

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120722\  
 Data File : VN075634.D  
 Acq On : 08 Dec 2022 02:20  
 Operator : JC\MD  
 Sample : PB149441ZHE06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB149441ZHE06

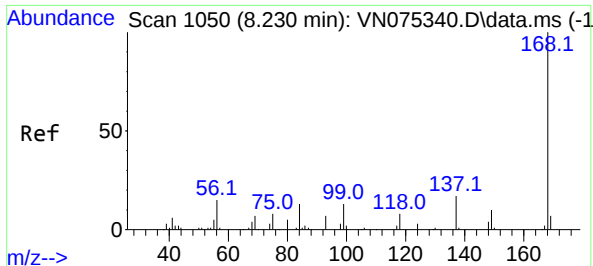
Quant Time: Dec 08 06:45:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.230     | 168   | 188052   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106     | 114   | 324433   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871    | 117   | 294932   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794    | 152   | 133484   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583     | 65    | 53598    | 53.097   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery | = 106.200% |          |
| 35) Dibromofluoromethane      | 8.171     | 113   | 67222    | 52.745   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery | = 105.480% |          |
| 50) Toluene-d8                | 10.571    | 98    | 148784   | 51.832   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery | = 103.660% |          |
| 62) 4-Bromofluorobenzene      | 12.853    | 95    | 107858   | 50.907   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery | = 101.820% |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 5.524     | 59    | 4800     | 11.327   | ug/l #     | 72       |
| 16) Acetone                   | 4.453     | 43    | 15743    | 16.720   | ug/l       | 97       |
| 18) Methyl Acetate            | 5.042     | 43    | 6367     | 1.424    | ug/l       | 94       |
| 20) Methylene Chloride        | 5.289     | 84    | 7336     | 2.631    | ug/l #     | 86       |
| 25) 2-Butanone                | 7.500     | 43    | 1366     | 1.039    | ug/l #     | 81       |
| 29) Tetrahydrofuran           | 7.853     | 42    | 505      | 0.632    | ug/l #     | 26       |
| 31) Cyclohexane               | 8.224     | 56    | 3313     | 1.033    | ug/l #     | 25       |
| 36) 1,1-Dichloropropene       | 8.230     | 75    | 13499    | 4.857    | ug/l #     | 44       |
| 37) Ethyl Acetate             | 7.571     | 43    | 25723    | 10.279   | ug/l       | 98       |
| 38) Carbon Tetrachloride      | 8.230     | 117   | 18174    | 5.953    | ug/l #     | 16       |
| 42) 1,2-Dichloroethane        | 8.694     | 62    | 1129     | 0.396    | ug/l #     | 75       |
| 43) Isopropyl Acetate         | 8.694     | 43    | 266113   | 66.247   | ug/l #     | 74       |
| 45) 1,2-Dichloropropane       | 9.741     | 63    | 1481     | 0.730    | ug/l #     | 42       |
| 48) Methyl methacrylate       | 9.671     | 41    | 3016     | 1.624    | ug/l #     | 35       |
| 51) 4-Methyl-2-Pentanone      | 10.359    | 43    | 92718    | 36.239   | ug/l #     | 44       |
| 53) t-1,3-Dichloropropene     | 10.735    | 75    | 832      | 0.279    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 10.359    | 75    | 53373    | 16.480   | ug/l #     | 61       |
| 56) Ethyl methacrylate        | 10.982    | 69    | 1385     | 0.459    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.206    | 76    | 6724     | 1.846    | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.177    | 43    | 109844   | 57.175   | ug/l #     | 21       |
| 71) Bromoform                 | 12.847    | 173   | 594      | 0.343    | ug/l #     | 28       |
| 74) N-amyl acetate            | 12.494    | 43    | 1679     | 0.560    | ug/l #     | 38       |
| 76) 1,2,3-Trichloropropane    | 12.853    | 75    | 54749    | 21.693   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853    | 75    | 54749    | 64.184   | ug/l #     | 10       |
| -----                         |           |       |          |          |            |          |

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

Quant Time: Dec 08 06:45:09 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 23 00:18:03 2022  
Response via : Initial Calibration

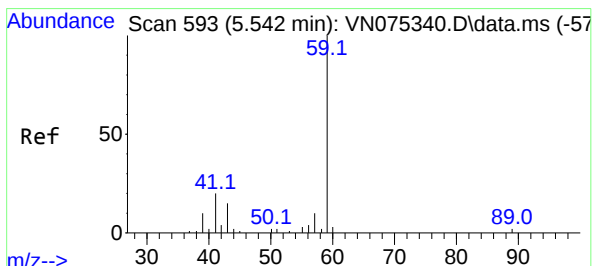
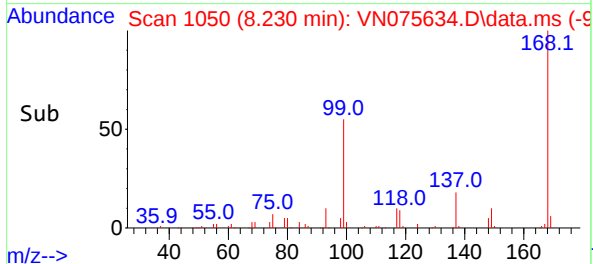
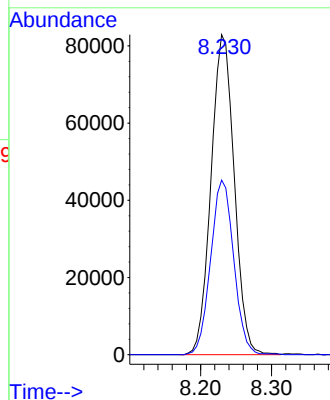
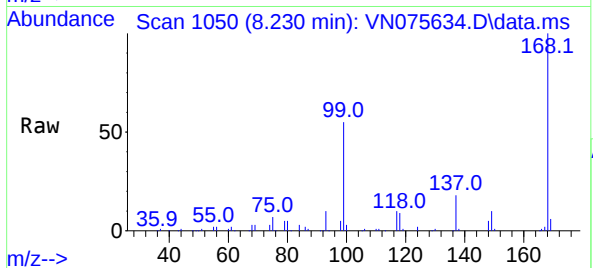




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.000 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

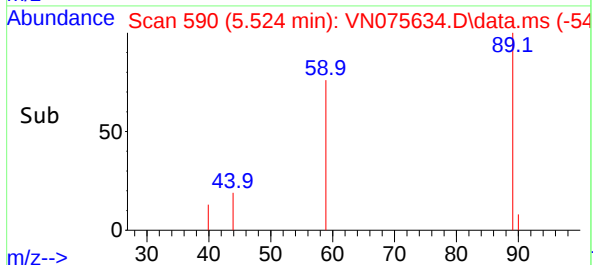
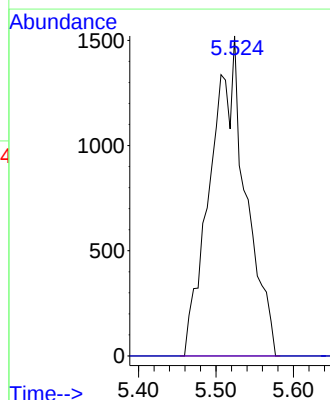
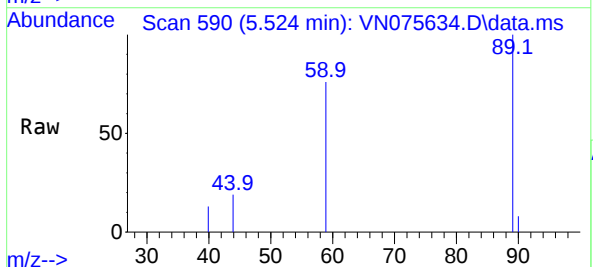
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

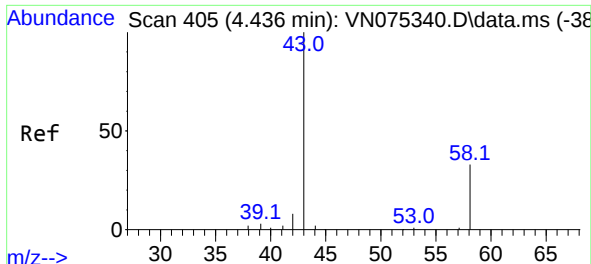
Tgt Ion:168 Resp: 188052  
Ion Ratio Lower Upper  
168 100  
99 54.6 51.6 77.4



#11  
Tert butyl alcohol  
Concen: 11.327 ug/l  
RT: 5.524 min Scan# 590  
Delta R.T. -0.018 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 59 Resp: 4800  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

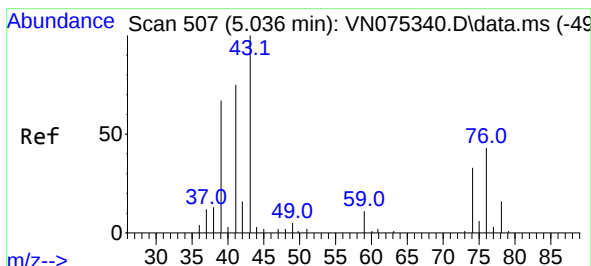
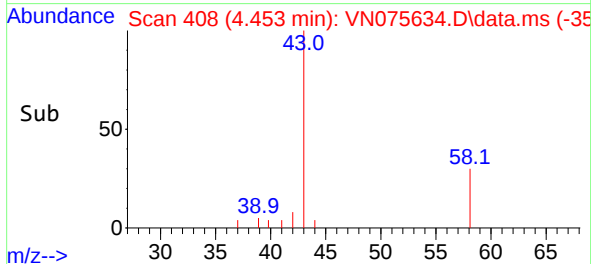
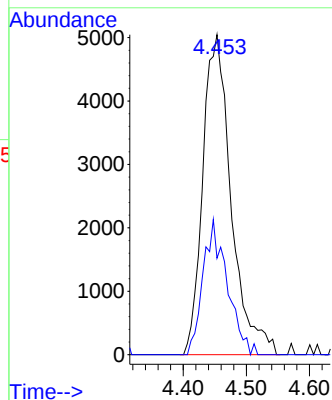
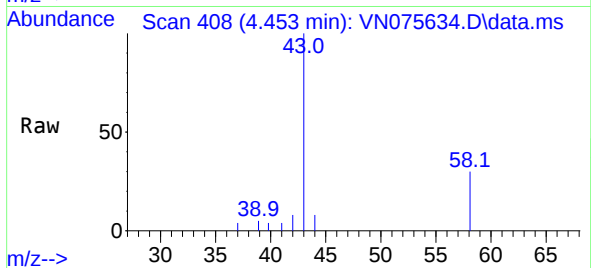




#16  
Acetone  
Concen: 16.720 ug/l  
RT: 4.453 min Scan# 405  
Delta R.T. 0.017 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

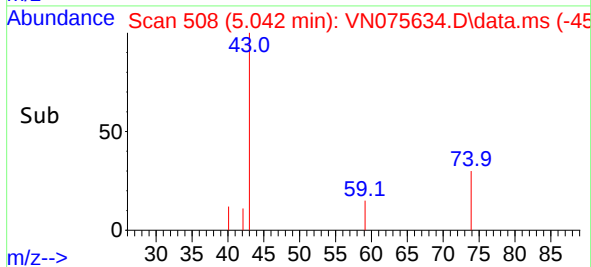
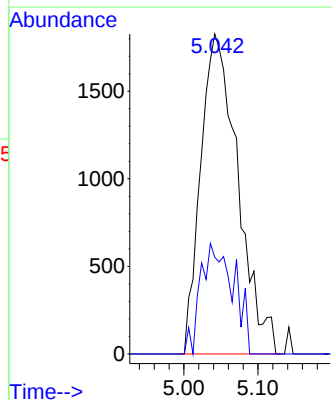
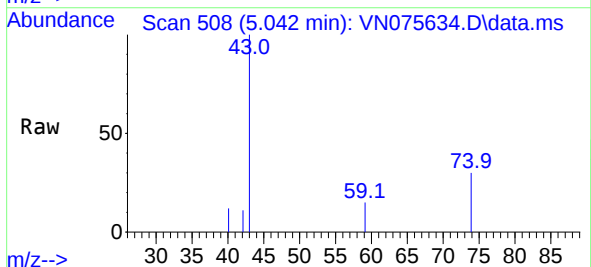
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MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

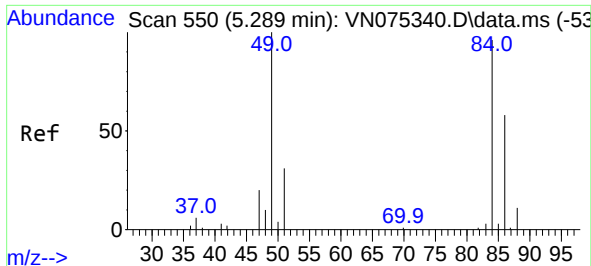
Tgt Ion: 43 Resp: 15743  
Ion Ratio Lower Upper  
43 100  
58 30.1 25.5 38.3



#18  
Methyl Acetate  
Concen: 1.424 ug/l  
RT: 5.042 min Scan# 508  
Delta R.T. 0.006 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 43 Resp: 6367  
Ion Ratio Lower Upper  
43 100  
74 30.5 22.0 33.0

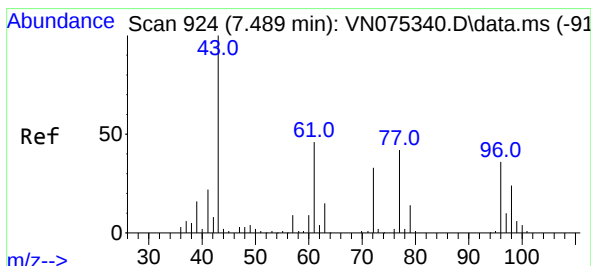
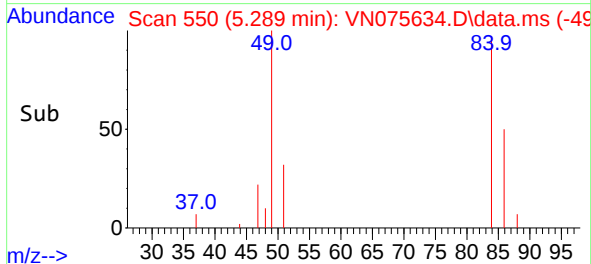
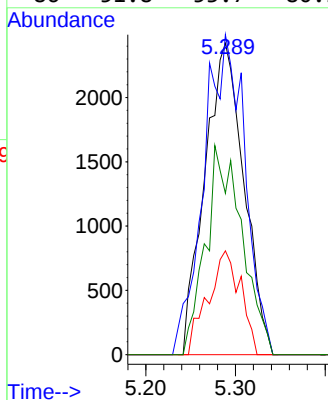
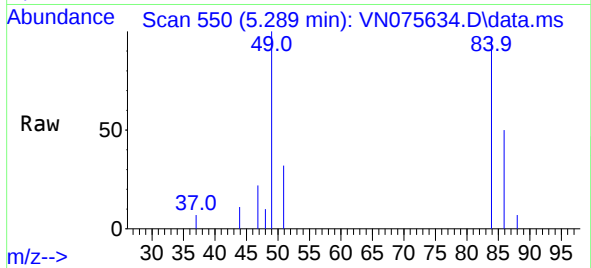




#20  
Methylene Chloride  
Concen: 2.631 ug/l  
RT: 5.289 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

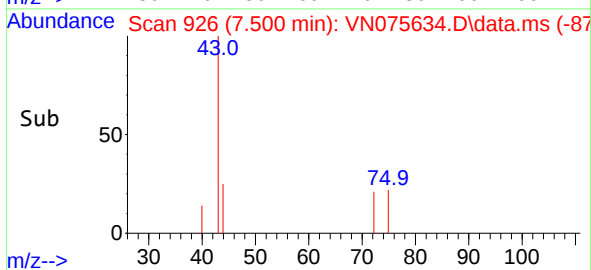
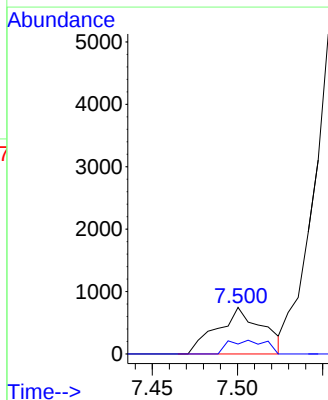
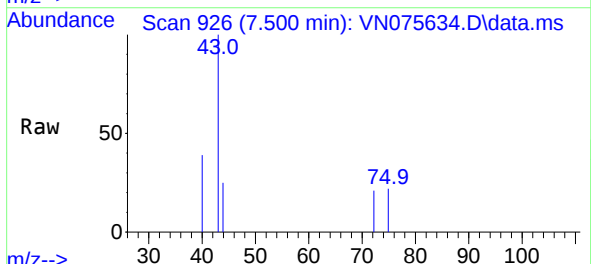
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

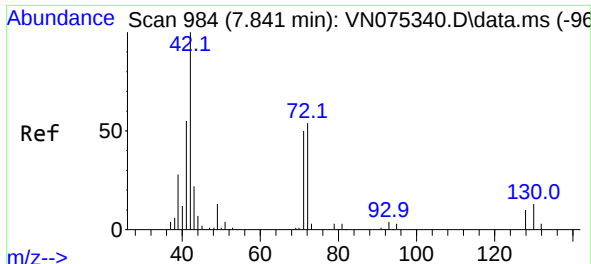
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7336  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.7 | 94.9  | 142.3 |
| 51       | 33.3  | 26.8  | 40.2  |
| 86       | 51.8  | 53.7  | 80.5# |



#25  
2-Butanone  
Concen: 1.039 ug/l  
RT: 7.500 min Scan# 926  
Delta R.T. 0.011 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1366  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.2  | 25.5  | 38.3# |

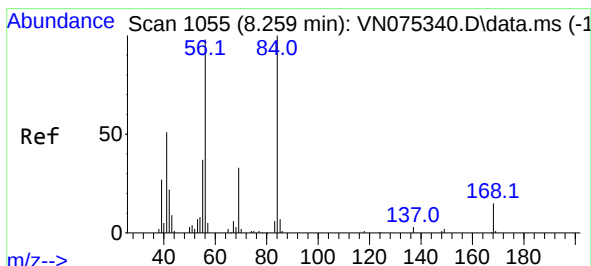
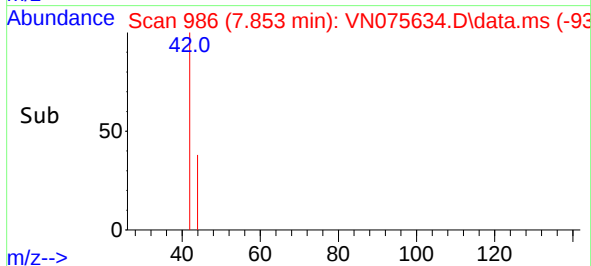
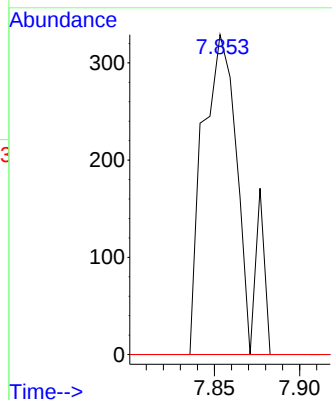
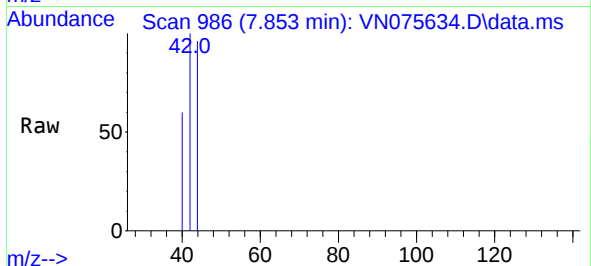




#29  
Tetrahydrofuran  
Concen: 0.632 ug/l  
RT: 7.853 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

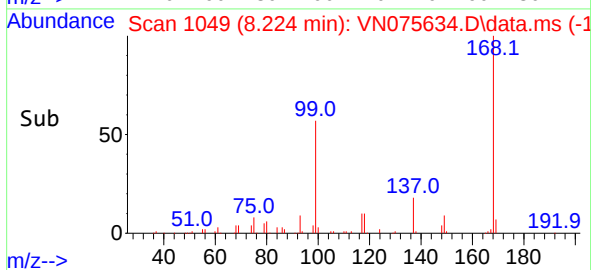
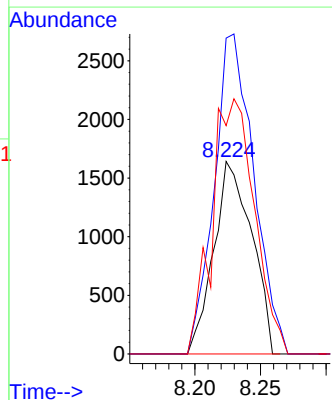
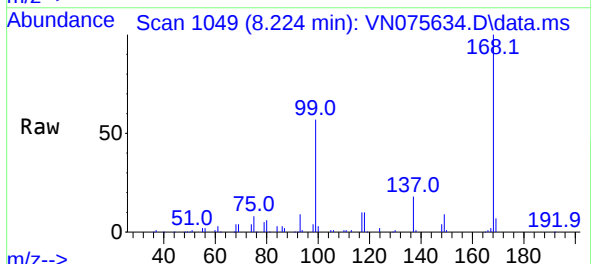
Instrument :  
MSVOA\_N  
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PB149441ZHE06

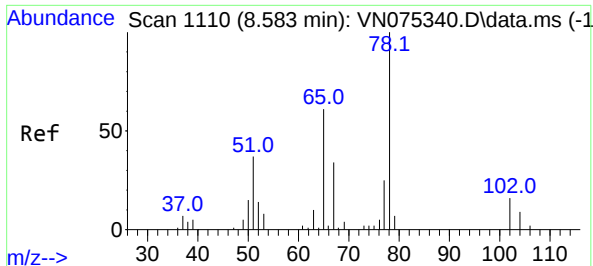
Tgt Ion: 42 Resp: 505  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.0 64.6#  
71 0.0 39.9 59.9#



#31  
Cyclohexane  
Concen: 1.033 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.035 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 56 Resp: 3313  
Ion Ratio Lower Upper  
56 100  
69 164.0 25.2 37.8#  
84 118.6 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 53.097 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN075634.D

Acq: 08 Dec 2022 02:20

Instrument :

MSVOA\_N

ClientSampleId :

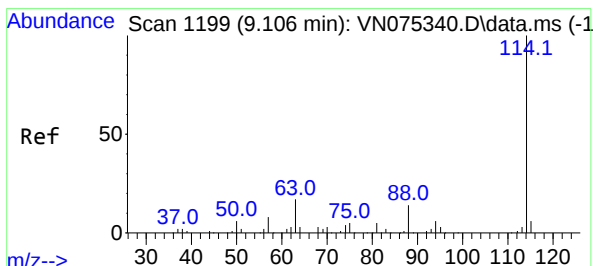
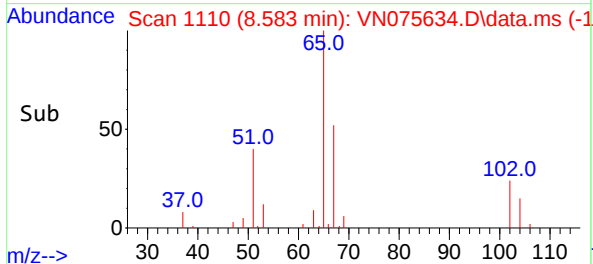
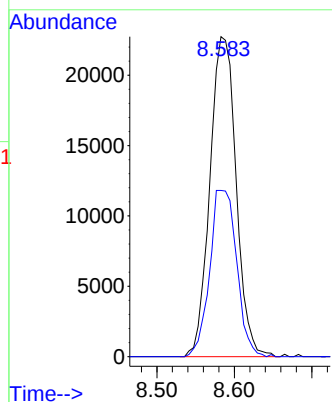
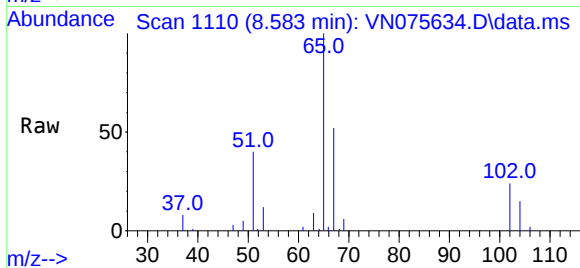
PB149441ZHE06

Tgt Ion: 65 Resp: 53598

Ion Ratio Lower Upper

65 100

67 53.5 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075634.D

Acq: 08 Dec 2022 02:20

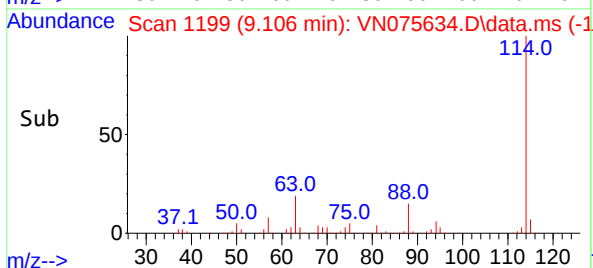
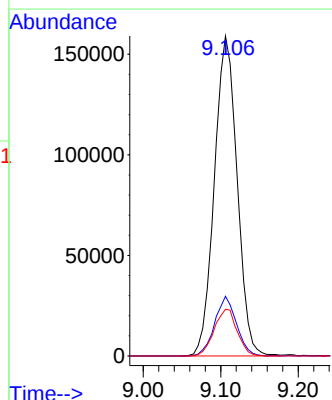
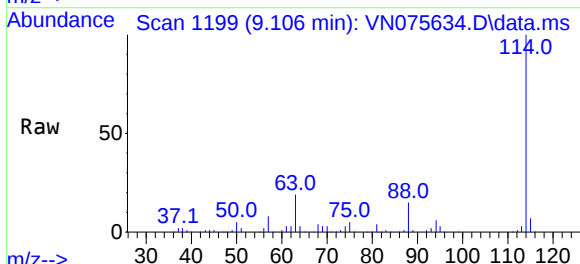
Tgt Ion:114 Resp: 324433

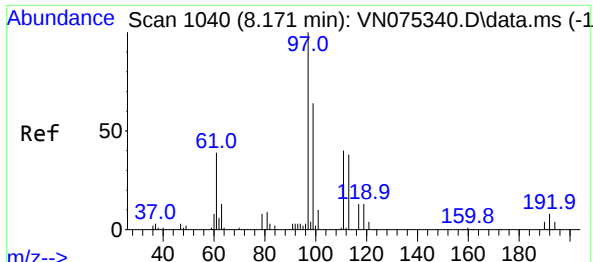
Ion Ratio Lower Upper

114 100

63 18.7 0.0 39.6

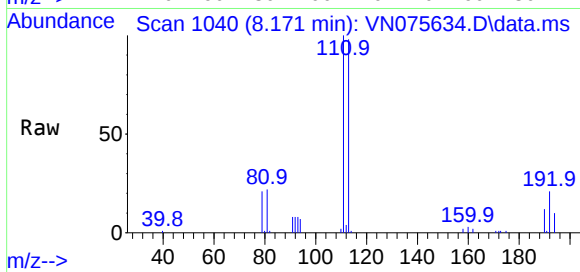
88 14.6 0.0 29.0



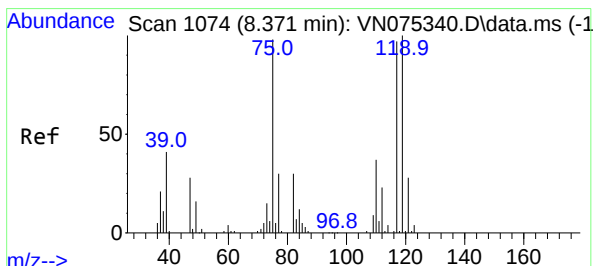
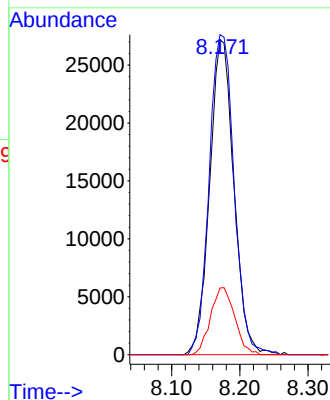
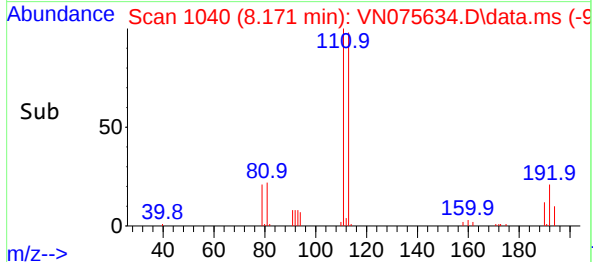


#35  
Dibromofluoromethane  
Concen: 52.745 ug/l  
RT: 8.171 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

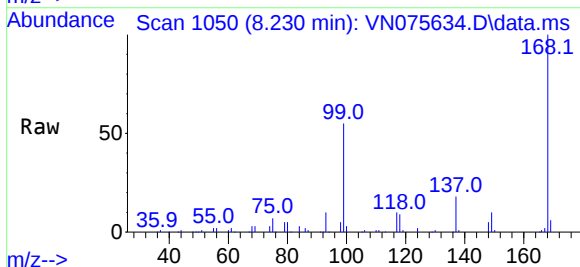
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06



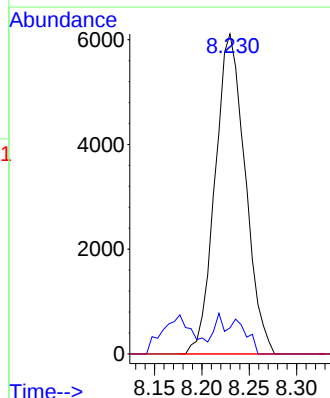
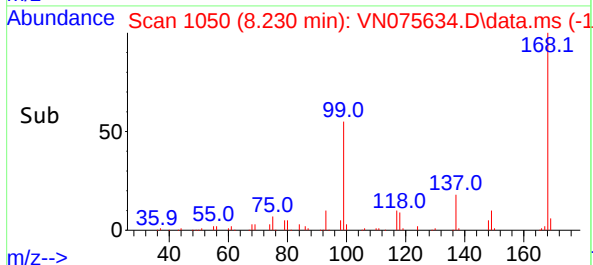
Tgt Ion:113 Resp: 67222  
Ion Ratio Lower Upper  
113 100  
111 104.4 80.5 120.7  
192 21.2 13.2 19.8#

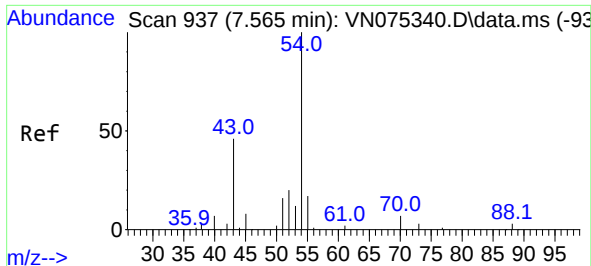


#36  
1,1-Dichloropropene  
Concen: 4.857 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.141 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20



Tgt Ion: 75 Resp: 13499  
Ion Ratio Lower Upper  
75 100  
110 3.1 17.8 53.3#  
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 10.279 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN075634.D

Acq: 08 Dec 2022 02:20

Instrument :

MSVOA\_N

ClientSampleId :

PB149441ZHE06

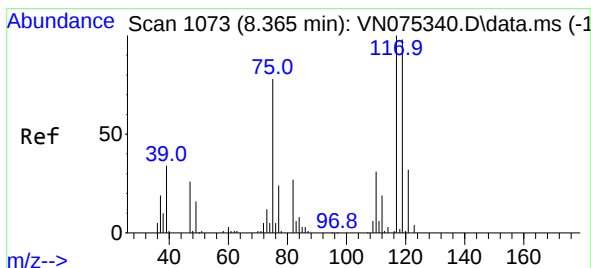
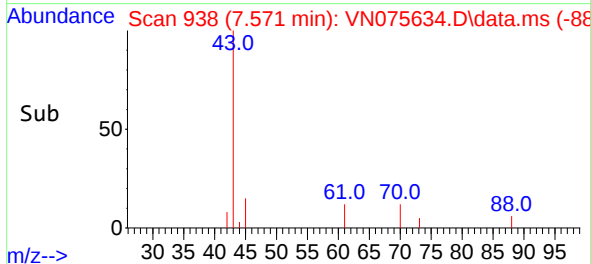
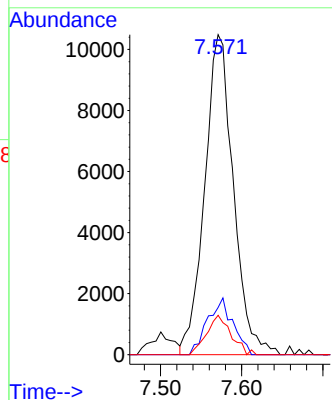
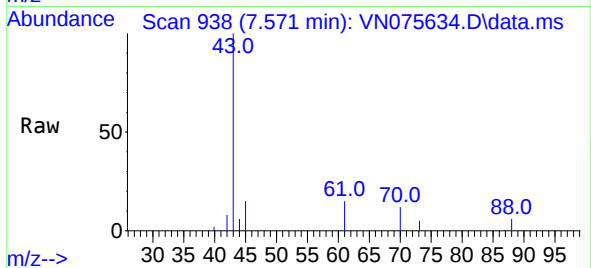
Tgt Ion: 43 Resp: 25723

Ion Ratio Lower Upper

43 100

61 15.7 12.2 18.4

70 10.5 9.4 14.2



#38

Carbon Tetrachloride

Concen: 5.953 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN075634.D

Acq: 08 Dec 2022 02:20

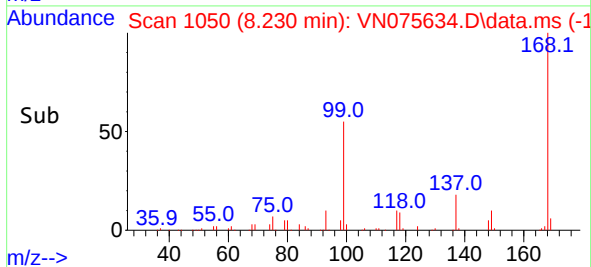
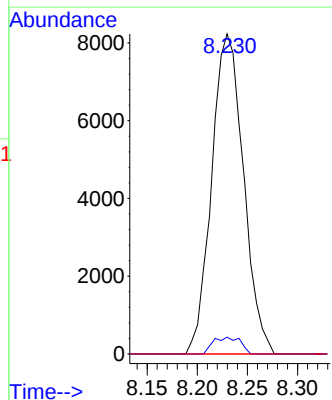
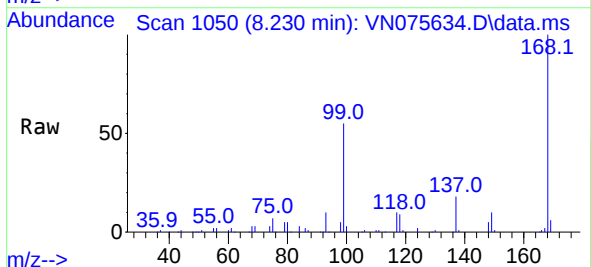
Tgt Ion: 117 Resp: 18174

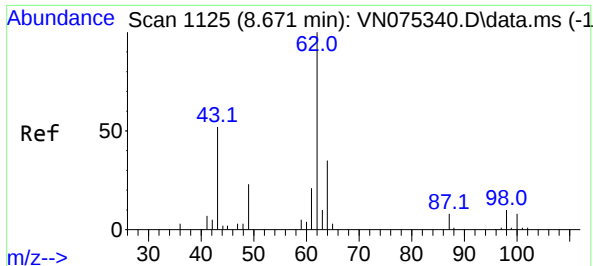
Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

121 0.0 23.9 35.9#

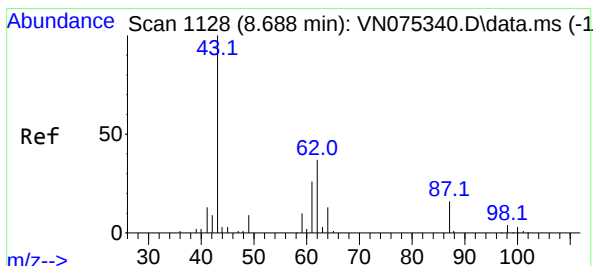
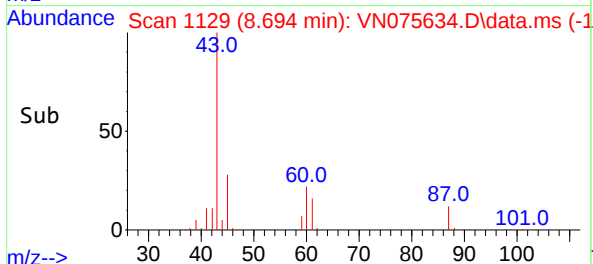
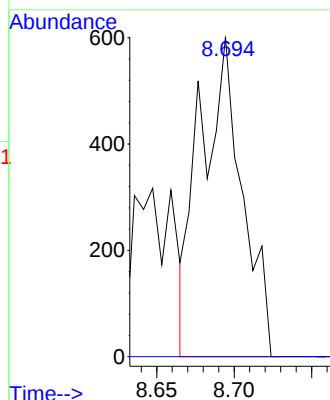
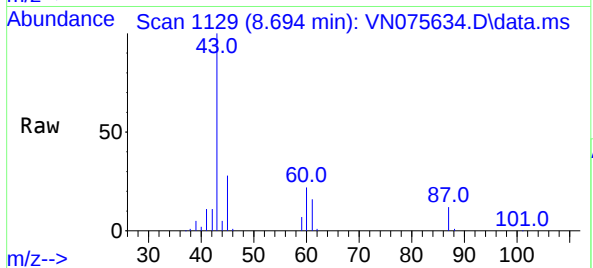




#42  
1,2-Dichloroethane  
Concen: 0.396 ug/l  
RT: 8.694 min Scan# 1129  
Delta R.T. 0.023 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

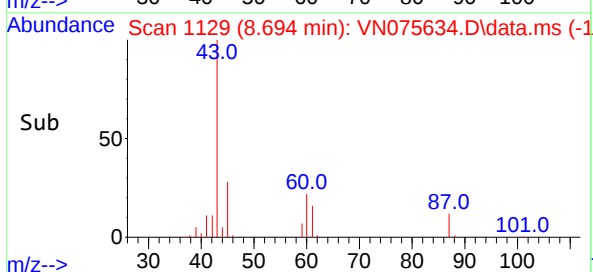
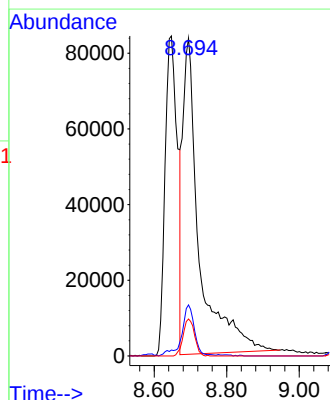
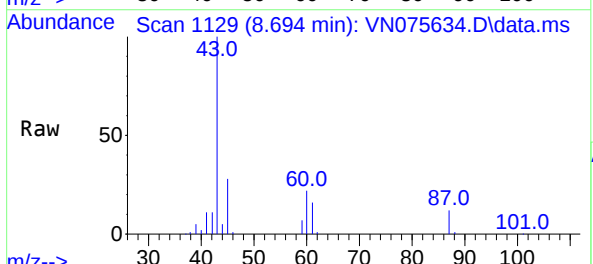
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

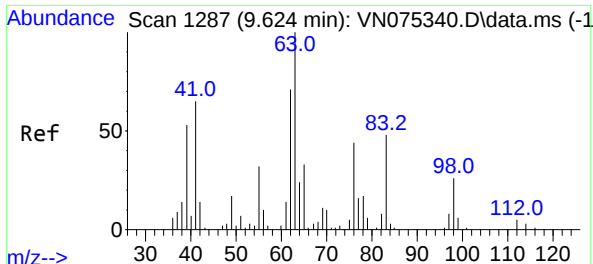
Tgt Ion: 62 Resp: 1129  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 18.2



#43  
Isopropyl Acetate  
Concen: 66.247 ug/l  
RT: 8.694 min Scan# 1129  
Delta R.T. 0.006 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 43 Resp: 266113  
Ion Ratio Lower Upper  
43 100  
61 12.4 22.4 33.6#  
87 8.0 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.730 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN075634.D

Acq: 08 Dec 2022 02:20

Instrument :

MSVOA\_N

ClientSampleId :

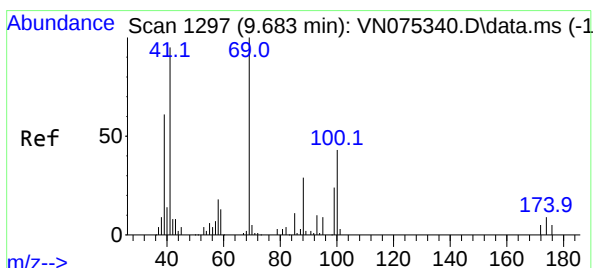
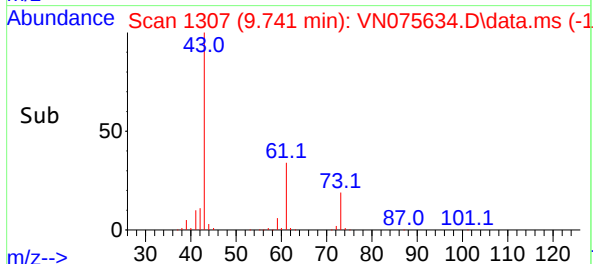
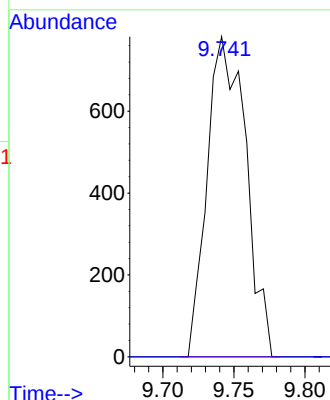
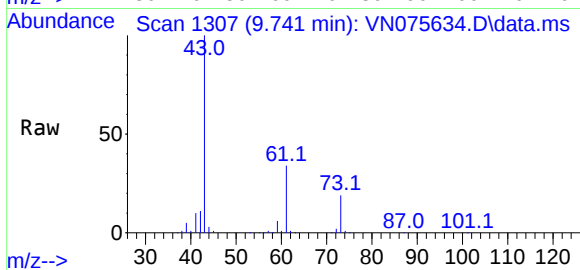
PB149441ZHE06

Tgt Ion: 63 Resp: 1481

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.624 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.012 min

Lab File: VN075634.D

Acq: 08 Dec 2022 02:20

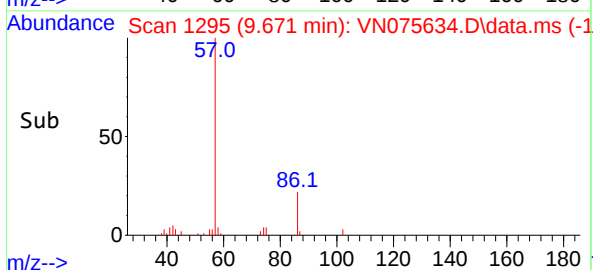
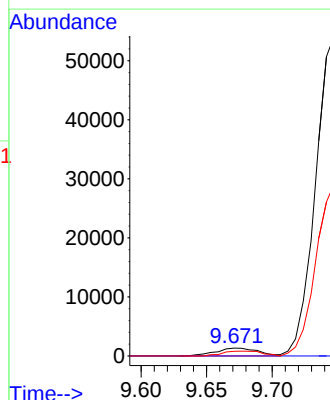
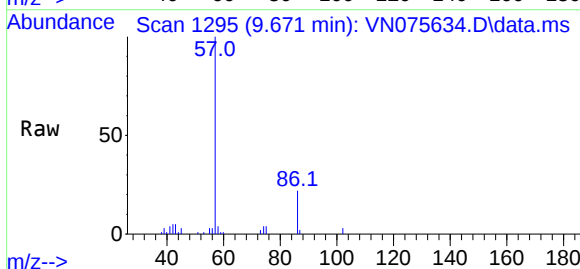
Tgt Ion: 41 Resp: 3016

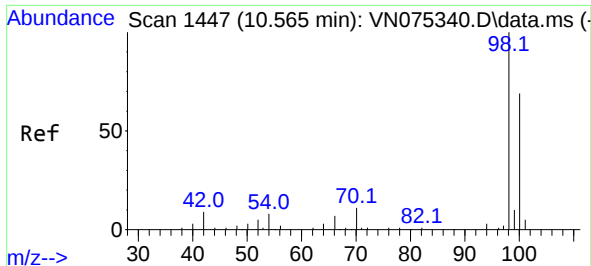
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 57.2 56.2 84.2

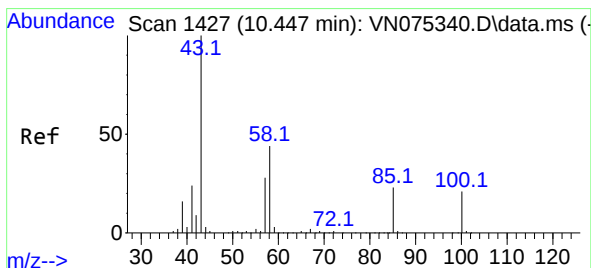
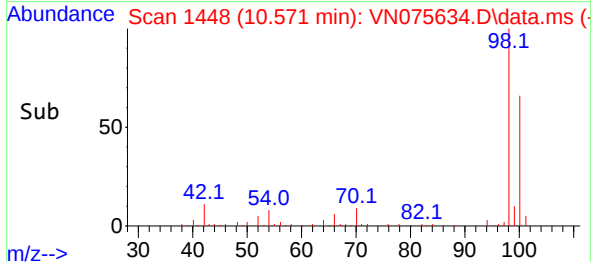
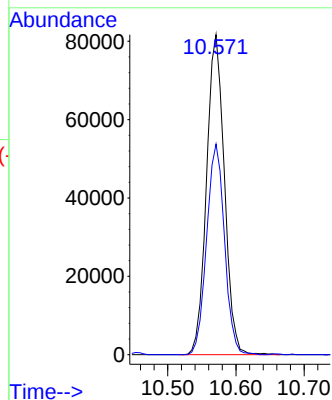
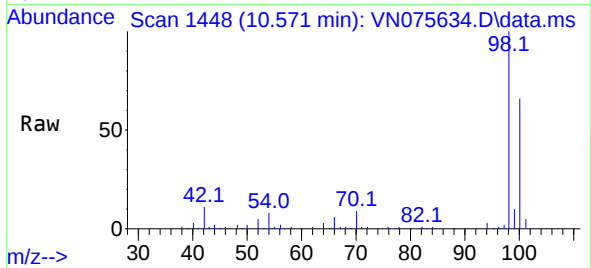




#50  
Toluene-d8  
Concen: 51.832 ug/l  
RT: 10.571 min Scan# 1447  
Delta R.T. 0.006 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

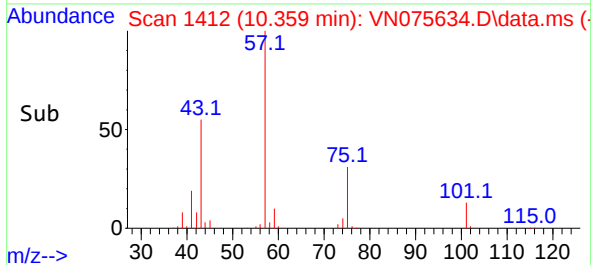
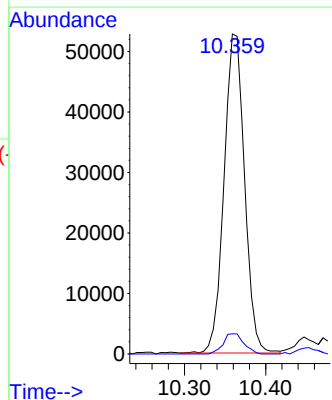
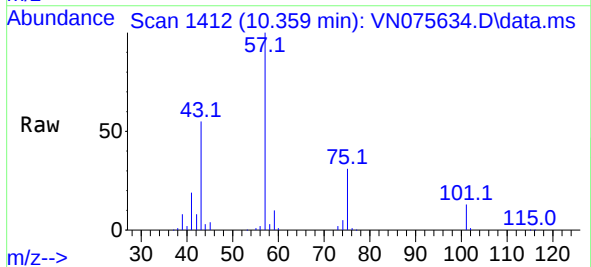
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

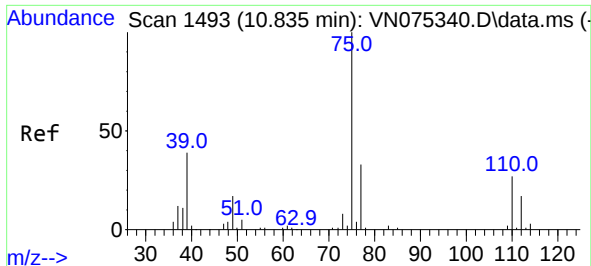
Tgt Ion: 98 Resp: 148784  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 36.239 ug/l  
RT: 10.359 min Scan# 1412  
Delta R.T. -0.088 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 43 Resp: 92718  
Ion Ratio Lower Upper  
43 100  
58 6.4 33.6 50.4#

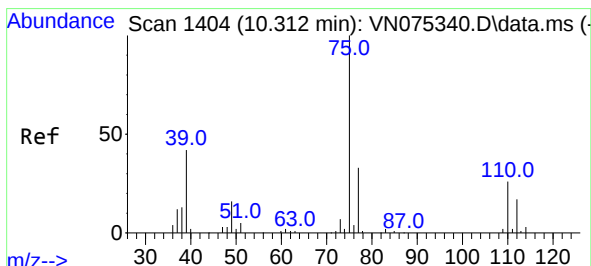
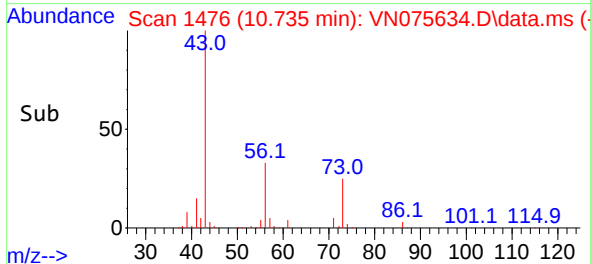
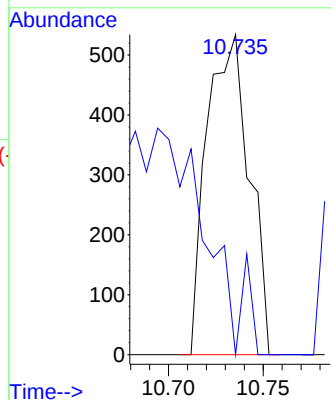
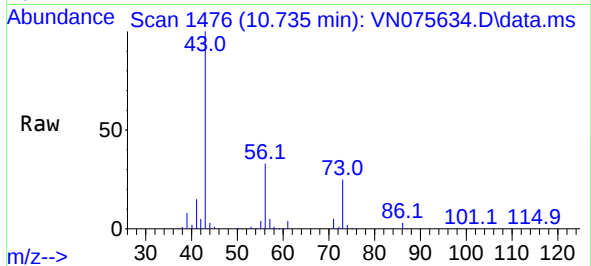




#53  
 t-1,3-Dichloropropene  
 Concen: 0.279 ug/l  
 RT: 10.735 min Scan# 1412  
 Delta R.T. -0.100 min  
 Lab File: VN075634.D  
 Acq: 08 Dec 2022 02:20

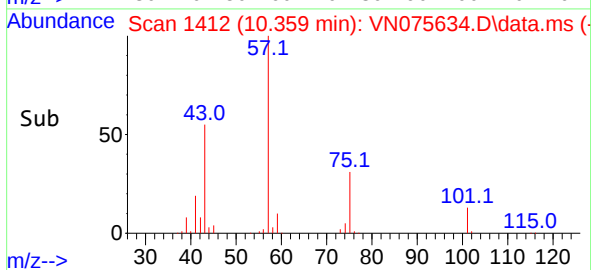
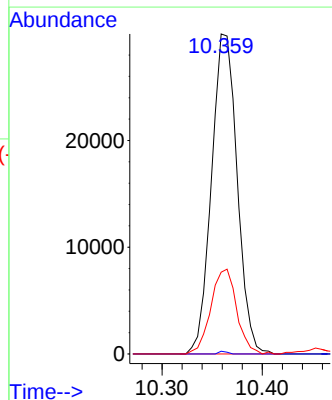
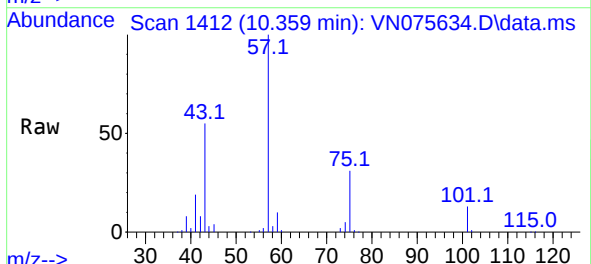
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB149441ZHE06

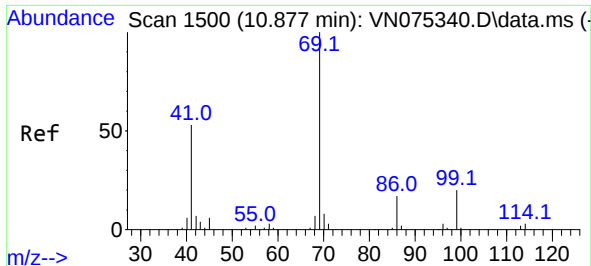
Tgt Ion: 75 Resp: 832  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.4 38.2#



#54  
 cis-1,3-Dichloropropene  
 Concen: 16.480 ug/l  
 RT: 10.359 min Scan# 1412  
 Delta R.T. 0.047 min  
 Lab File: VN075634.D  
 Acq: 08 Dec 2022 02:20

Tgt Ion: 75 Resp: 53373  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 23.7 35.5#  
 39 25.6 35.8 53.6#

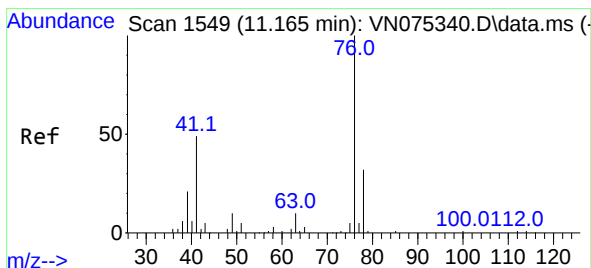
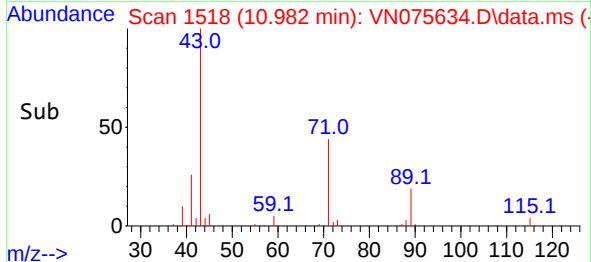
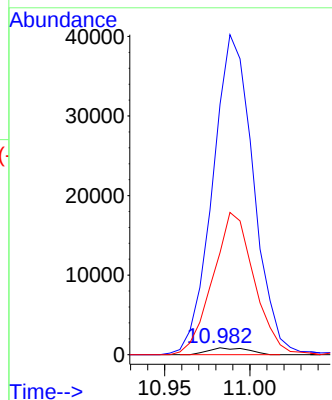
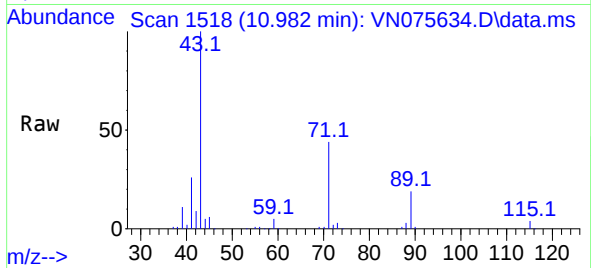




#56  
Ethyl methacrylate  
Concen: 0.459 ug/l  
RT: 10.982 min Scan# 11  
Delta R.T. 0.105 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

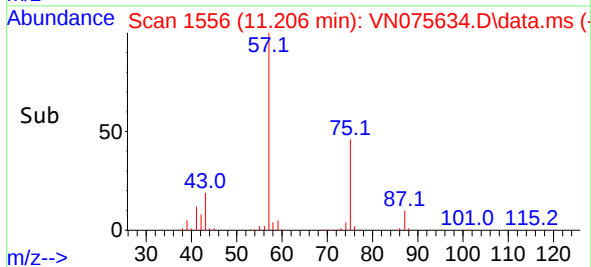
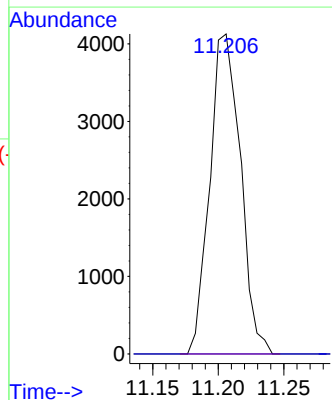
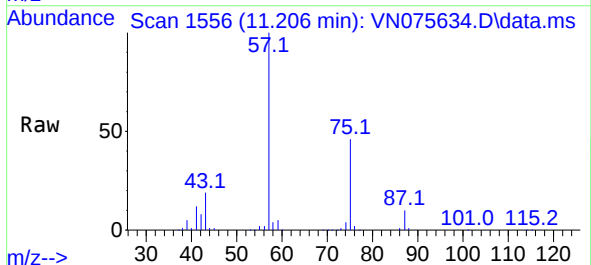
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

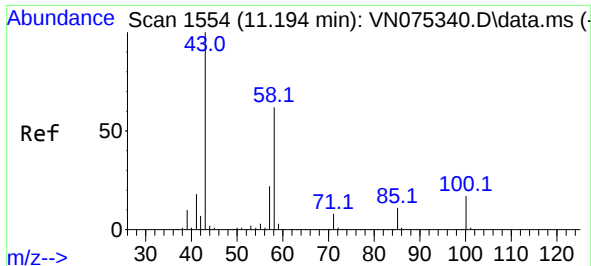
Tgt Ion: 69 Resp: 1385  
Ion Ratio Lower Upper  
69 100  
41 4851.5 45.6 68.4#  
39 2181.9 28.5 42.7#



#57  
1,3-Dichloropropane  
Concen: 1.846 ug/l  
RT: 11.206 min Scan# 1556  
Delta R.T. 0.041 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 76 Resp: 6724  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

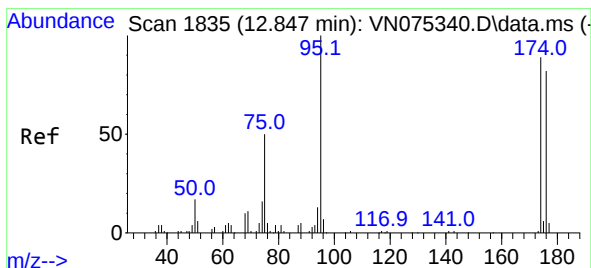
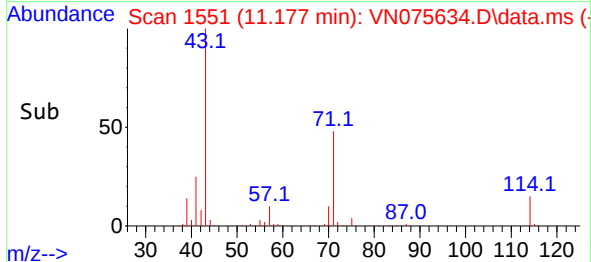
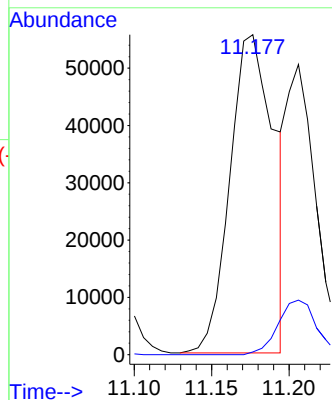
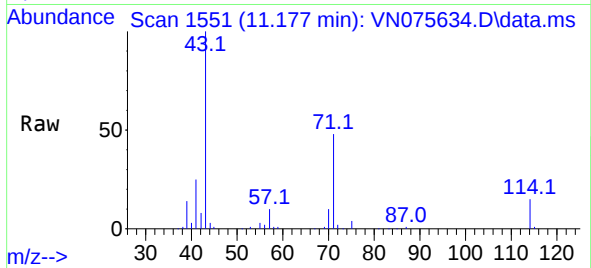




#59  
2-Hexanone  
Concen: 57.175 ug/l  
RT: 11.177 min Scan# 111  
Delta R.T. -0.017 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

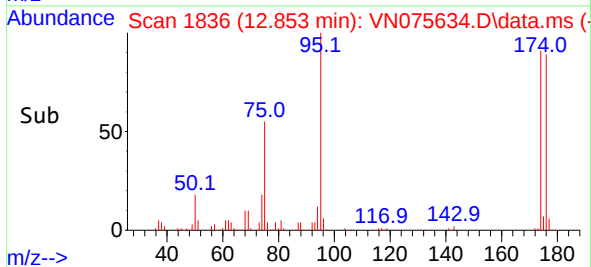
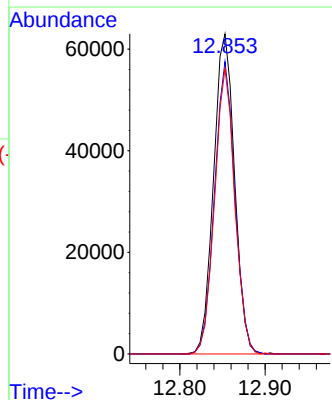
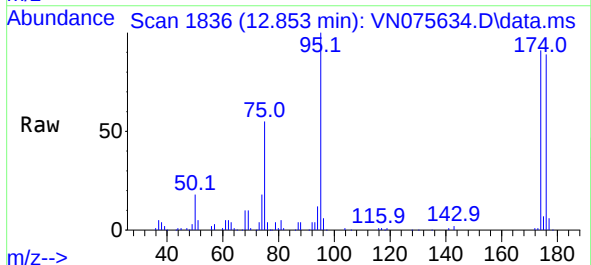
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

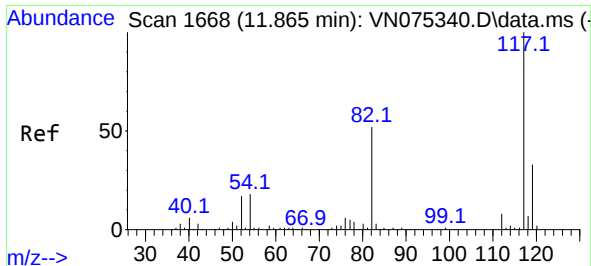
Tgt Ion: 43 Resp: 109844  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 50.907 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 95 Resp: 107858  
Ion Ratio Lower Upper  
95 100  
174 88.4 0.0 147.4  
176 85.3 0.0 142.2

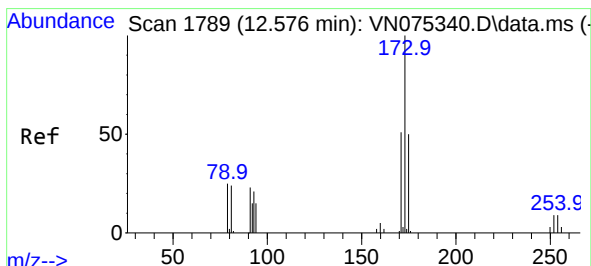
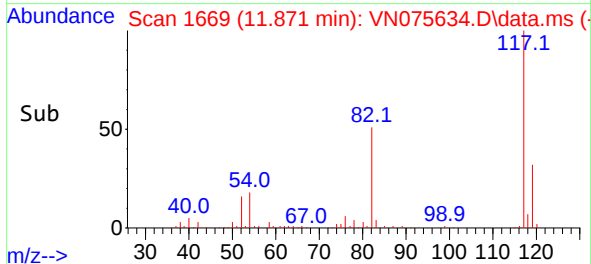
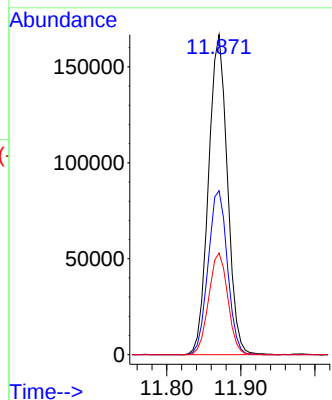
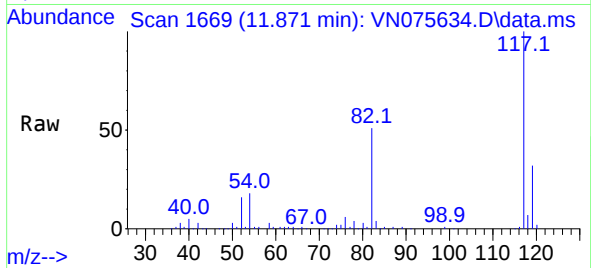




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

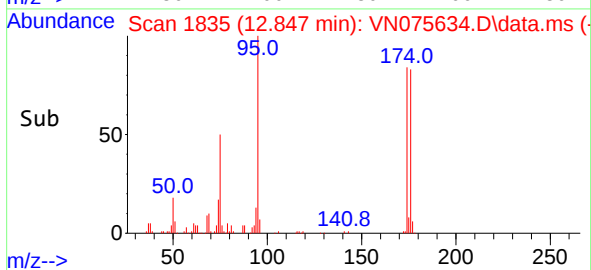
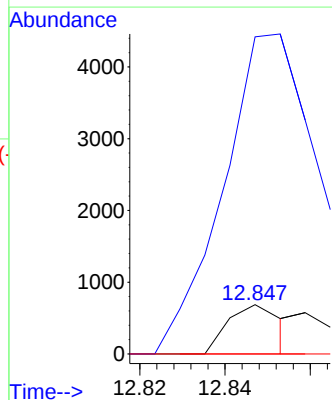
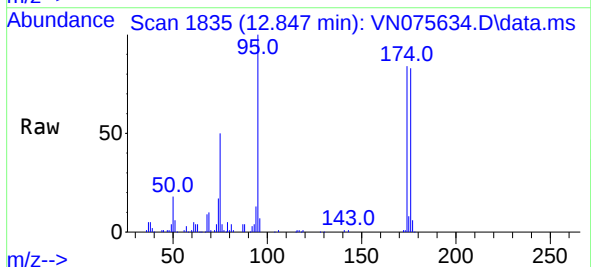
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MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

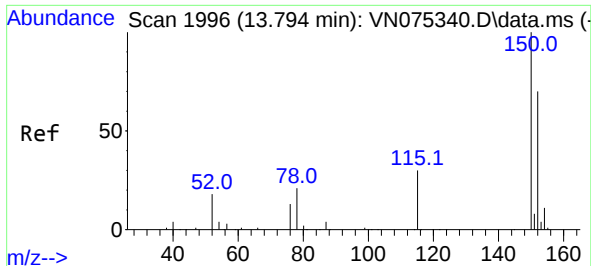
Tgt Ion:117 Resp: 294932  
Ion Ratio Lower Upper  
117 100  
82 51.2 43.1 64.7  
119 31.8 25.5 38.3



#71  
Bromoform  
Concen: 0.343 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.271 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion:173 Resp: 594  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 74.0#  
254 0.0 0.0 0.0

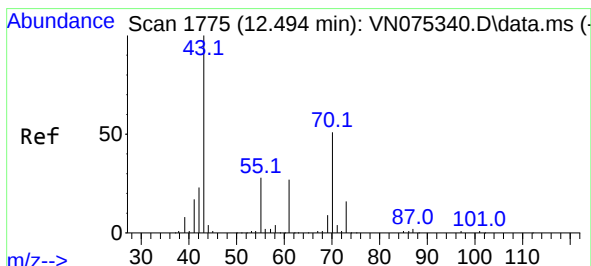
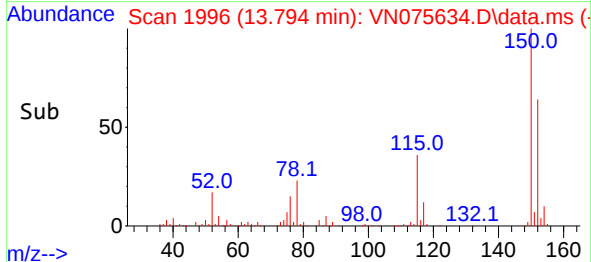
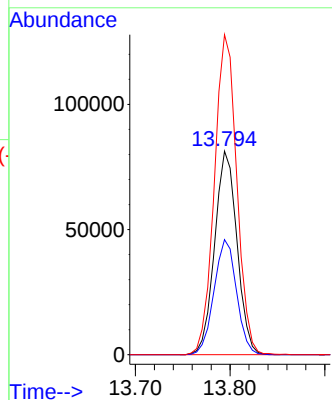
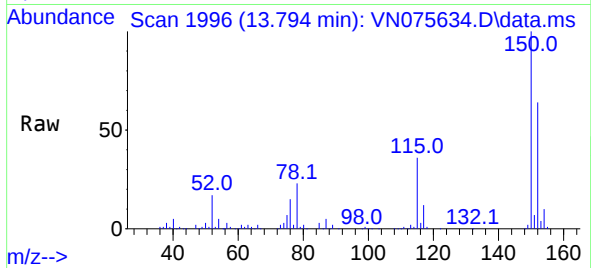




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

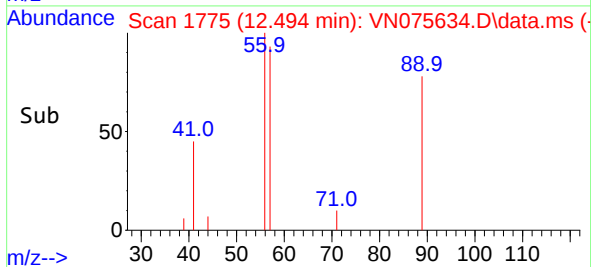
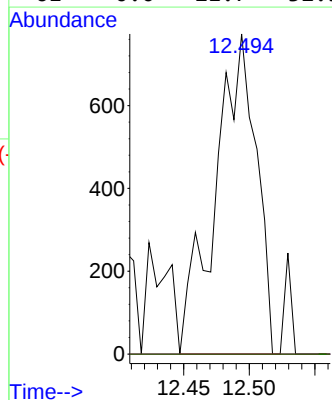
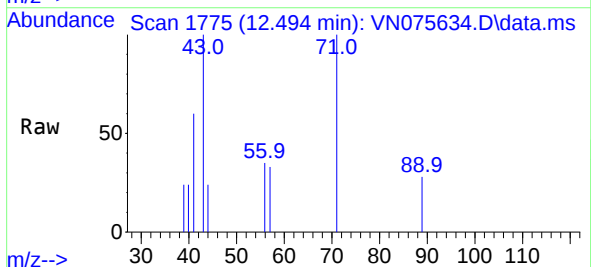
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MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

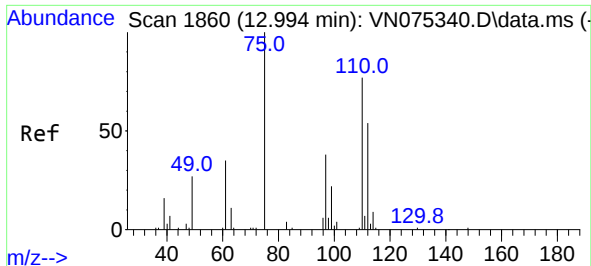
Tgt Ion:152 Resp: 133484  
Ion Ratio Lower Upper  
152 100  
115 56.9 30.2 90.6  
150 157.5 0.0 348.4



#74  
N-ethyl acetate  
Concen: 0.560 ug/l  
RT: 12.494 min Scan# 1775  
Delta R.T. 0.000 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 43 Resp: 1679  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.8 59.8#  
55 0.0 19.9 29.9#  
61 0.0 21.7 32.5#

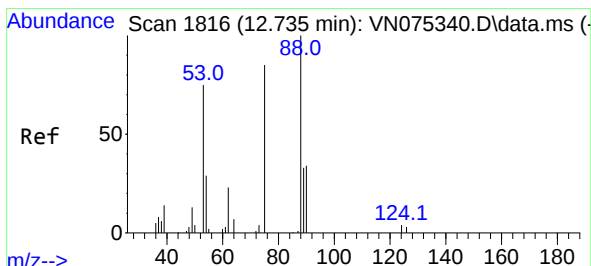
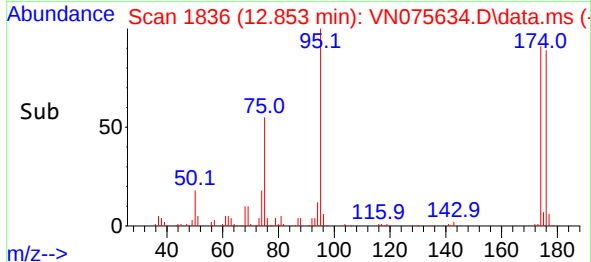
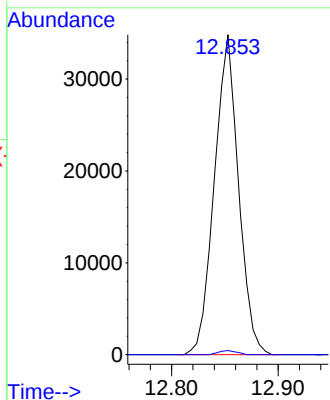
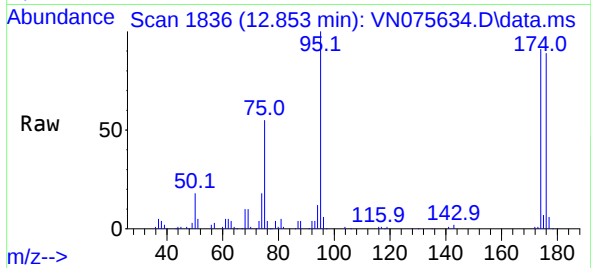




#76  
1,2,3-Trichloropropane  
Concen: 21.693 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149441ZHE06

Tgt Ion: 75 Resp: 54749  
Ion Ratio Lower Upper  
75 100  
77 1.0 75.6 226.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.184 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.118 min  
Lab File: VN075634.D  
Acq: 08 Dec 2022 02:20

Tgt Ion: 75 Resp: 54749  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#

