

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031623\  
 Data File : VX034542.D  
 Acq On : 16 Mar 2023 13:50  
 Operator : JC/MD  
 Sample : PB151426ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB151426ZHE#04

Quant Time: Mar 17 06:24:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 2023  
 Response via : Initial Calibration

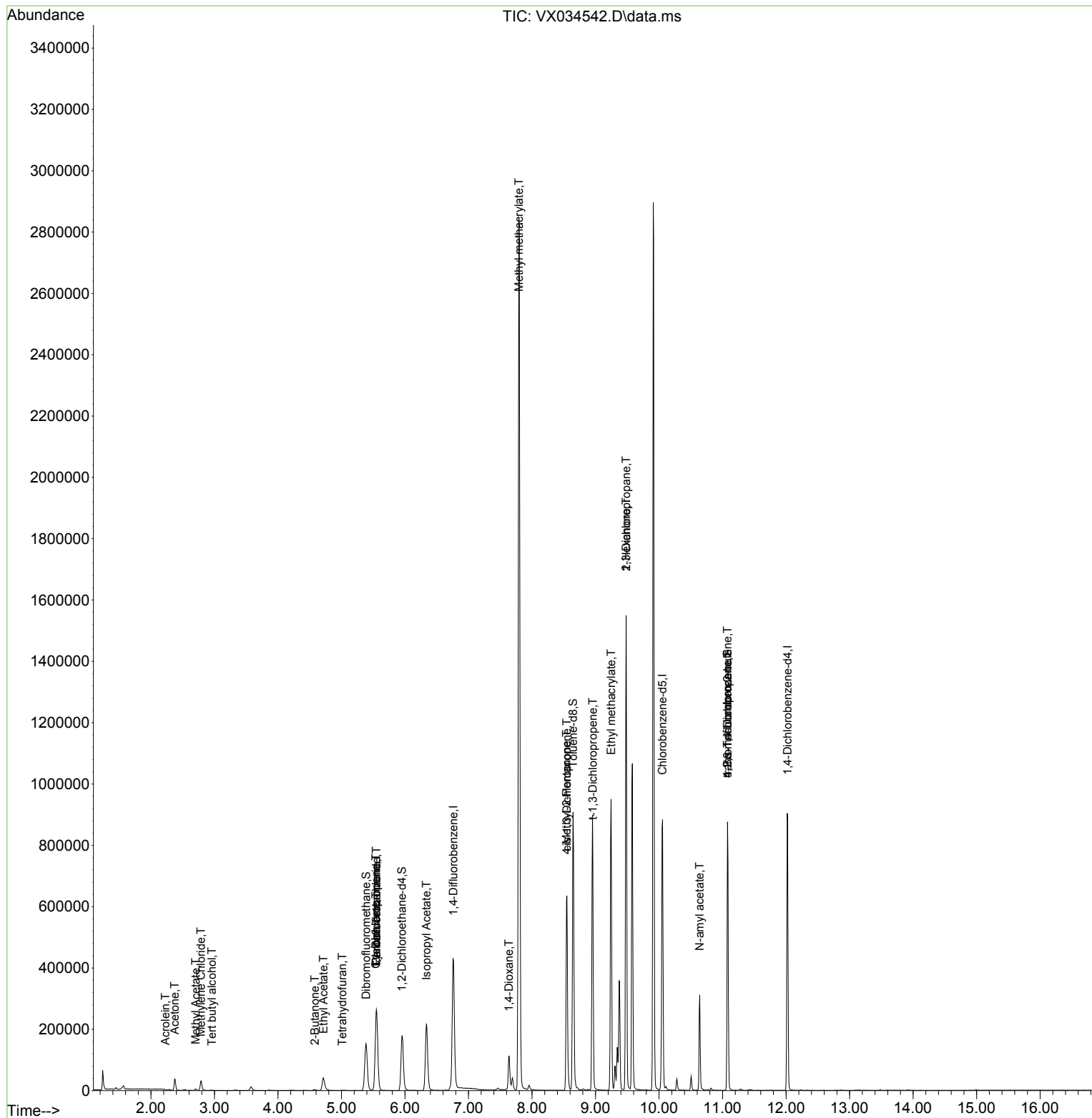
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 245982     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 426267     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 383837     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 182044     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 174211     | 48.682    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 97.360%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 131318     | 46.659    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.320%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 522970     | 49.776    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.560%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 230781     | 54.381    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 108.760%  |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 1.294          | 50   | 493        | Below Cal | #      | 84       |
| 11) Tert butyl alcohol        | 2.959          | 59   | 1192       | 1.600     | ug/l # | 79       |
| 13) Acrolein                  | 2.227          | 56   | 162        | 0.275     | ug/l # | 14       |
| 16) Acetone                   | 2.374          | 43   | 40330      | 23.925    | ug/l   | 96       |
| 18) Methyl Acetate            | 2.703          | 43   | 6479       | 1.176     | ug/l   | 92       |
| 20) Methylene Chloride        | 2.788          | 84   | 13998      | 4.279     | ug/l   | 97       |
| 25) 2-Butanone                | 4.580          | 43   | 5009       | 2.077     | ug/l # | 89       |
| 29) Tetrahydrofuran           | 5.013          | 42   | 575        | 0.386     | ug/l # | 56       |
| 31) Cyclohexane               | 5.544          | 56   | 5802       | 1.156     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 20486      | 4.739     | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.715          | 43   | 73262      | 15.513    | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 25637      | 5.962     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 303167     | 37.895    | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.793          | 41   | 253568     | 65.901    | ug/l # | 47       |
| 49) 1,4-Dioxane               | 7.635          | 88   | 76         | 0.940     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543          | 43   | 235295     | 50.699    | ug/l # | 49       |
| 53) t-1,3-Dichloropropene     | 8.958          | 75   | 1838       | 0.376     | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 102046     | 19.271    | ug/l # | 59       |
| 56) Ethyl methacrylate        | 9.244          | 69   | 1564       | 0.307     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 12262      | 2.221     | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 187768     | 52.338    | ug/l # | 52       |
| 74) N-amyl acetate            | 10.640         | 43   | 84257      | 12.503    | ug/l # | 53       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 127006     | 30.385    | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 127006     | 82.200    | ug/l # | 8        |
| -----                         |                |      |            |           |        |          |

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

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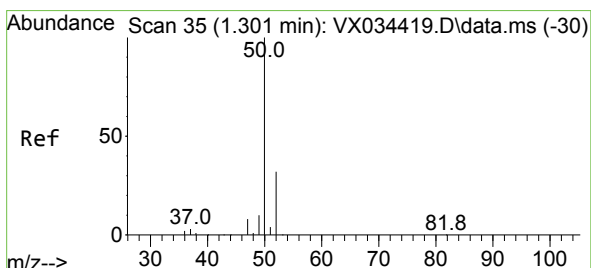
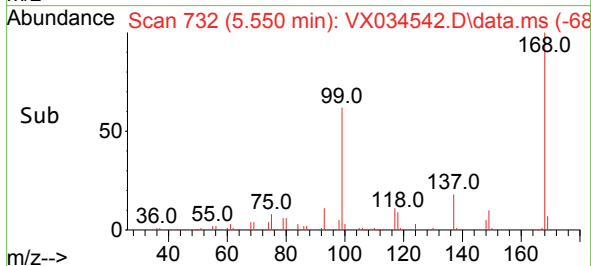
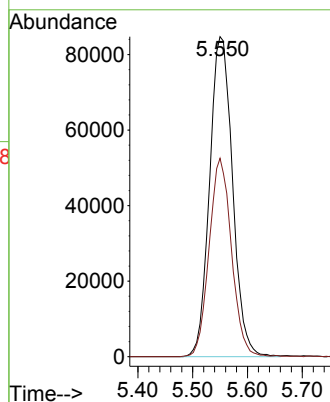
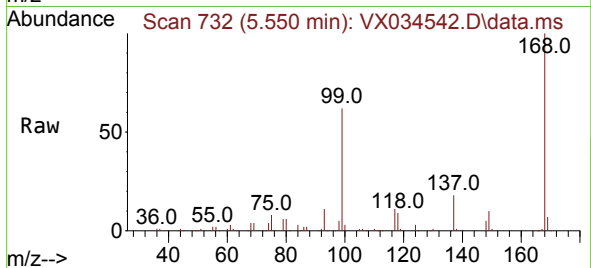




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

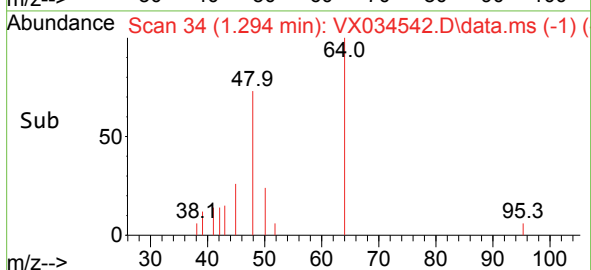
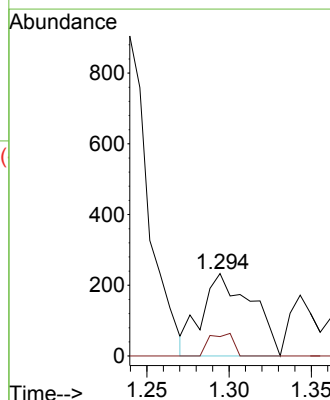
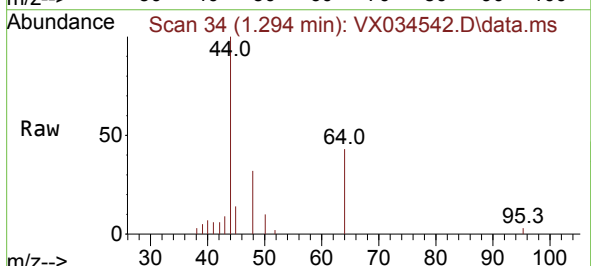
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

Tgt Ion:168 Resp: 245982  
Ion Ratio Lower Upper  
168 100  
99 62.0 45.7 68.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.294 min Scan# 34  
Delta R.T. -0.007 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 50 Resp: 493  
Ion Ratio Lower Upper  
50 100  
52 23.6 25.9 38.9#





#11

Tert butyl alcohol

Concen: 1.600 ug/l

RT: 2.959 min Scan# 306

Delta R.T. 0.006 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

Instrument :

MSVOA\_X

ClientSampleId :

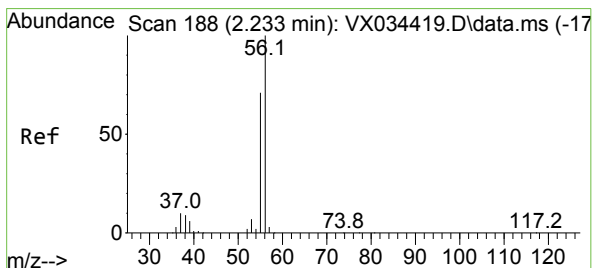
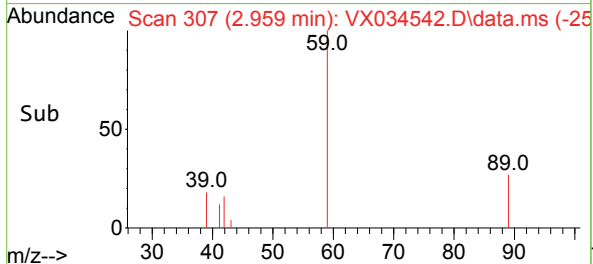
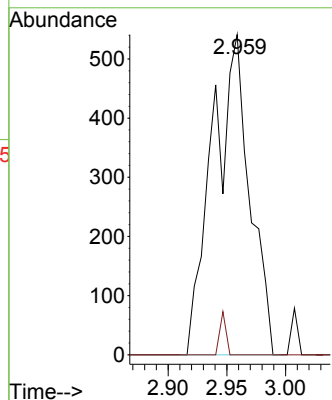
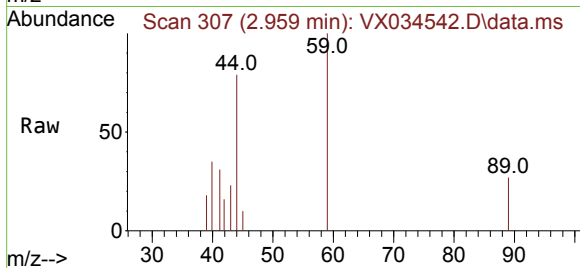
PB151426ZHE#04

Tgt Ion: 59 Resp: 1192

Ion Ratio Lower Upper

59 100

57 2.3 8.1 12.1#



#13

Acrolein

Concen: 0.275 ug/l

RT: 2.227 min Scan# 187

Delta R.T. -0.006 min

Lab File: VX034542.D

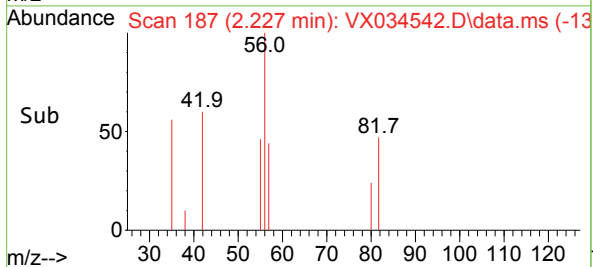
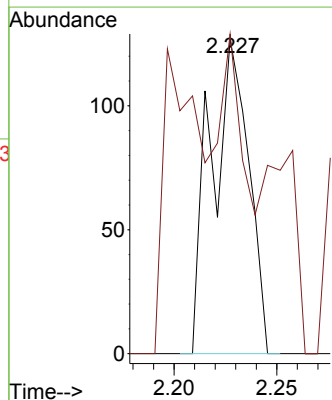
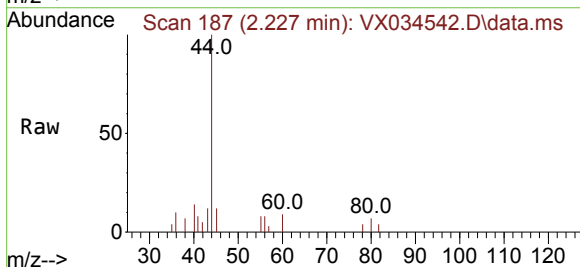
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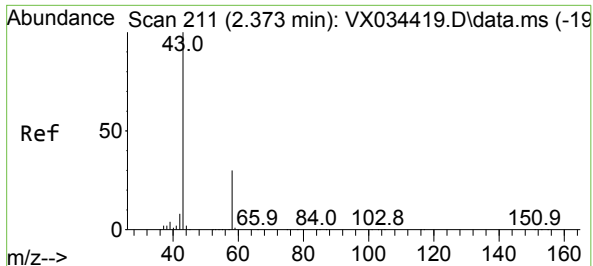
Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#

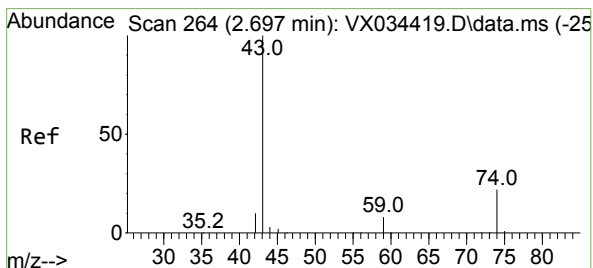
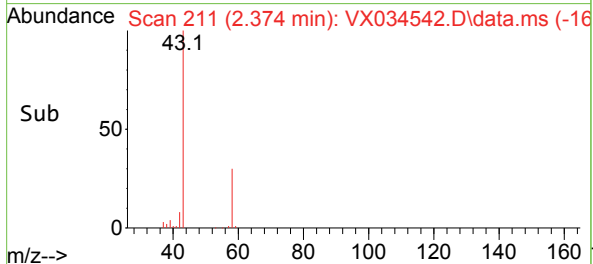
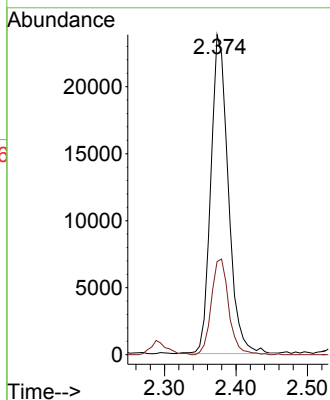
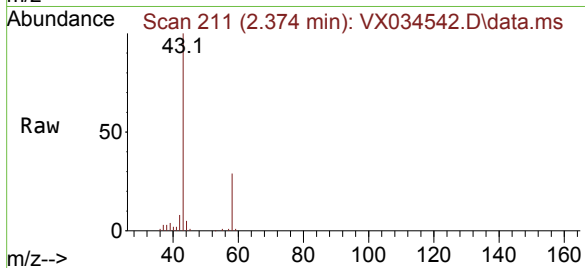




#16  
Acetone  
Concen: 23.925 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

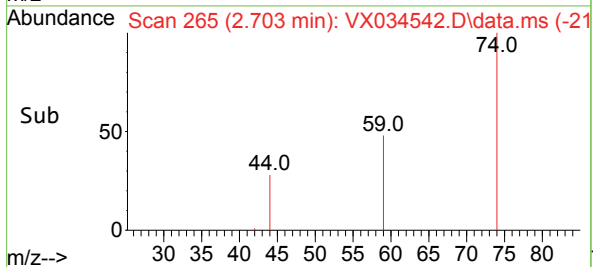
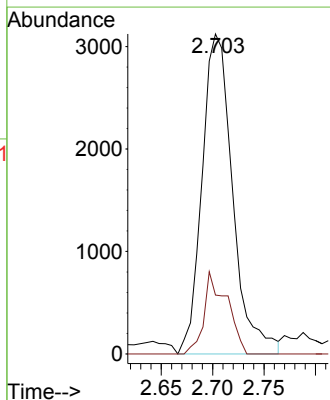
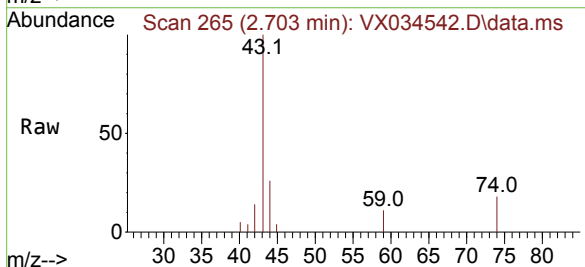
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

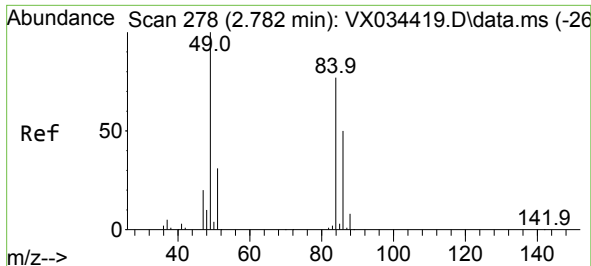
Tgt Ion: 43 Resp: 40330  
Ion Ratio Lower Upper  
43 100  
58 29.0 24.7 37.1



#18  
Methyl Acetate  
Concen: 1.176 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.006 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 43 Resp: 6479  
Ion Ratio Lower Upper  
43 100  
74 19.2 18.3 27.5

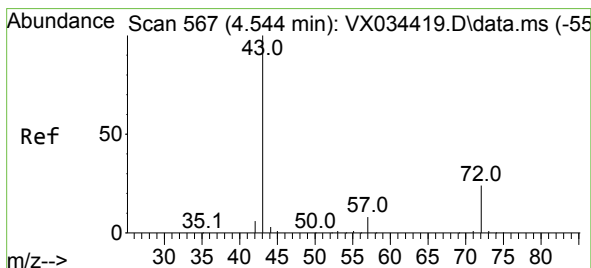
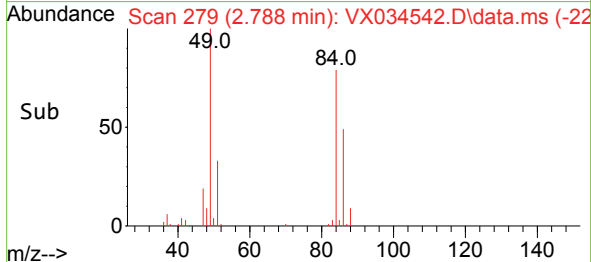
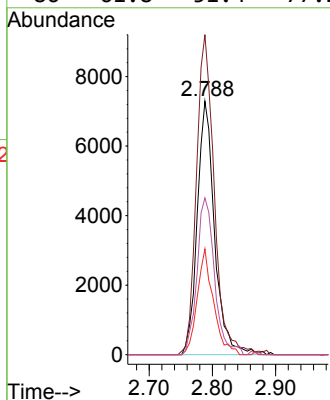
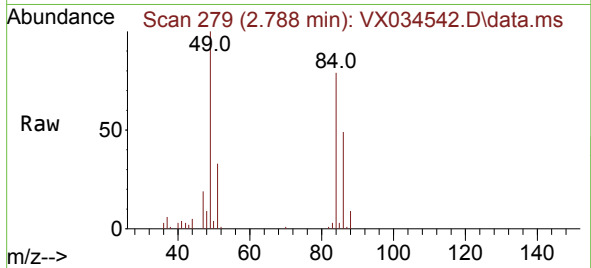




#20  
Methylene Chloride  
Concen: 4.279 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

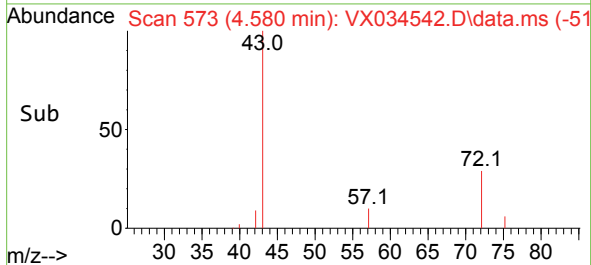
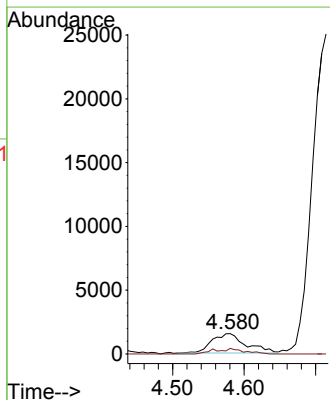
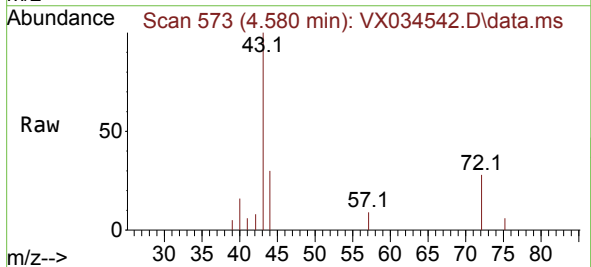
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

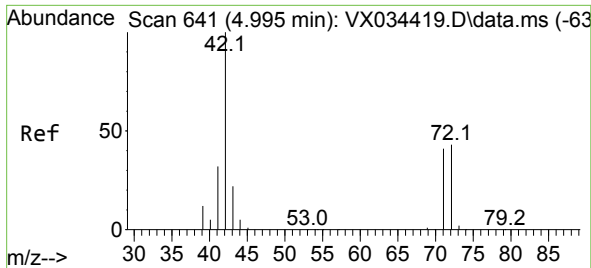
Tgt Ion: 84 Resp: 13998  
Ion Ratio Lower Upper  
84 100  
49 126.2 103.8 155.8  
51 41.7 31.8 47.8  
86 61.8 51.4 77.2



#25  
2-Butanone  
Concen: 2.077 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.037 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 43 Resp: 5009  
Ion Ratio Lower Upper  
43 100  
72 29.3 19.3 28.9#

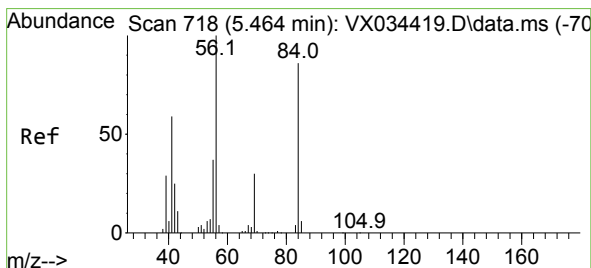
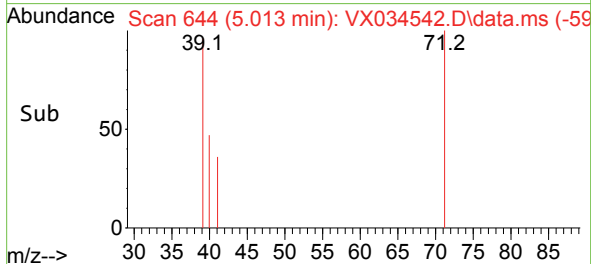
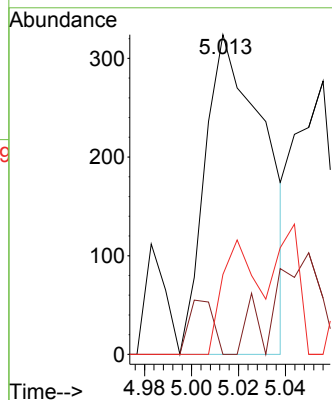
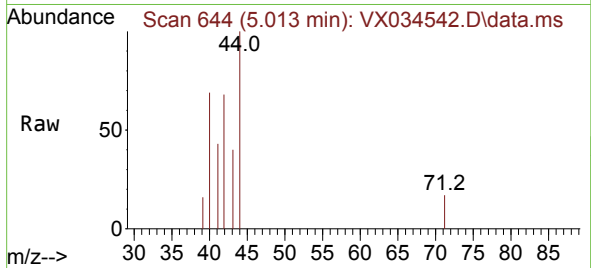




#29  
Tetrahydrofuran  
Concen: 0.386 ug/l  
RT: 5.013 min Scan# 641  
Delta R.T. 0.018 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

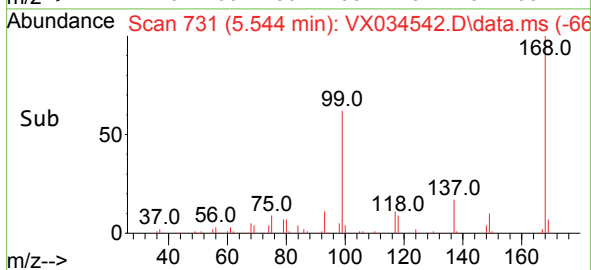
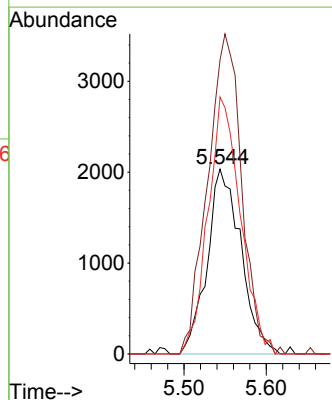
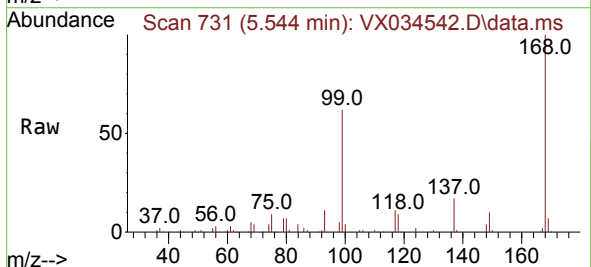
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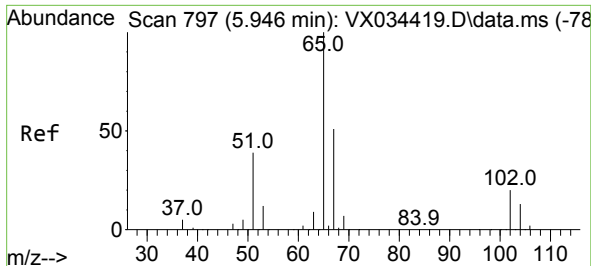
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|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 575   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 7.0   | 34.5  | 51.7# |
| 71       | 21.2  | 32.1  | 48.1# |



#31  
Cyclohexane  
Concen: 1.156 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.079 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 5802   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 159.0 | 23.7  | 35.5#  |
| 84       | 139.0 | 68.5  | 102.7# |





#33

1,2-Dichloroethane-d4

Concen: 48.682 ug/l

RT: 5.952 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

Instrument :

MSVOA\_X

ClientSampleId :

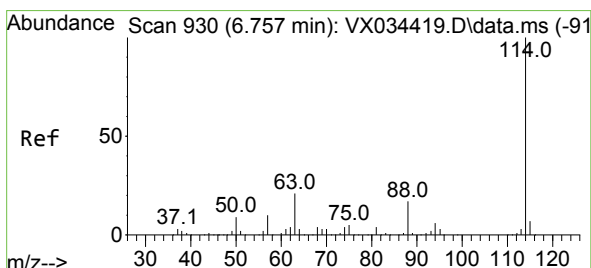
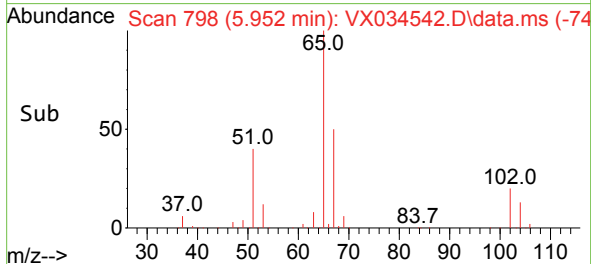
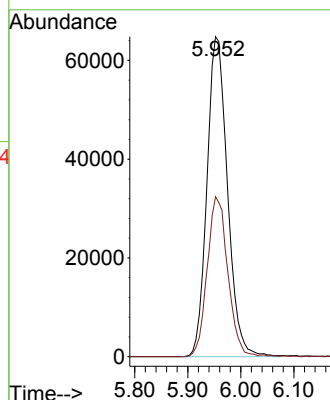
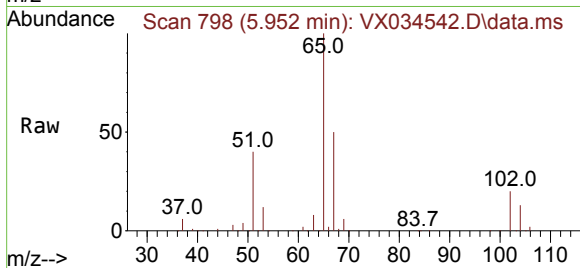
PB151426ZHE#04

Tgt Ion: 65 Resp: 174211

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

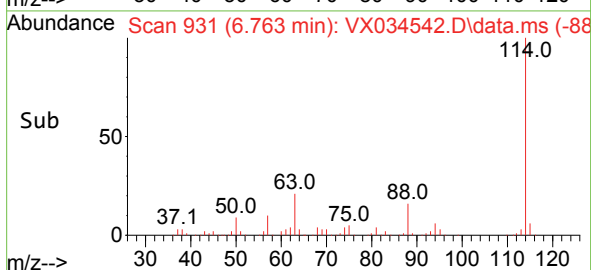
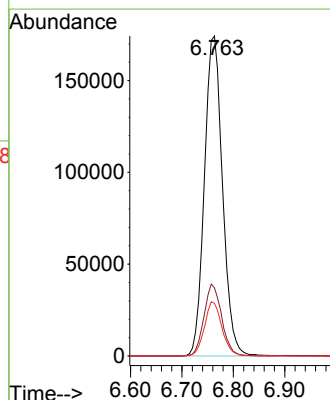
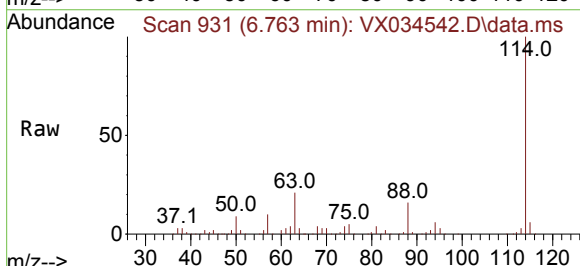
Tgt Ion:114 Resp: 426267

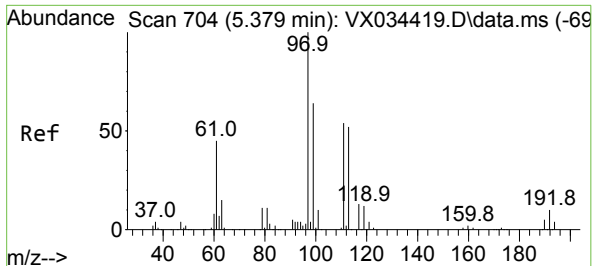
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.2

88 16.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.659 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX034542.D

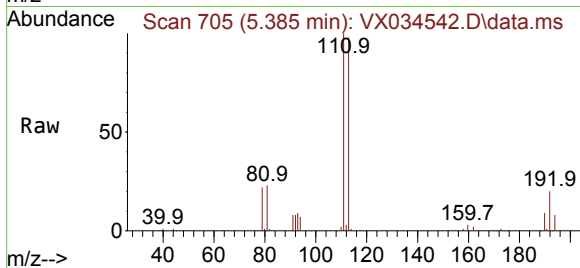
Acq: 16 Mar 2023 13:50

Instrument :

MSVOA\_X

ClientSampleId :

PB151426ZHE#04



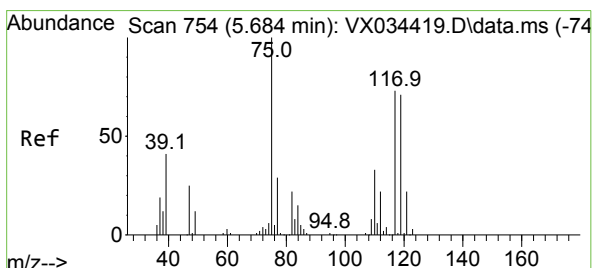
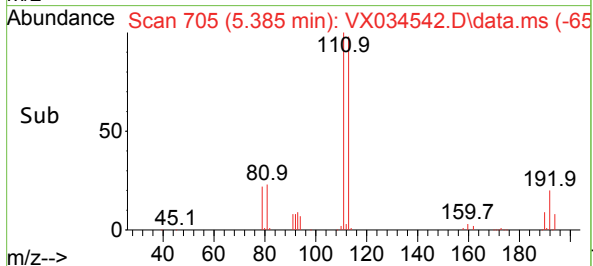
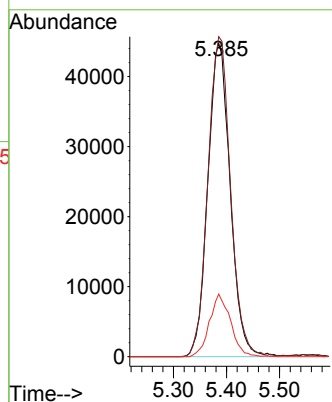
Tgt Ion:113 Resp: 131318

Ion Ratio Lower Upper

113 100

111 103.0 83.7 125.5

192 18.8 15.4 23.2



#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

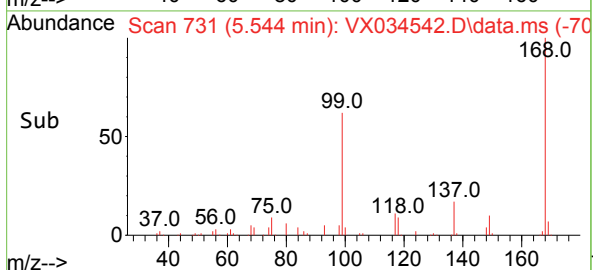
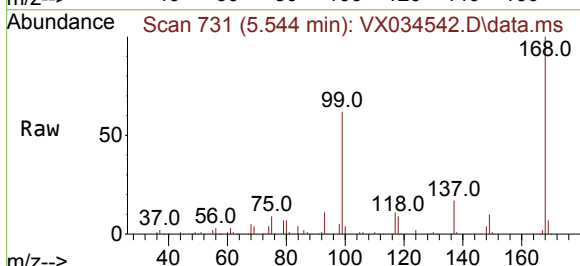
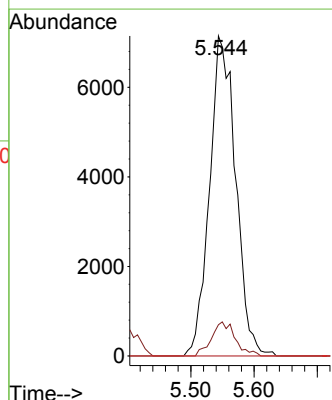
Tgt Ion: 75 Resp: 20486

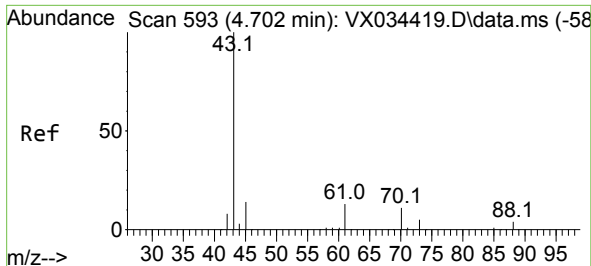
Ion Ratio Lower Upper

75 100

110 9.7 17.5 52.5#

77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 15.513 ug/l

RT: 4.715 min Scan# 593

Delta R.T. 0.012 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

Instrument :

MSVOA\_X

ClientSampleId :

PB151426ZHE#04

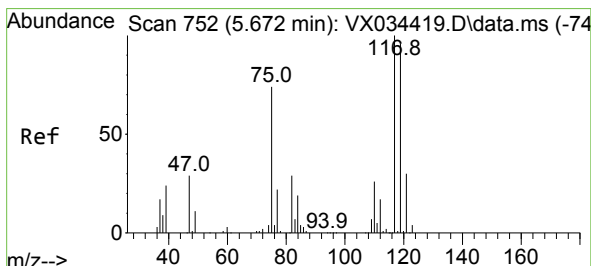
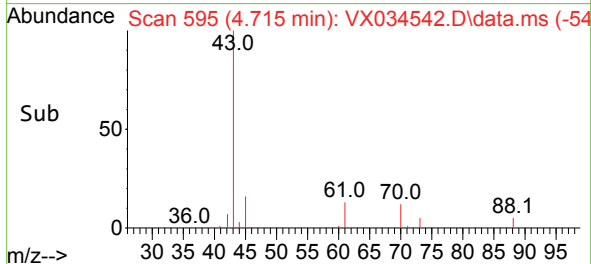
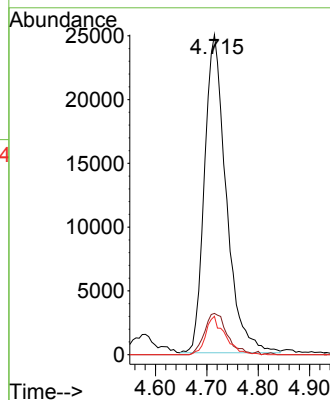
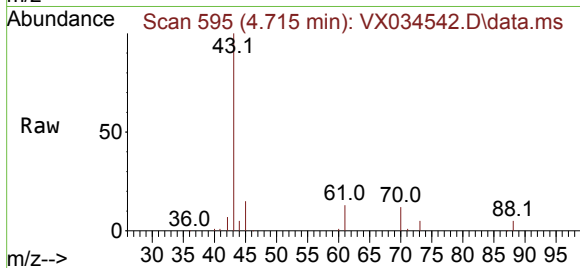
Tgt Ion: 43 Resp: 73262

Ion Ratio Lower Upper

43 100

61 13.6 10.2 15.4

70 10.8 8.2 12.4



#38

Carbon Tetrachloride

Concen: 5.962 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.122 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

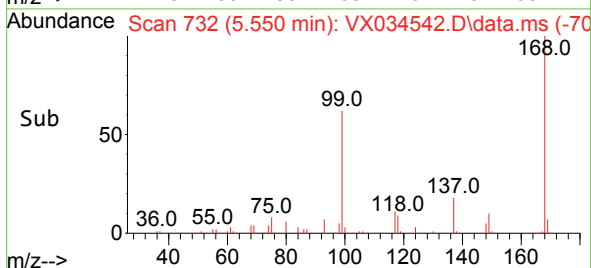
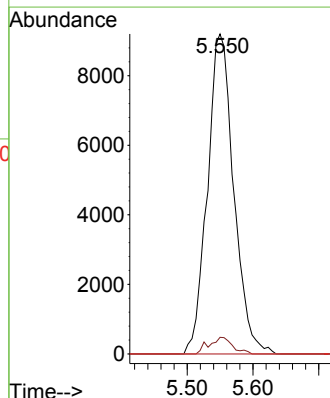
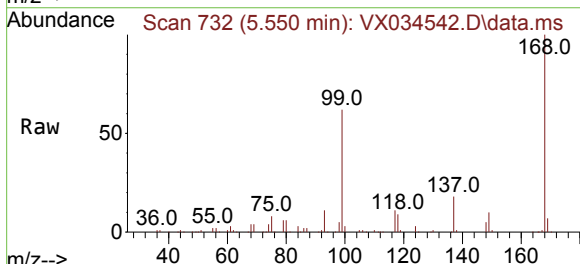
Tgt Ion: 117 Resp: 25637

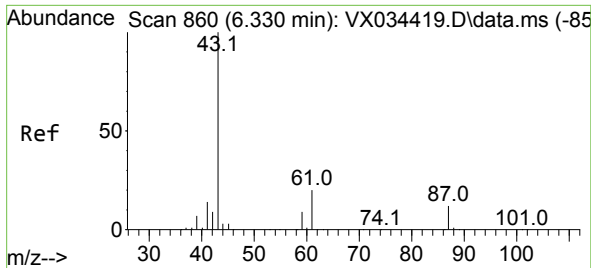
Ion Ratio Lower Upper

117 100

119 5.2 76.6 114.8#

121 0.0 23.8 35.6#

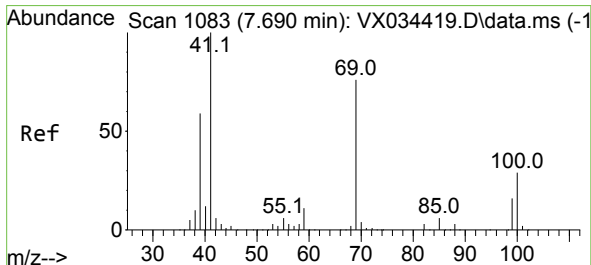
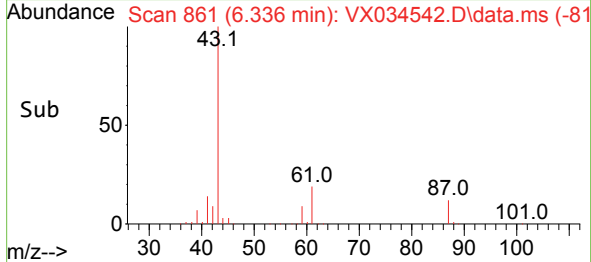
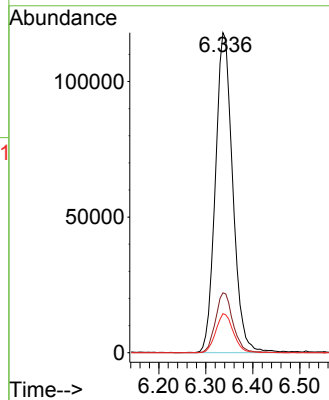
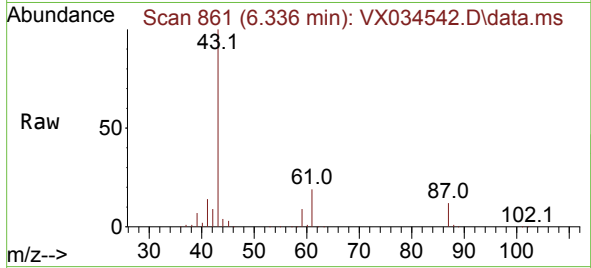




#43  
Isopropyl Acetate  
Concen: 37.895 ug/l  
RT: 6.336 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

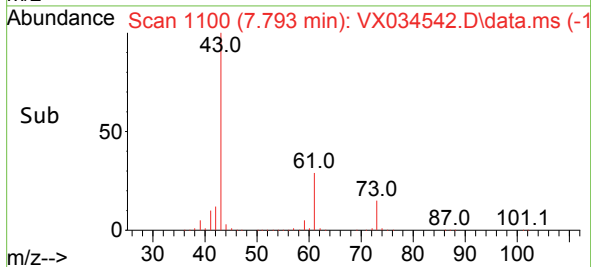
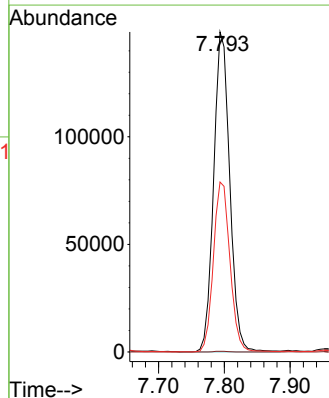
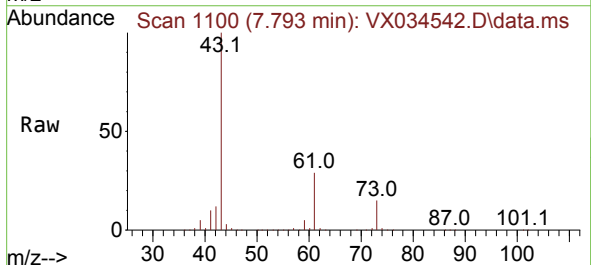
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

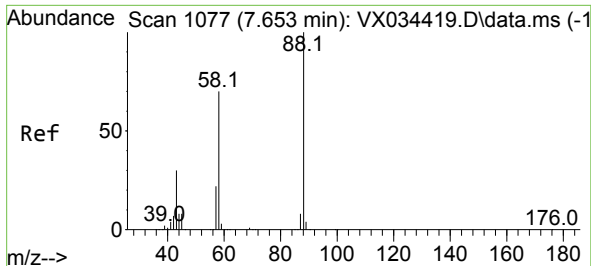
Tgt Ion: 43 Resp: 303167  
Ion Ratio Lower Upper  
43 100  
61 18.8 15.2 22.8  
87 12.3 9.8 14.8



#48  
Methyl methacrylate  
Concen: 65.901 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.104 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

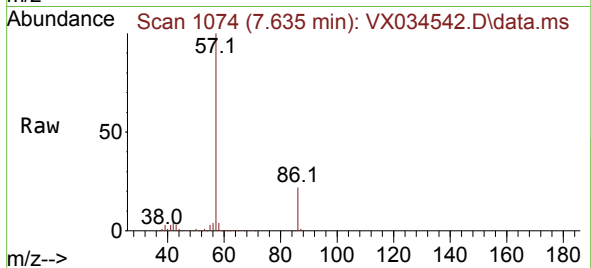
Tgt Ion: 41 Resp: 253568  
Ion Ratio Lower Upper  
41 100  
69 0.2 62.2 93.4#  
39 54.7 47.7 71.5



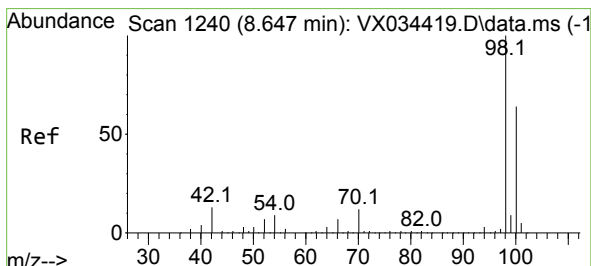
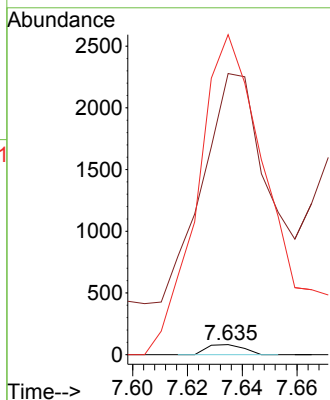
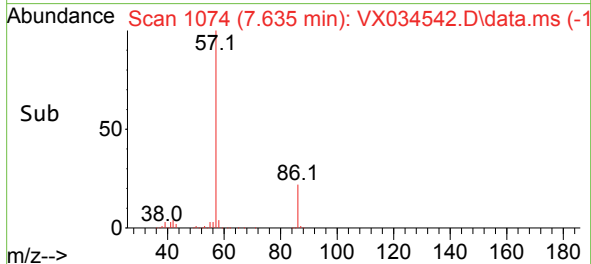


#49  
1,4-Dioxane  
Concen: 0.940 ug/l  
RT: 7.635 min Scan# 1074  
Delta R.T. -0.018 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

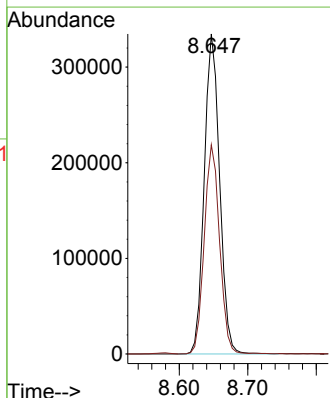
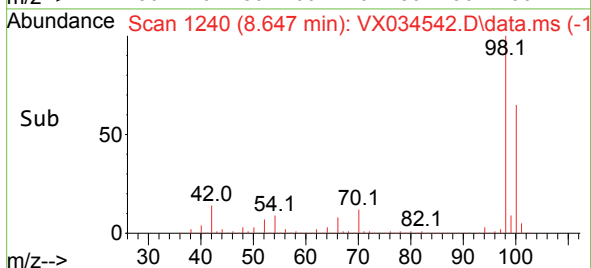
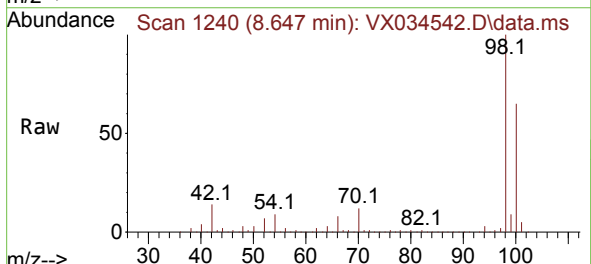


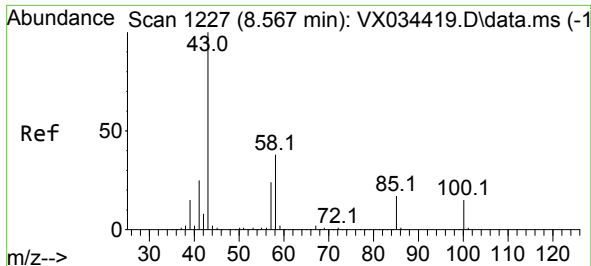
Tgt Ion: 88 Resp: 76  
Ion Ratio Lower Upper  
88 100  
43 0.0 27.7 41.5#  
58 6346.1 56.8 85.2#



#50  
Toluene-d8  
Concen: 49.776 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 98 Resp: 522970  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.5 78.7

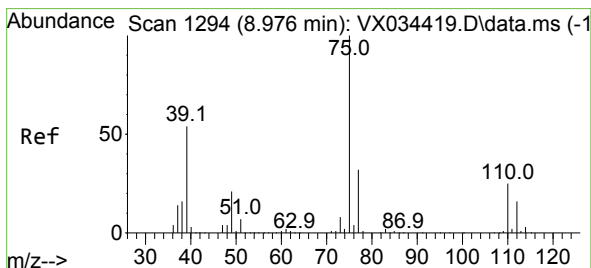
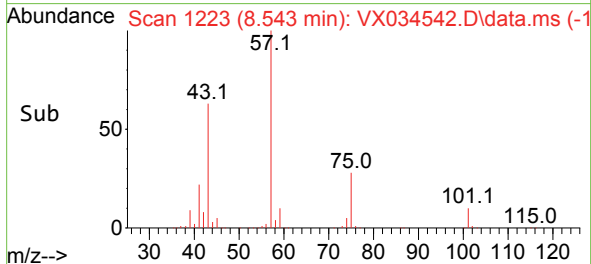
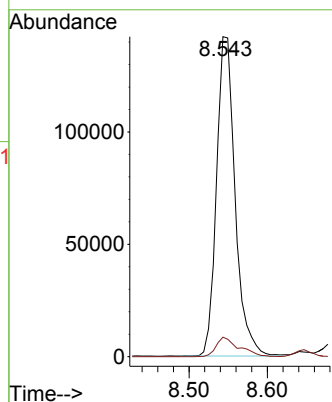
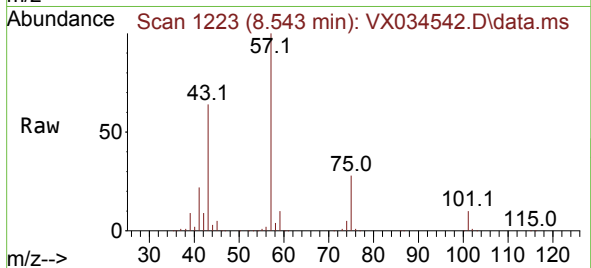




#51  
4-Methyl-2-Pentanone  
Concen: 50.699 ug/l  
RT: 8.543 min Scan# 1223  
Delta R.T. -0.024 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

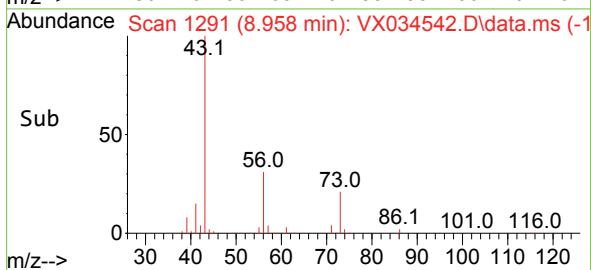
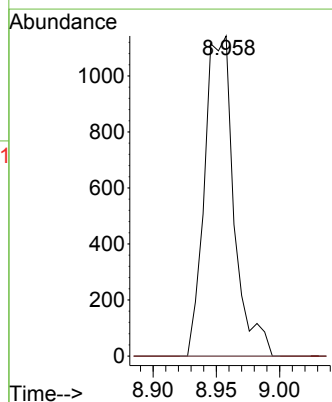
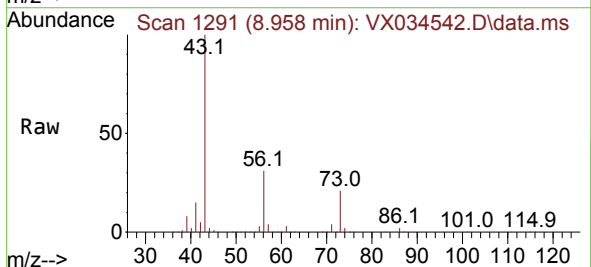
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

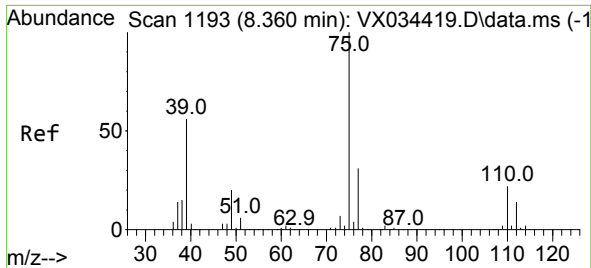
Tgt Ion: 43 Resp: 235295  
Ion Ratio Lower Upper  
43 100  
58 7.5 30.6 46.0#



#53  
t-1,3-Dichloropropene  
Concen: 0.376 ug/l  
RT: 8.958 min Scan# 1291  
Delta R.T. -0.018 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 75 Resp: 1838  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.2#

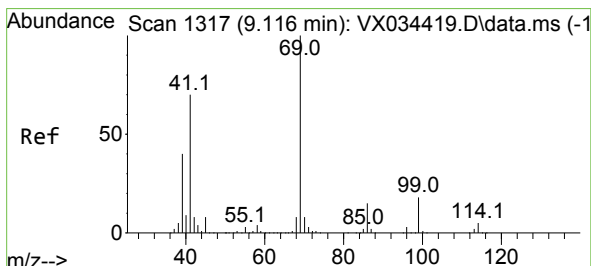
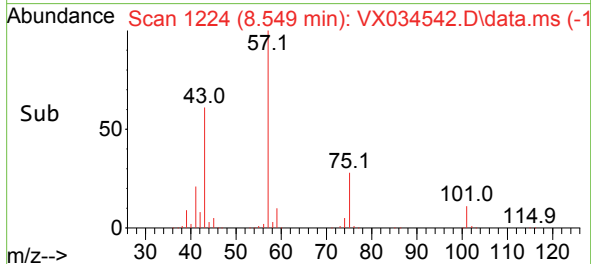
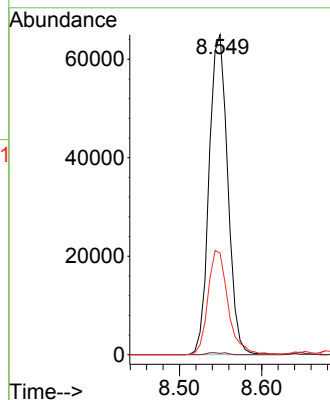
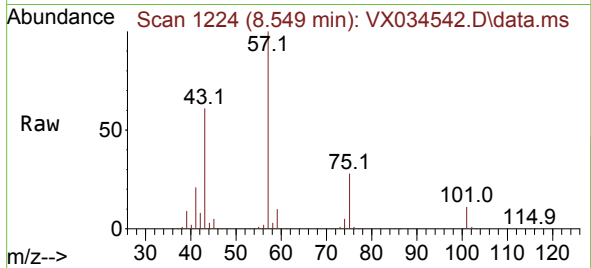




#54  
 cis-1,3-Dichloropropene  
 Concen: 19.271 ug/l  
 RT: 8.549 min Scan# 1193  
 Delta R.T. 0.189 min  
 Lab File: VX034542.D  
 Acq: 16 Mar 2023 13:50

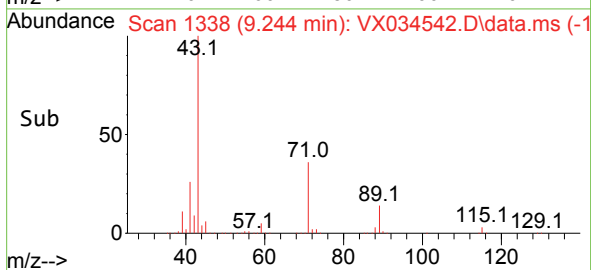
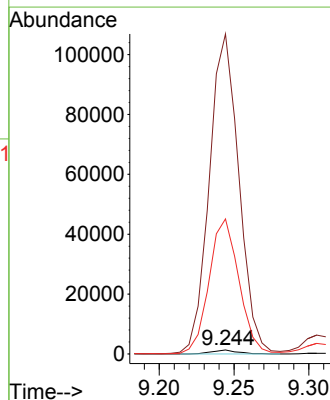
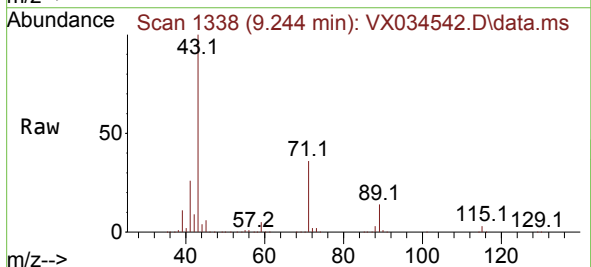
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB151426ZHE#04

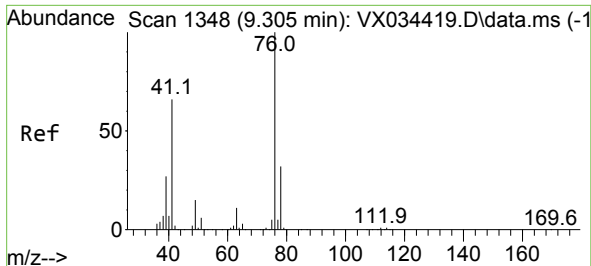
Tgt Ion: 75 Resp: 102046  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.0 37.4#  
 39 31.8 44.6 66.8#



#56  
 Ethyl methacrylate  
 Concen: 0.307 ug/l  
 RT: 9.244 min Scan# 1338  
 Delta R.T. 0.128 min  
 Lab File: VX034542.D  
 Acq: 16 Mar 2023 13:50

Tgt Ion: 69 Resp: 1564  
 Ion Ratio Lower Upper  
 69 100  
 41 9409.7 57.4 86.0#  
 39 4009.4 33.7 50.5#





#57

1,3-Dichloropropane

Concen: 2.221 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

Instrument :

MSVOA\_X

ClientSampleId :

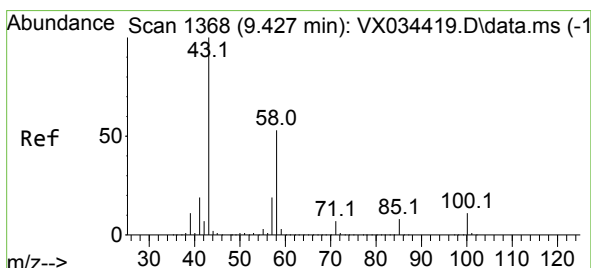
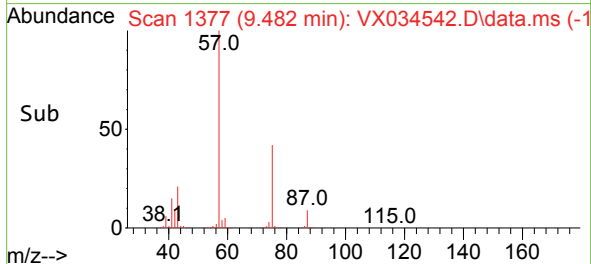
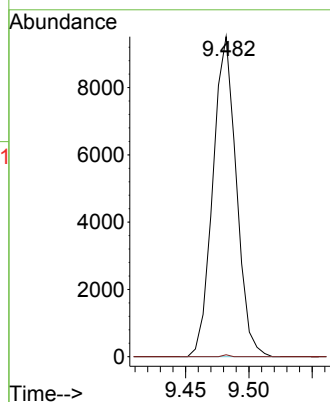
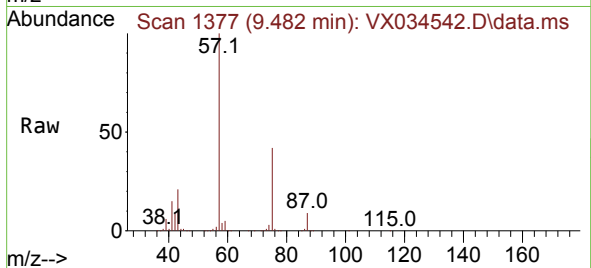
PB151426ZHE#04

Tgt Ion: 76 Resp: 12262

Ion Ratio Lower Upper

76 100

78 0.2 25.8 38.8#



#59

2-Hexanone

Concen: 52.338 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.055 min

Lab File: VX034542.D

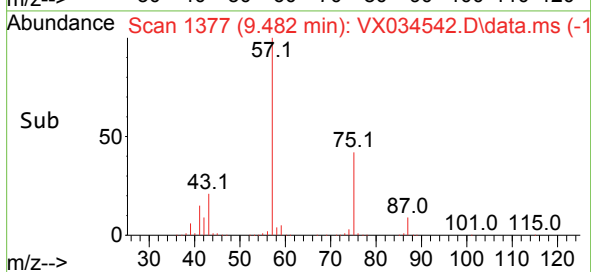
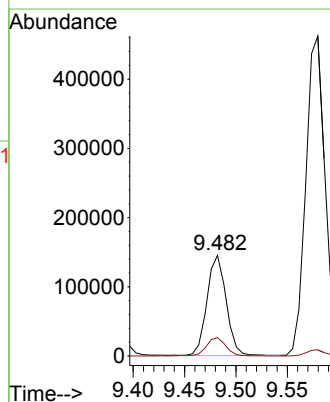
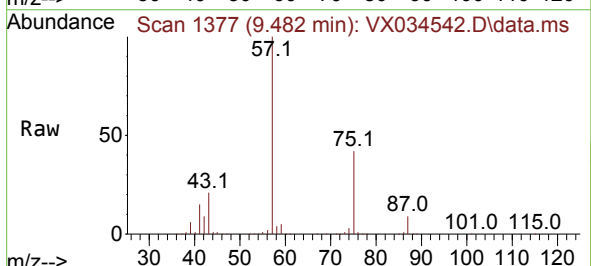
Acq: 16 Mar 2023 13:50

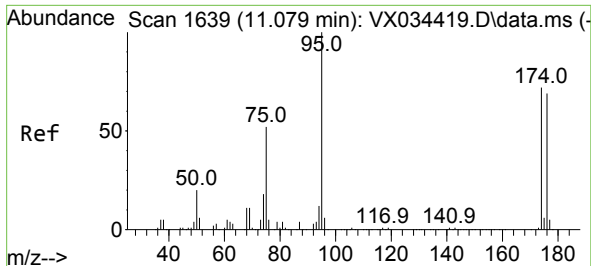
Tgt Ion: 43 Resp: 187768

Ion Ratio Lower Upper

43 100

58 18.8 26.3 78.9#

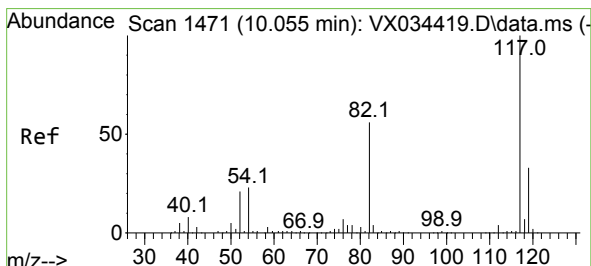
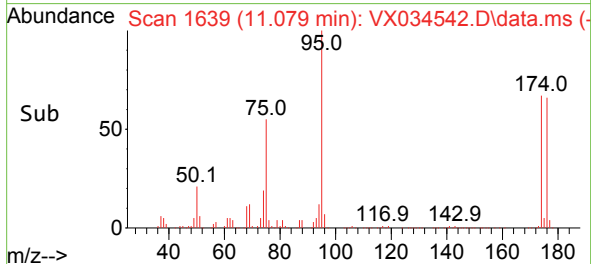
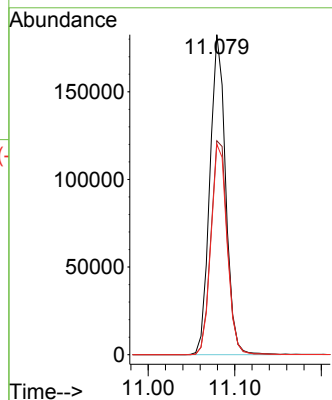
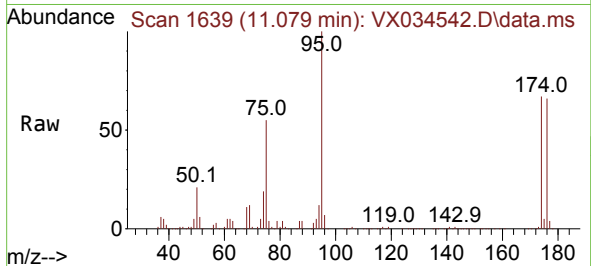




#62  
4-Bromofluorobenzene  
Concen: 54.381 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

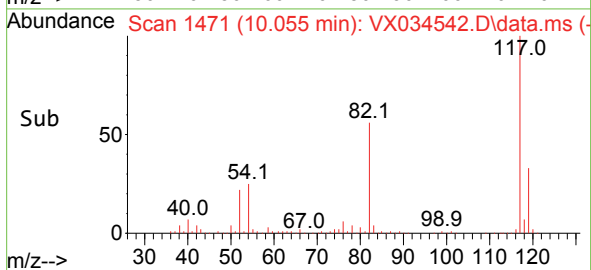
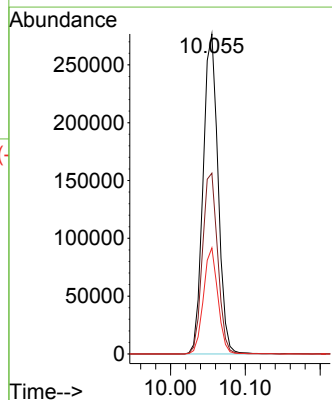
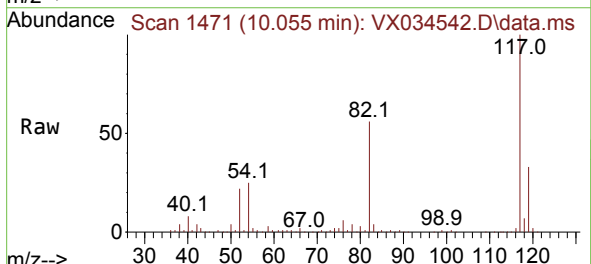
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

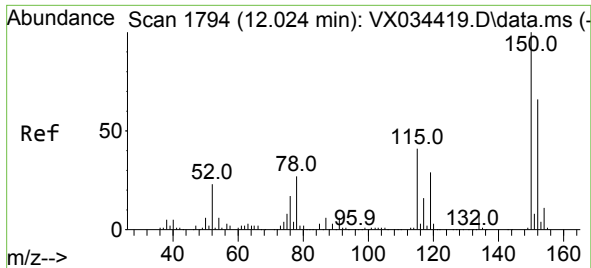
Tgt Ion: 95 Resp: 230781  
Ion Ratio Lower Upper  
95 100  
174 70.2 0.0 147.4  
176 67.6 0.0 140.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 117 Resp: 383837  
Ion Ratio Lower Upper  
117 100  
82 56.5 45.0 67.4  
119 33.2 26.0 39.0

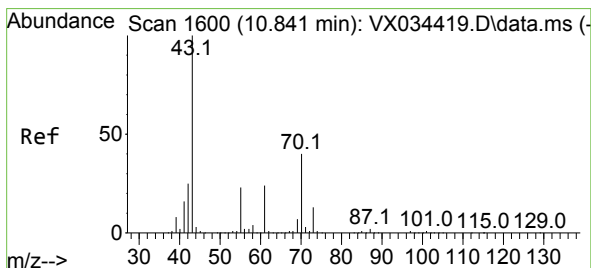
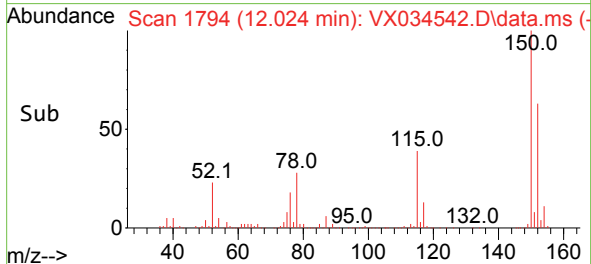
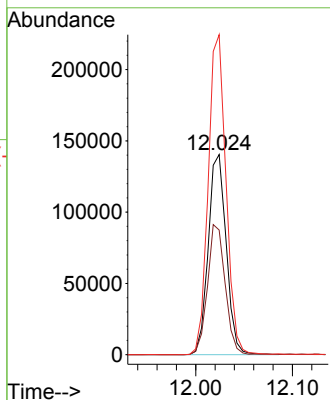
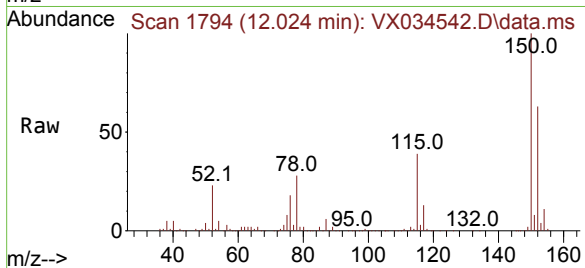




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

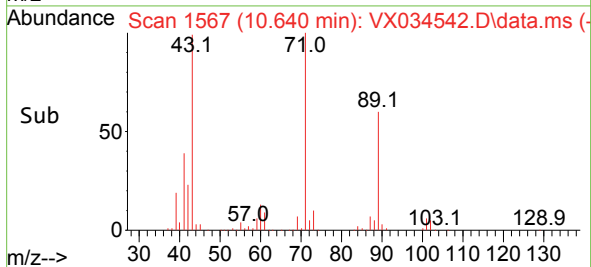
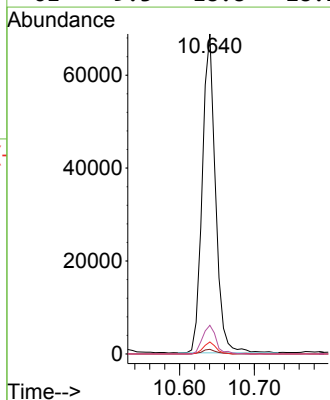
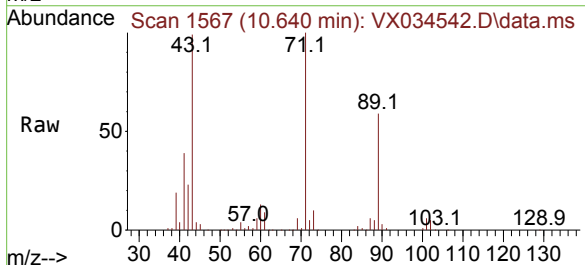
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426ZHE#04

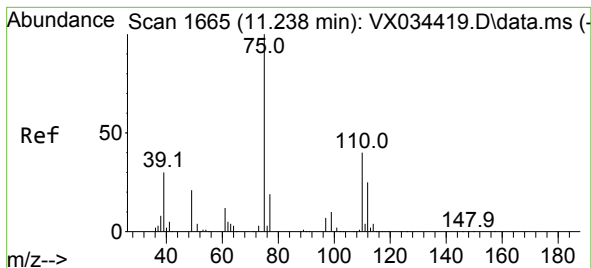
Tgt Ion:152 Resp: 182044  
Ion Ratio Lower Upper  
152 100  
115 64.2 45.0 135.0  
150 158.0 0.0 352.4



#74  
N-ethyl acetate  
Concen: 12.503 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.201 min  
Lab File: VX034542.D  
Acq: 16 Mar 2023 13:50

Tgt Ion: 43 Resp: 84257  
Ion Ratio Lower Upper  
43 100  
70 1.6 32.1 48.1#  
55 3.6 18.3 27.5#  
61 9.3 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 30.385 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

Instrument :

MSVOA\_X

ClientSampleId :

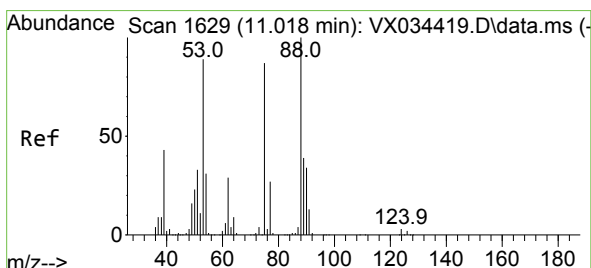
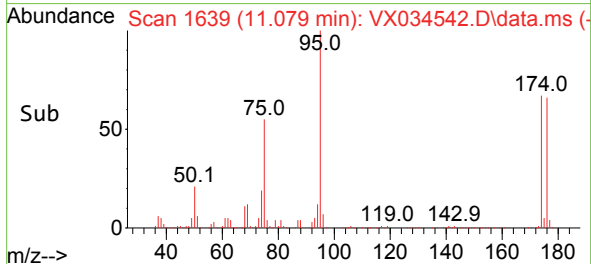
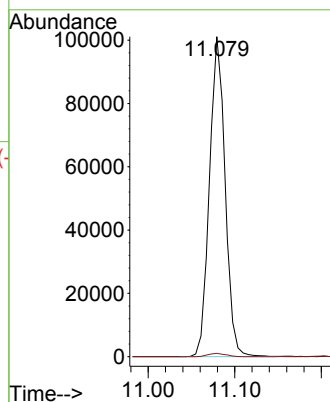
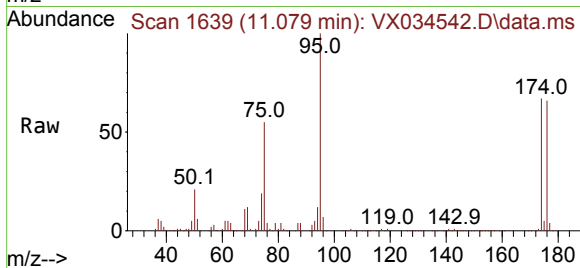
PB151426ZHE#04

Tgt Ion: 75 Resp: 127006

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.200 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX034542.D

Acq: 16 Mar 2023 13:50

Tgt Ion: 75 Resp: 127006

Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.0 36.9 55.3#

