

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112922\  
 Data File : VN075479.D  
 Acq On : 29 Nov 2022 16:26  
 Operator : JC\MD  
 Sample : PB149314ZHE#05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB149314ZHE#05

Quant Time: Nov 30 02:29:09 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

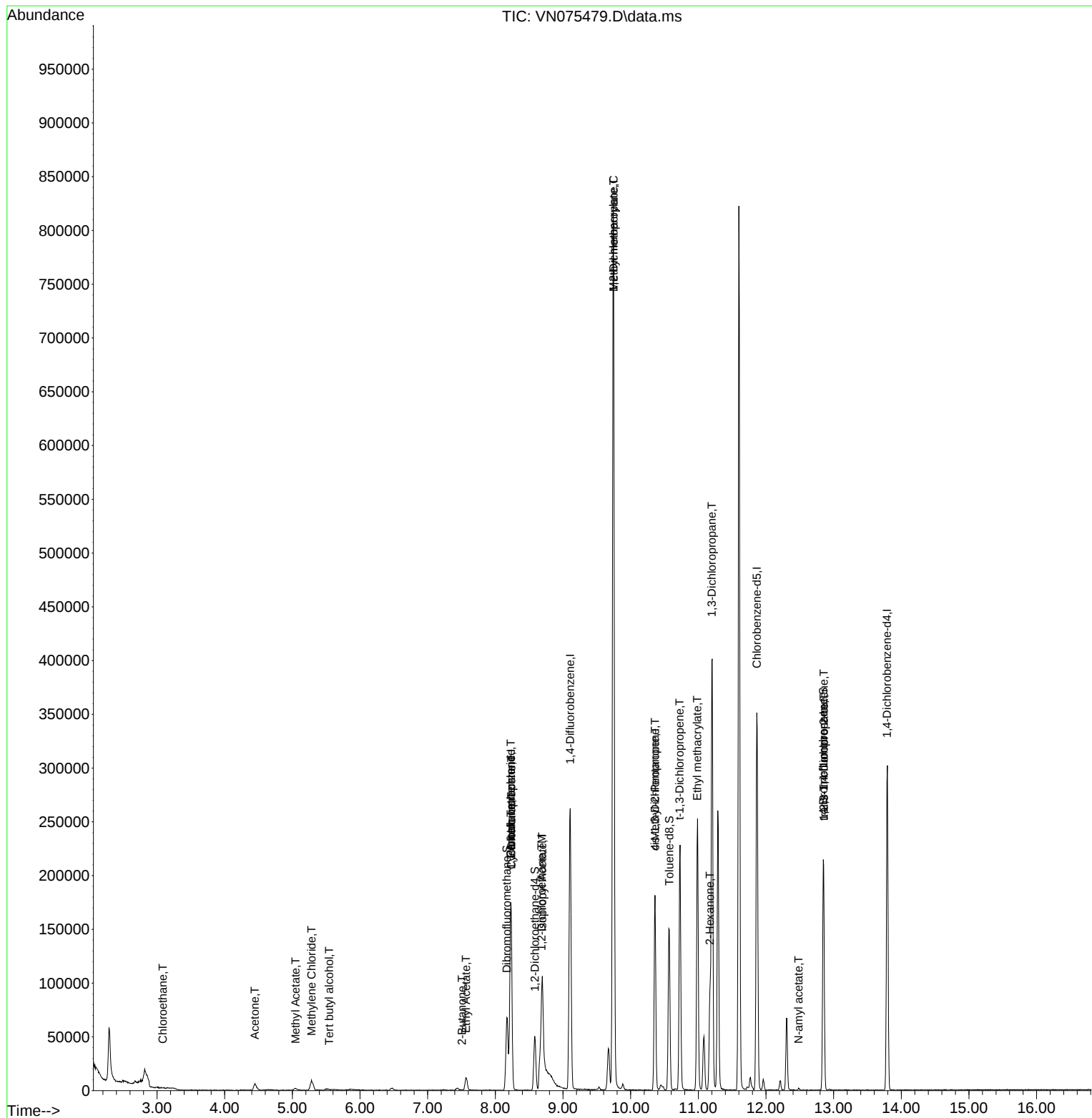
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.229  | 168   | 136006   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 243433   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 219248   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 86323    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 41155    | 56.372   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 112.740% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 50610    | 52.924   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 105.840% |          |
| 50) Toluene-d8                | 10.570 | 98    | 108586   | 50.416   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 100.840% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 74514    | 46.871   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 93.740%  |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 6) Chloroethane               | 3.083  | 64    | 351      | 0.284    | ug/l #     | 45       |
| 11) Tert butyl alcohol        | 5.541  | 59    | 181      | 0.591    | ug/l #     | 72       |
| 16) Acetone                   | 4.447  | 43    | 12280    | 18.033   | ug/l       | 93       |
| 18) Methyl Acetate            | 5.047  | 43    | 3876     | 0.988    | ug/l       | 98       |
| 20) Methylene Chloride        | 5.283  | 84    | 7516     | 4.273    | ug/l #     | 88       |
| 25) 2-Butanone                | 7.506  | 43    | 740      | 0.778    | ug/l #     | 43       |
| 31) Cyclohexane               | 8.235  | 56    | 2624     | 1.131    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.235  | 75    | 9512     | 4.561    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 7.565  | 43    | 17693    | 9.422    | ug/l       | 99       |
| 38) Carbon Tetrachloride      | 8.229  | 117   | 13619    | 5.945    | ug/l #     | 17       |
| 42) 1,2-Dichloroethane        | 8.682  | 62    | 528      | 0.247    | ug/l #     | 75       |
| 43) Isopropyl Acetate         | 8.694  | 43    | 151815   | 50.369   | ug/l #     | 76       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1107     | 0.728    | ug/l #     | 42       |
| 48) Methyl methacrylate       | 9.747  | 41    | 75043    | 53.845   | ug/l #     | 33       |
| 51) 4-Methyl-2-Pentanone      | 10.359 | 43    | 62189    | 32.395   | ug/l #     | 45       |
| 53) t-1,3-Dichloropropene     | 10.723 | 75    | 531      | 0.237    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 36134    | 14.869   | ug/l #     | 65       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 781      | 0.345    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 4405     | 1.612    | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.170 | 43    | 68191    | 47.305   | ug/l #     | 21       |
| 74) N-amyl acetate            | 12.482 | 43    | 602      | 0.310    | ug/l #     | 38       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 37299    | 22.853   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 37299    | 67.616   | ug/l #     | 10       |

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

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Quant Time: Nov 30 02:29:09 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

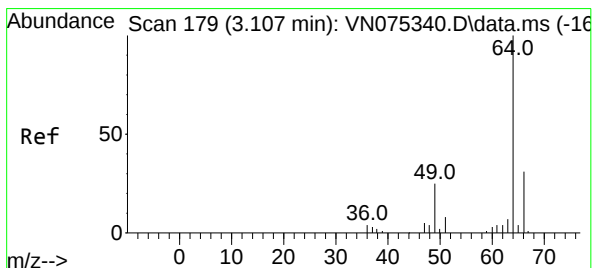
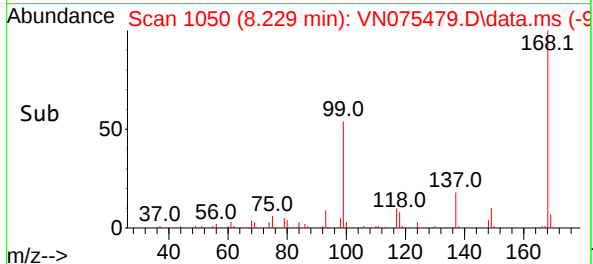
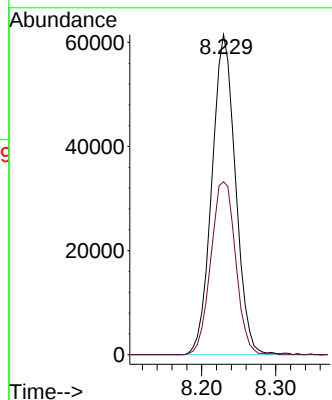
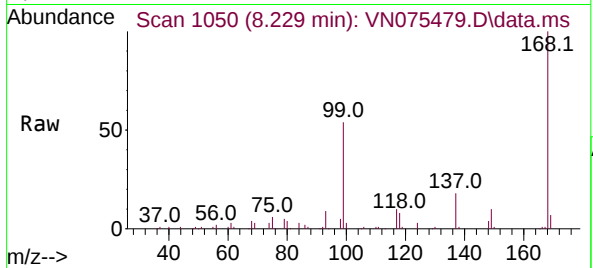




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 10  
Delta R.T. -0.001 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

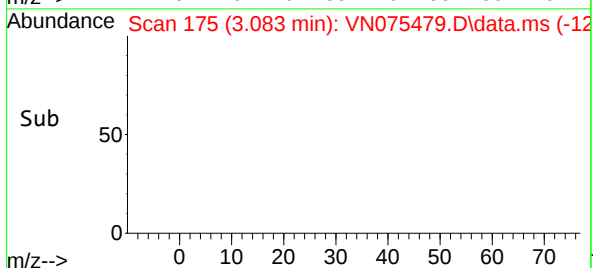
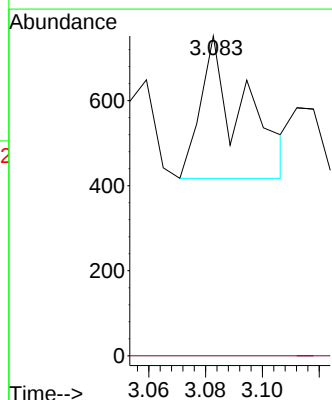
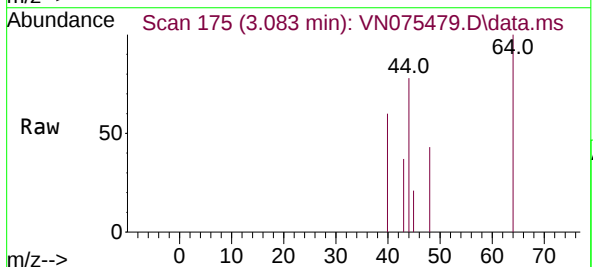
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

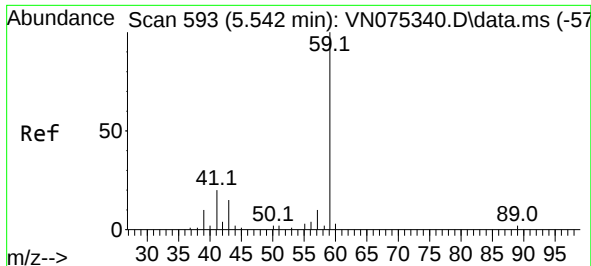
Tgt Ion:168 Resp: 136006  
Ion Ratio Lower Upper  
168 100  
99 54.0 51.6 77.4



#6  
Chloroethane  
Concen: 0.284 ug/l  
RT: 3.083 min Scan# 175  
Delta R.T. -0.024 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 64 Resp: 351  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.8 35.8#

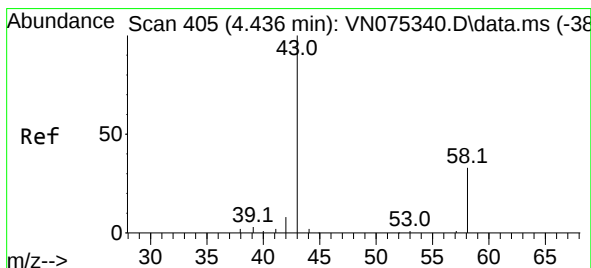
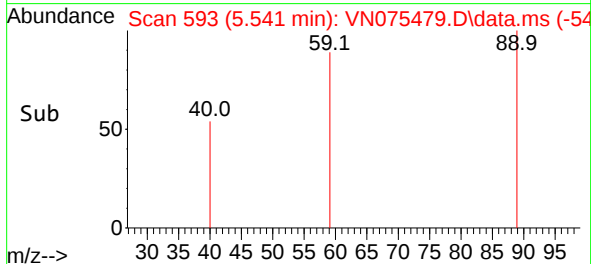
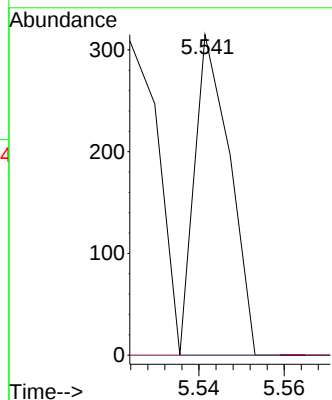
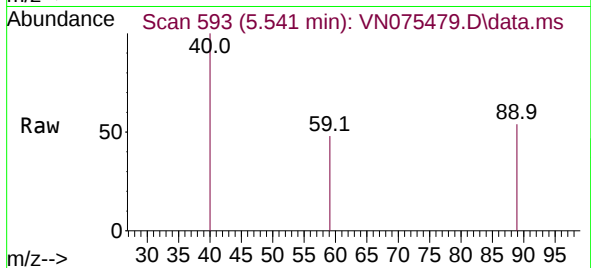




#11  
Tert butyl alcohol  
Concen: 0.591 ug/l  
RT: 5.541 min Scan# 593  
Delta R.T. -0.001 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

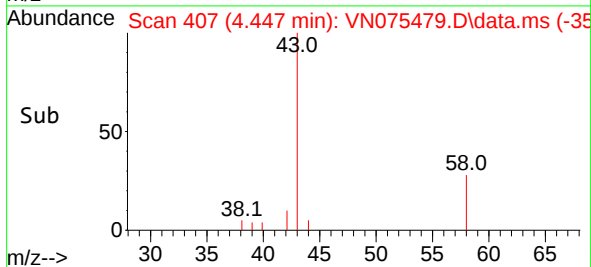
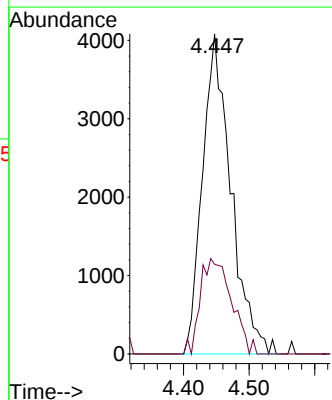
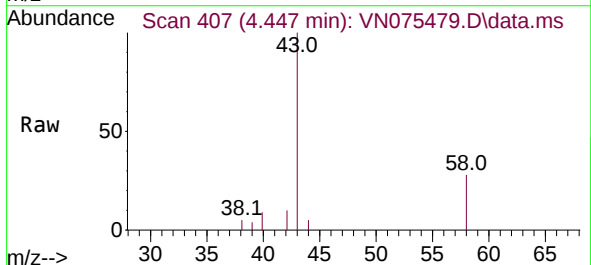
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

Tgt Ion: 59 Resp: 181  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#16  
Acetone  
Concen: 18.033 ug/l  
RT: 4.447 min Scan# 407  
Delta R.T. 0.011 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 43 Resp: 12280  
Ion Ratio Lower Upper  
43 100  
58 28.1 25.5 38.3

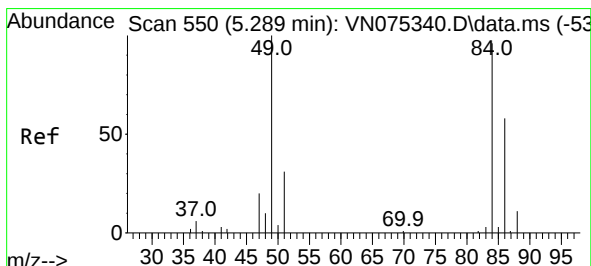
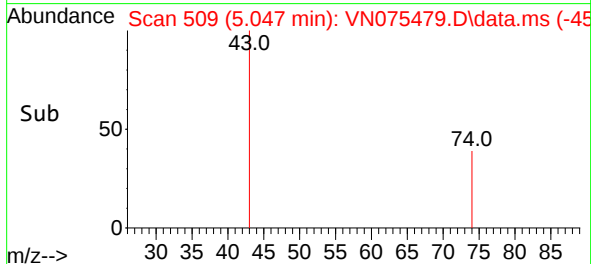
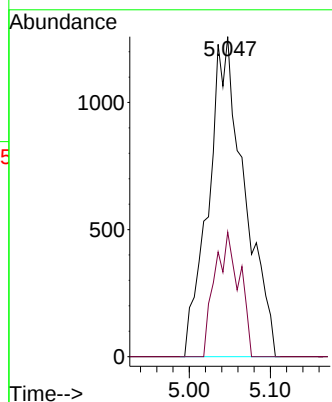
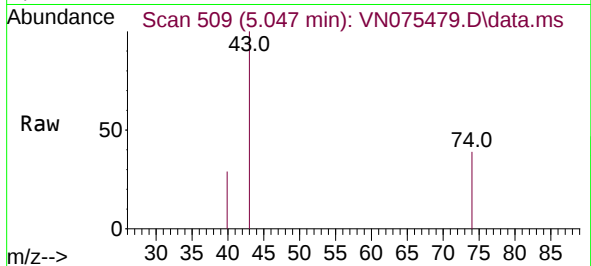




#18  
Methyl Acetate  
Concen: 0.988 ug/l  
RT: 5.047 min Scan# 509  
Delta R.T. 0.011 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

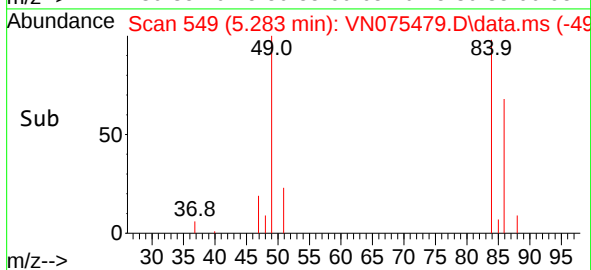
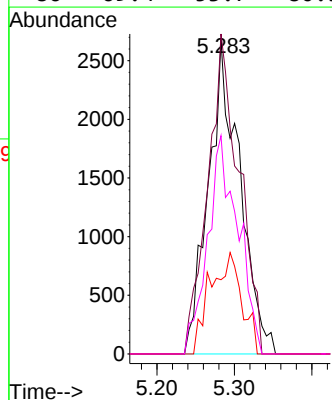
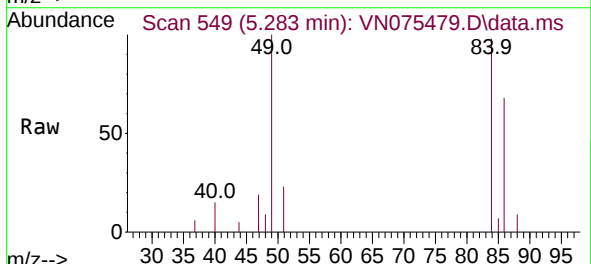
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

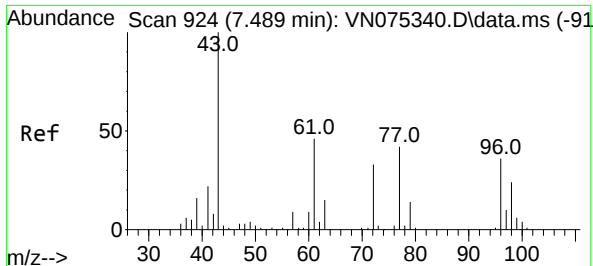
Tgt Ion: 43 Resp: 3876  
Ion Ratio Lower Upper  
43 100  
74 26.5 22.0 33.0



#20  
Methylene Chloride  
Concen: 4.273 ug/l  
RT: 5.283 min Scan# 549  
Delta R.T. -0.006 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 84 Resp: 7516  
Ion Ratio Lower Upper  
84 100  
49 101.8 94.9 142.3  
51 23.6 26.8 40.2#  
86 69.4 53.7 80.5





#25

2-Butanone

Concen: 0.778 ug/l

RT: 7.506 min Scan# 91

Delta R.T. 0.017 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

Instrument :

MSVOA\_N

ClientSampleId :

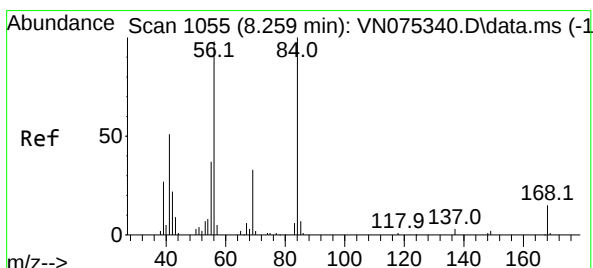
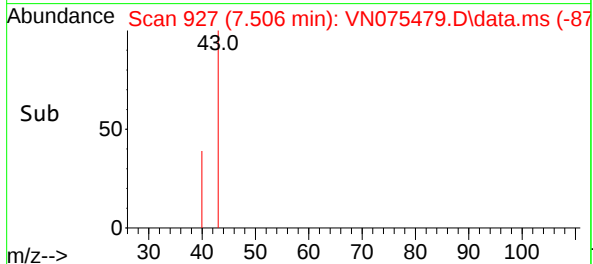
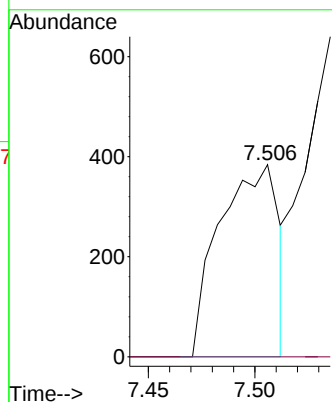
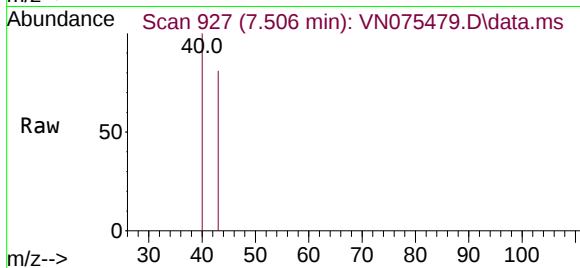
PB149314ZHE#05

Tgt Ion: 43 Resp: 740

Ion Ratio Lower Upper

43 100

72 0.0 25.5 38.3#



#31

Cyclohexane

Concen: 1.131 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.024 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

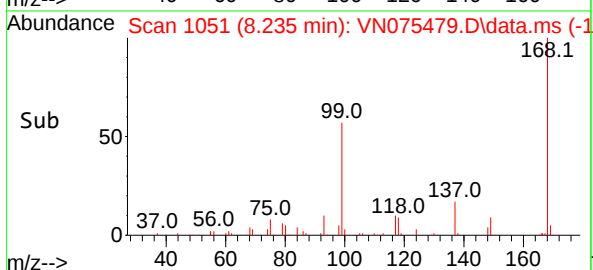
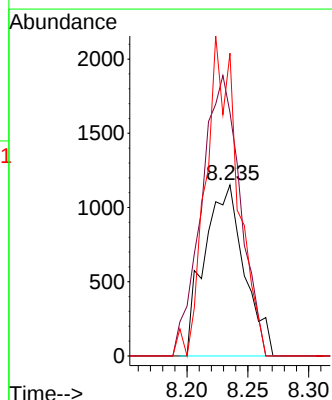
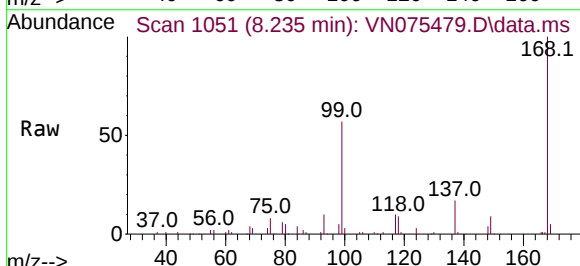
Tgt Ion: 56 Resp: 2624

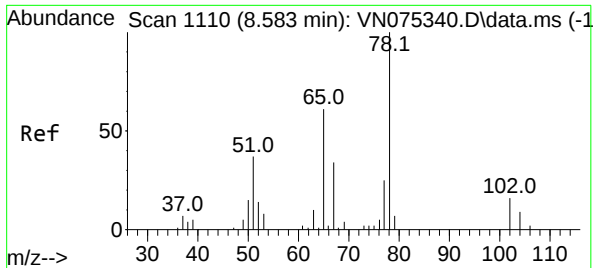
Ion Ratio Lower Upper

56 100

69 142.4 25.2 37.8#

84 177.1 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 56.372 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.001 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

Instrument :

MSVOA\_N

ClientSampleId :

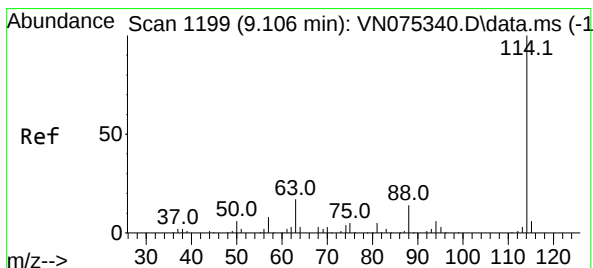
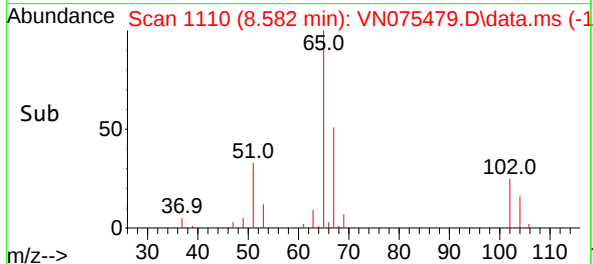
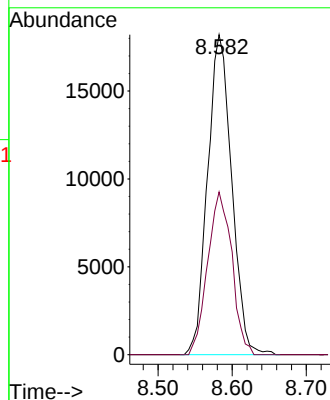
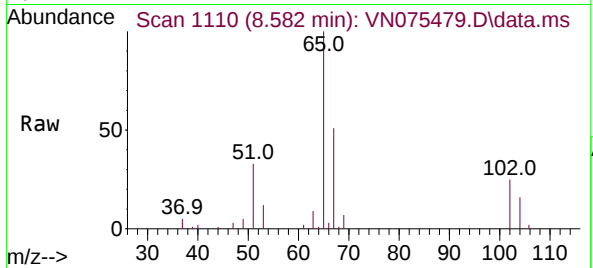
PB149314ZHE#05

Tgt Ion: 65 Resp: 41155

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: VN075479.D

Acq: 29 Nov 2022 16:26

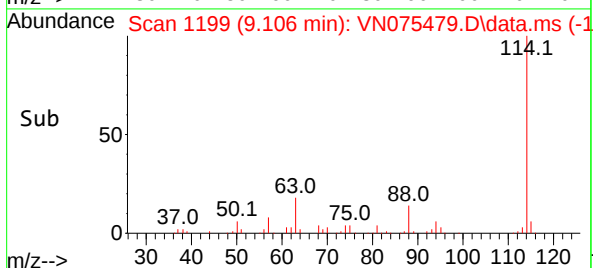
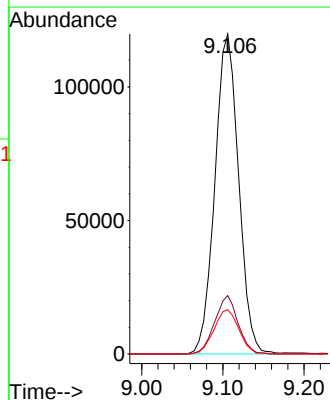
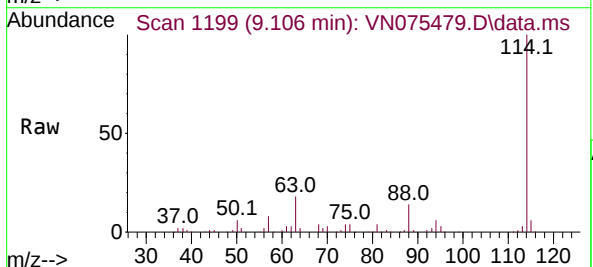
Tgt Ion:114 Resp: 243433

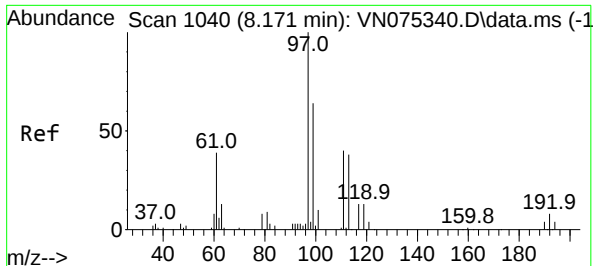
Ion Ratio Lower Upper

114 100

63 18.3 0.0 39.6

88 13.9 0.0 29.0





#35

Dibromofluoromethane

Concen: 52.924 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

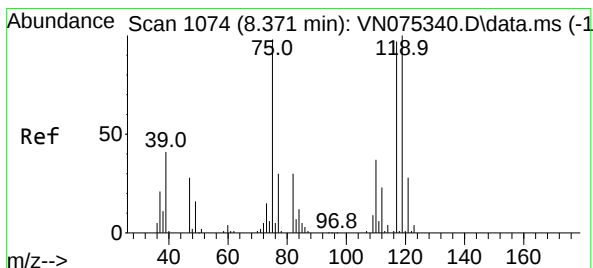
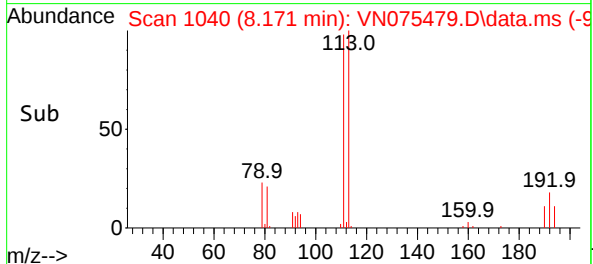
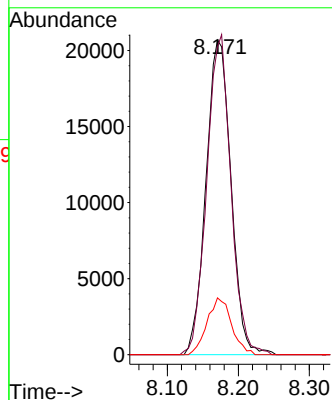
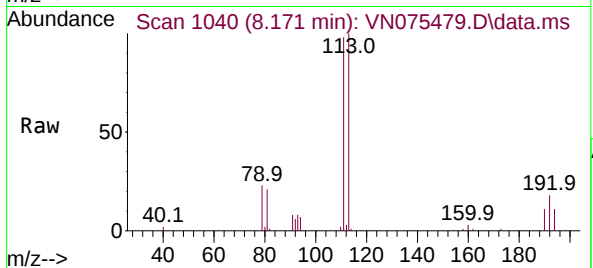
Instrument :

MSVOA\_N

ClientSampleId :

PB149314ZHE#05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 50610 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 97.9  | 80.5  | 120.7 |
| 192      | 17.7  | 13.2  | 19.8  |



#36

1,1-Dichloropropene

Concen: 4.561 ug/l

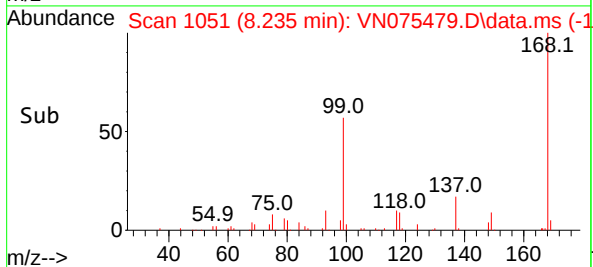
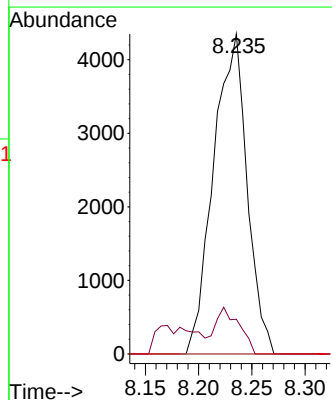
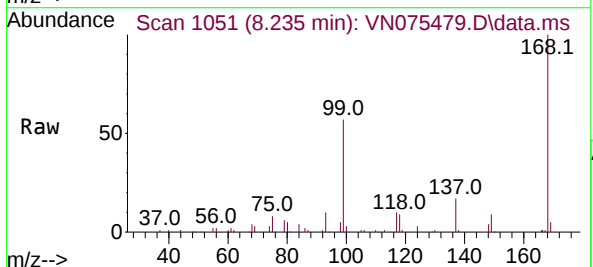
RT: 8.235 min Scan# 1051

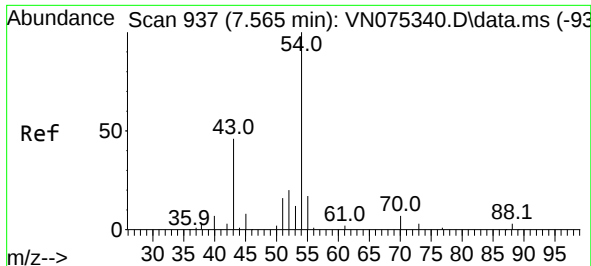
Delta R.T. -0.136 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 9512  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.5  | 17.8  | 53.3# |
| 77       | 0.0   | 24.6  | 37.0# |

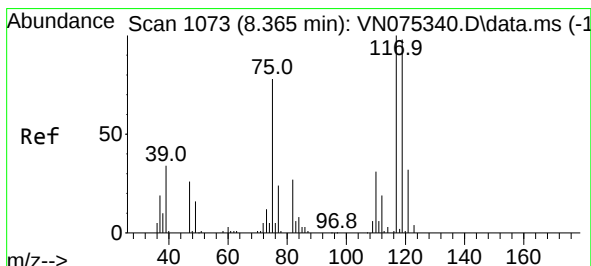
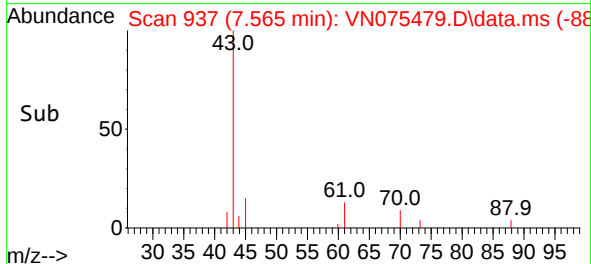
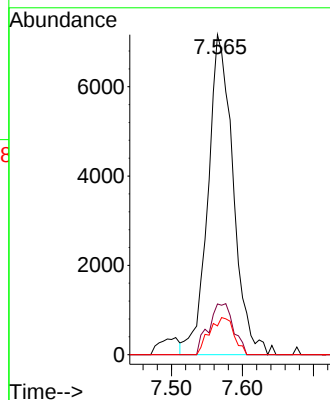
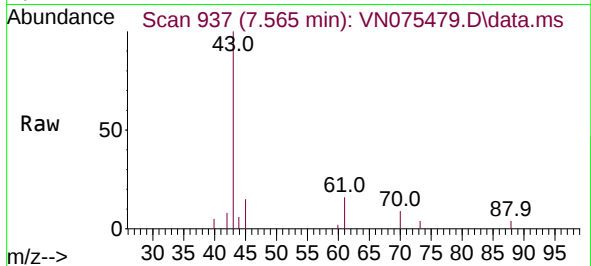




#37  
Ethyl Acetate  
Concen: 9.422 ug/l  
RT: 7.565 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

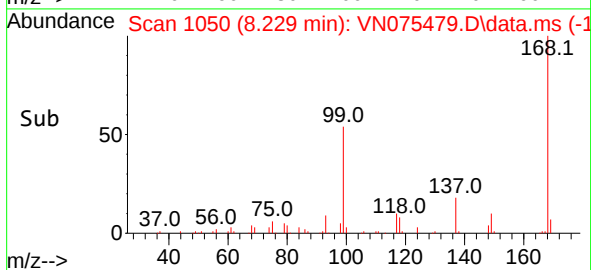
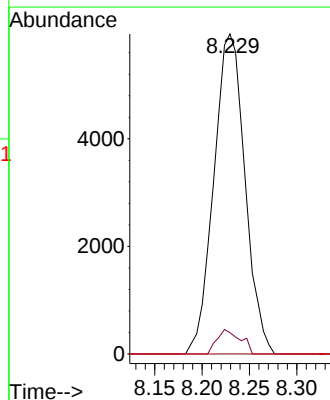
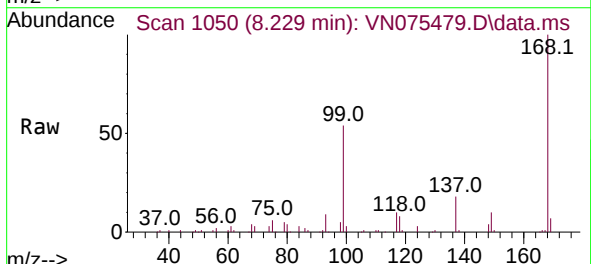
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

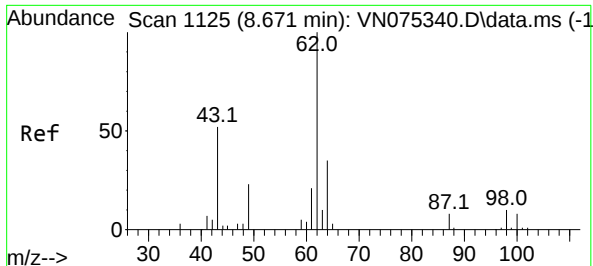
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 17693 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 15.6  | 12.2  | 18.4  |
| 70       | 11.2  | 9.4   | 14.2  |



#38  
Carbon Tetrachloride  
Concen: 5.945 ug/l  
RT: 8.229 min Scan# 1050  
Delta R.T. -0.136 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13619  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.6   | 76.7  | 115.1# |
| 121      | 0.0   | 23.9  | 35.9#  |





#42

1,2-Dichloroethane

Concen: 0.247 ug/l

RT: 8.682 min Scan# 1127

Delta R.T. 0.011 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

Instrument :

MSVOA\_N

ClientSampleId :

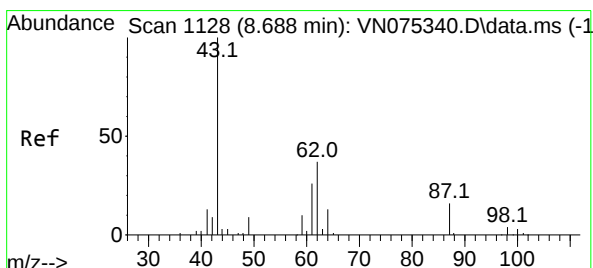
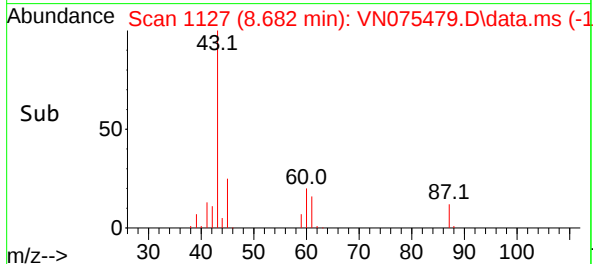
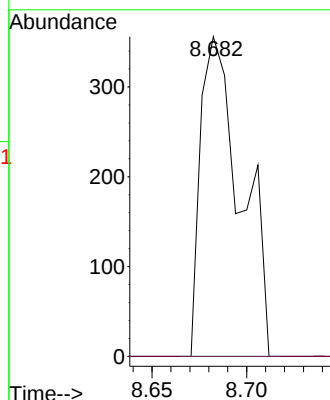
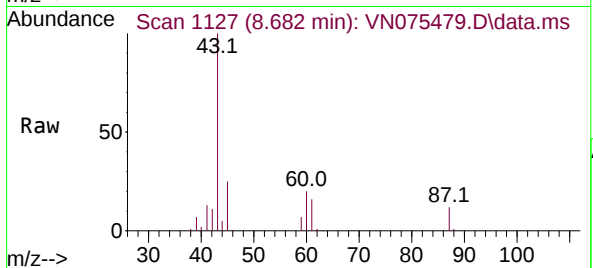
PB149314ZHE#05

Tgt Ion: 62 Resp: 528

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 50.369 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

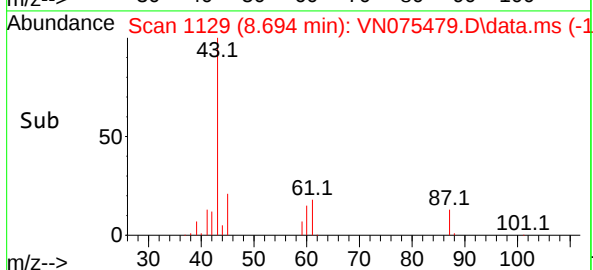
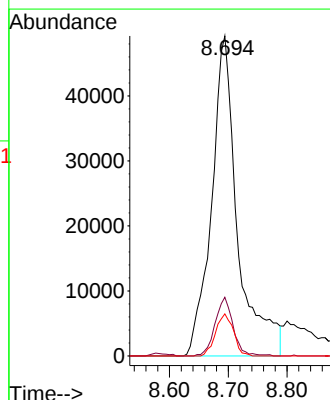
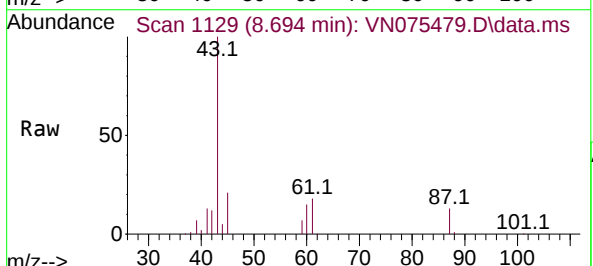
Tgt Ion: 43 Resp: 151815

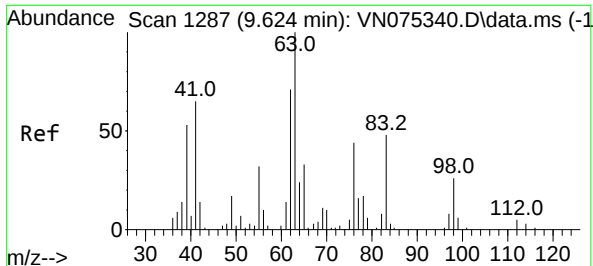
Ion Ratio Lower Upper

43 100

61 12.7 22.4 33.6#

87 9.0 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.728 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

Instrument :

MSVOA\_N

ClientSampleId :

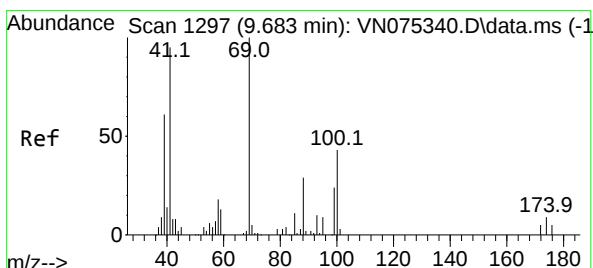
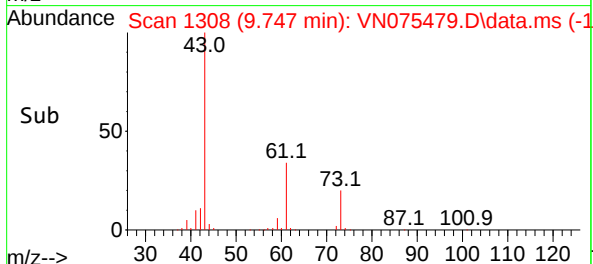
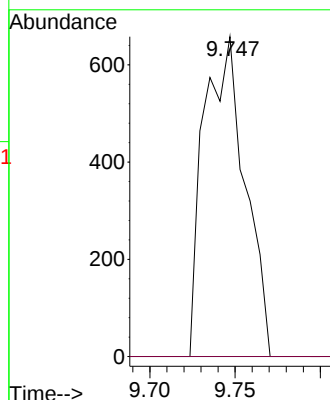
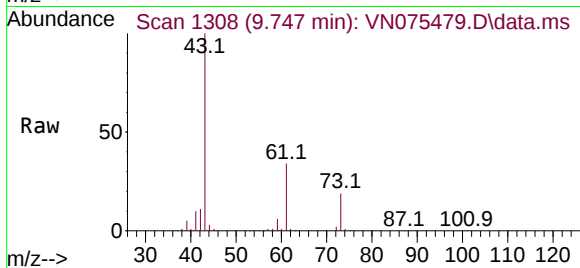
PB149314ZHE#05

Tgt Ion: 63 Resp: 1107

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 53.845 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.064 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

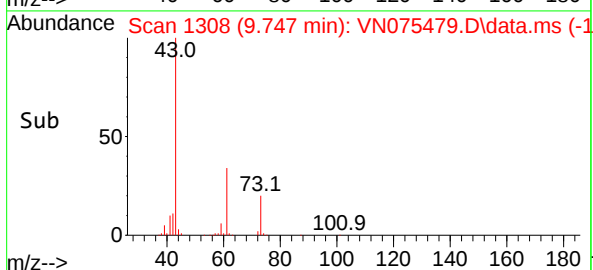
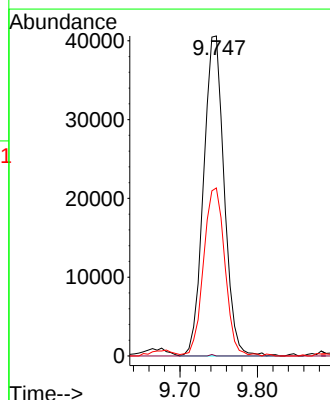
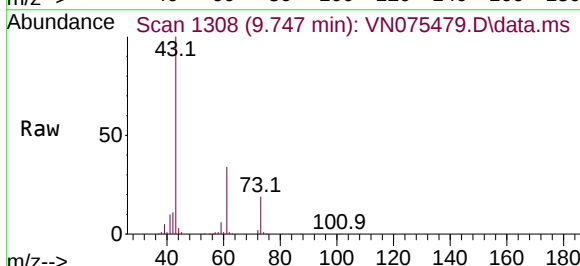
Tgt Ion: 41 Resp: 75043

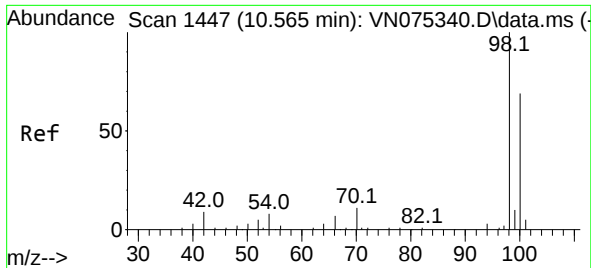
Ion Ratio Lower Upper

41 100

69 0.1 80.2 120.2#

39 54.2 56.2 84.2#

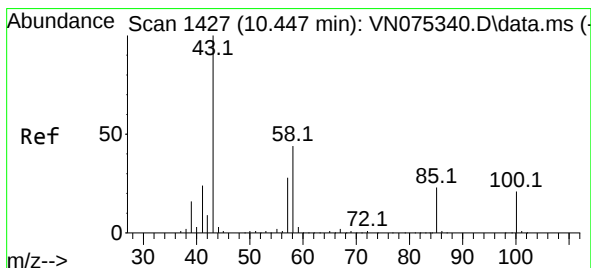
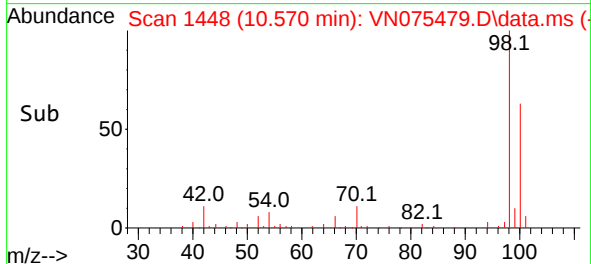
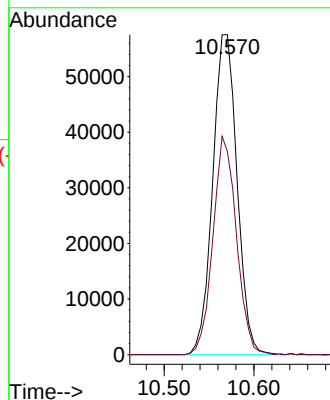
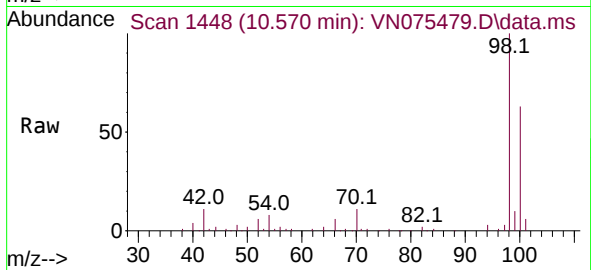




#50  
Toluene-d8  
Concen: 50.416 ug/l  
RT: 10.570 min Scan# 1412  
Delta R.T. 0.005 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

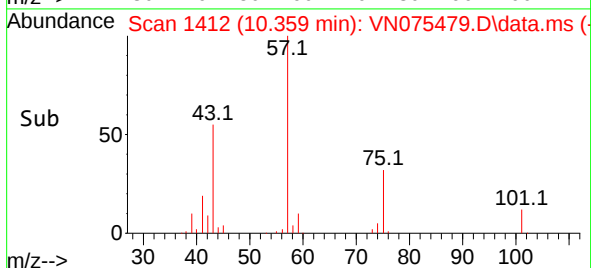
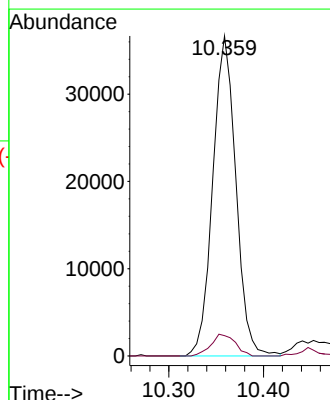
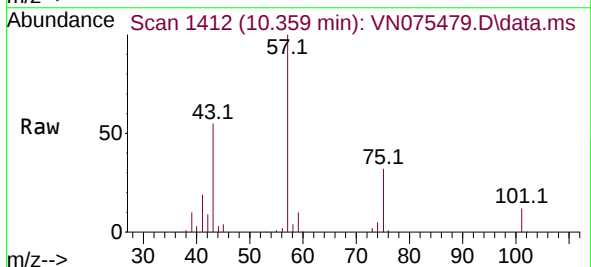
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

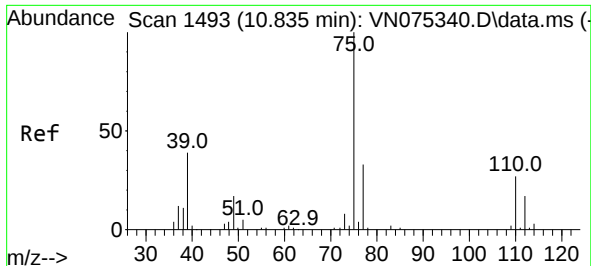
Tgt Ion: 98 Resp: 108586  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 32.395 ug/l  
RT: 10.359 min Scan# 1412  
Delta R.T. -0.088 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 43 Resp: 62189  
Ion Ratio Lower Upper  
43 100  
58 7.1 33.6 50.4#

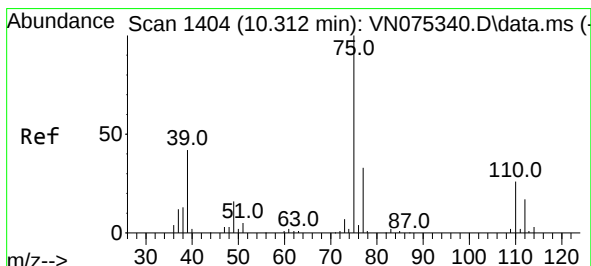
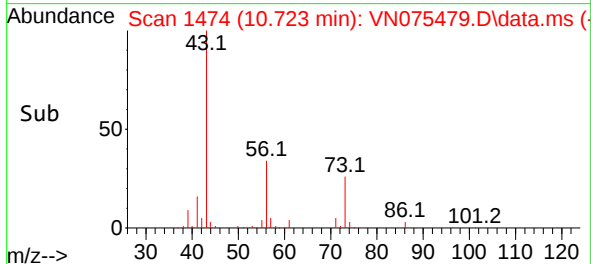
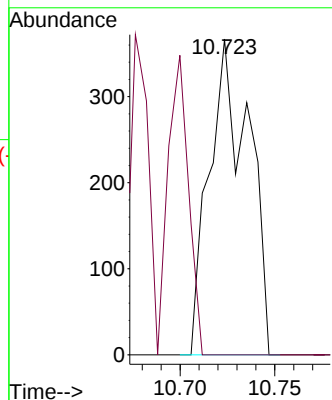
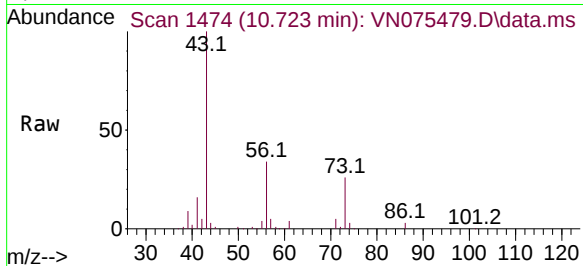




#53  
t-1,3-Dichloropropene  
Concen: 0.237 ug/l  
RT: 10.723 min Scan# 1412  
Delta R.T. -0.112 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

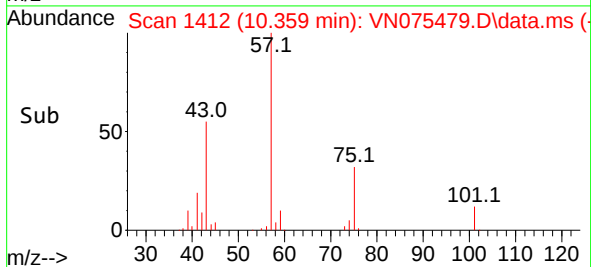
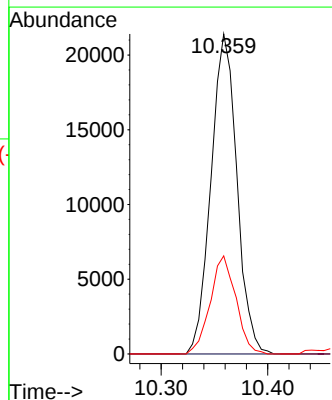
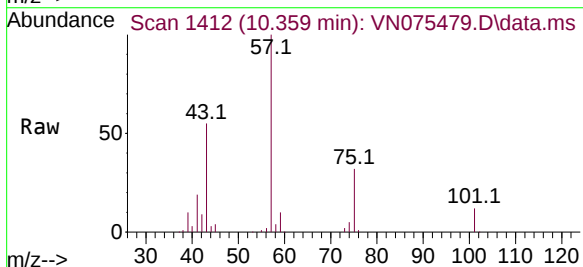
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

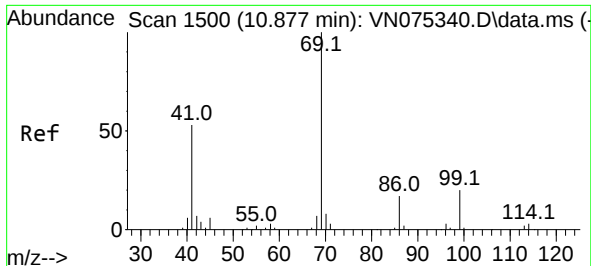
Tgt Ion: 75 Resp: 531  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.2#



#54  
cis-1,3-Dichloropropene  
Concen: 14.869 ug/l  
RT: 10.359 min Scan# 1412  
Delta R.T. 0.047 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 75 Resp: 36134  
Ion Ratio Lower Upper  
75 100  
77 0.0 23.7 35.5#  
39 30.6 35.8 53.6#

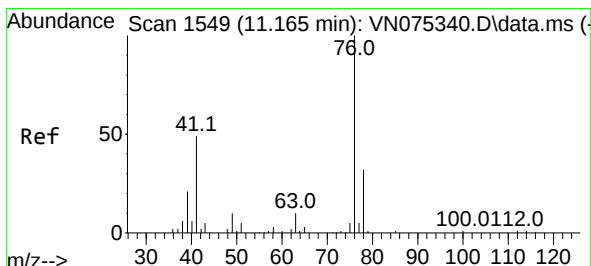
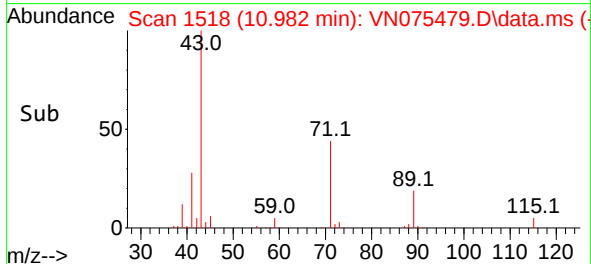
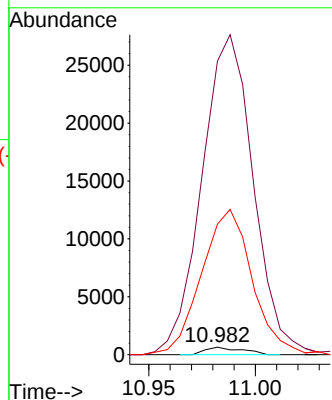
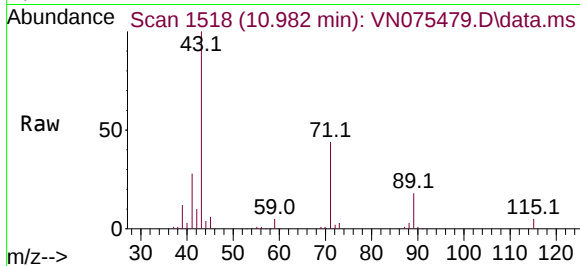




#56  
Ethyl methacrylate  
Concen: 0.345 ug/l  
RT: 10.982 min Scan# 11  
Delta R.T. 0.105 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

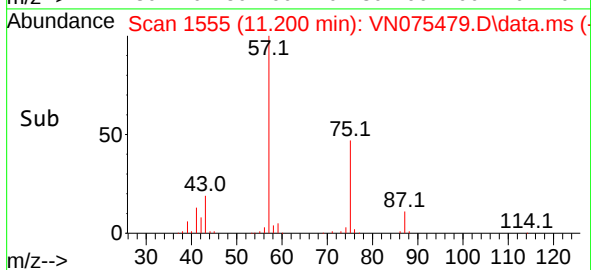
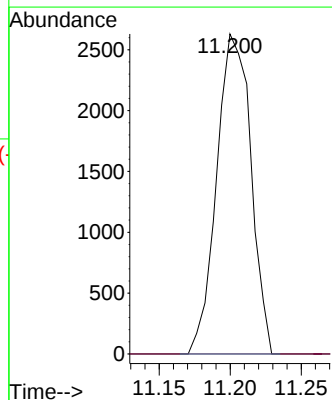
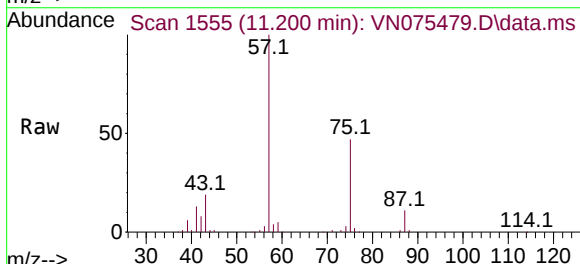
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

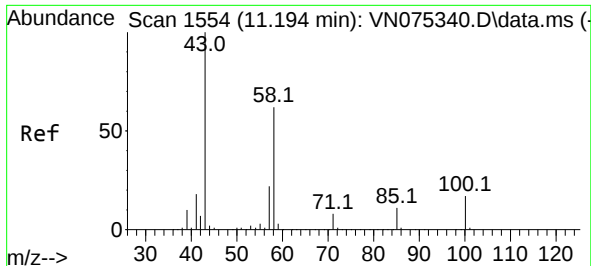
Tgt Ion: 69 Resp: 781  
Ion Ratio Lower Upper  
69 100  
41 5986.2 45.6 68.4#  
39 2667.0 28.5 42.7#



#57  
1,3-Dichloropropane  
Concen: 1.612 ug/l  
RT: 11.200 min Scan# 1555  
Delta R.T. 0.035 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 76 Resp: 4405  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

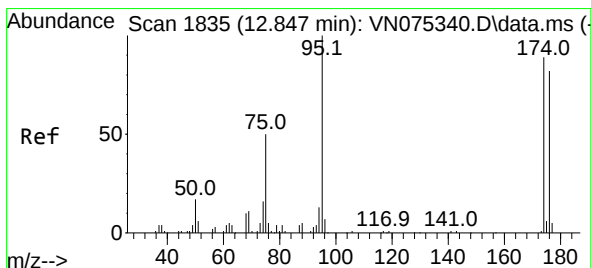
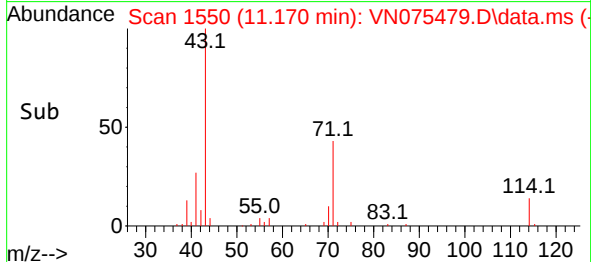
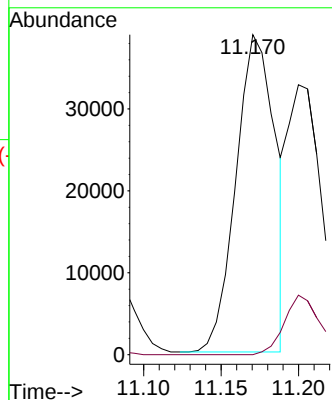
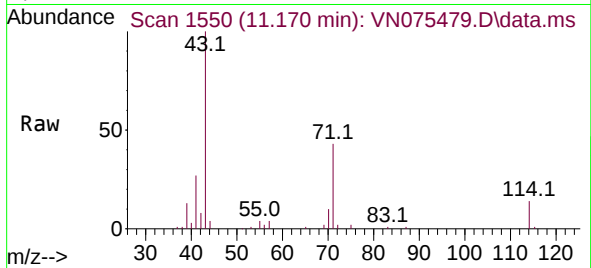




#59  
2-Hexanone  
Concen: 47.305 ug/l  
RT: 11.170 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

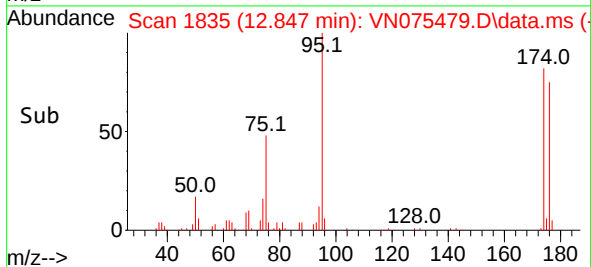
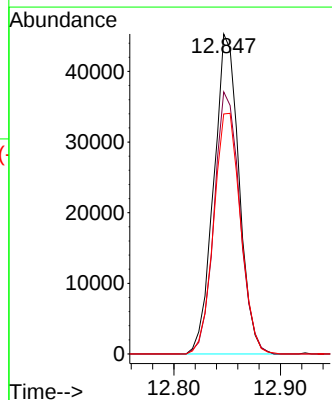
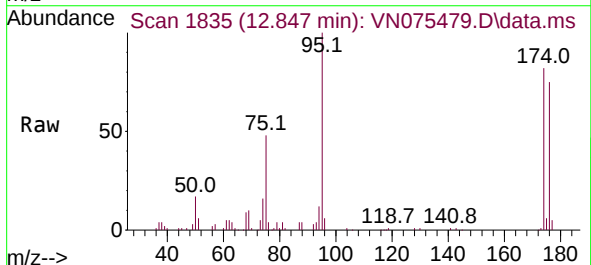
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

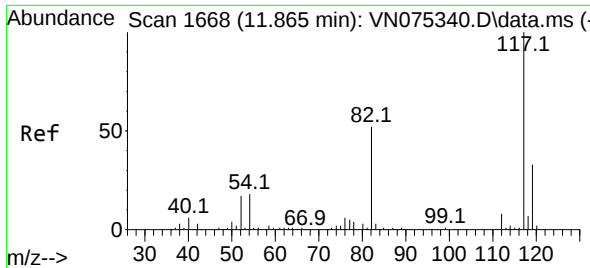
Tgt Ion: 43 Resp: 68191  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 46.871 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.000 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion: 95 Resp: 74514  
Ion Ratio Lower Upper  
95 100  
174 83.0 0.0 147.4  
176 79.9 0.0 142.2

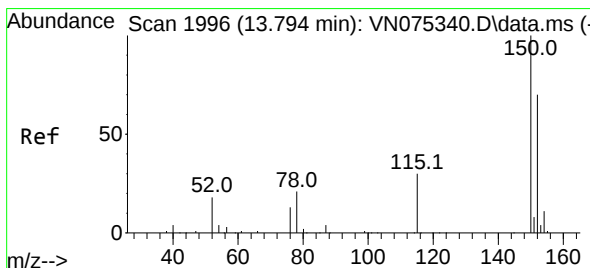
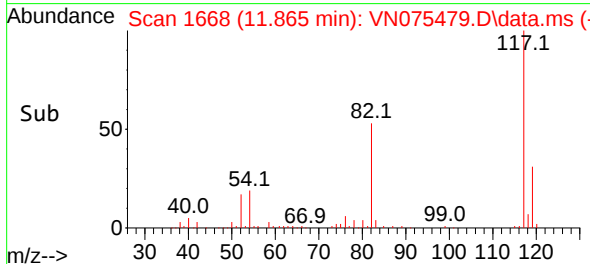
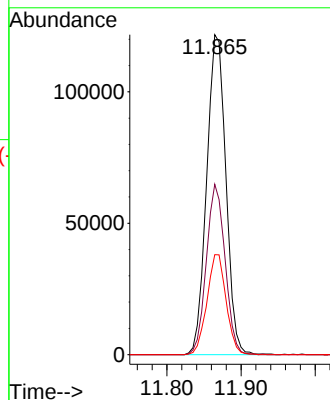
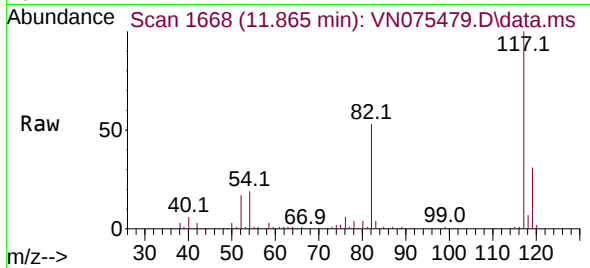




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

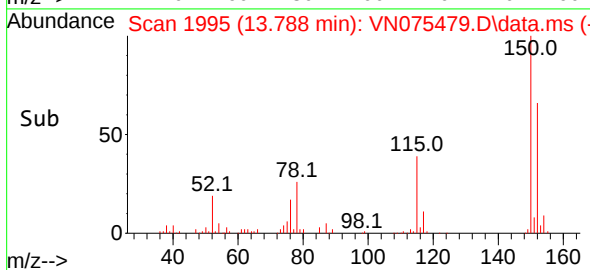
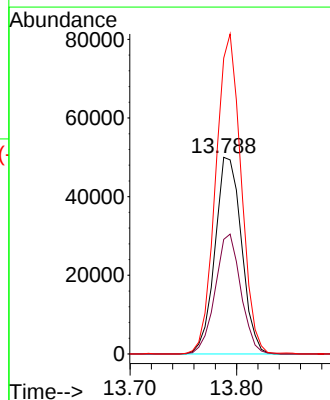
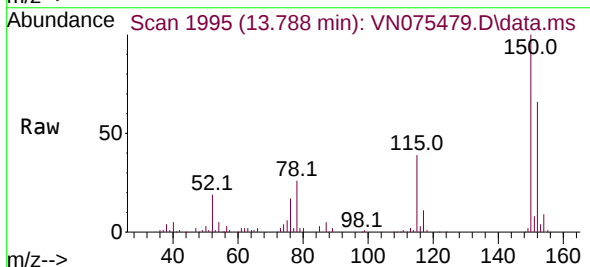
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149314ZHE#05

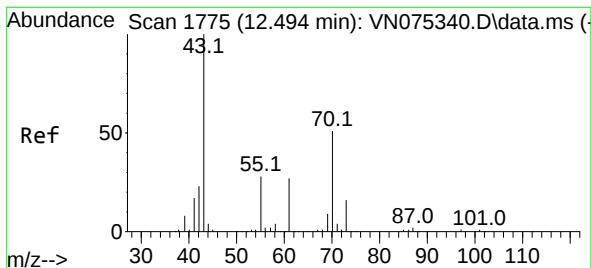
Tgt Ion:117 Resp: 219248  
Ion Ratio Lower Upper  
117 100  
82 53.3 43.1 64.7  
119 31.2 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 1995  
Delta R.T. -0.006 min  
Lab File: VN075479.D  
Acq: 29 Nov 2022 16:26

Tgt Ion:152 Resp: 86323  
Ion Ratio Lower Upper  
152 100  
115 59.0 30.2 90.6  
150 156.2 0.0 348.4





#74

N-amy1 acetate

Concen: 0.310 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN075479.D

Acq: 29 Nov 2022 16:26

Instrument :

MSVOA\_N

ClientSampleId :

PB149314ZHE#05

Tgt Ion: 43 Resp: 602

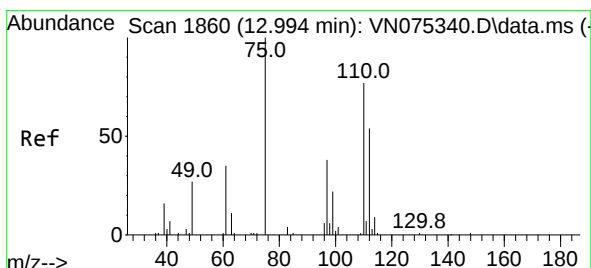
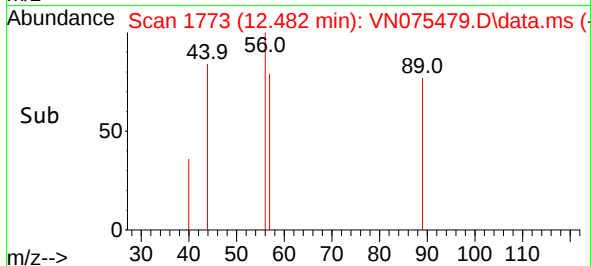
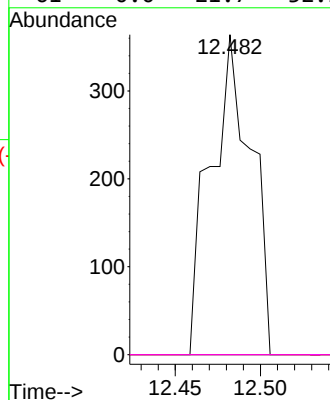
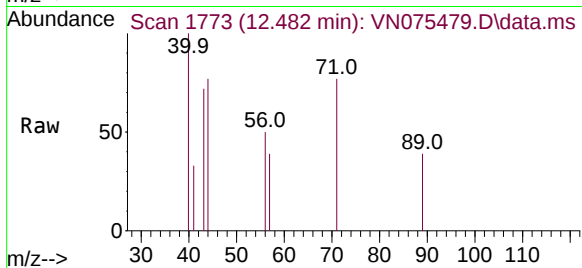
Ion Ratio Lower Upper

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: 22.853 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN075479.D

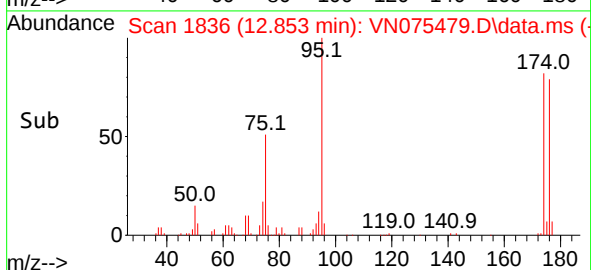
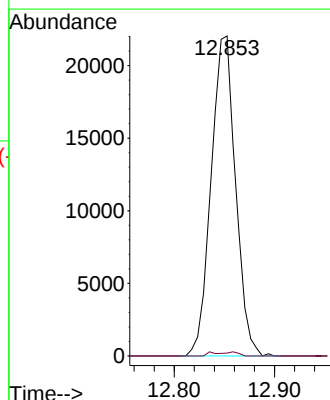
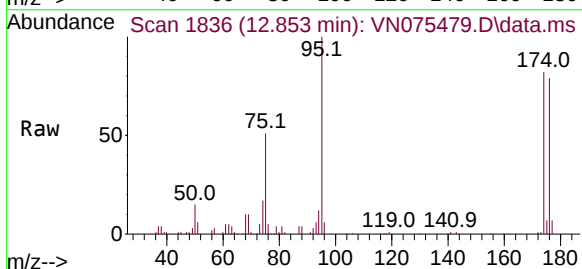
Acq: 29 Nov 2022 16:26

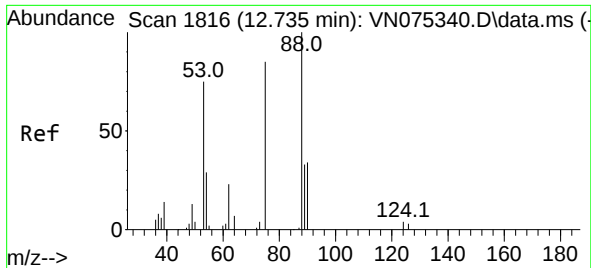
Tgt Ion: 75 Resp: 37299

Ion Ratio Lower Upper

75 100

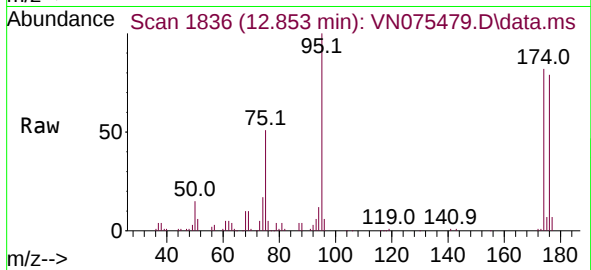
77 0.6 75.6 226.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 67.616 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN075479.D  
 Acq: 29 Nov 2022 16:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB149314ZHE#05



Tgt Ion: 75 Resp: 37299  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.5 117.7#  
 89 0.0 37.7 56.5#

