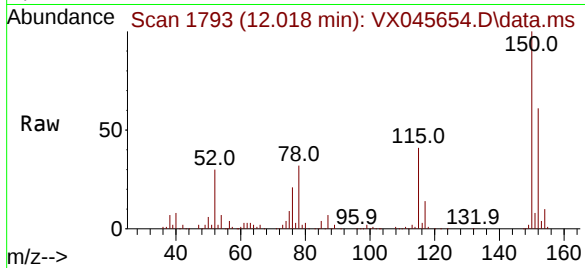




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

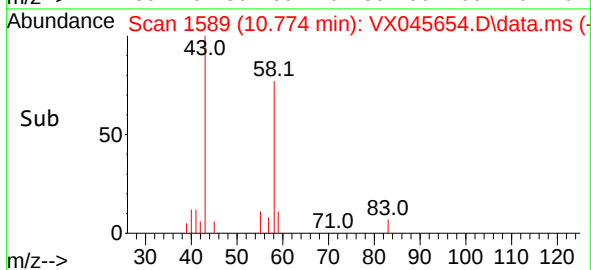
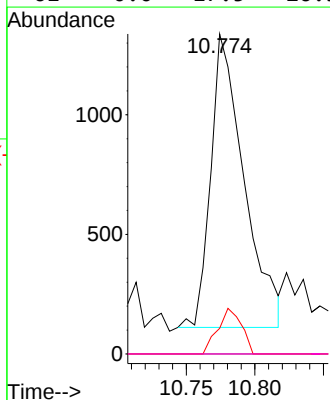
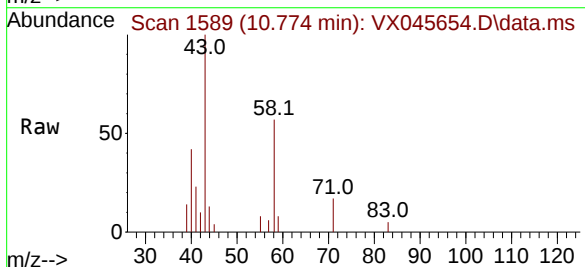
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

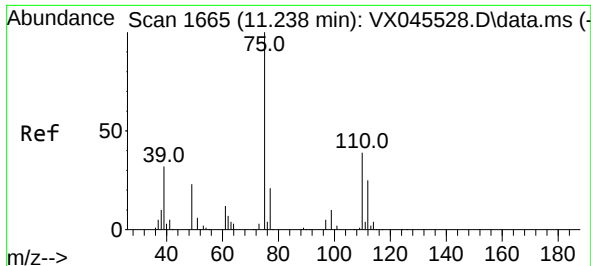
Tgt Ion:152 Resp: 51698  
Ion Ratio Lower Upper  
152 100  
115 65.6 46.9 140.7  
150 160.6 0.0 349.4



#74  
N-ethyl acetate  
Concen: 1.047 ug/l  
RT: 10.774 min Scan# 1589  
Delta R.T. -0.067 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 43 Resp: 2073  
Ion Ratio Lower Upper  
43 100  
70 0.0 30.1 45.1#  
55 11.0 18.3 27.5#  
61 0.0 17.5 26.3#

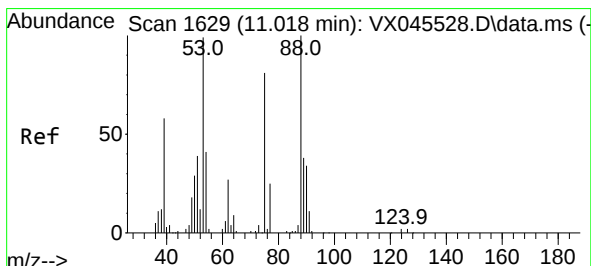
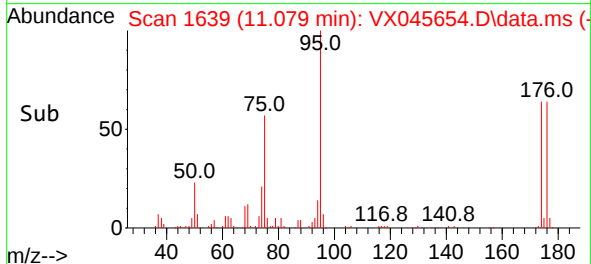
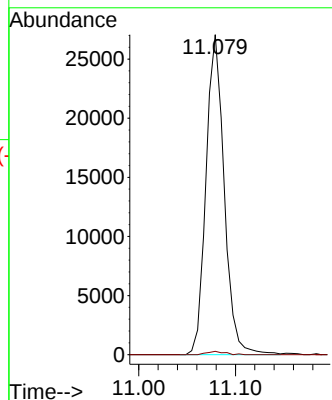
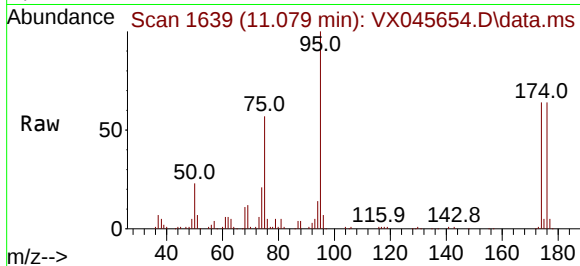




#76  
1,2,3-Trichloropropane  
Concen: 28.149 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167492ZHE03

Tgt Ion: 75 Resp: 35497  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 95.534 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX045654.D  
Acq: 08 Apr 2025 15:58

Tgt Ion: 75 Resp: 35497  
Ion Ratio Lower Upper  
75 100  
53 0.0 101.8 152.6#  
89 0.0 37.2 55.8#

