

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061923\  
 Data File : VX036222.D  
 Acq On : 19 Jun 2023 21:33  
 Operator : JC/MD  
 Sample : PB153531ZHE#10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153531ZHE#10

Quant Time: Jun 20 03:50:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 16 16:28:40 2023  
 Response via : Initial Calibration

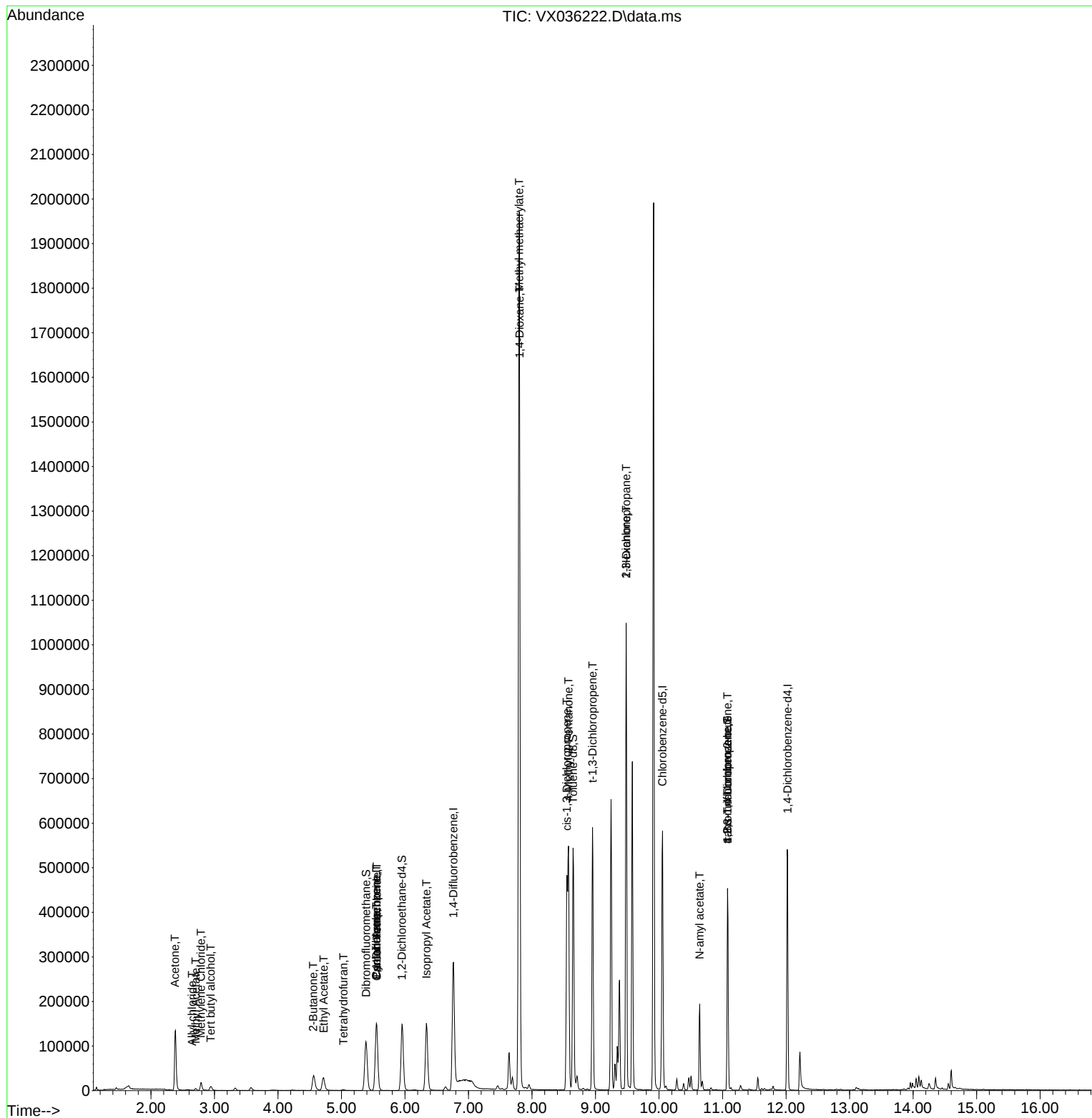
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 126583   | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 258810   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 235231   | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 100498   | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 151782   | 65.615   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 131.220%# |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 94091    | 53.612   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 107.220%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 304207   | 47.386   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 94.780%   |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 117483   | 45.336   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 90.680%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 11) Tert butyl alcohol        | 2.940  | 59    | 6254     | 17.684   | ug/l #      | 86       |
| 14) Allyl chloride            | 2.648  | 41    | 671      | 0.243    | ug/l #      | 24       |
| 16) Acetone                   | 2.380  | 43    | 158284   | 164.696  | ug/l        | 97       |
| 18) Methyl Acetate            | 2.703  | 43    | 5282     | 1.449    | ug/l        | 99       |
| 20) Methylene Chloride        | 2.788  | 84    | 8505     | 4.884    | ug/l        | 94       |
| 25) 2-Butanone                | 4.556  | 43    | 53949    | 40.096   | ug/l        | 95       |
| 29) Tetrahydrofuran           | 5.031  | 42    | 1915     | 2.241    | ug/l #      | 69       |
| 31) Cyclohexane               | 5.550  | 56    | 3551     | 1.431    | ug/l #      | 29       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 13005    | 5.030    | ug/l #      | 51       |
| 37) Ethyl Acetate             | 4.721  | 43    | 52783    | 17.524   | ug/l        | 99       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 14644    | 5.827    | ug/l #      | 16       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 206594   | 44.819   | ug/l        | 98       |
| 48) Methyl methacrylate       | 7.799  | 41    | 185194   | 78.308   | ug/l #      | 49       |
| 49) 1,4-Dioxane               | 7.805  | 88    | 227      | 5.733    | ug/l #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43    | 460093   | 158.076  | ug/l #      | 80       |
| 53) t-1,3-Dichloropropene     | 8.952  | 75    | 1284     | 0.472    | ug/l #      | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 65120    | 22.303   | ug/l #      | 66       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 8611     | 2.576    | ug/l #      | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 128979   | 59.606   | ug/l #      | 51       |
| 74) N-amyl acetate            | 10.640 | 43    | 53051    | 15.743   | ug/l #      | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 67742    | 28.402   | ug/l #      | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 67742    | 99.414   | ug/l #      | 5        |
| -----                         |        |       |          |          |             |          |

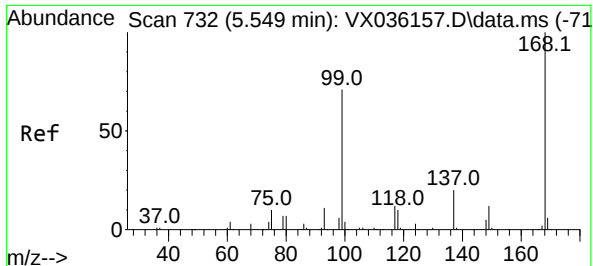
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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PB153531ZHE#10

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Quant Title : SW846 8260  
QLast Update : Fri Jun 16 16:28:40 2023  
Response via : Initial Calibration

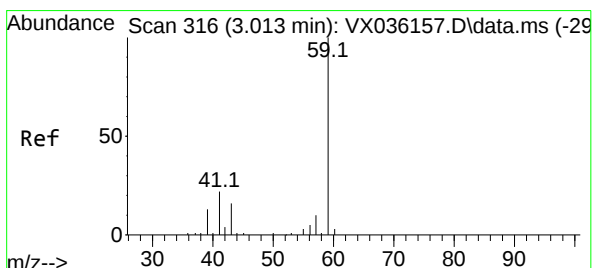
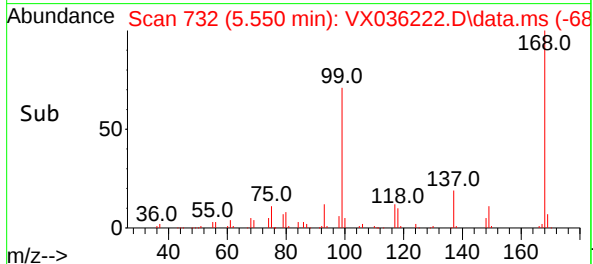
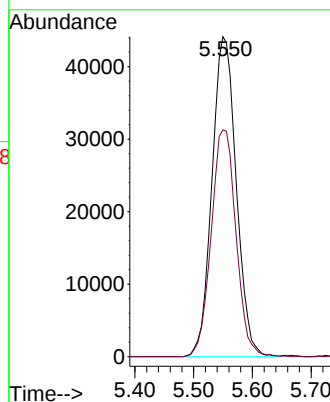
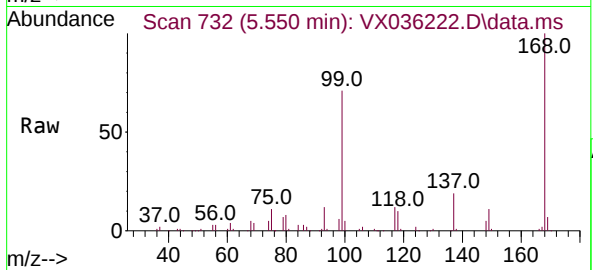




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.001 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

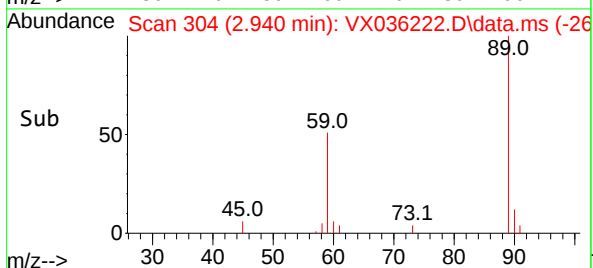
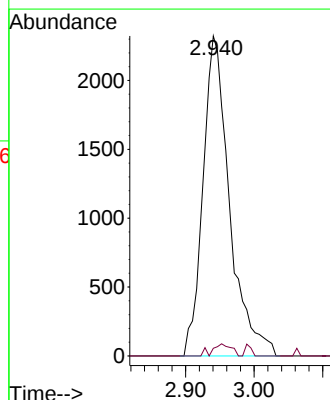
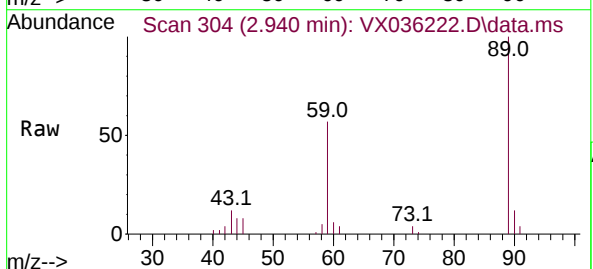
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

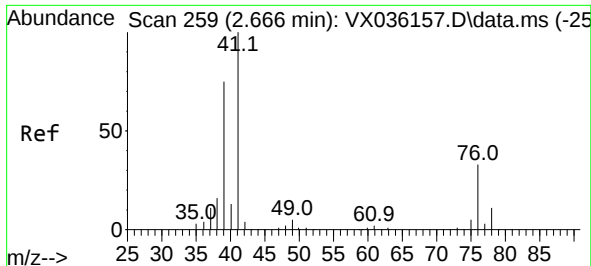
Tgt Ion:168 Resp: 126583  
Ion Ratio Lower Upper  
168 100  
99 70.9 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 17.684 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.073 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 59 Resp: 6254  
Ion Ratio Lower Upper  
59 100  
57 2.7 6.0 9.0#

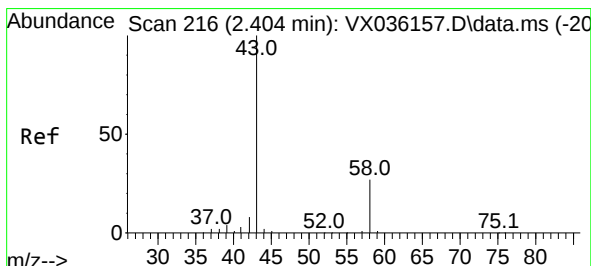
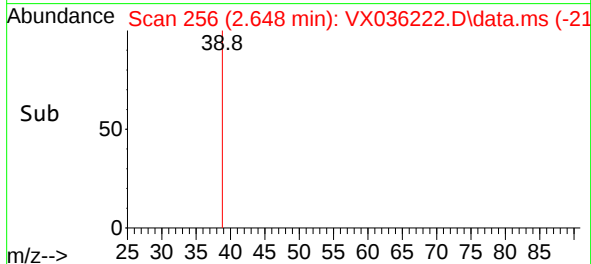
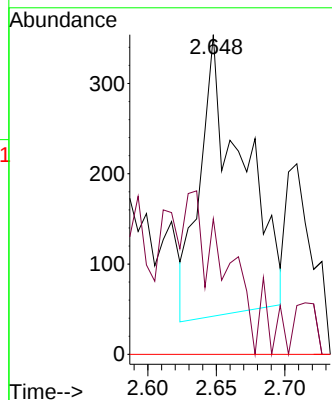
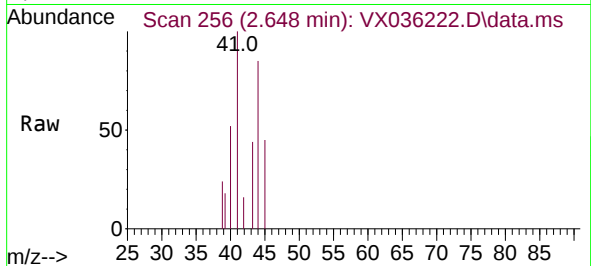




#14  
 Allyl chloride  
 Concen: 0.243 ug/l  
 RT: 2.648 min Scan# 212  
 Delta R.T. -0.018 min  
 Lab File: VX036222.D  
 Acq: 19 Jun 2023 21:33

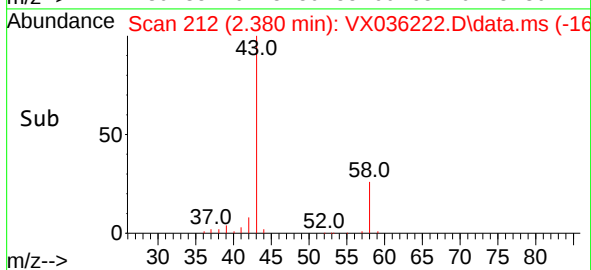
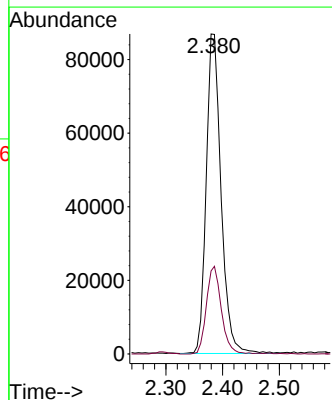
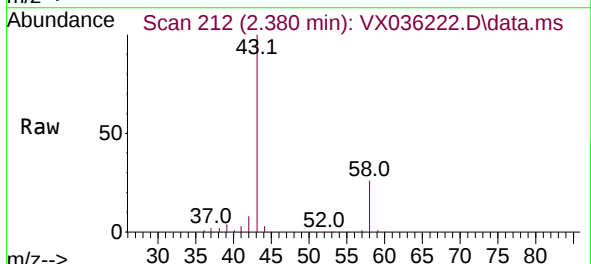
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153531ZHE#10

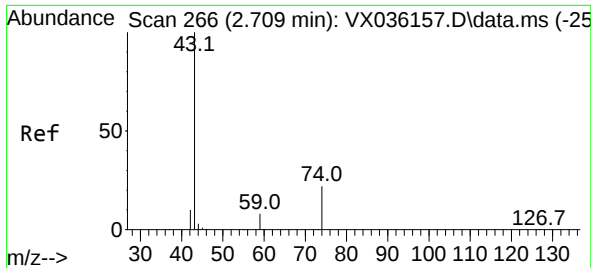
Tgt Ion: 41 Resp: 671  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 55.8 83.6#  
 76 0.0 24.3 36.5#



#16  
 Acetone  
 Concen: 164.696 ug/l  
 RT: 2.380 min Scan# 212  
 Delta R.T. -0.024 min  
 Lab File: VX036222.D  
 Acq: 19 Jun 2023 21:33

Tgt Ion: 43 Resp: 158284  
 Ion Ratio Lower Upper  
 43 100  
 58 26.0 21.9 32.9

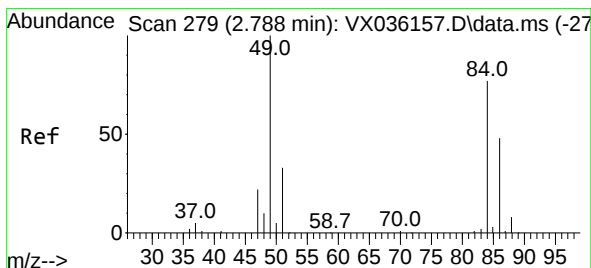
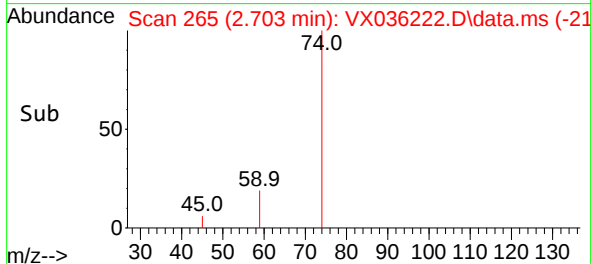
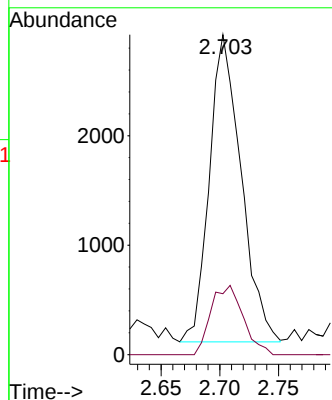
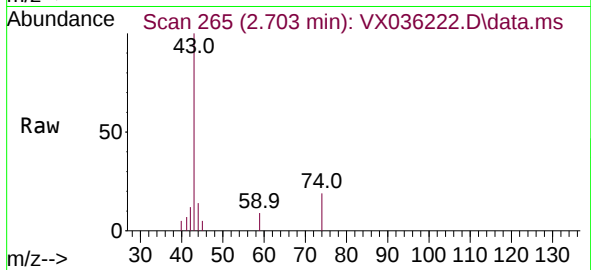




#18  
Methyl Acetate  
Concen: 1.449 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

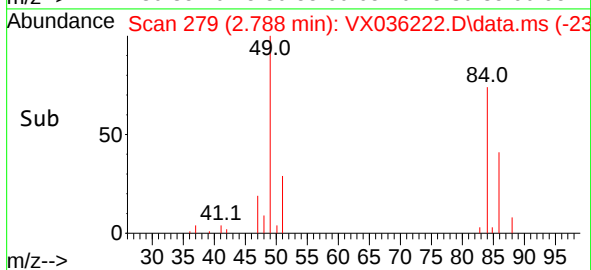
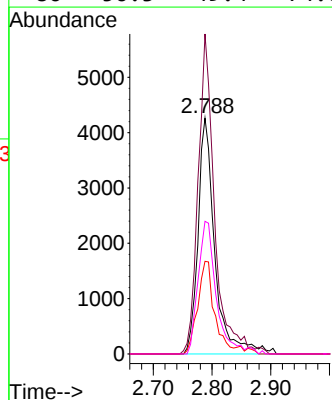
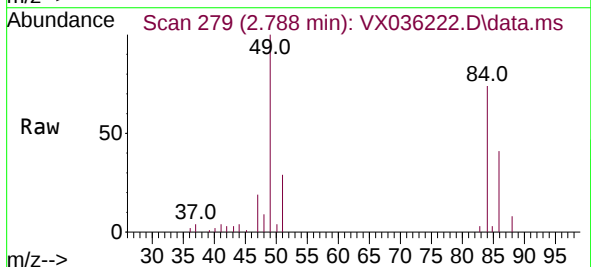
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

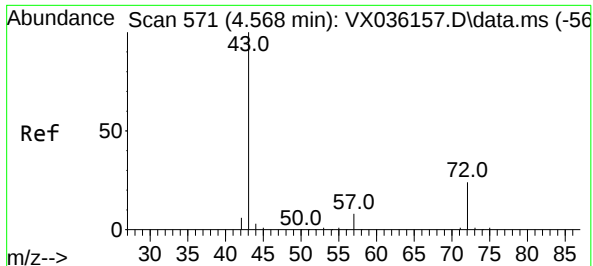
Tgt Ion: 43 Resp: 5282  
Ion Ratio Lower Upper  
43 100  
74 22.8 17.8 26.8



#20  
Methylene Chloride  
Concen: 4.884 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 84 Resp: 8505  
Ion Ratio Lower Upper  
84 100  
49 135.7 103.6 155.4  
51 39.3 33.8 50.6  
86 56.3 49.4 74.0

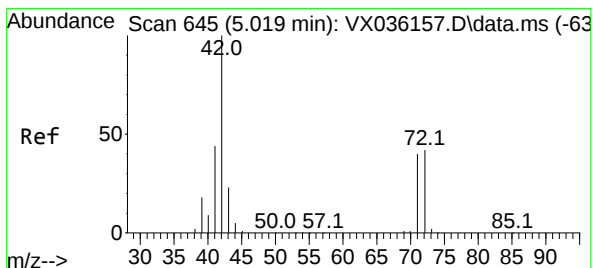
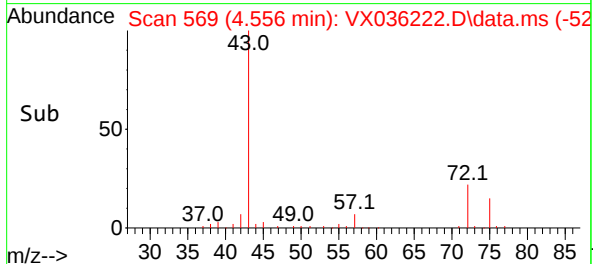
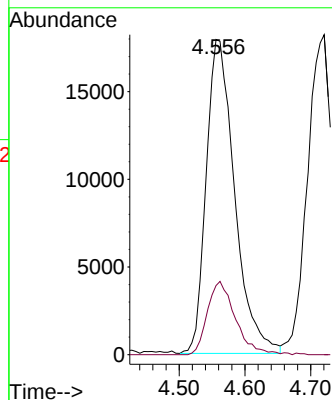
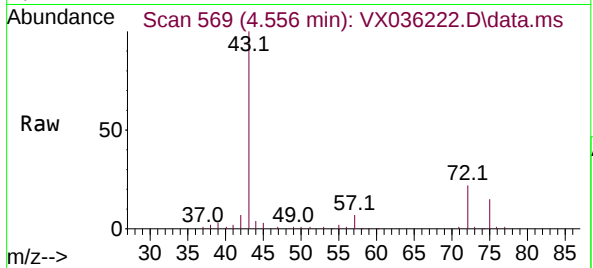




#25  
2-Butanone  
Concen: 40.096 ug/l  
RT: 4.556 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

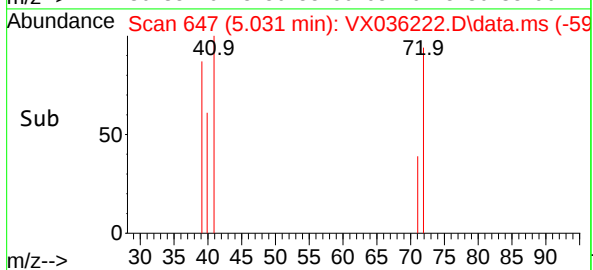
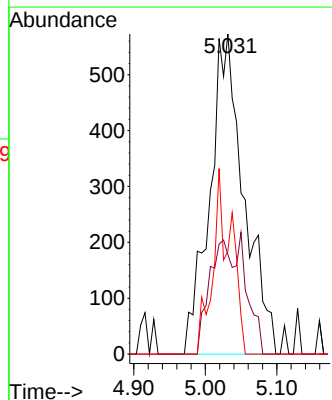
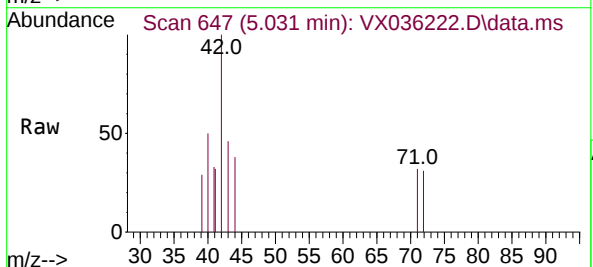
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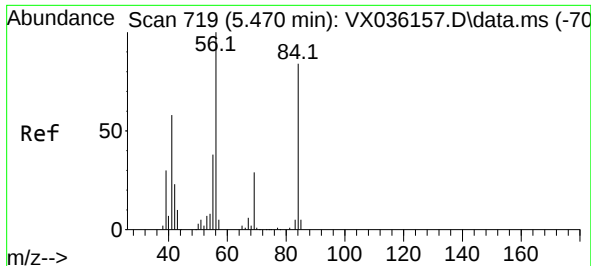
Tgt Ion: 43 Resp: 53949  
Ion Ratio Lower Upper  
43 100  
72 22.0 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 2.241 ug/l  
RT: 5.031 min Scan# 647  
Delta R.T. 0.012 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 42 Resp: 1915  
Ion Ratio Lower Upper  
42 100  
72 23.0 34.2 51.4#  
71 21.4 32.2 48.2#

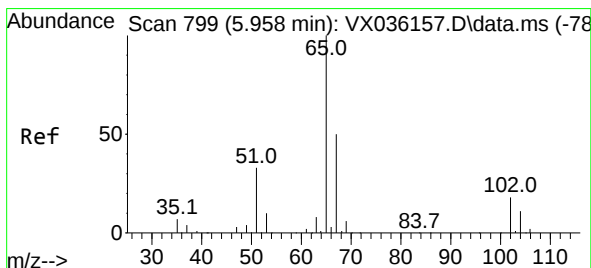
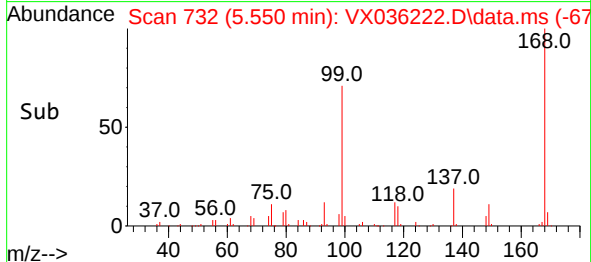
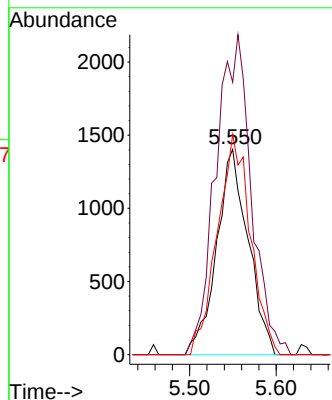
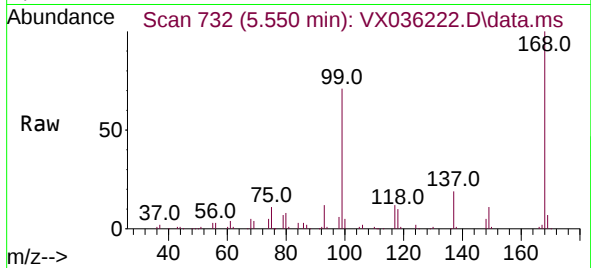




#31  
Cyclohexane  
Concen: 1.431 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.080 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

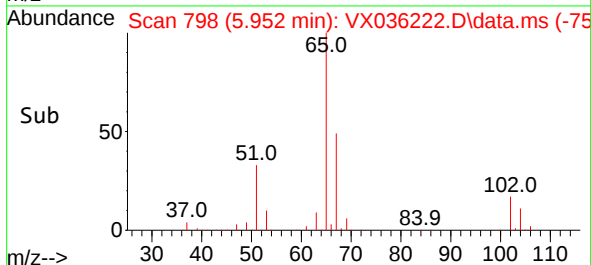
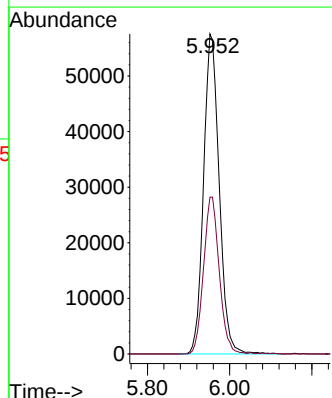
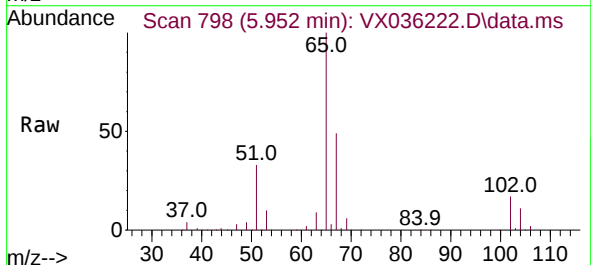
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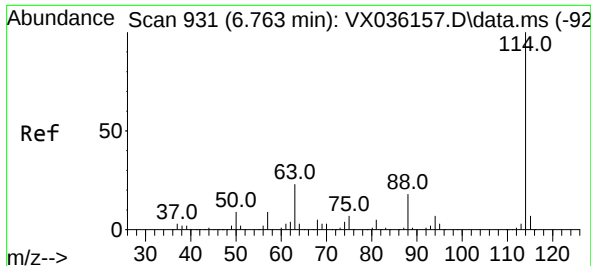
Tgt Ion: 56 Resp: 3551  
Ion Ratio Lower Upper  
56 100  
69 132.7 23.4 35.2#  
84 107.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 65.615 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 65 Resp: 151782  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 100.2

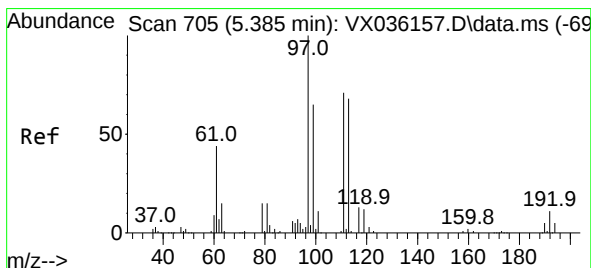
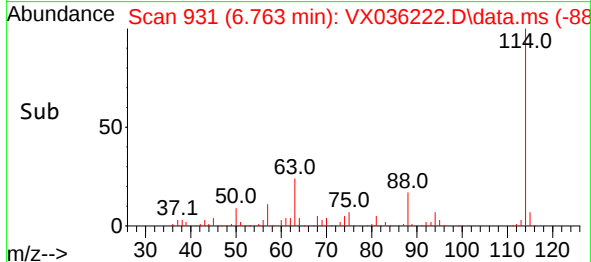
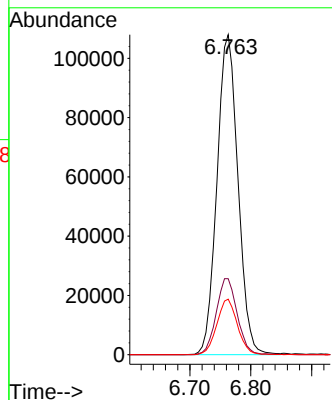
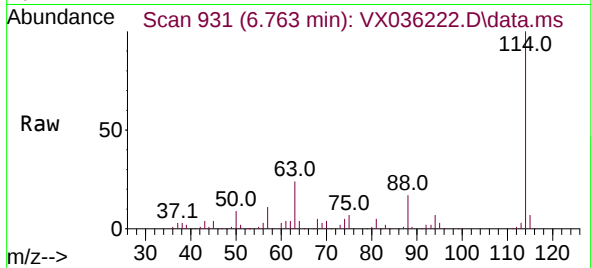




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

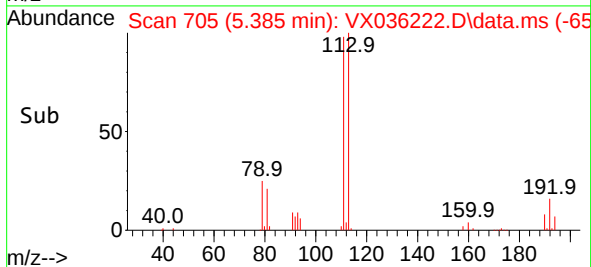
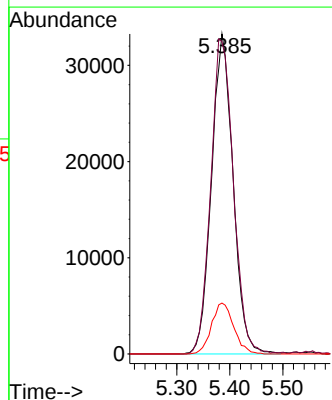
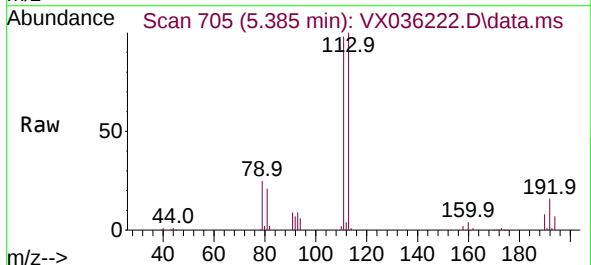
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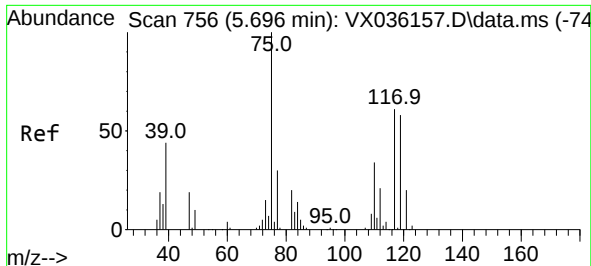
Tgt Ion:114 Resp: 258810  
Ion Ratio Lower Upper  
114 100  
63 23.7 0.0 45.0  
88 17.3 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 53.612 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion:113 Resp: 94091  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.9 124.3  
192 16.4 13.3 19.9





#36

1,1-Dichloropropene

Concen: 5.030 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX036222.D

Acq: 19 Jun 2023 21:33

Instrument :

MSVOA\_X

ClientSampleId :

PB153531ZHE#10

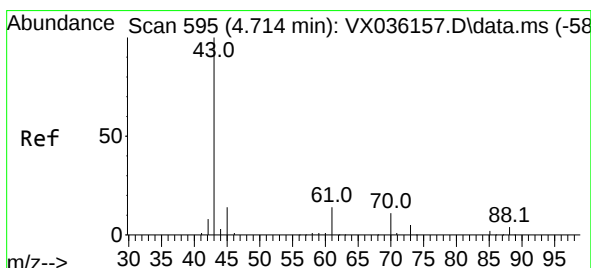
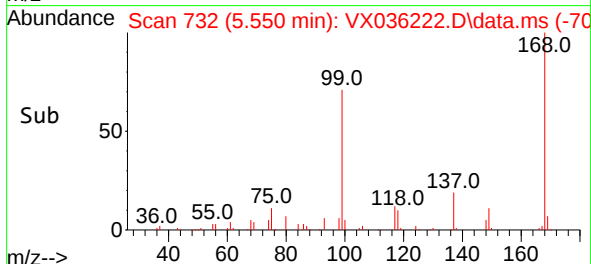
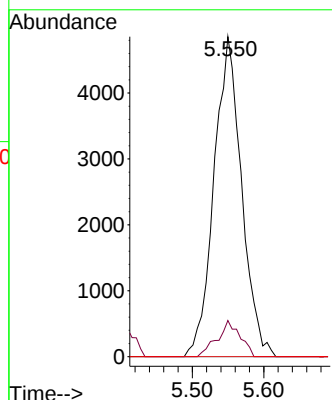
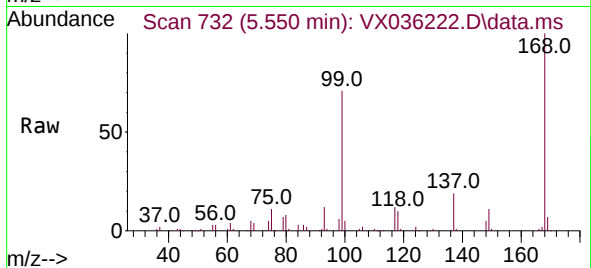
Tgt Ion: 75 Resp: 13005

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 17.524 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.007 min

Lab File: VX036222.D

Acq: 19 Jun 2023 21:33

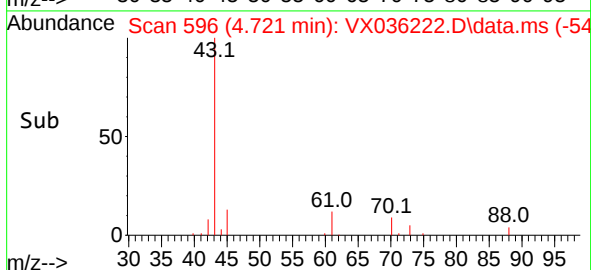
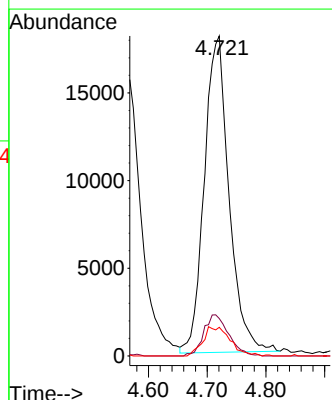
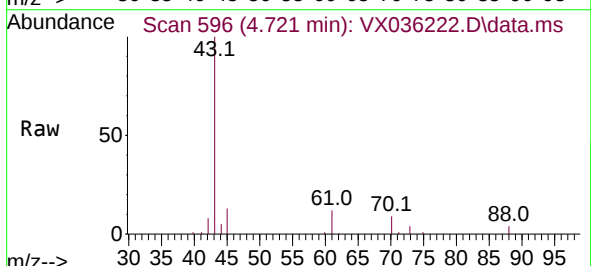
Tgt Ion: 43 Resp: 52783

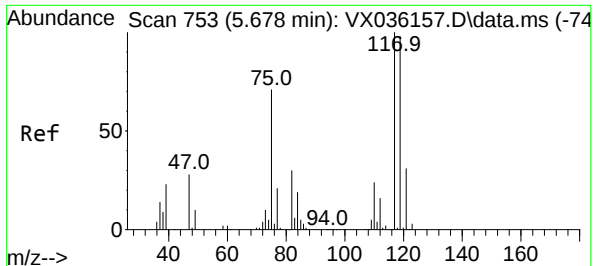
Ion Ratio Lower Upper

43 100

61 13.1 10.6 16.0

70 10.1 8.3 12.5

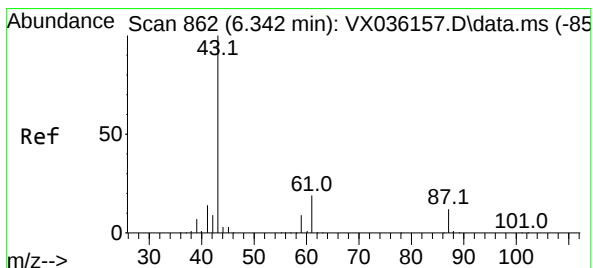
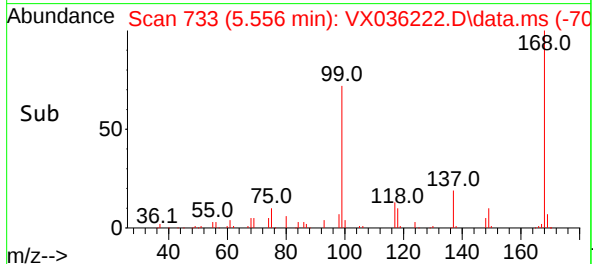
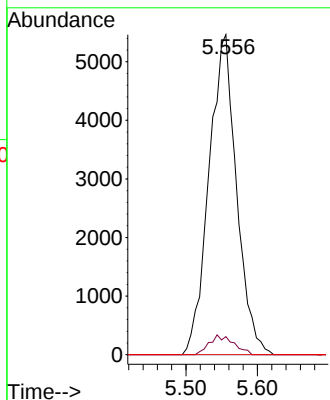
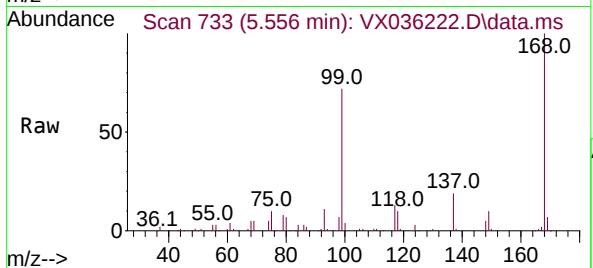




#38  
Carbon Tetrachloride  
Concen: 5.827 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

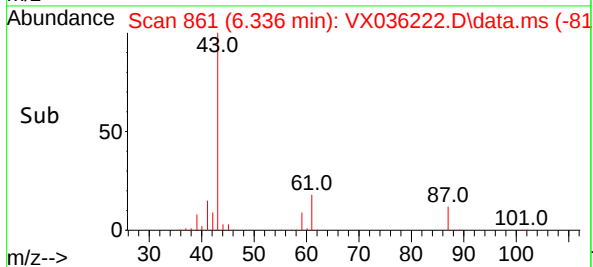
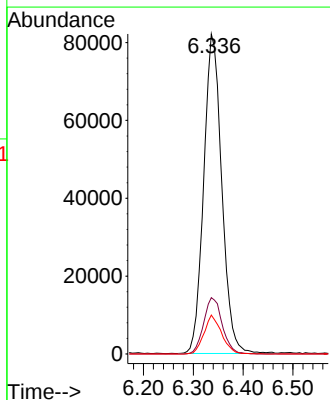
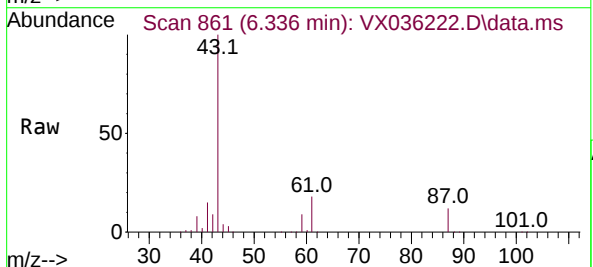
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

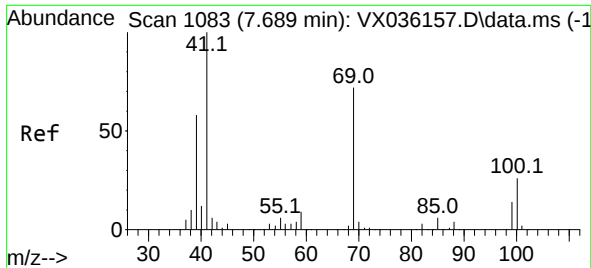
Tgt Ion:117 Resp: 14644  
Ion Ratio Lower Upper  
117 100  
119 5.7 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 44.819 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.006 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 43 Resp: 206594  
Ion Ratio Lower Upper  
43 100  
61 18.1 15.2 22.8  
87 11.8 9.8 14.6

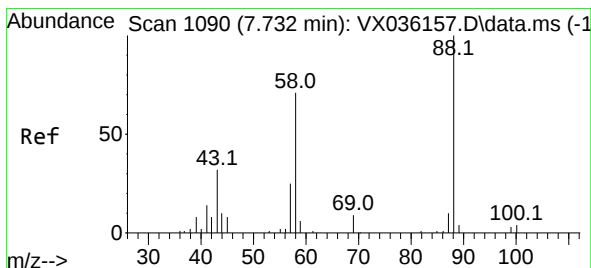
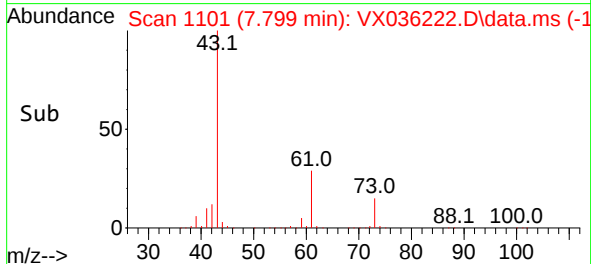
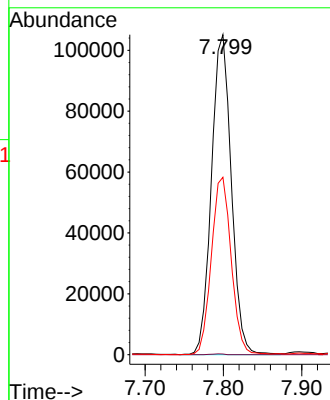
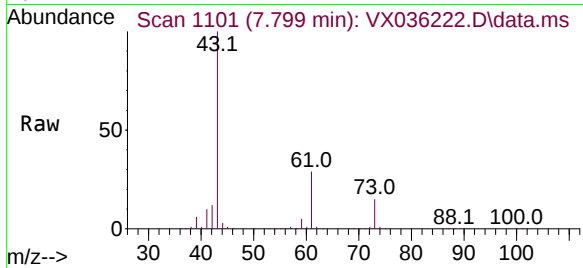




#48  
Methyl methacrylate  
Concen: 78.308 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

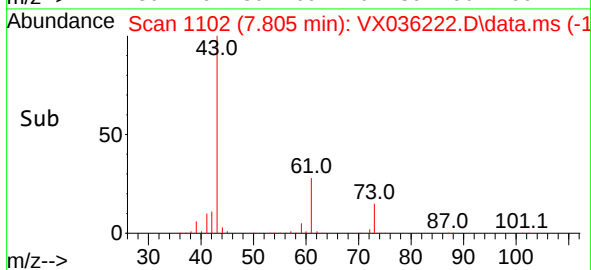
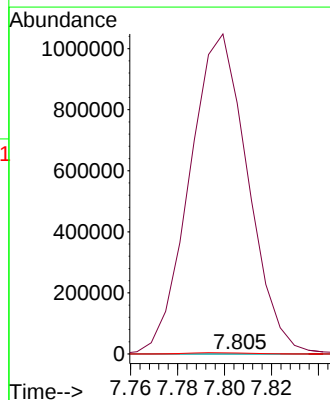
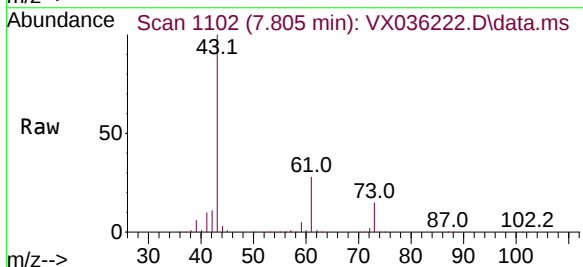
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

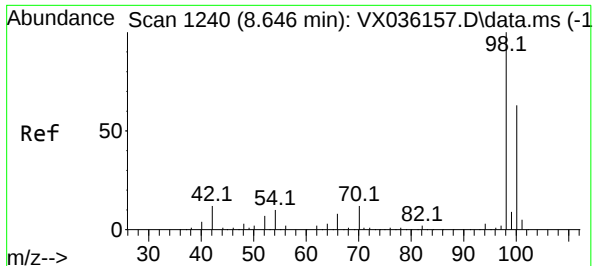
Tgt Ion: 41 Resp: 185194  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 55.4 47.7 71.5



#49  
1,4-Dioxane  
Concen: 5.733 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.073 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 88 Resp: 227  
Ion Ratio Lower Upper  
88 100  
43 802209.7 0.0 0.0#  
58 3315.9 60.1 90.1#

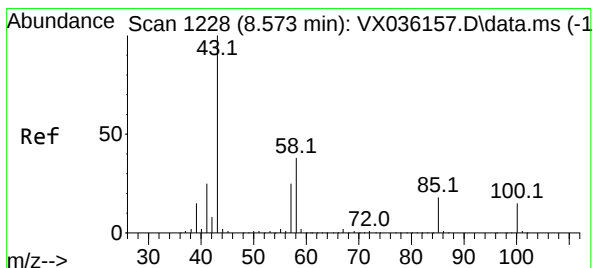
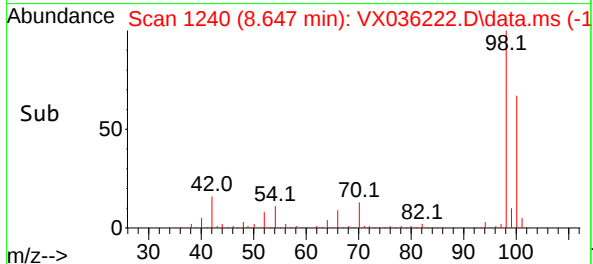
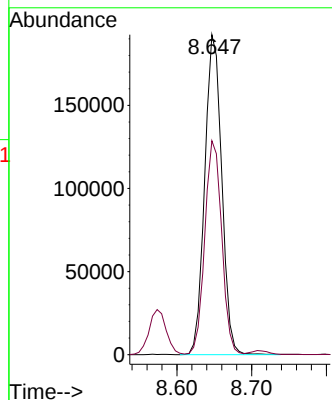
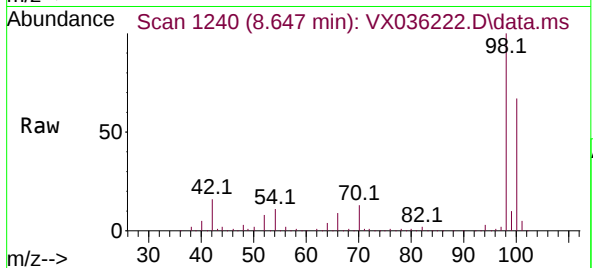




#50  
Toluene-d8  
Concen: 47.386 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

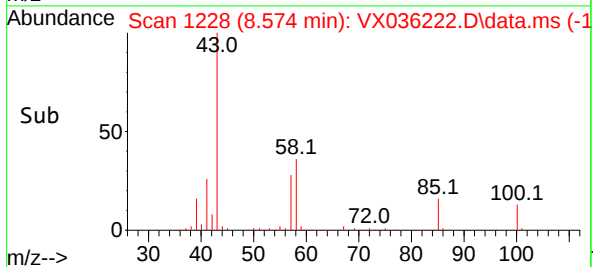
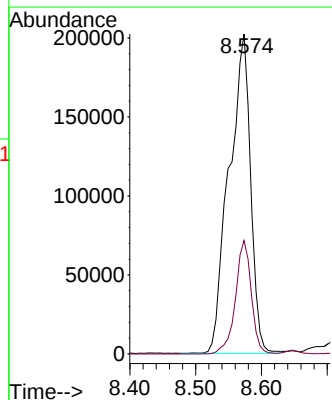
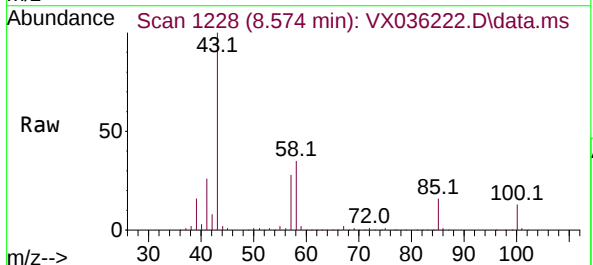
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

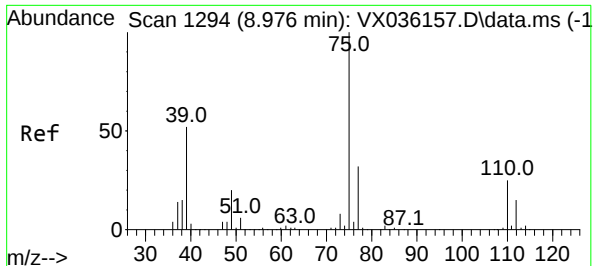
Tgt Ion: 98 Resp: 304207  
Ion Ratio Lower Upper  
98 100  
100 66.0 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 158.076 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.001 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 43 Resp: 460093  
Ion Ratio Lower Upper  
43 100  
58 26.2 30.4 45.6#

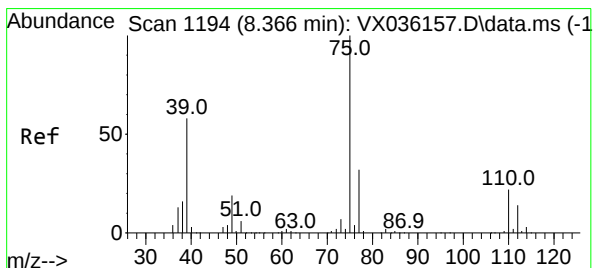
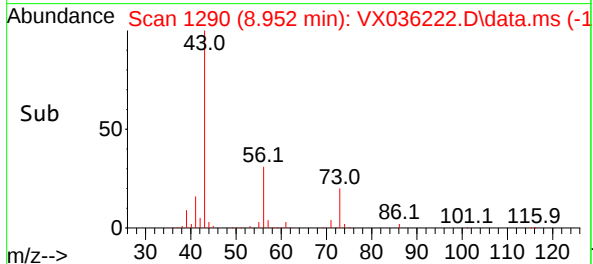
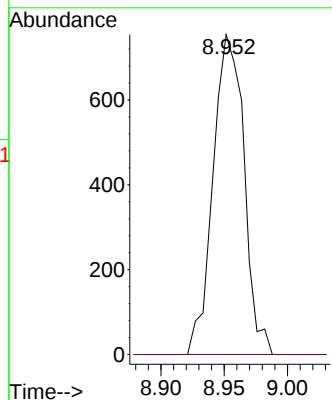
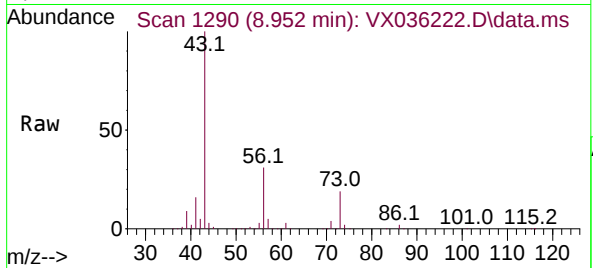




#53  
 t-1,3-Dichloropropene  
 Concen: 0.472 ug/l  
 RT: 8.952 min Scan# 1124  
 Delta R.T. -0.024 min  
 Lab File: VX036222.D  
 Acq: 19 Jun 2023 21:33

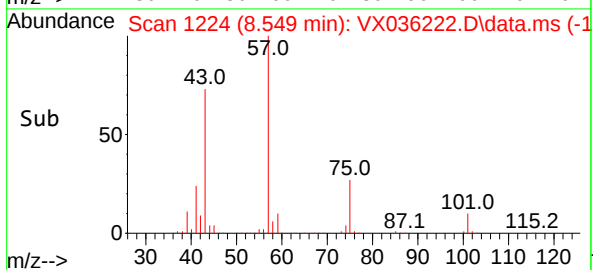
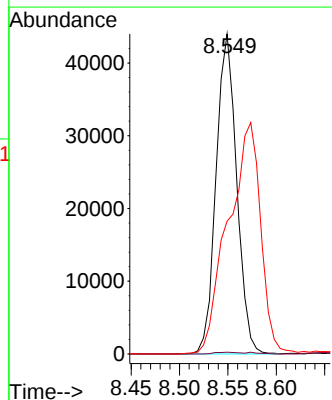
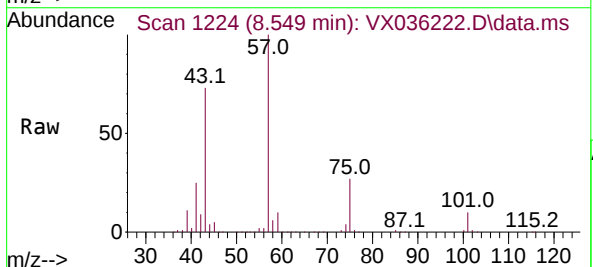
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153531ZHE#10

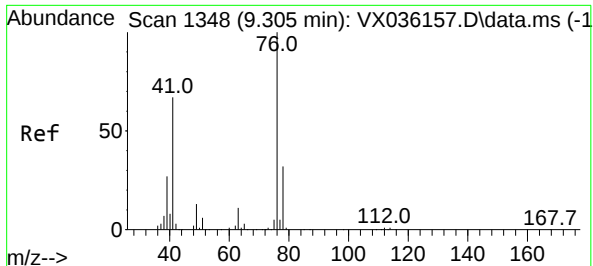
Tgt Ion: 75 Resp: 1284  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 22.303 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX036222.D  
 Acq: 19 Jun 2023 21:33

Tgt Ion: 75 Resp: 65120  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 25.3 37.9#  
 39 41.5 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 2.576 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX036222.D

Acq: 19 Jun 2023 21:33

Instrument :

MSVOA\_X

ClientSampleId :

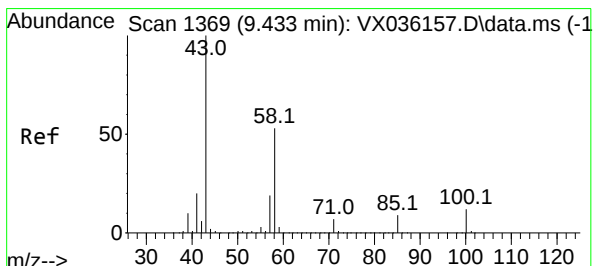
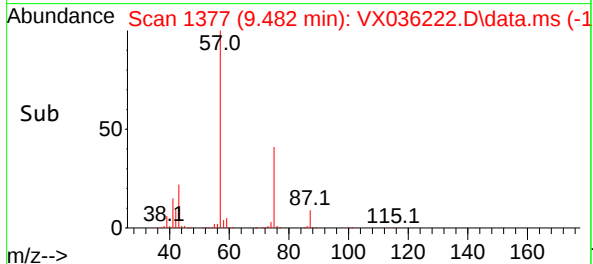
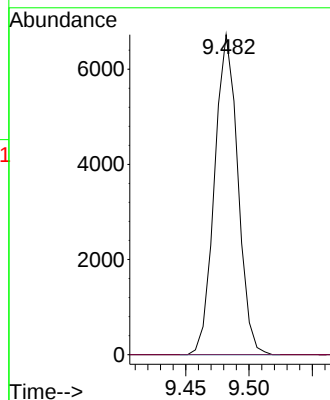
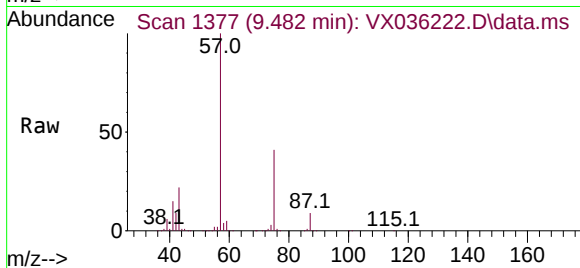
PB153531ZHE#10

Tgt Ion: 76 Resp: 8611

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 59.606 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX036222.D

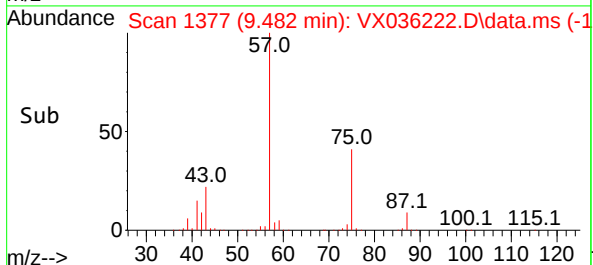
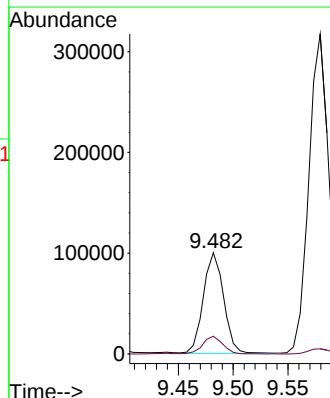
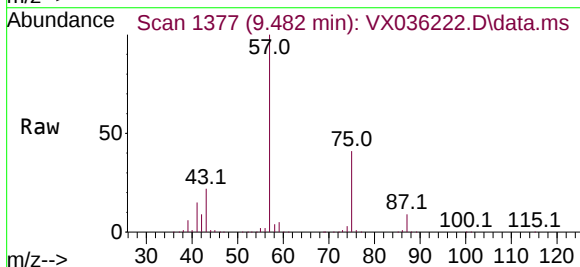
Acq: 19 Jun 2023 21:33

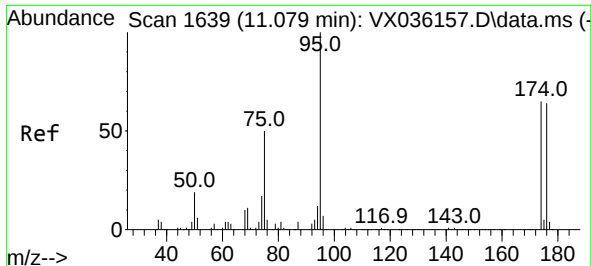
Tgt Ion: 43 Resp: 128979

Ion Ratio Lower Upper

43 100

58 17.5 26.2 78.5#

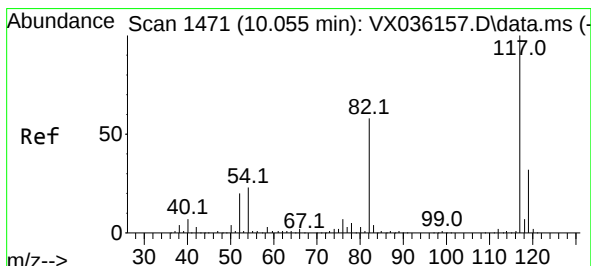
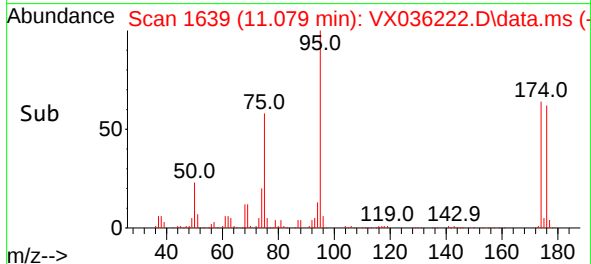
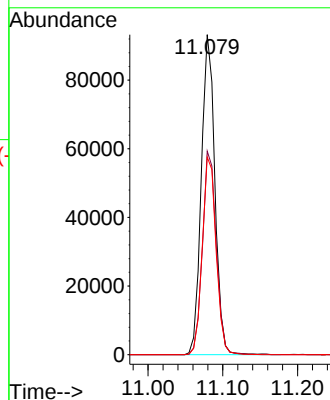
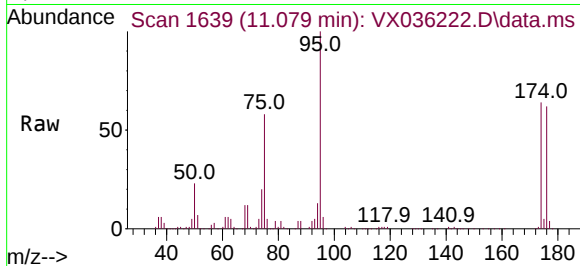




#62  
4-Bromofluorobenzene  
Concen: 45.336 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

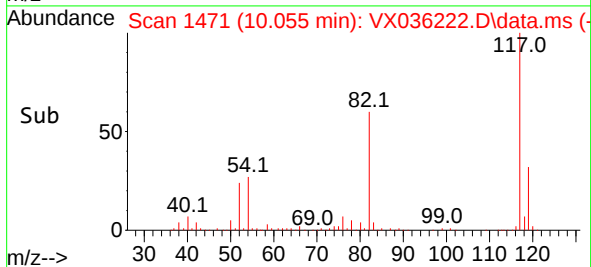
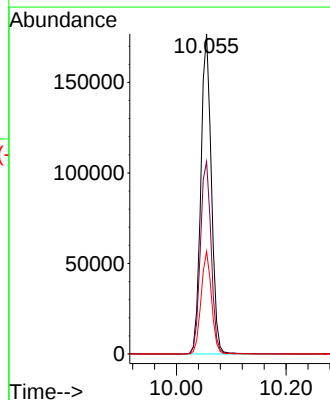
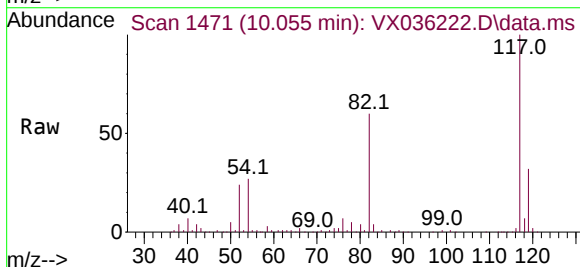
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

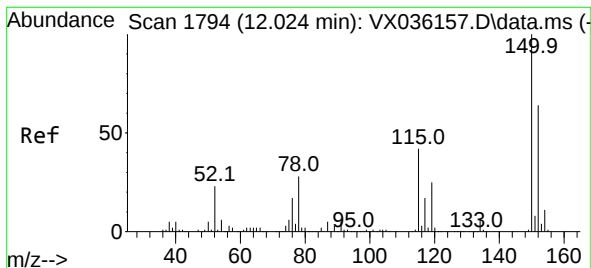
Tgt Ion: 95 Resp: 117483  
Ion Ratio Lower Upper  
95 100  
174 64.6 0.0 135.6  
176 62.9 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 117 Resp: 235231  
Ion Ratio Lower Upper  
117 100  
82 60.1 46.2 69.4  
119 32.1 25.5 38.3

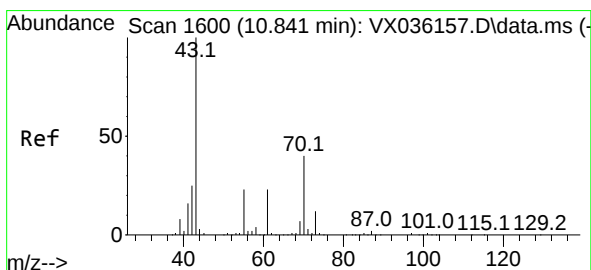
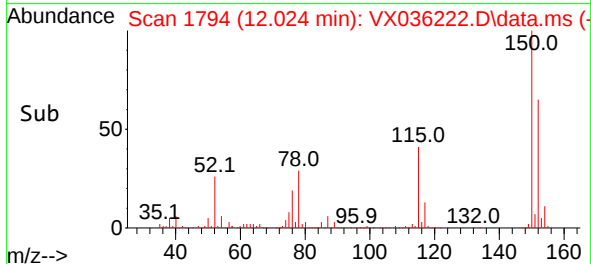
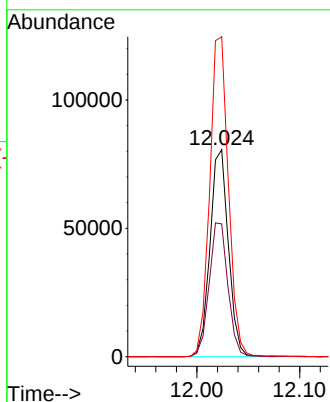
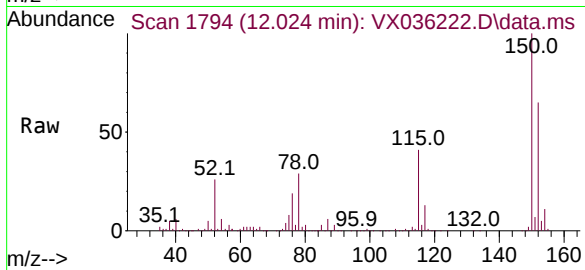




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

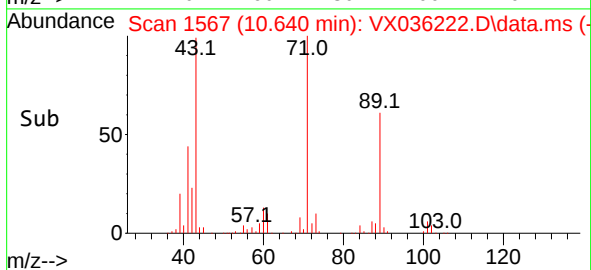
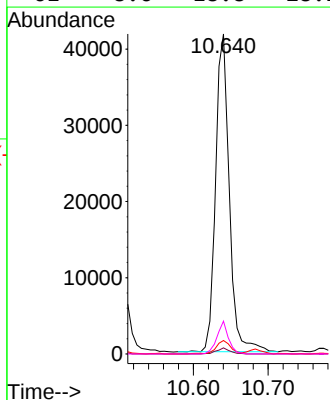
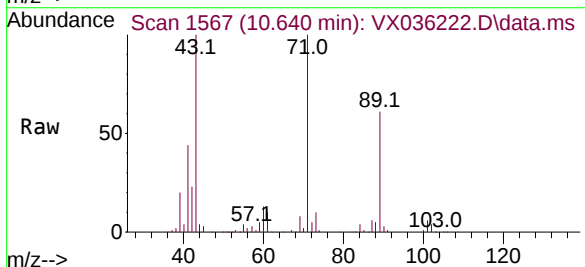
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

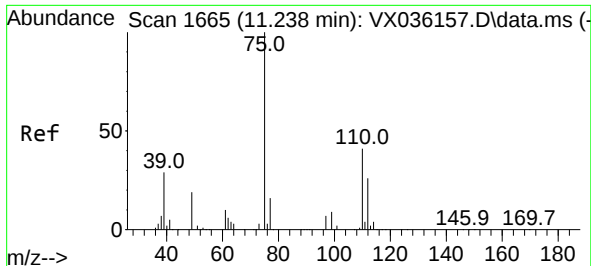
Tgt Ion:152 Resp: 100498  
Ion Ratio Lower Upper  
152 100  
115 66.0 43.3 129.9  
150 157.1 0.0 345.0



#74  
N-ethyl acetate  
Concen: 15.743 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.201 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 43 Resp: 53051  
Ion Ratio Lower Upper  
43 100  
70 1.8 32.9 49.3#  
55 4.6 19.3 28.9#  
61 8.6 18.8 28.2#

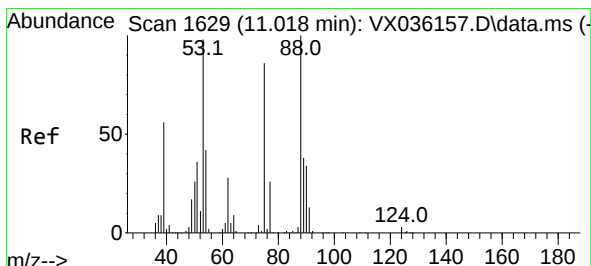
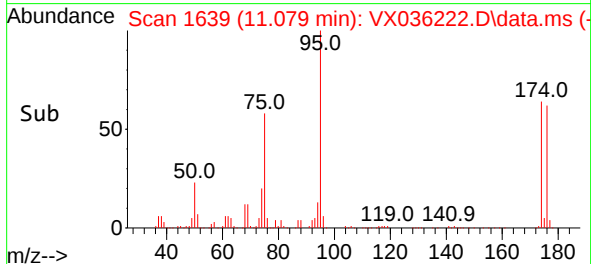
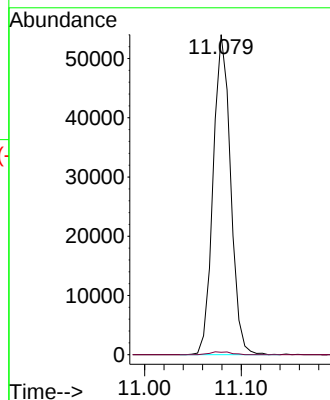
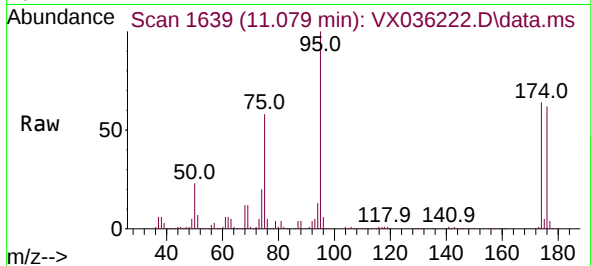




#76  
1,2,3-Trichloropropane  
Concen: 28.402 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153531ZHE#10

Tgt Ion: 75 Resp: 67742  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.414 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036222.D  
Acq: 19 Jun 2023 21:33

Tgt Ion: 75 Resp: 67742  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 36.9 55.3#

