

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110322\  
 Data File : VN075152.D  
 Acq On : 03 Nov 2022 18:25  
 Operator : JC\MD  
 Sample : PB148771ZHE#04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB148771ZHE#04

Quant Time: Nov 04 04:11:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 2022  
 Response via : Initial Calibration

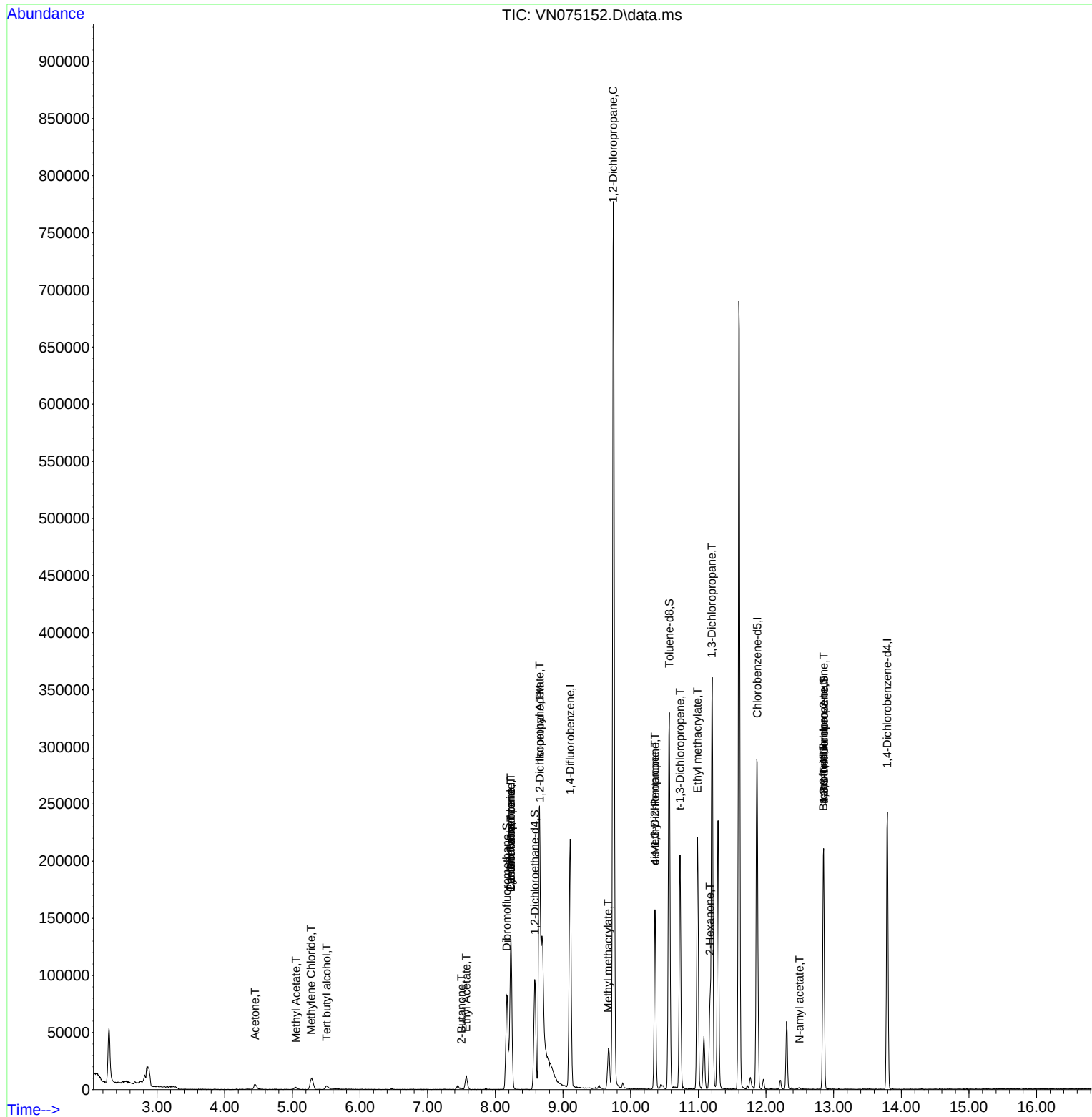
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 88708    | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 184756   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 166953   | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 64370    | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 76750    | 64.213   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 128.420%# |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 57768    | 53.262   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 106.520%  |          |
| 50) Toluene-d8                | 10.571 | 98    | 228347   | 54.265   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 108.520%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 70074    | 47.405   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 94.820%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 11) Tert butyl alcohol        | 5.506  | 59    | 1607     | 5.765    | ug/l #      | 72       |
| 16) Acetone                   | 4.448  | 43    | 9160     | 18.099   | ug/l        | 90       |
| 18) Methyl Acetate            | 5.053  | 43    | 3731     | 2.257    | ug/l        | 97       |
| 20) Methylene Chloride        | 5.277  | 84    | 8553     | 7.580    | ug/l #      | 75       |
| 25) 2-Butanone                | 7.500  | 43    | 1451     | 1.823    | ug/l #      | 43       |
| 31) Cyclohexane               | 8.230  | 56    | 2403     | 1.352    | ug/l #      | 43       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 8119     | 4.835    | ug/l #      | 51       |
| 37) Ethyl Acetate             | 7.571  | 43    | 15878    | 8.622    | ug/l #      | 92       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 10267    | 5.558    | ug/l #      | 16       |
| 42) 1,2-Dichloroethane        | 8.659  | 62    | 439      | 0.235    | ug/l #      | 75       |
| 43) Isopropyl Acetate         | 8.653  | 43    | 183881   | 64.374   | ug/l #      | 54       |
| 45) 1,2-Dichloropropane       | 9.741  | 63    | 832      | 0.680    | ug/l #      | 42       |
| 48) Methyl methacrylate       | 9.665  | 41    | 2115     | 1.614    | ug/l #      | 41       |
| 51) 4-Methyl-2-Pentanone      | 10.359 | 43    | 55560    | 30.142   | ug/l #      | 44       |
| 53) t-1,3-Dichloropropene     | 10.730 | 75    | 555      | 0.285    | ug/l #      | 43       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 28825    | 13.948   | ug/l #      | 72       |
| 56) Ethyl methacrylate        | 10.988 | 69    | 602      | 0.290    | ug/l #      | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 3943     | 1.737    | ug/l #      | 42       |
| 59) 2-Hexanone                | 11.171 | 43    | 59360    | 42.431   | ug/l #      | 21       |
| 71) Bromoform                 | 12.847 | 173   | 439      | 0.444    | ug/l #      | 1        |
| 74) N-amyl acetate            | 12.494 | 43    | 719      | 0.376    | ug/l #      | 38       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 40044    | 29.299   | ug/l #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 40044    | 75.210   | ug/l #      | 10       |
| -----                         |        |       |          |          |             |          |

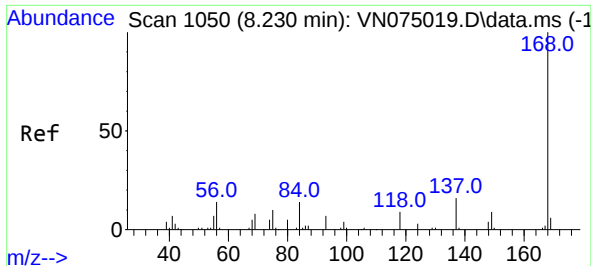
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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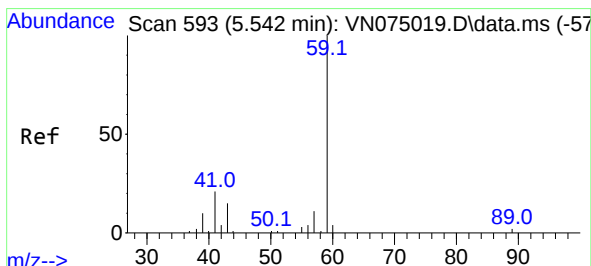
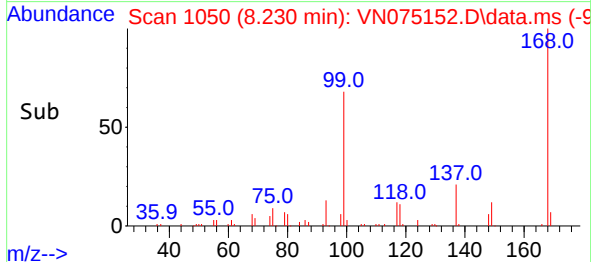
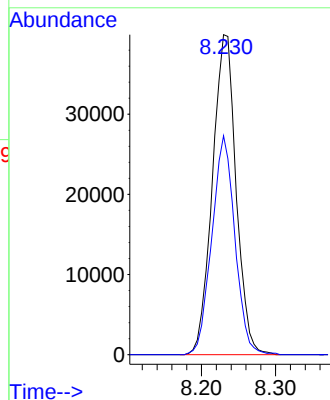
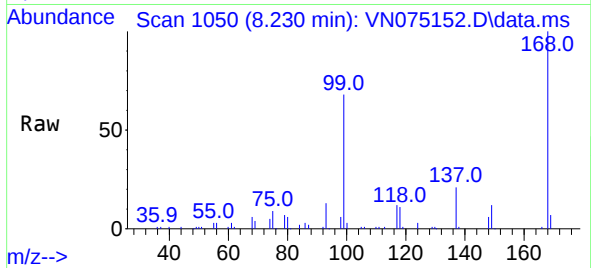




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

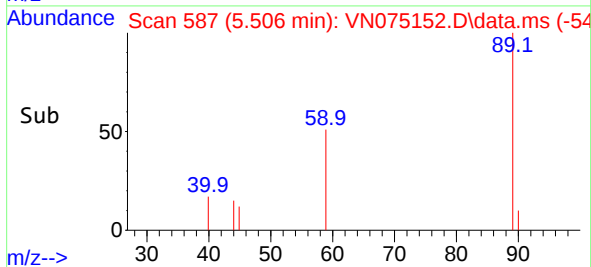
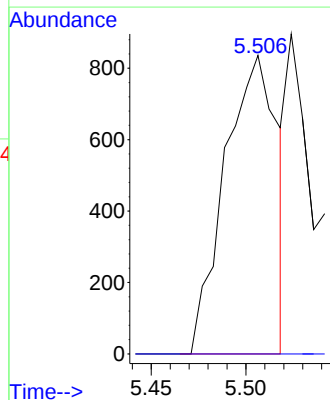
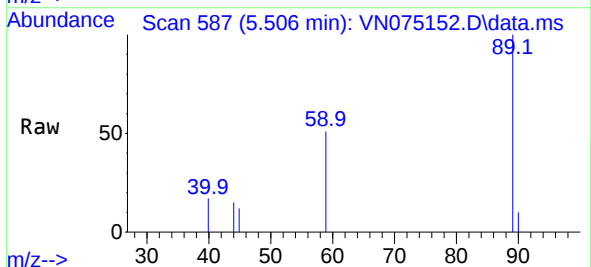
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

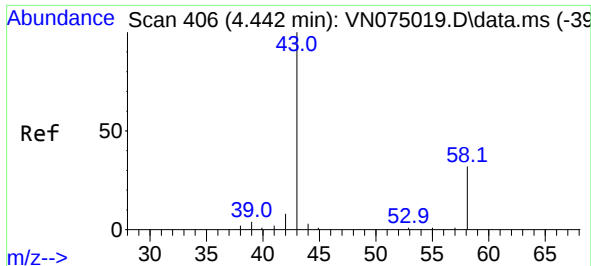
Tgt Ion:168 Resp: 88708  
Ion Ratio Lower Upper  
168 100  
99 68.4 51.6 77.4



#11  
Tert butyl alcohol  
Concen: 5.765 ug/l  
RT: 5.506 min Scan# 587  
Delta R.T. -0.036 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 59 Resp: 1607  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

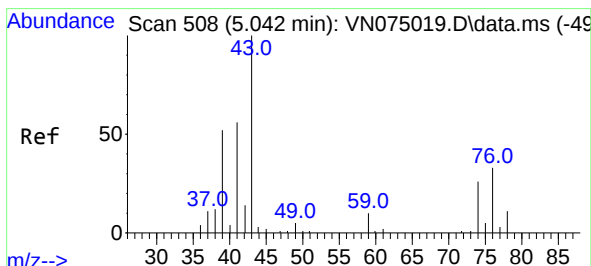
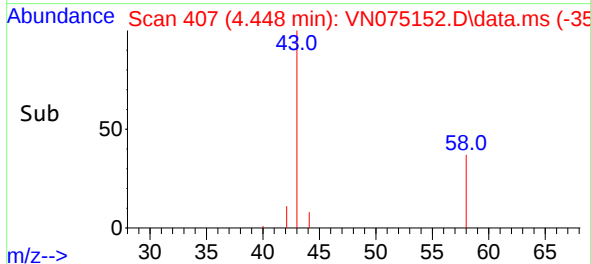
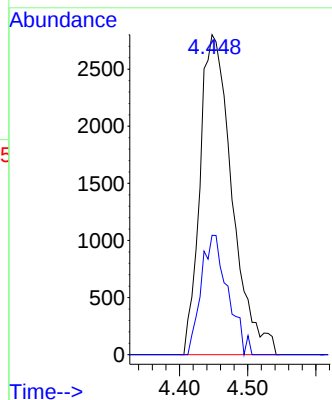
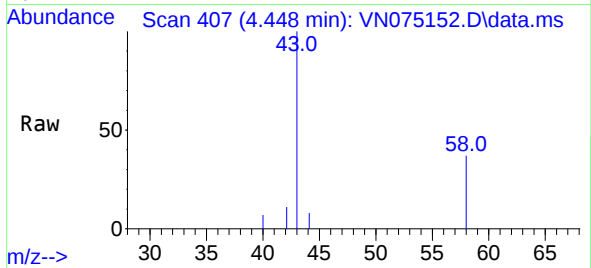




#16  
Acetone  
Concen: 18.099 ug/l  
RT: 4.448 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

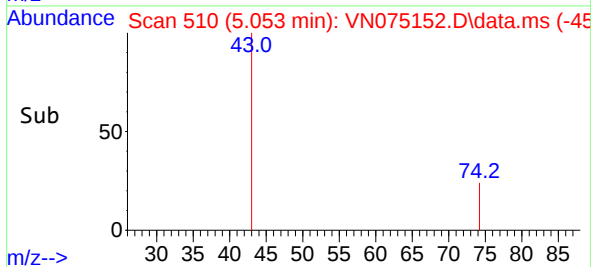
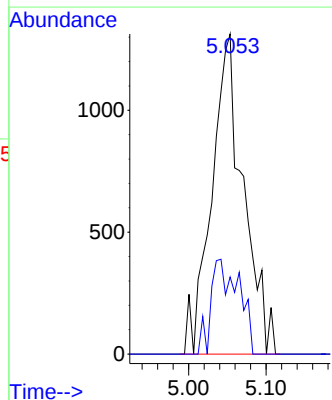
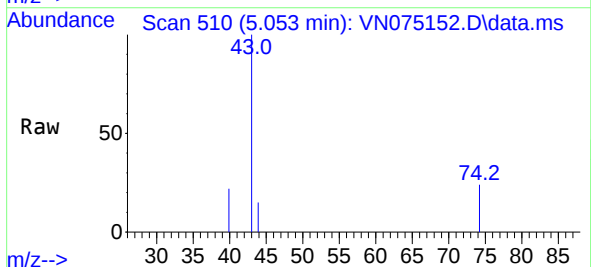
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

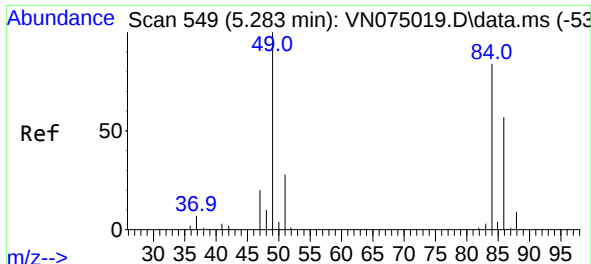
Tgt Ion: 43 Resp: 9160  
Ion Ratio Lower Upper  
43 100  
58 37.3 25.5 38.3



#18  
Methyl Acetate  
Concen: 2.257 ug/l  
RT: 5.053 min Scan# 510  
Delta R.T. 0.011 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 43 Resp: 3731  
Ion Ratio Lower Upper  
43 100  
74 26.1 22.0 33.0



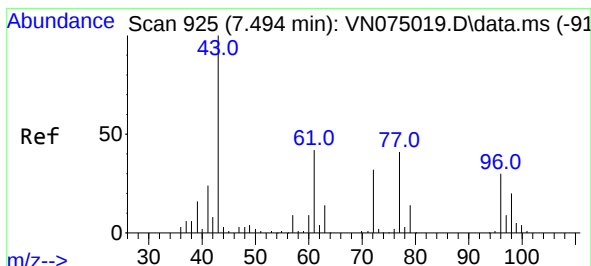
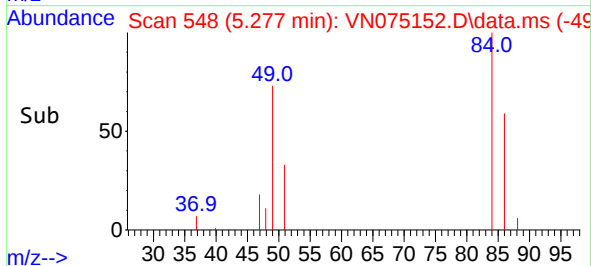
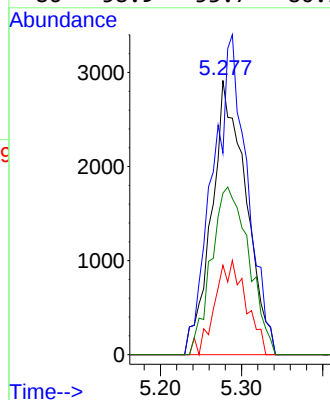
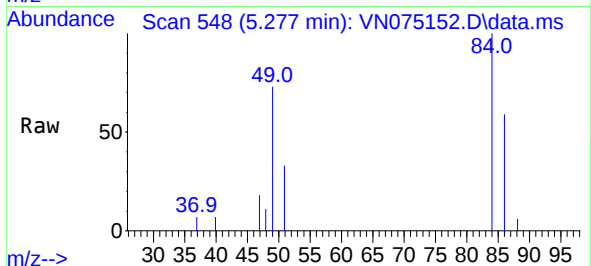


#20  
Methylene Chloride  
Concen: 7.580 ug/l  
RT: 5.277 min Scan# 549  
Delta R.T. -0.006 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

Tgt Ion: 84 Resp: 8553

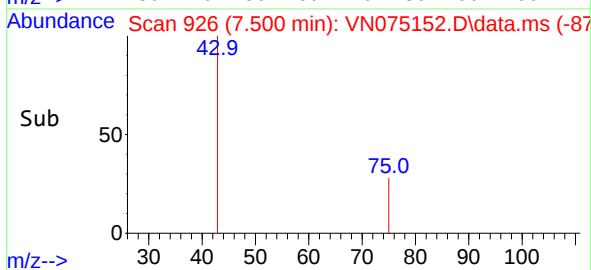
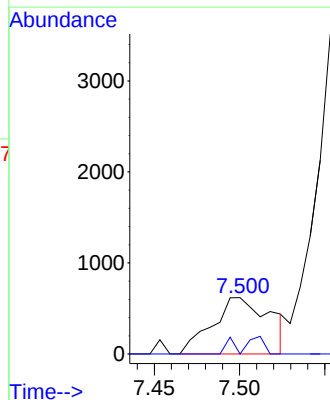
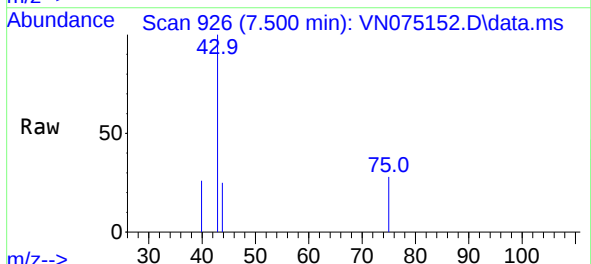
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 73.5  | 94.9  | 142.3# |
| 51  | 32.6  | 26.8  | 40.2   |
| 86  | 58.9  | 53.7  | 80.5   |

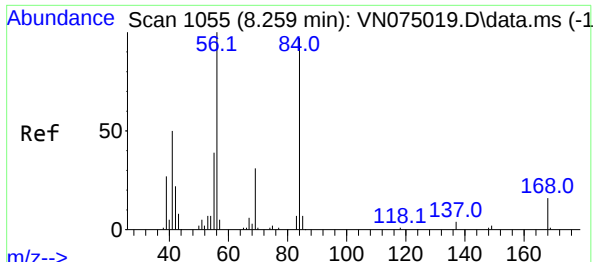


#25  
2-Butanone  
Concen: 1.823 ug/l  
RT: 7.500 min Scan# 926  
Delta R.T. 0.006 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 43 Resp: 1451

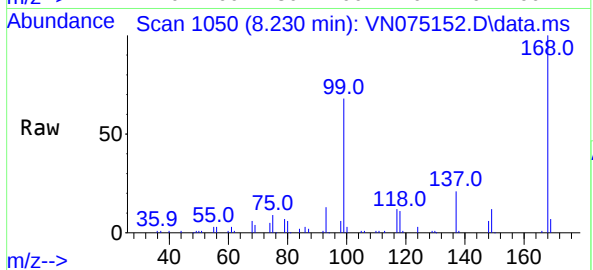
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 25.5  | 38.3# |



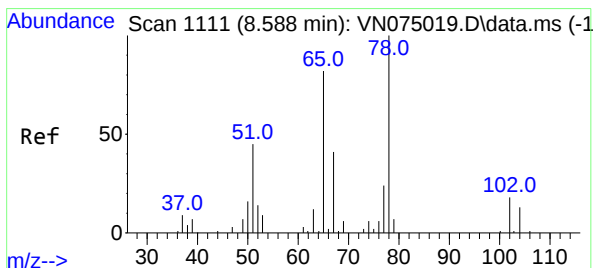
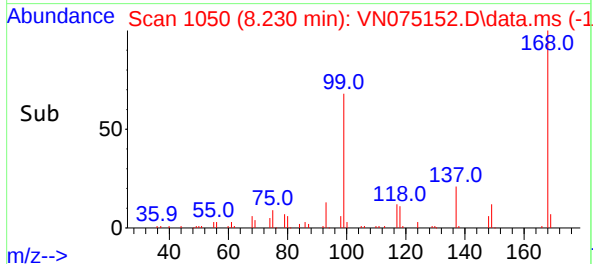
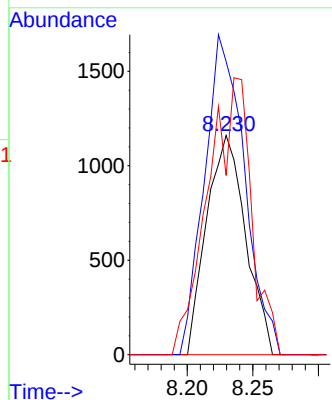


#31  
Cyclohexane  
Concen: 1.352 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.029 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

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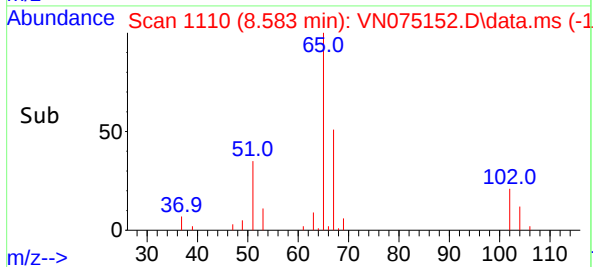
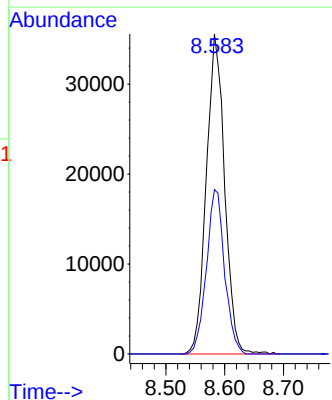
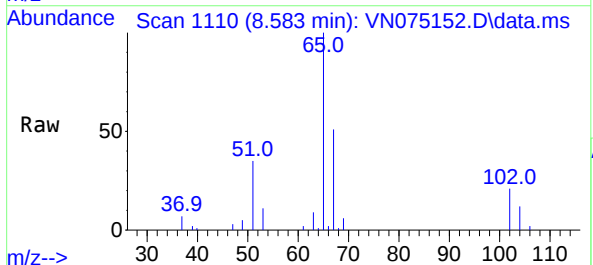


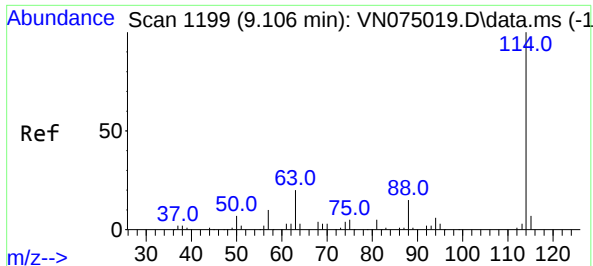
Tgt Ion: 56 Resp: 2403  
Ion Ratio Lower Upper  
56 100  
69 133.8 25.2 37.8#  
84 81.8 77.8 116.8



#33  
1,2-Dichloroethane-d4  
Concen: 64.213 ug/l  
RT: 8.583 min Scan# 1110  
Delta R.T. -0.005 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 65 Resp: 76750  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 102.0

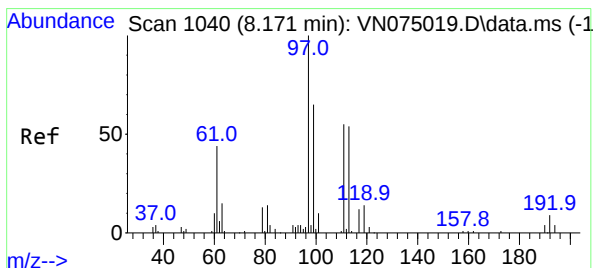
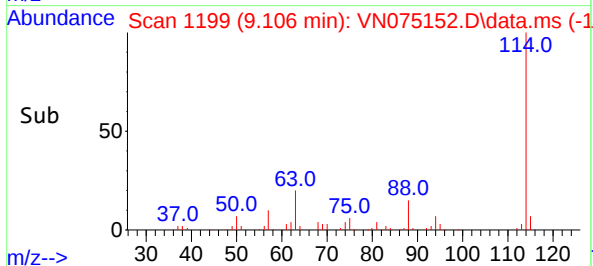
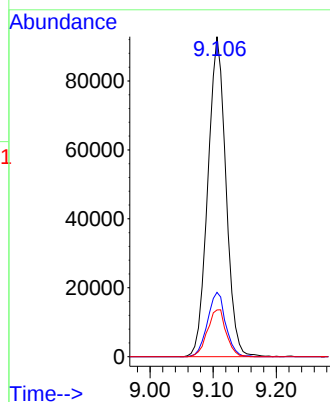
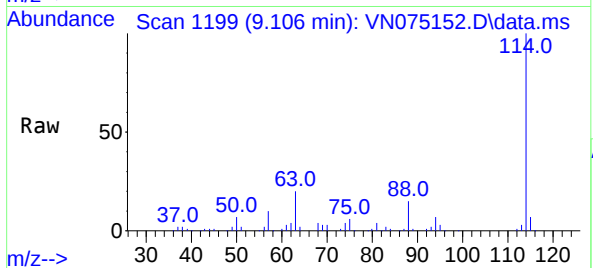




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. 0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

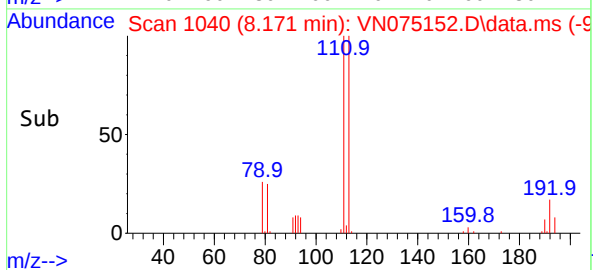
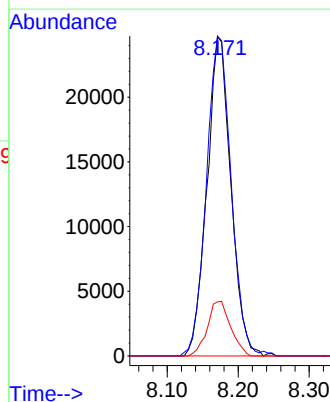
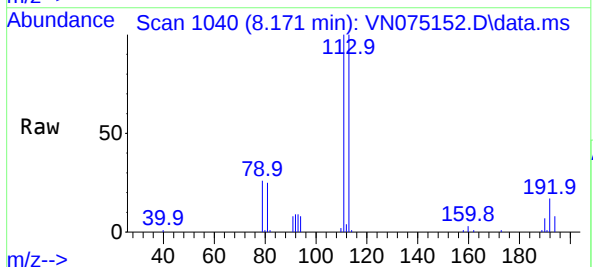
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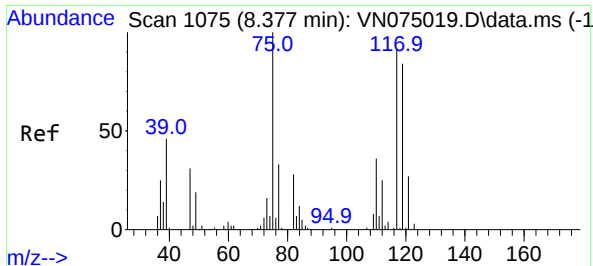
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Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 39.6  
88 14.6 0.0 29.0



#35  
Dibromofluoromethane  
Concen: 53.262 ug/l  
RT: 8.171 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

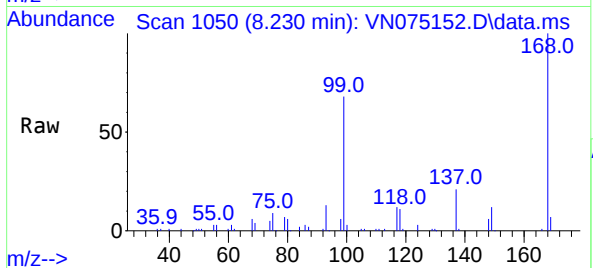
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Ion Ratio Lower Upper  
113 100  
111 103.7 80.5 120.7  
192 16.7 13.2 19.8



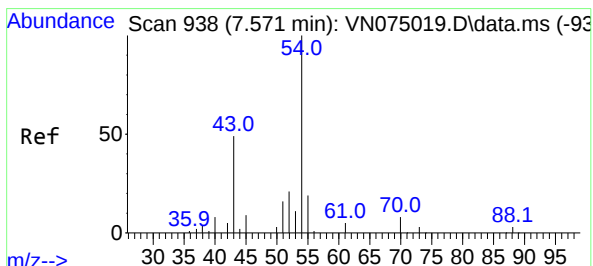
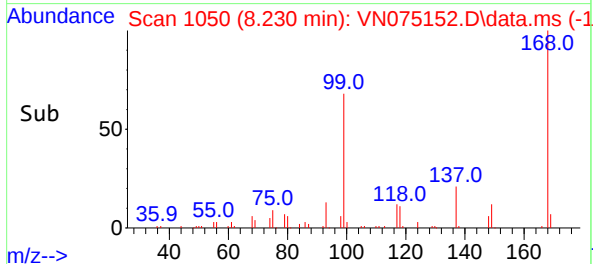
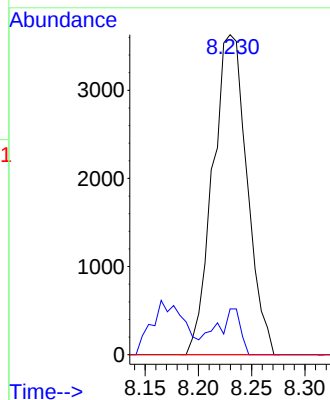


#36  
1,1-Dichloropropene  
Concen: 4.835 ug/l  
RT: 8.230 min Scan# 1075  
Delta R.T. -0.147 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

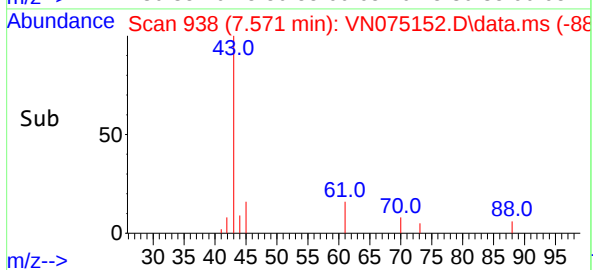
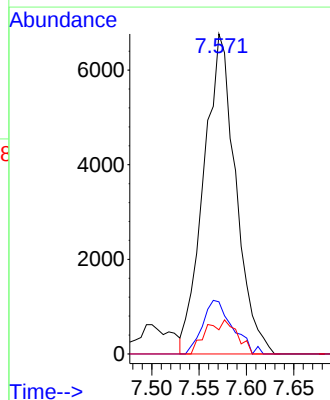
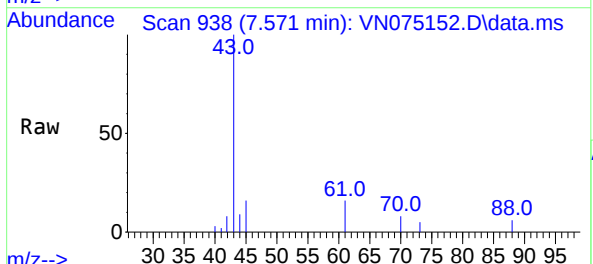


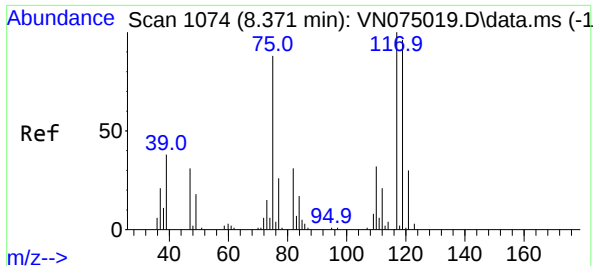
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Ion Ratio Lower Upper  
75 100  
110 10.2 17.8 53.3#  
77 0.0 24.6 37.0#



#37  
Ethyl Acetate  
Concen: 8.622 ug/l  
RT: 7.571 min Scan# 938  
Delta R.T. -0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

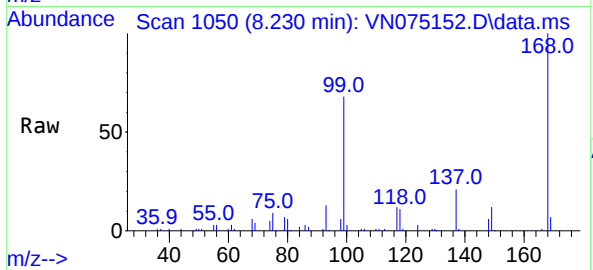
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Ion Ratio Lower Upper  
43 100  
61 15.7 12.2 18.4  
70 5.2 9.4 14.2#



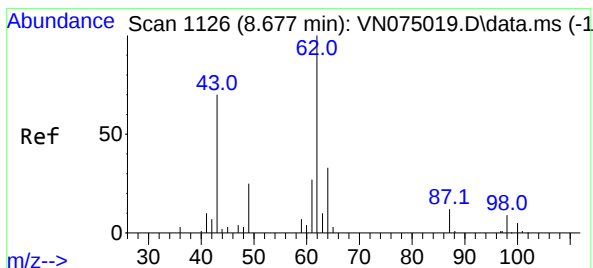
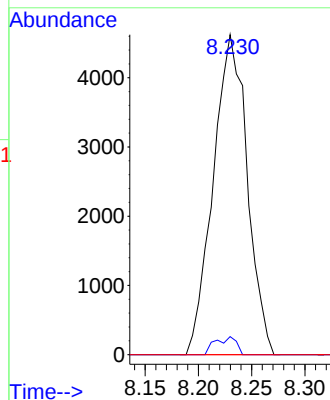
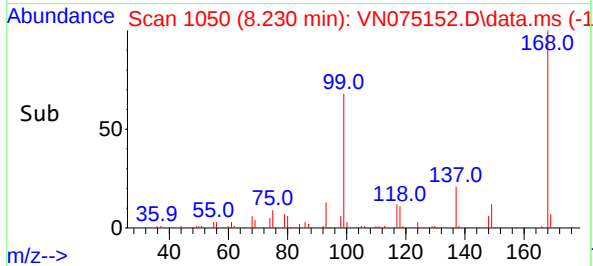


#38  
Carbon Tetrachloride  
Concen: 5.558 ug/l  
RT: 8.230 min Scan# 1074  
Delta R.T. -0.141 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Instrument : MSVOA\_N  
ClientSampleId : PB148771ZHE#04

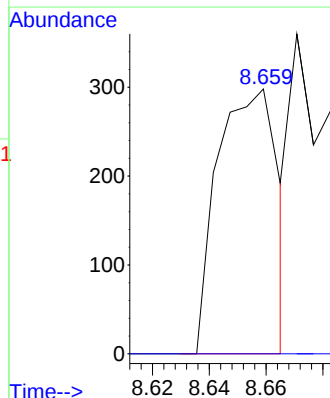
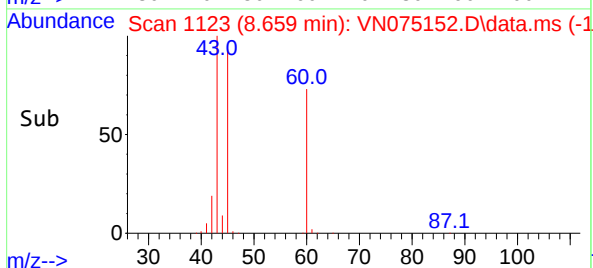
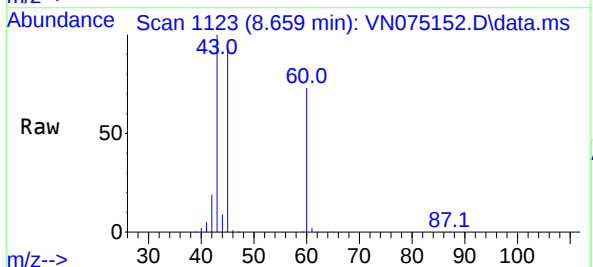


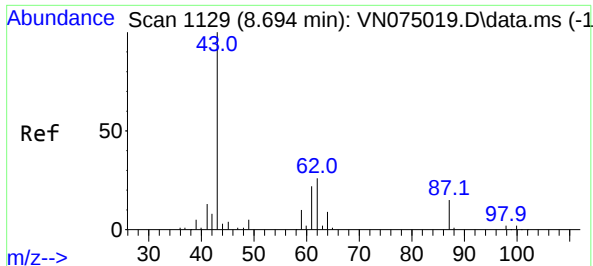
Tgt Ion:117 Resp: 10267  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.7 115.1#  
121 0.0 23.9 35.9#



#42  
1,2-Dichloroethane  
Concen: 0.235 ug/l  
RT: 8.659 min Scan# 1123  
Delta R.T. -0.018 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 62 Resp: 439  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 18.2

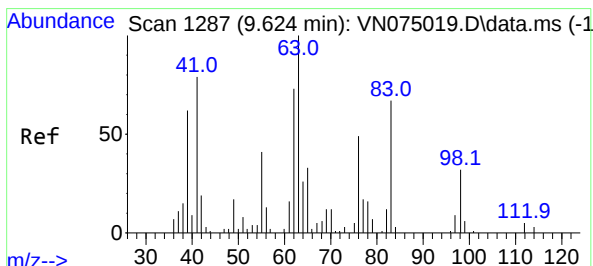
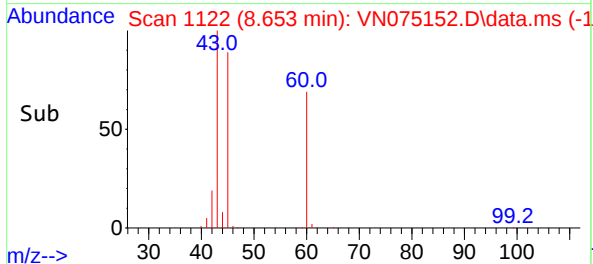
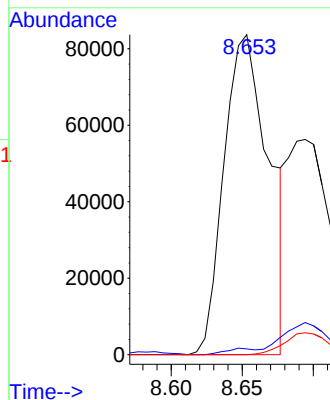
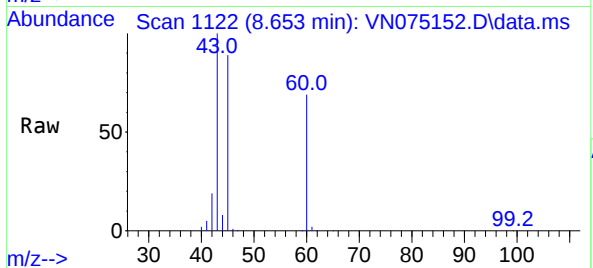




#43  
Isopropyl Acetate  
Concen: 64.374 ug/l  
RT: 8.653 min Scan# 1122  
Delta R.T. -0.041 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

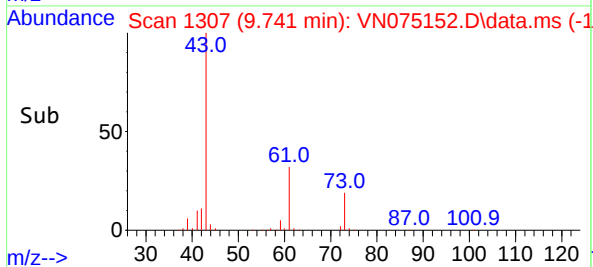
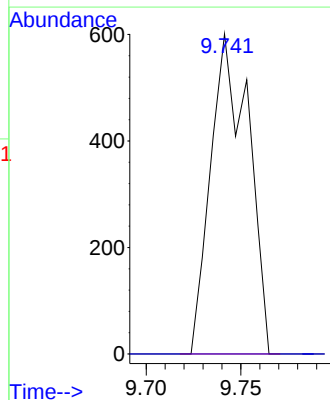
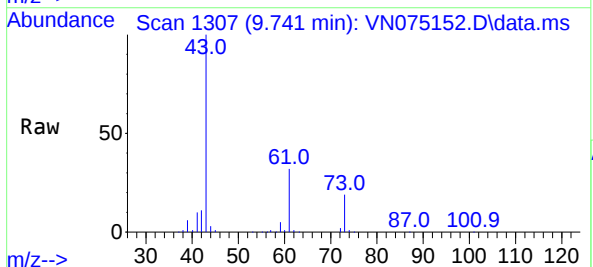
Instrument : MSVOA\_N  
ClientSampleId : PB148771ZHE#04

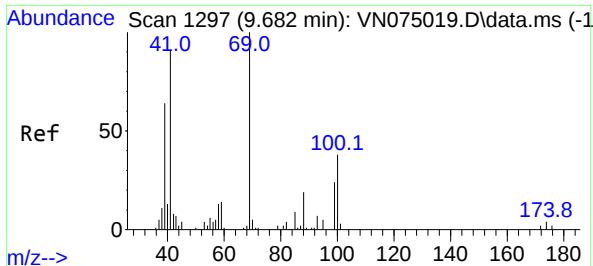
Tgt Ion: 43 Resp: 183881  
Ion Ratio Lower Upper  
43 100  
61 1.3 22.4 33.6#  
87 0.0 12.5 18.7#



#45  
1,2-Dichloropropane  
Concen: 0.680 ug/l  
RT: 9.741 min Scan# 1307  
Delta R.T. 0.117 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 63 Resp: 832  
Ion Ratio Lower Upper  
63 100  
65 0.0 26.1 39.1#





#48

Methyl methacrylate

Concen: 1.614 ug/l

RT: 9.665 min Scan# 1297

Delta R.T. -0.017 min

Lab File: VN075152.D

Acq: 03 Nov 2022 18:25

Instrument :

MSVOA\_N

ClientSampleId :

PB148771ZHE#04

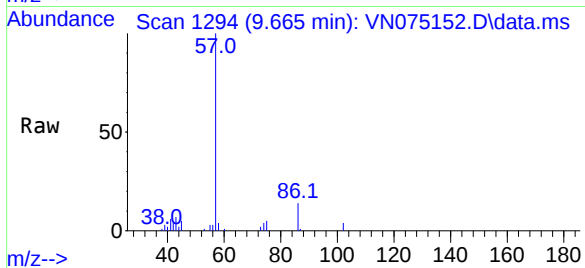
Tgt Ion: 41 Resp: 2115

Ion Ratio Lower Upper

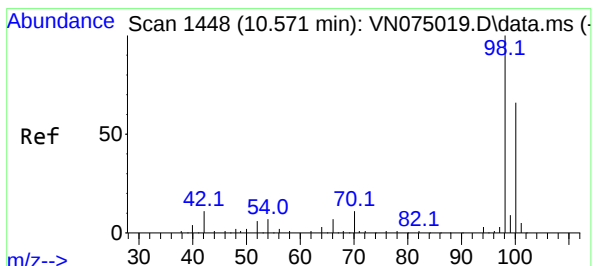
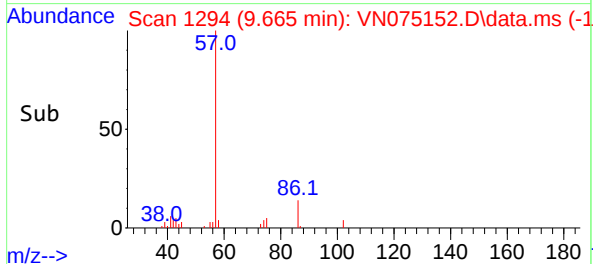
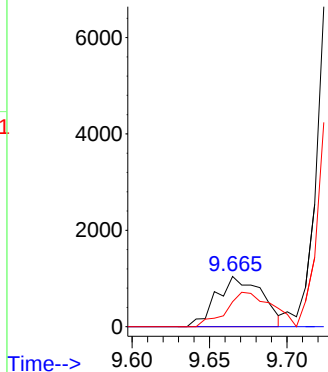
41 100

69 0.0 80.2 120.2#

39 69.2 56.2 84.2



Abundance



#50

Toluene-d8

Concen: 54.265 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075152.D

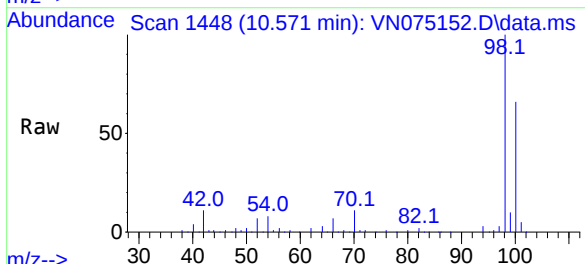
Acq: 03 Nov 2022 18:25

Tgt Ion: 98 Resp: 228347

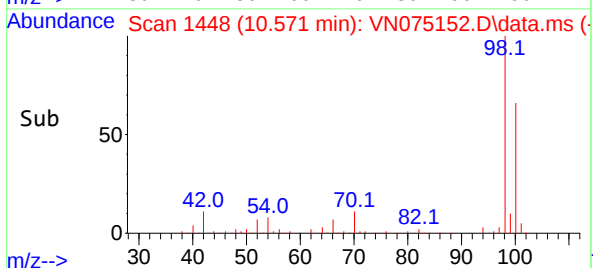
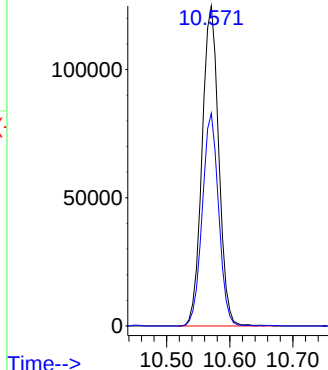
Ion Ratio Lower Upper

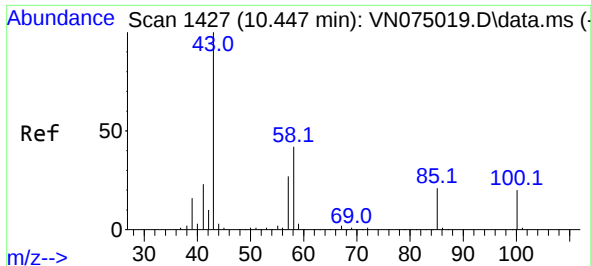
98 100

100 65.2 53.0 79.6



Abundance





#51

4-Methyl-2-Pentanone

Concen: 30.142 ug/l

RT: 10.359 min Scan# 14

Delta R.T. -0.088 min

Lab File: VN075152.D

Acq: 03 Nov 2022 18:25

Instrument :

MSVOA\_N

ClientSampleId :

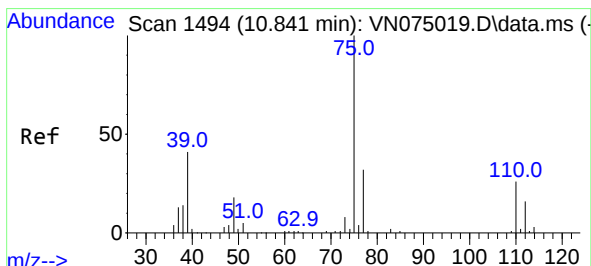
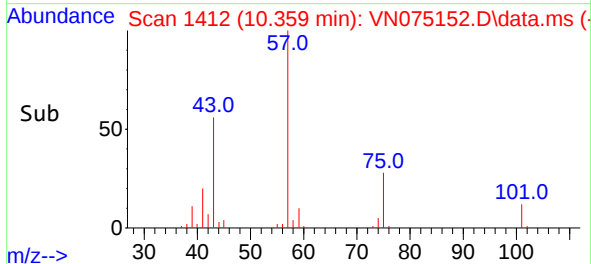
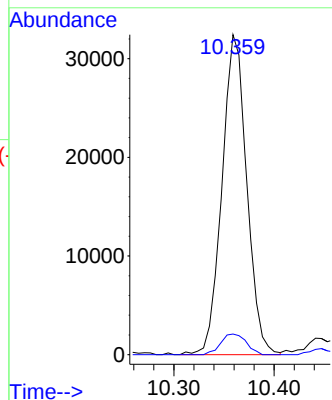
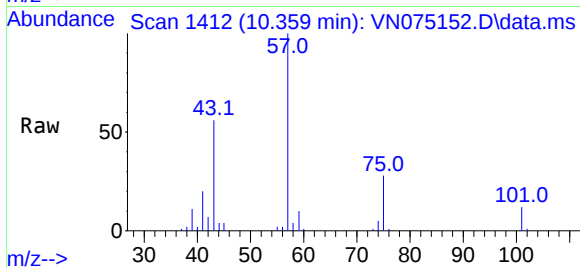
PB148771ZHE#04

Tgt Ion: 43 Resp: 55560

Ion Ratio Lower Upper

43 100

58 6.7 33.6 50.4#



#53

t-1,3-Dichloropropene

Concen: 0.285 ug/l

RT: 10.730 min Scan# 1475

Delta R.T. -0.111 min

Lab File: VN075152.D

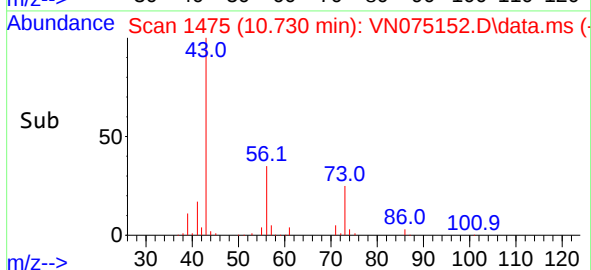
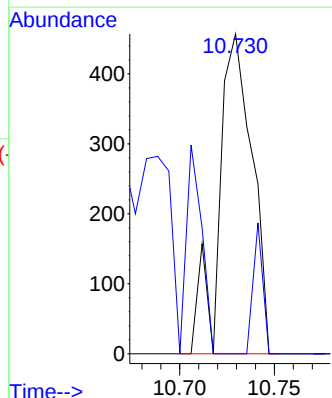
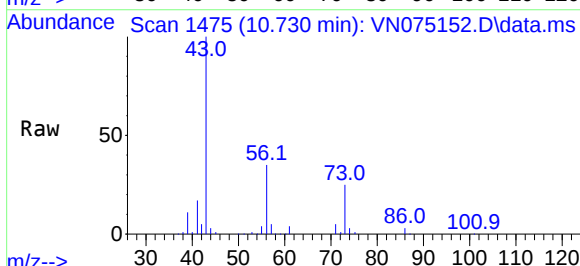
Acq: 03 Nov 2022 18:25

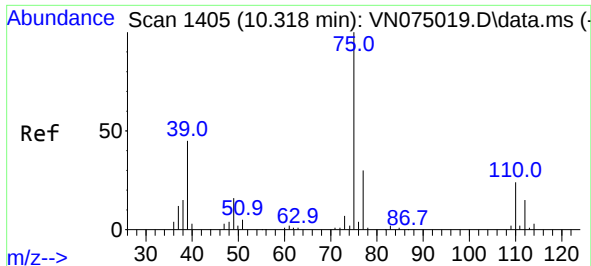
Tgt Ion: 75 Resp: 555

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

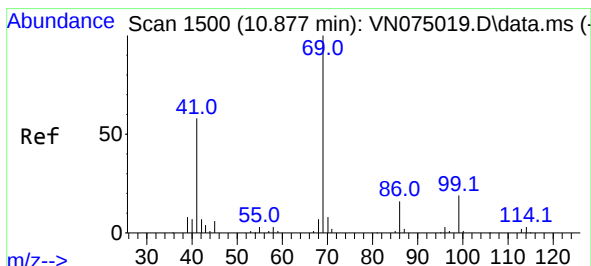
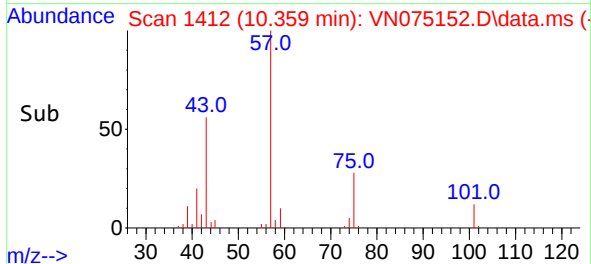
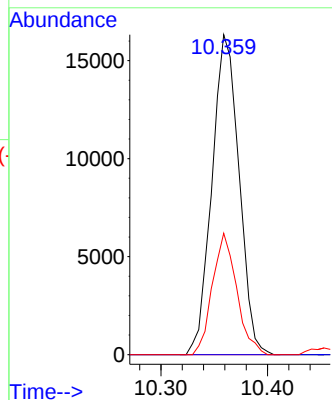
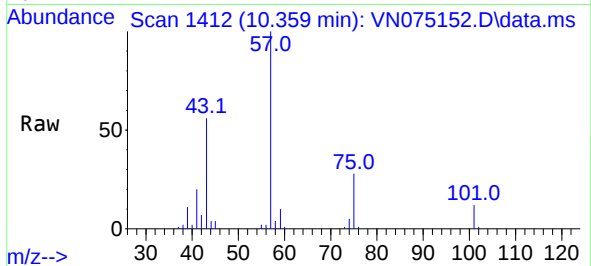




#54  
 cis-1,3-Dichloropropene  
 Concen: 13.948 ug/l  
 RT: 10.359 min Scan# 1412  
 Delta R.T. 0.041 min  
 Lab File: VN075152.D  
 Acq: 03 Nov 2022 18:25

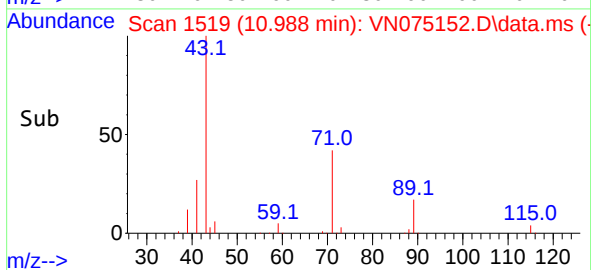
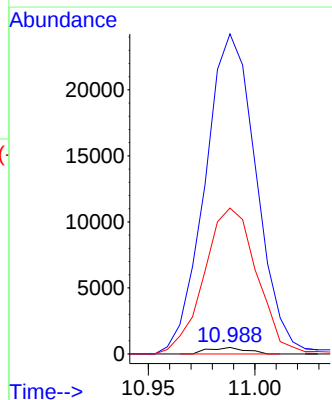
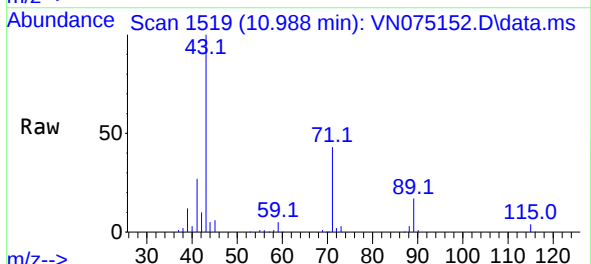
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB148771ZHE#04

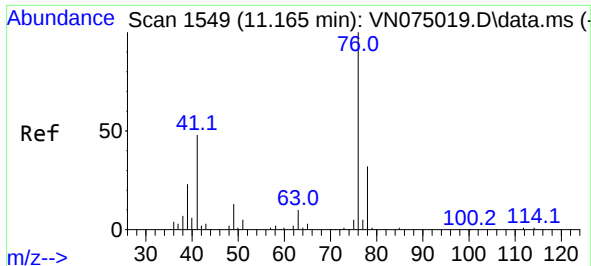
Tgt Ion: 75 Resp: 28825  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 23.7 35.5#  
 39 37.9 35.8 53.6



#56  
 Ethyl methacrylate  
 Concen: 0.290 ug/l  
 RT: 10.988 min Scan# 1519  
 Delta R.T. 0.111 min  
 Lab File: VN075152.D  
 Acq: 03 Nov 2022 18:25

Tgt Ion: 69 Resp: 602  
 Ion Ratio Lower Upper  
 69 100  
 41 6795.5 45.6 68.4#  
 39 3175.7 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.737 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN075152.D

Acq: 03 Nov 2022 18:25

Instrument :

MSVOA\_N

ClientSampleId :

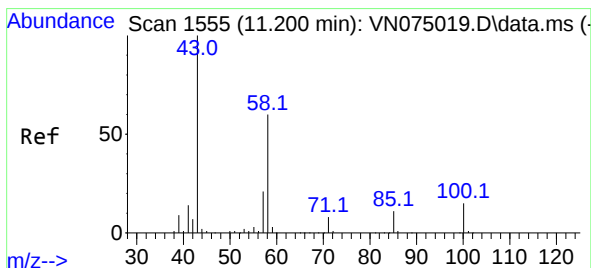
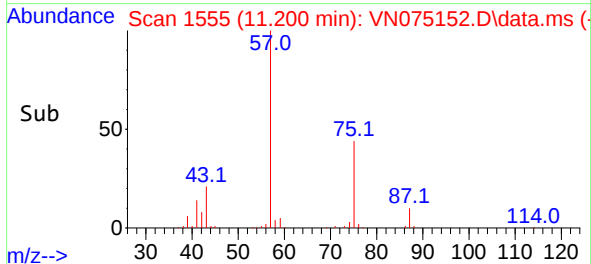
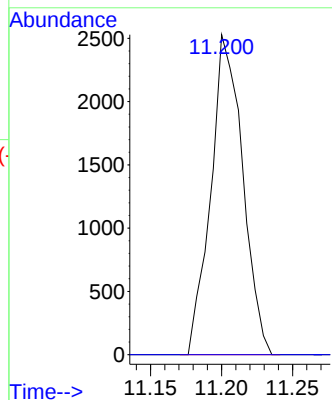
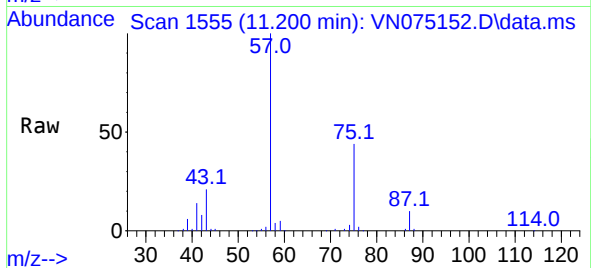
PB148771ZHE#04

Tgt Ion: 76 Resp: 3943

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 42.431 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN075152.D

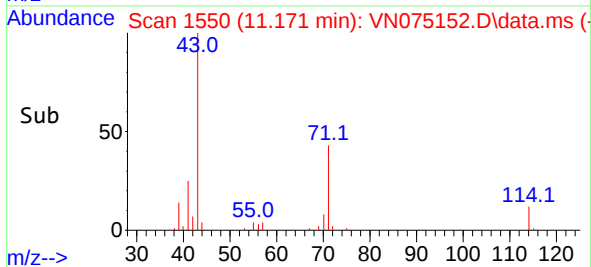
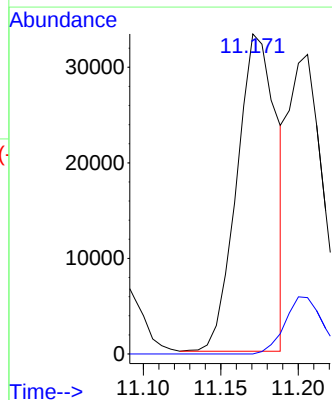
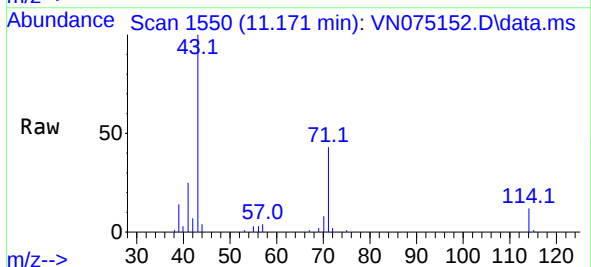
Acq: 03 Nov 2022 18:25

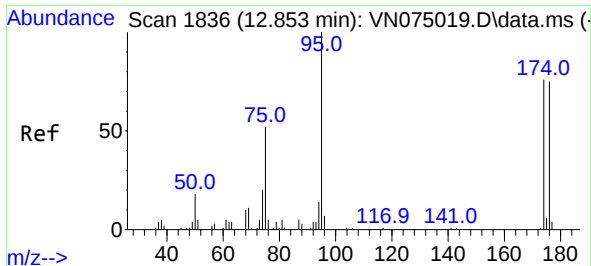
Tgt Ion: 43 Resp: 59360

Ion Ratio Lower Upper

43 100

58 0.0 29.6 88.8#

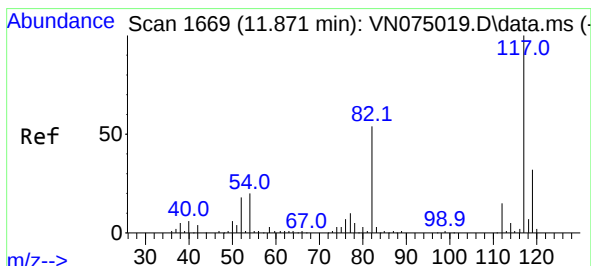
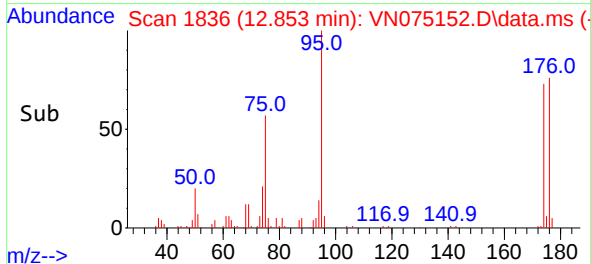
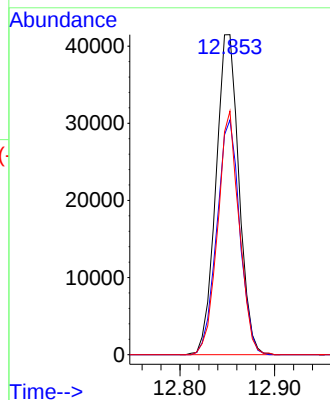
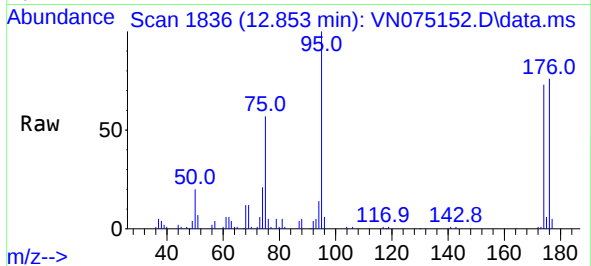




#62  
4-Bromofluorobenzene  
Concen: 47.405 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

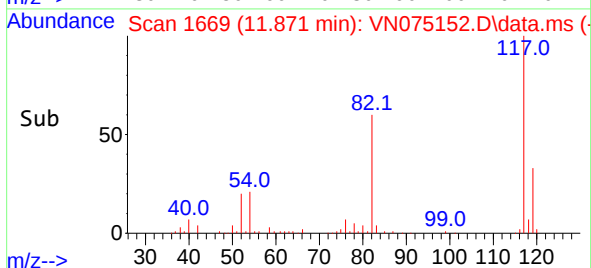
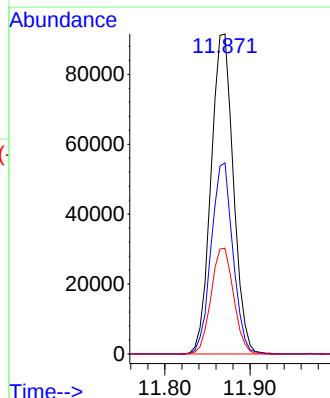
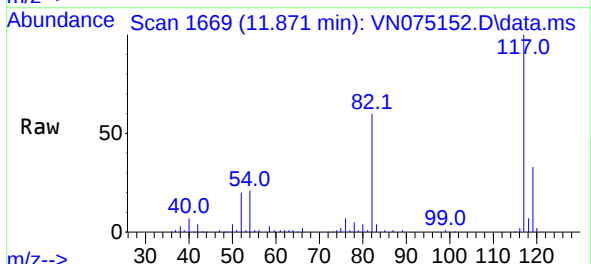
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

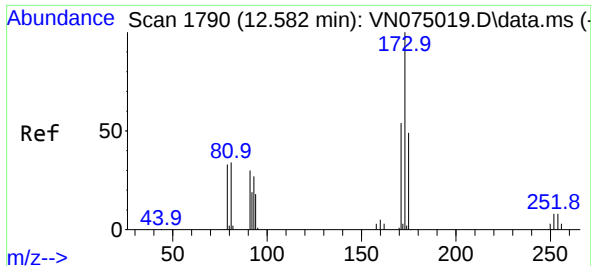
Tgt Ion: 95 Resp: 70074  
Ion Ratio Lower Upper  
95 100  
174 72.9 0.0 147.4  
176 70.9 0.0 142.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. -0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion: 117 Resp: 166953  
Ion Ratio Lower Upper  
117 100  
82 59.7 43.1 64.7  
119 33.1 25.5 38.3

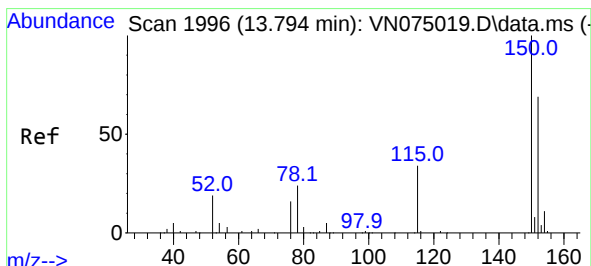
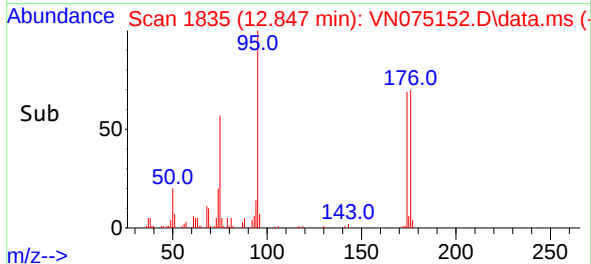
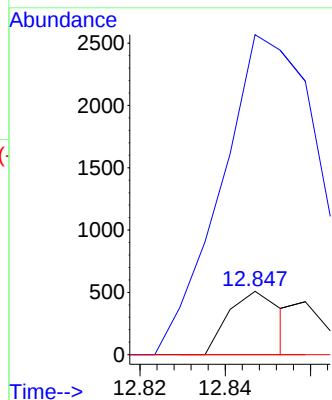
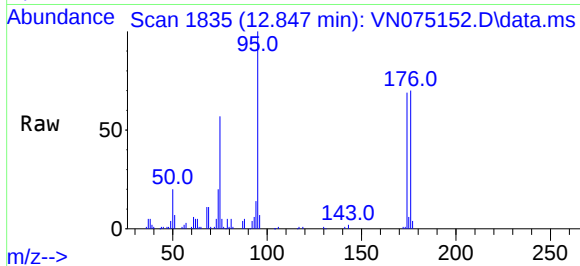




#71  
Bromoform  
Concen: 0.444 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.265 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

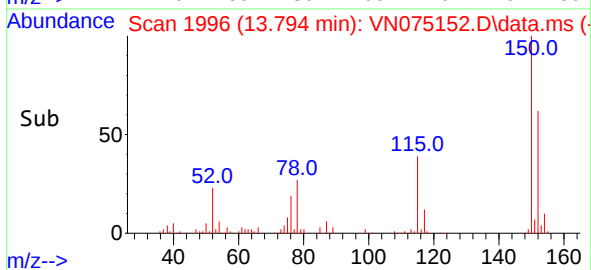
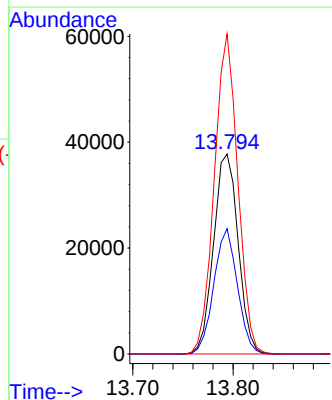
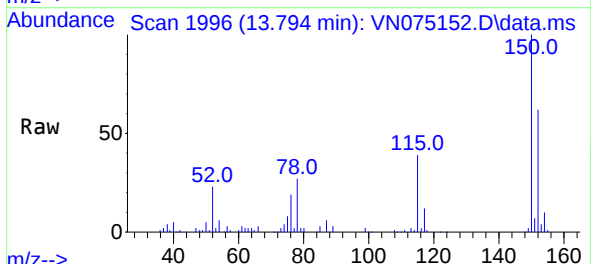
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MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

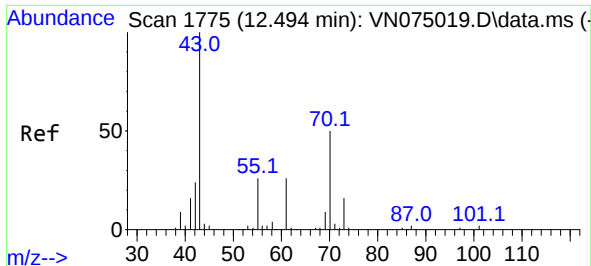
Tgt Ion:173 Resp: 439  
Ion Ratio Lower Upper  
173 100  
175 812.1 24.6 74.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

Tgt Ion:152 Resp: 64370  
Ion Ratio Lower Upper  
152 100  
115 60.1 30.2 90.6  
150 152.5 0.0 348.4

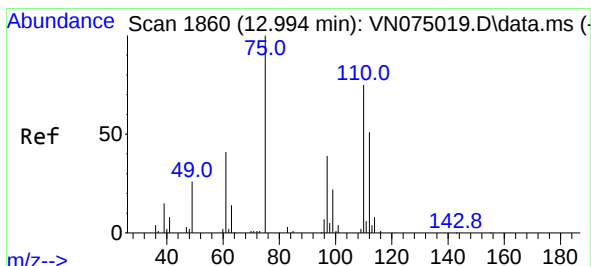
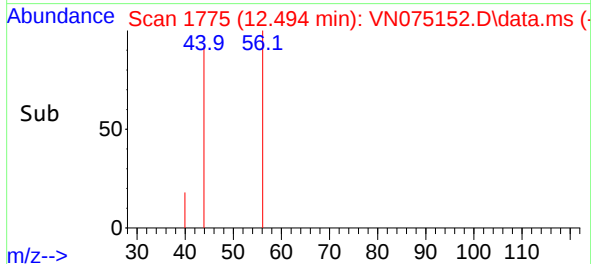
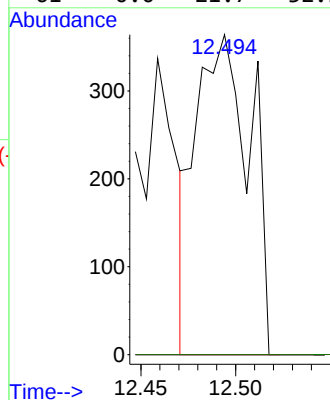
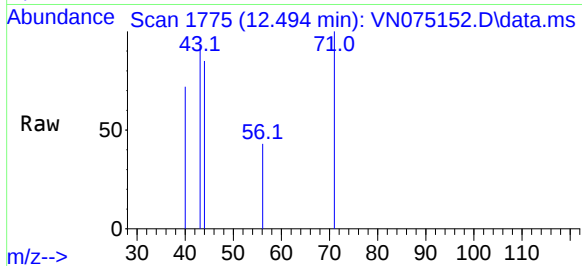




#74  
N-amy1 acetate  
Concen: 0.376 ug/l  
RT: 12.494 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

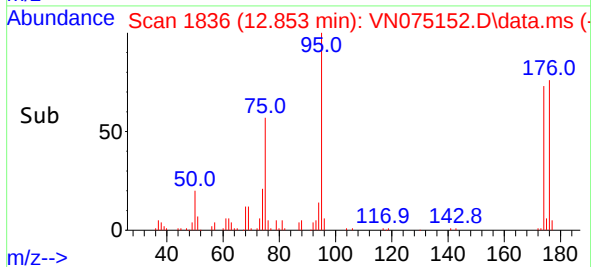
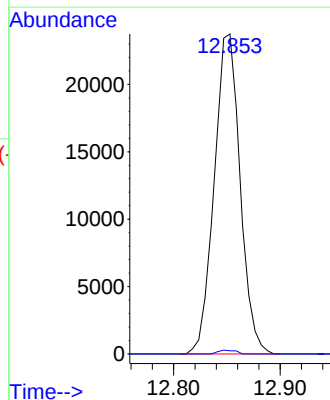
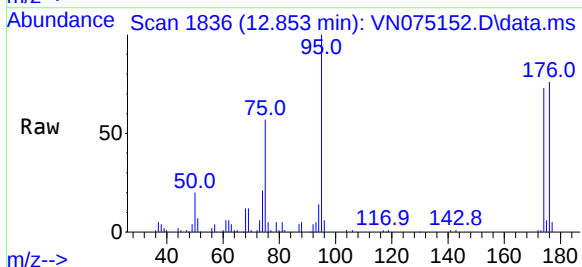
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148771ZHE#04

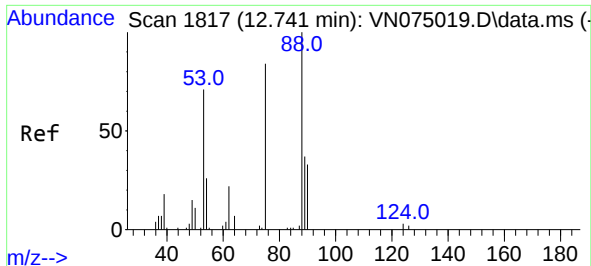
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 719   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 39.8 59.8#  |
| 55 0.0      | 19.9 29.9#  |
| 61 0.0      | 21.7 32.5#  |



#76  
1,2,3-Trichloropropane  
Concen: 29.299 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075152.D  
Acq: 03 Nov 2022 18:25

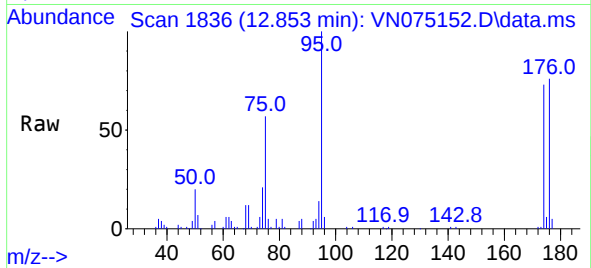
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 40044 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 0.8      | 75.6 226.8# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 75.210 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN075152.D  
 Acq: 03 Nov 2022 18:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB148771ZHE#04



Tgt Ion: 75 Resp: 40044  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.5 117.7#  
 89 0.0 37.7 56.5#

