

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120522\  
 Data File : VN075571.D  
 Acq On : 05 Dec 2022 20:06  
 Operator : JC\MD  
 Sample : PB149407ZHE#04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB149407ZHE#04

Quant Time: Dec 06 03:27:00 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

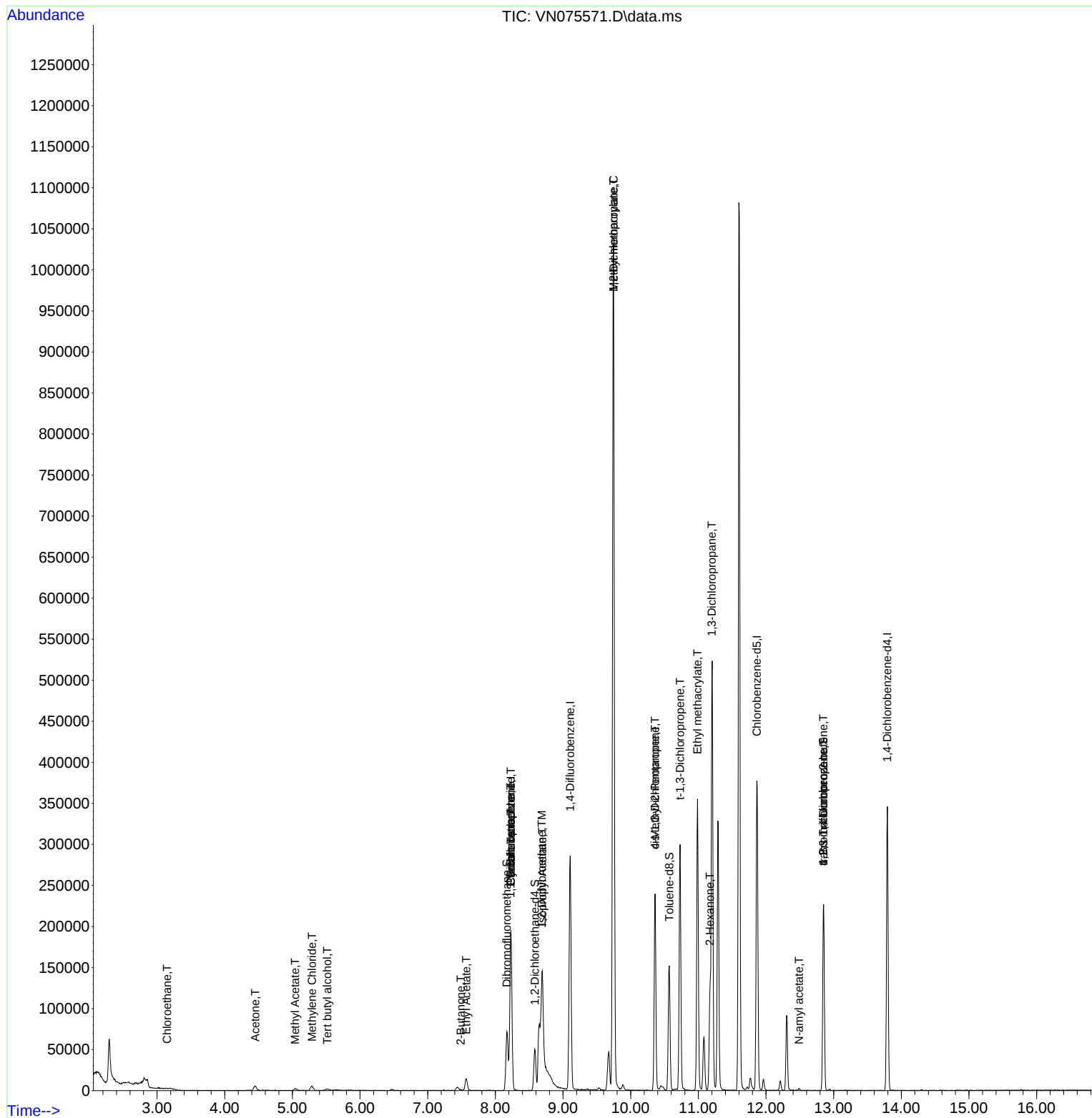
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.229          | 168  | 148873              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 263759              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.864         | 117  | 234930              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 98752               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 40949               | 51.242 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 102.480% |        |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 52715               | 50.877 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.760% |        |        |          |
| 50) Toluene-d8                | 10.570         | 98   | 110096              | 47.177 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 94.360%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 76370               | 44.337 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 88.680%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 6) Chloroethane               | 3.147          | 64   | 426                 | 0.315  | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.518          | 59   | 1809                | 5.392  | ug/l # | 72       |
| 16) Acetone                   | 4.453          | 43   | 11199               | 15.024 | ug/l # | 82       |
| 18) Methyl Acetate            | 5.041          | 43   | 4645                | 1.208  | ug/l # | 86       |
| 20) Methylene Chloride        | 5.288          | 84   | 4487                | 1.734  | ug/l # | 81       |
| 25) 2-Butanone                | 7.488          | 43   | 1036                | 0.996  | ug/l # | 43       |
| 31) Cyclohexane               | 8.229          | 56   | 2739                | 1.079  | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 8.223          | 75   | 10669               | 4.722  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.571          | 43   | 21242               | 10.441 | ug/l   | 100      |
| 38) Carbon Tetrachloride      | 8.229          | 117  | 14533               | 5.855  | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.688          | 62   | 698                 | 0.301  | ug/l # | 75       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 278221              | 85.193 | ug/l # | 70       |
| 45) 1,2-Dichloropropane       | 9.747          | 63   | 1215                | 0.737  | ug/l # | 42       |
| 48) Methyl methacrylate       | 9.747          | 41   | 90387               | 59.856 | ug/l # | 33       |
| 51) 4-Methyl-2-Pentanone      | 10.359         | 43   | 85581               | 41.144 | ug/l # | 43       |
| 53) t-1,3-Dichloropropene     | 10.729         | 75   | 882                 | 0.364  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 47206               | 17.928 | ug/l # | 62       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 1138                | 0.464  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200         | 76   | 5859                | 1.979  | ug/l # | 42       |
| 59) 2-Hexanone                | 11.170         | 43   | 91943               | 58.866 | ug/l # | 21       |
| 74) N-amyl acetate            | 12.488         | 43   | 1067                | 0.481  | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 39467               | 21.138 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 39467               | 62.542 | ug/l # | 10       |
| -----                         |                |      |                     |        |        |          |

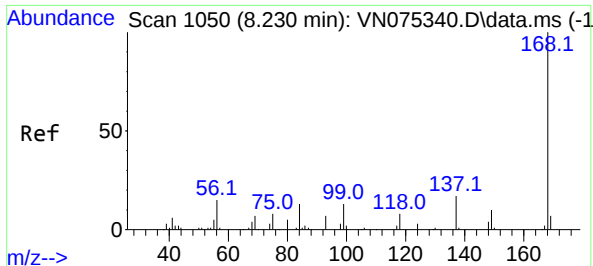
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB149407ZHE#04  
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Quant Title : SW846 8260  
QLast Update : Wed Nov 23 00:18:03 2022  
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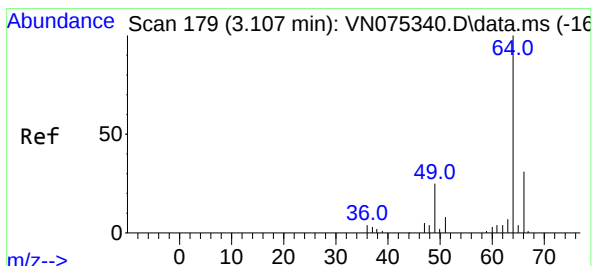
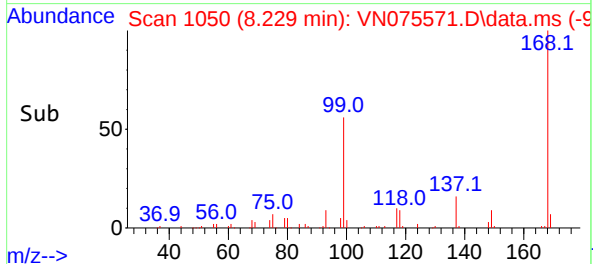
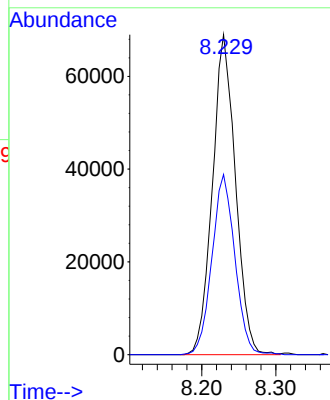
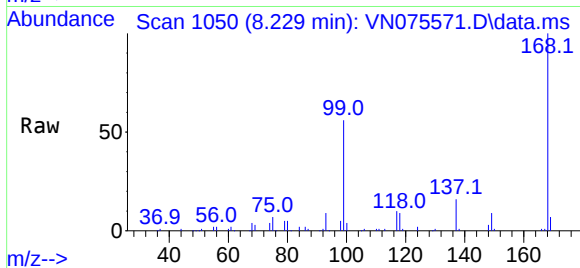




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 10  
Delta R.T. -0.001 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

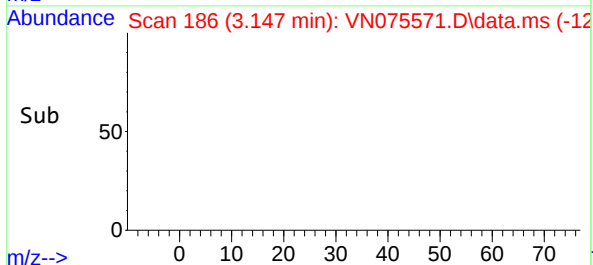
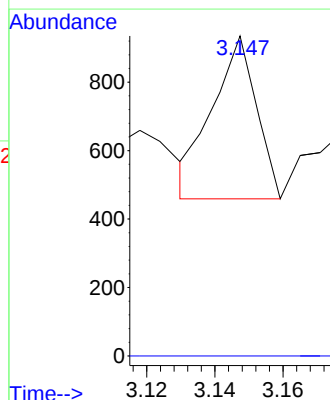
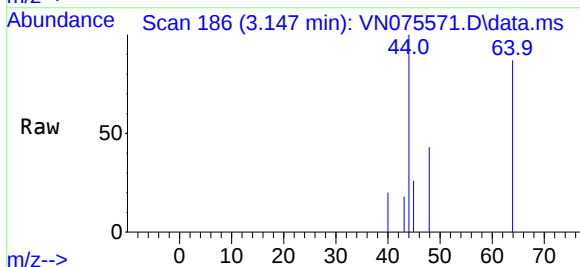
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

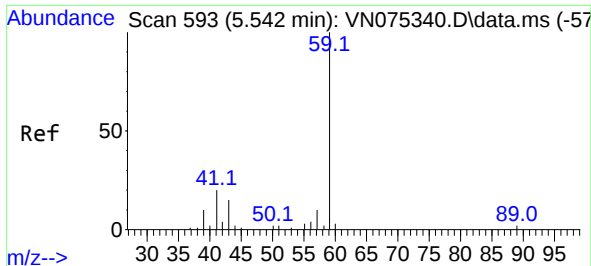
Tgt Ion:168 Resp: 148873  
Ion Ratio Lower Upper  
168 100  
99 56.3 51.6 77.4



#6  
Chloroethane  
Concen: 0.315 ug/l  
RT: 3.147 min Scan# 186  
Delta R.T. 0.040 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 64 Resp: 426  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.8 35.8#

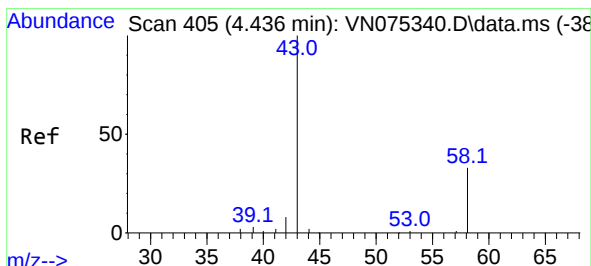
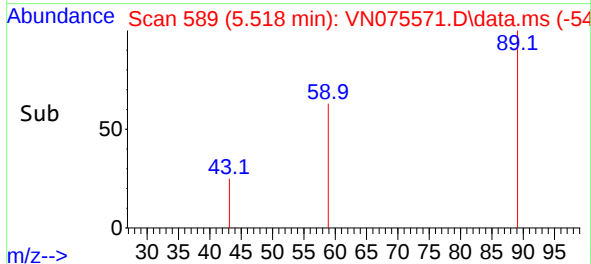
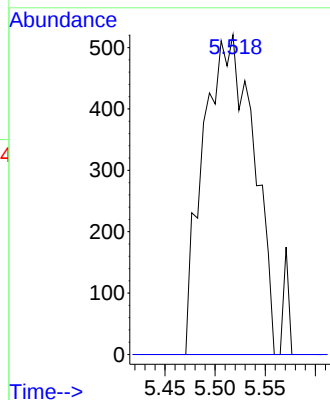
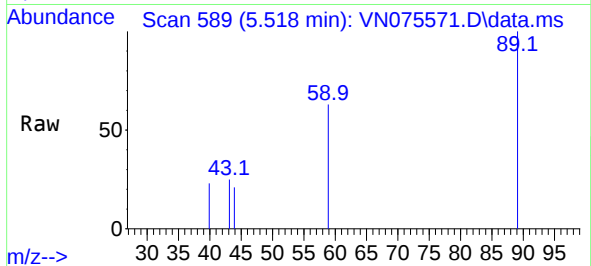




#11  
Tert butyl alcohol  
Concen: 5.392 ug/l  
RT: 5.518 min Scan# 51  
Delta R.T. -0.024 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

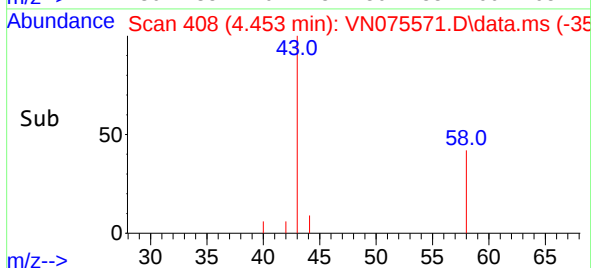
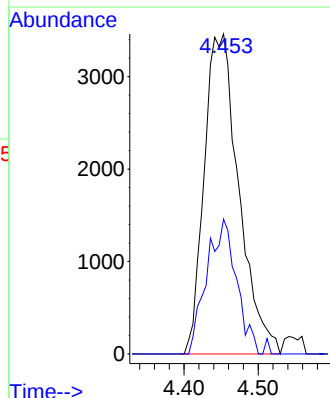
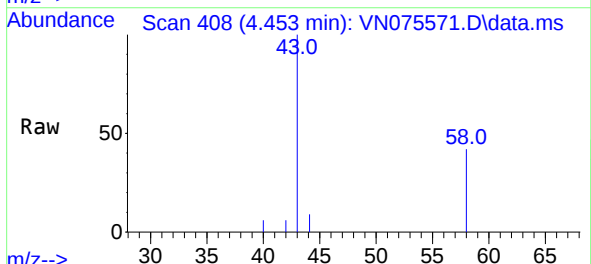
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

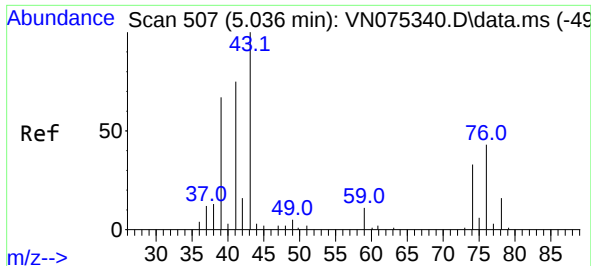
Tgt Ion: 59 Resp: 1809  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#16  
Acetone  
Concen: 15.024 ug/l  
RT: 4.453 min Scan# 408  
Delta R.T. 0.017 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 43 Resp: 11199  
Ion Ratio Lower Upper  
43 100  
58 42.1 25.5 38.3#

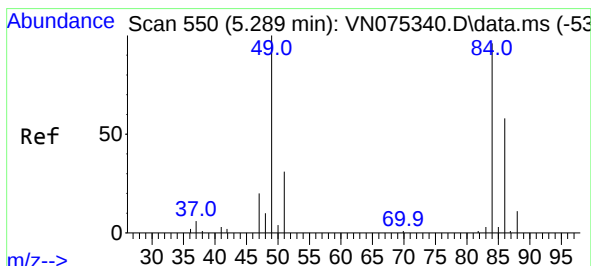
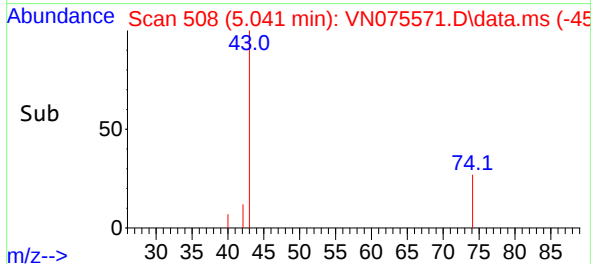
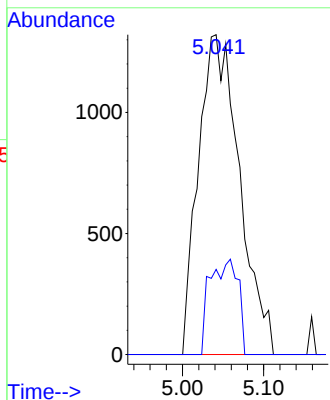
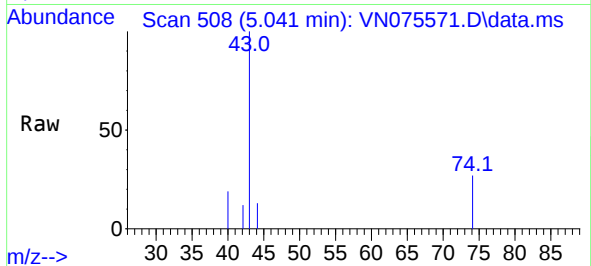




#18  
Methyl Acetate  
Concen: 1.208 ug/l  
RT: 5.041 min Scan# 50  
Delta R.T. 0.005 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

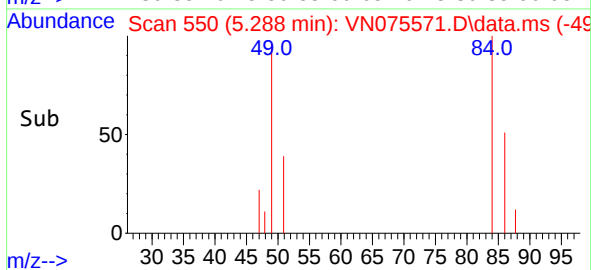
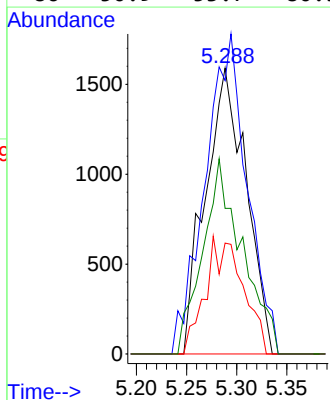
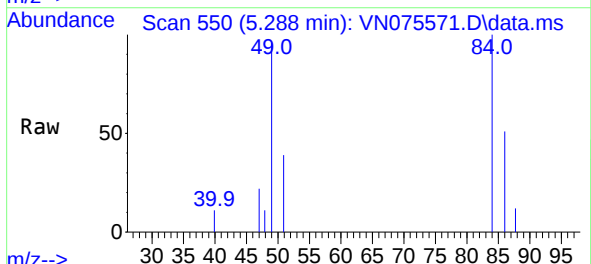
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

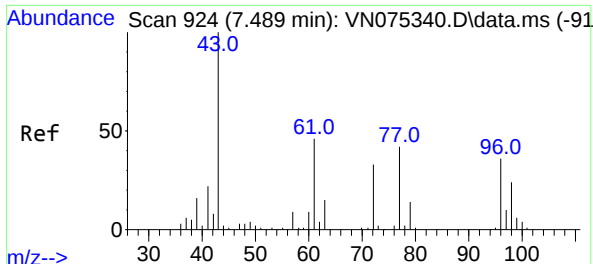
Tgt Ion: 43 Resp: 4645  
Ion Ratio Lower Upper  
43 100  
74 20.4 22.0 33.0#



#20  
Methylene Chloride  
Concen: 1.734 ug/l  
RT: 5.288 min Scan# 550  
Delta R.T. -0.001 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 84 Resp: 4487  
Ion Ratio Lower Upper  
84 100  
49 95.7 94.9 142.3  
51 38.8 26.8 40.2  
86 50.9 53.7 80.5#

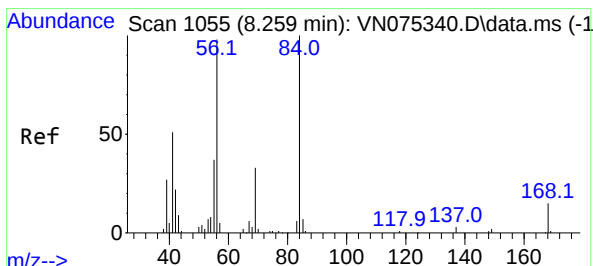
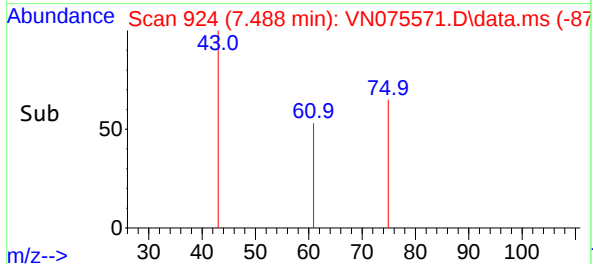
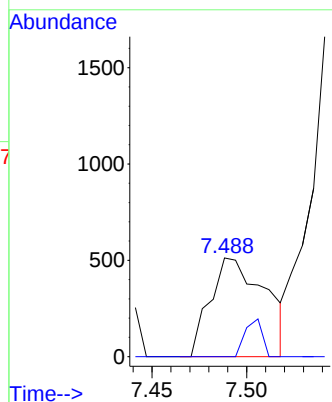
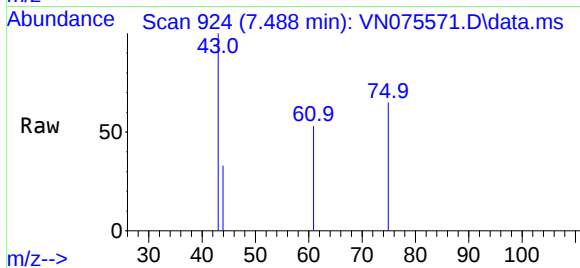




#25  
2-Butanone  
Concen: 0.996 ug/l  
RT: 7.488 min Scan# 91  
Delta R.T. -0.001 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

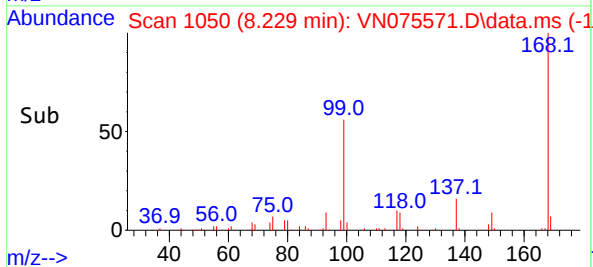
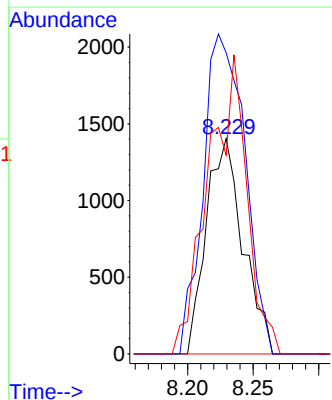
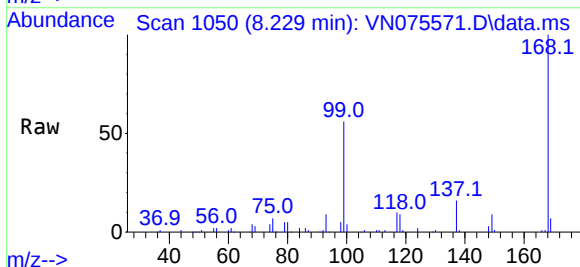
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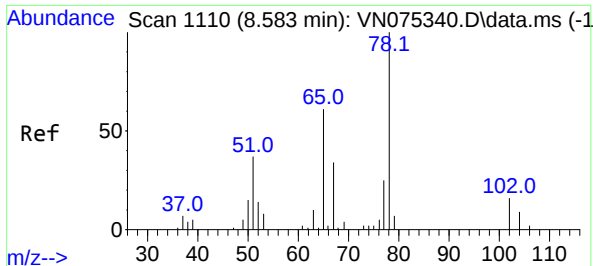
Tgt Ion: 43 Resp: 1036  
Ion Ratio Lower Upper  
43 100  
72 0.0 25.5 38.3#



#31  
Cyclohexane  
Concen: 1.079 ug/l  
RT: 8.229 min Scan# 1050  
Delta R.T. -0.030 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 56 Resp: 2739  
Ion Ratio Lower Upper  
56 100  
69 139.9 25.2 37.8#  
84 92.2 77.8 116.8

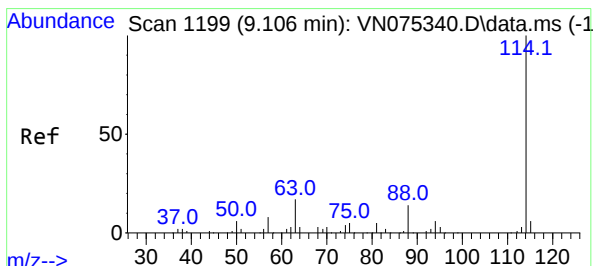
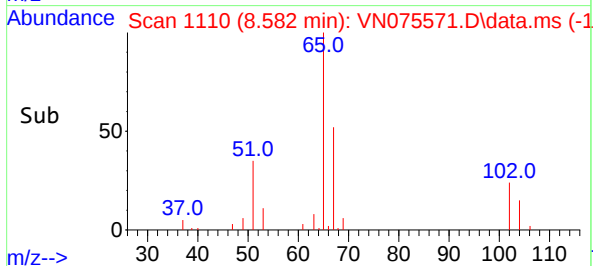
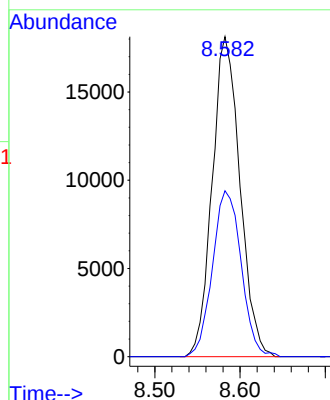
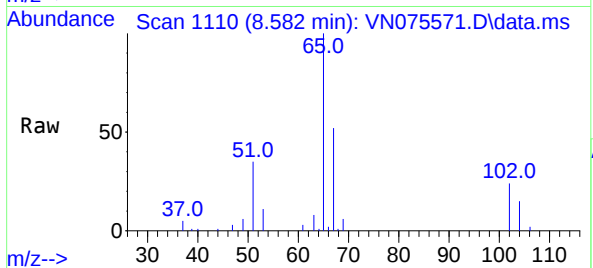




#33  
1,2-Dichloroethane-d4  
Concen: 51.242 ug/l  
RT: 8.582 min Scan# 1110  
Delta R.T. -0.001 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

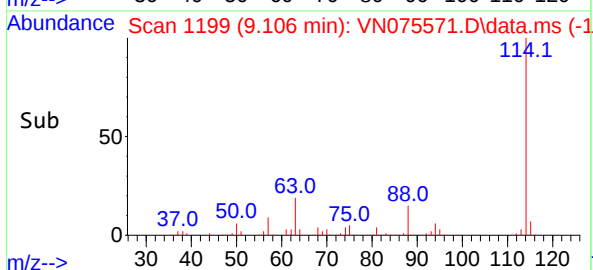
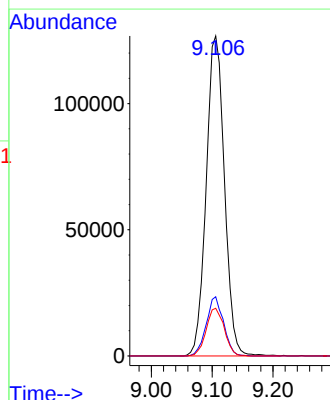
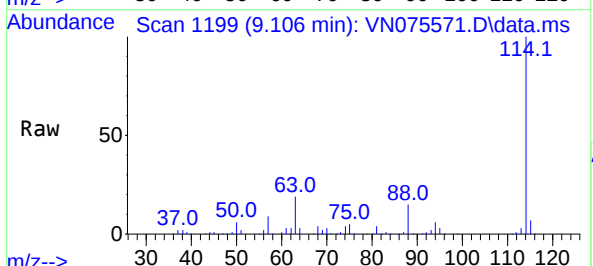
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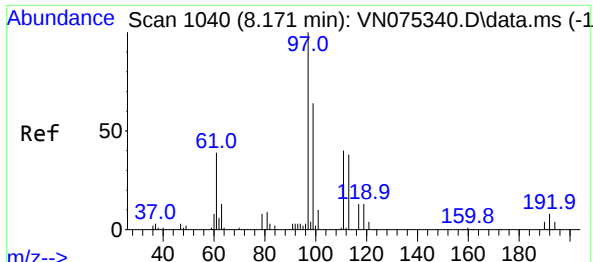
Tgt Ion: 65 Resp: 40949  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 102.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. -0.000 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion:114 Resp: 263759  
Ion Ratio Lower Upper  
114 100  
63 18.5 0.0 39.6  
88 14.9 0.0 29.0

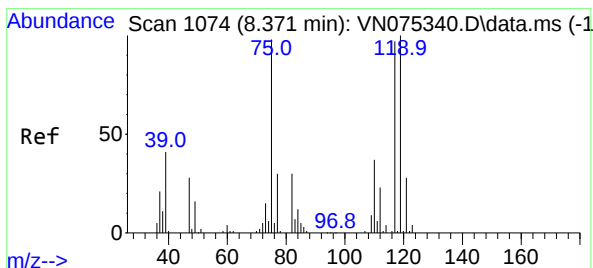
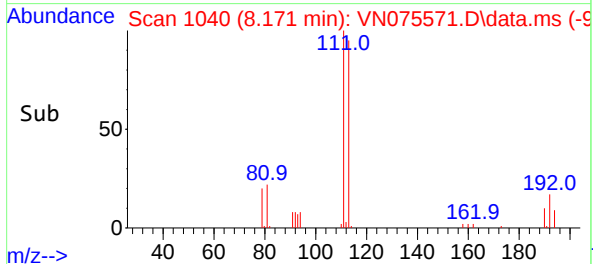
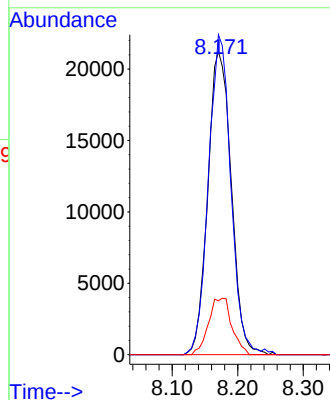
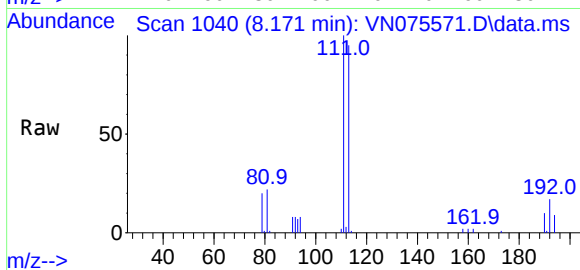




#35  
Dibromofluoromethane  
Concen: 50.877 ug/l  
RT: 8.171 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

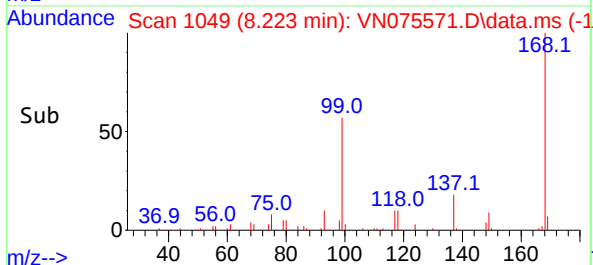
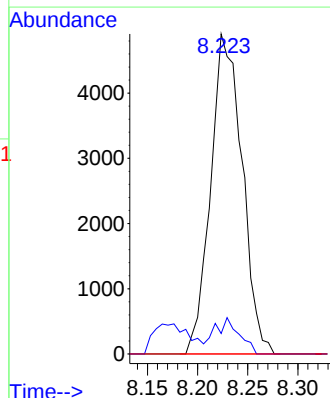
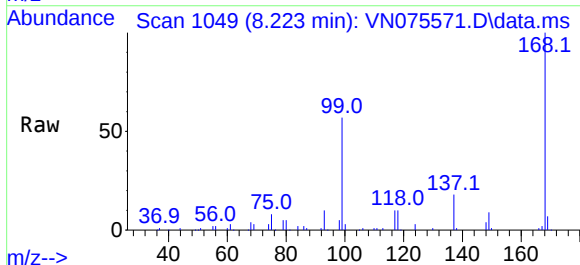
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

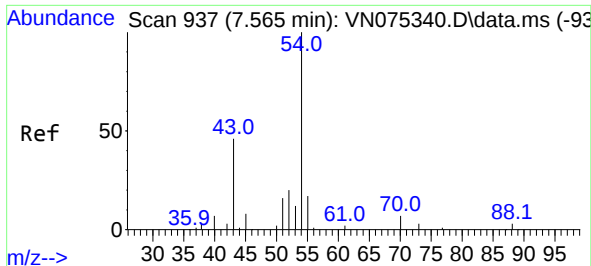
Tgt Ion:113 Resp: 52715  
Ion Ratio Lower Upper  
113 100  
111 100.1 80.5 120.7  
192 18.5 13.2 19.8



#36  
1,1-Dichloropropene  
Concen: 4.722 ug/l  
RT: 8.223 min Scan# 1049  
Delta R.T. -0.148 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 75 Resp: 10669  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.8 53.3#  
77 0.0 24.6 37.0#

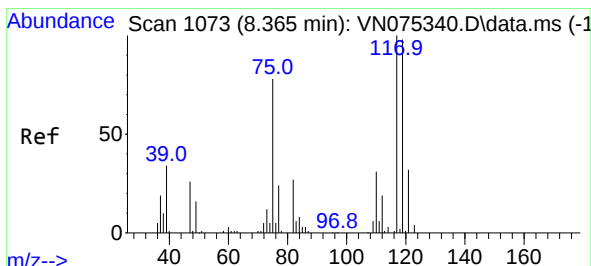
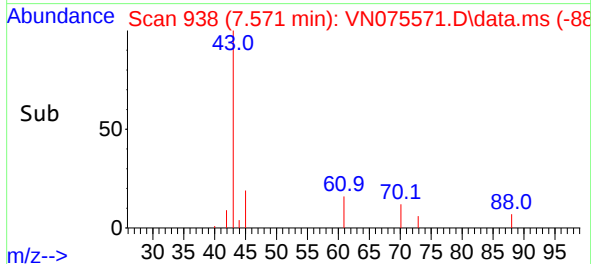
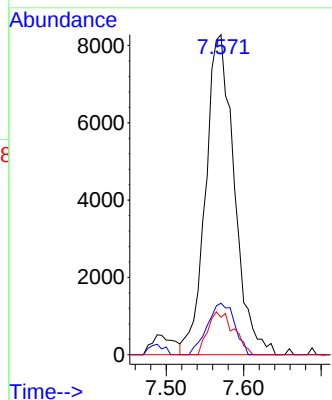
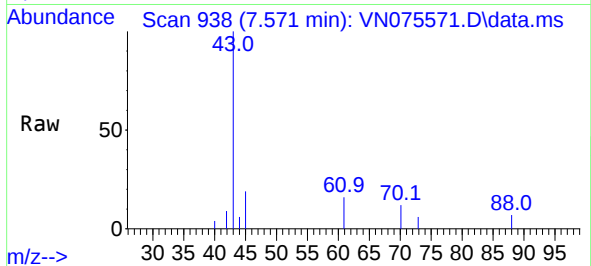




#37  
Ethyl Acetate  
Concen: 10.441 ug/l  
RT: 7.571 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

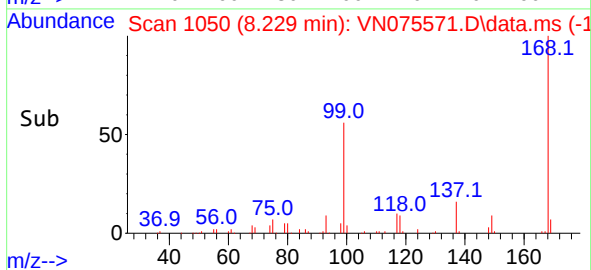
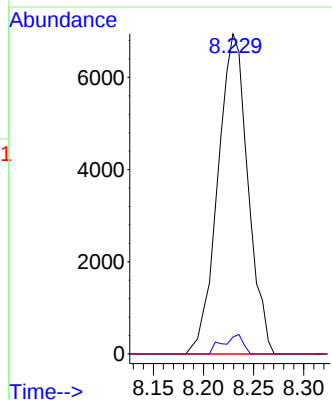
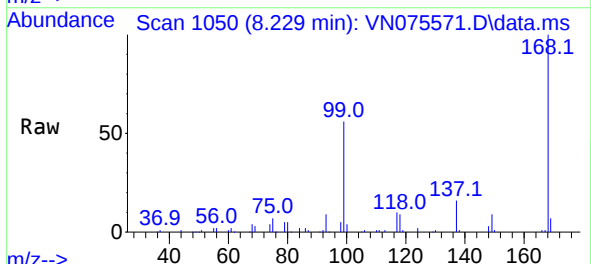
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

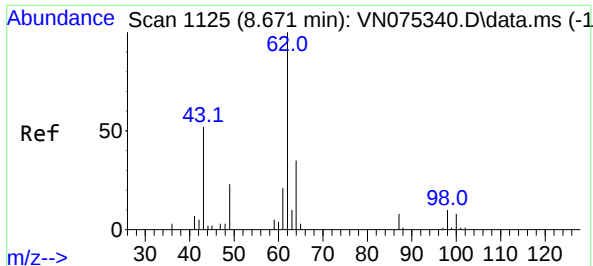
Tgt Ion: 43 Resp: 21242  
Ion Ratio Lower Upper  
43 100  
61 15.4 12.2 18.4  
70 12.0 9.4 14.2



#38  
Carbon Tetrachloride  
Concen: 5.855 ug/l  
RT: 8.229 min Scan# 1050  
Delta R.T. -0.136 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 117 Resp: 14533  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.7 115.1#  
121 0.0 23.9 35.9#

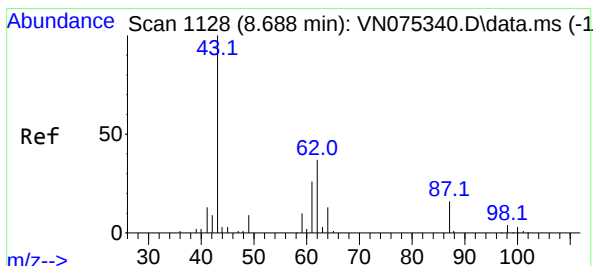
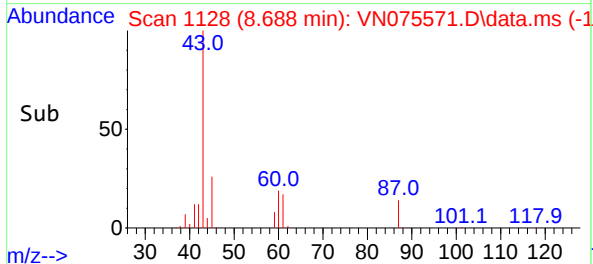
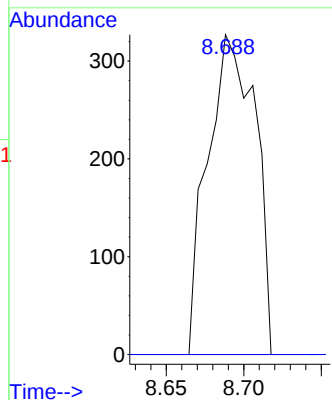
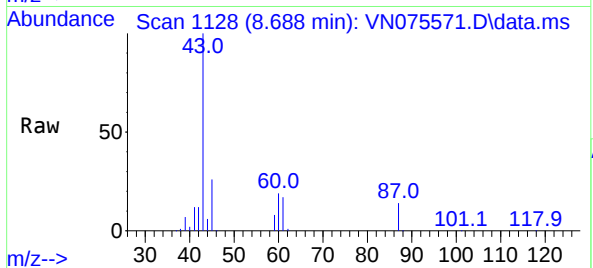




#42  
1,2-Dichloroethane  
Concen: 0.301 ug/l  
RT: 8.688 min Scan# 1128  
Delta R.T. 0.017 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

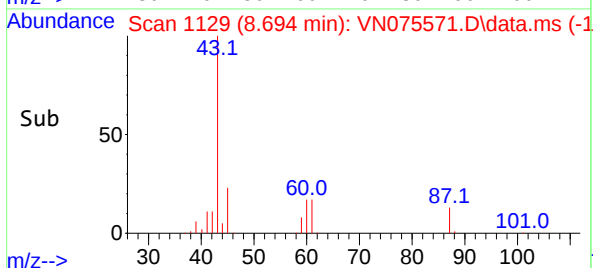
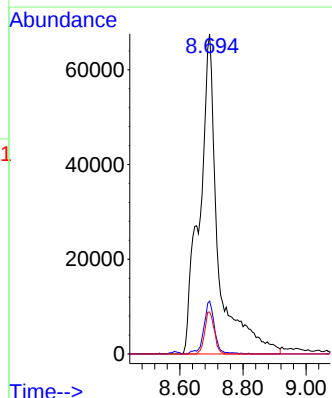
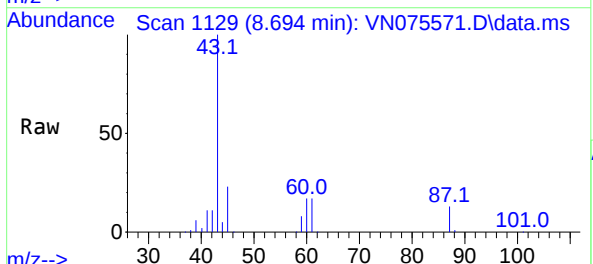
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

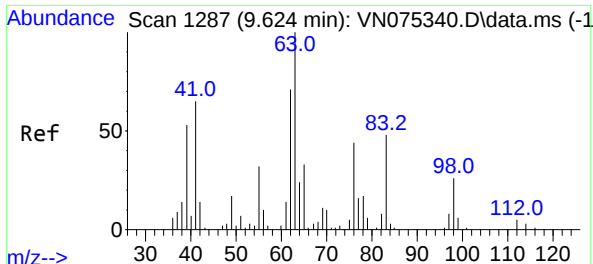
Tgt Ion: 62 Resp: 698  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 18.2



#43  
Isopropyl Acetate  
Concen: 85.193 ug/l  
RT: 8.694 min Scan# 1129  
Delta R.T. 0.006 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 43 Resp: 278221  
Ion Ratio Lower Upper  
43 100  
61 9.4 22.4 33.6#  
87 6.7 12.5 18.7#

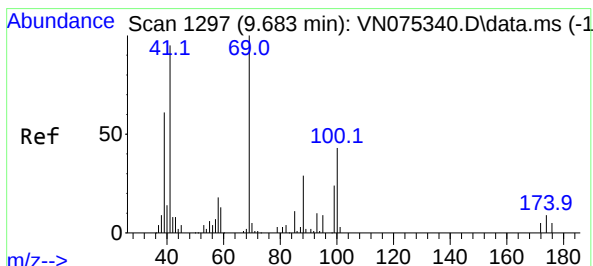
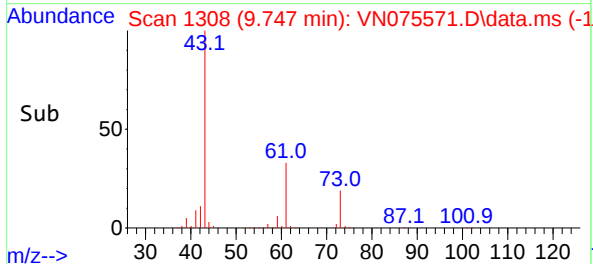
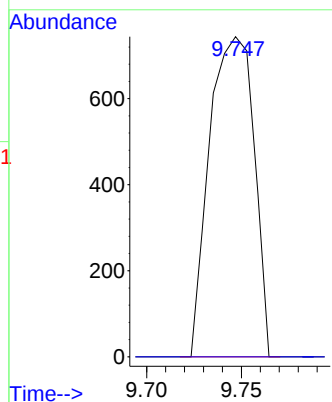
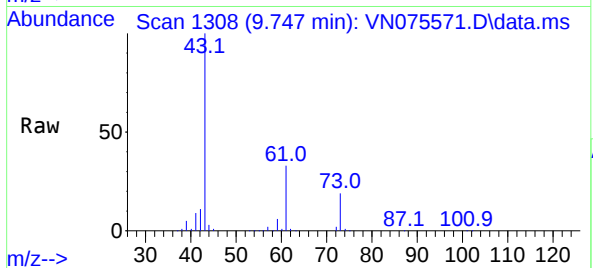




#45  
1,2-Dichloropropane  
Concen: 0.737 ug/l  
RT: 9.747 min Scan# 11  
Delta R.T. 0.123 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

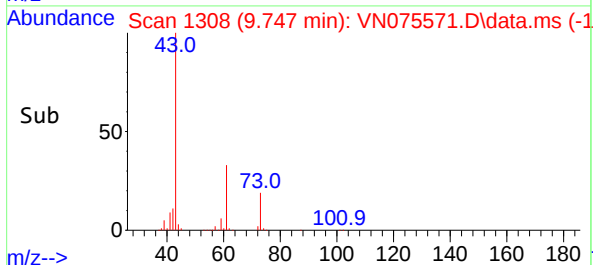
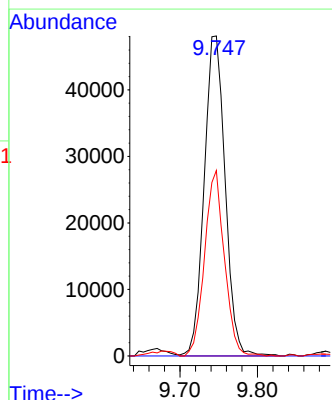
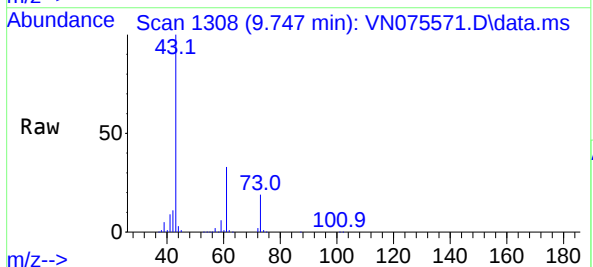
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

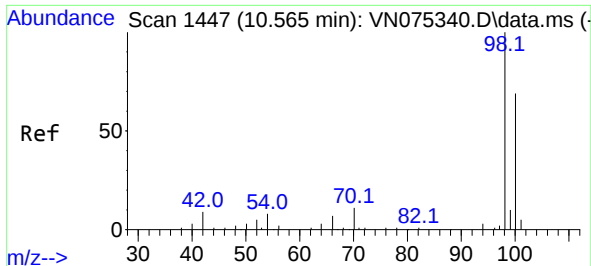
Tgt Ion: 63 Resp: 1215  
Ion Ratio Lower Upper  
63 100  
65 0.0 26.1 39.1#



#48  
Methyl methacrylate  
Concen: 59.856 ug/l  
RT: 9.747 min Scan# 1308  
Delta R.T. 0.064 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 41 Resp: 90387  
Ion Ratio Lower Upper  
41 100  
69 0.0 80.2 120.2#  
39 54.8 56.2 84.2#

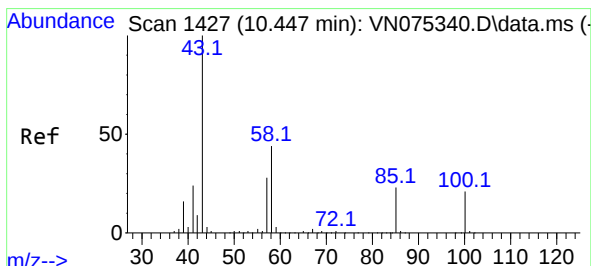
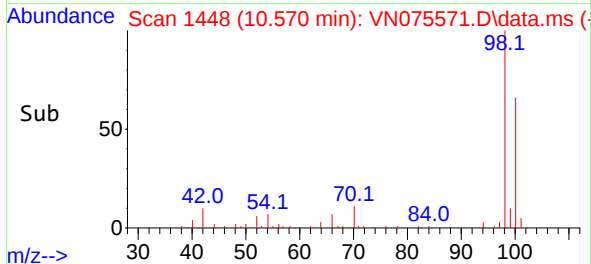
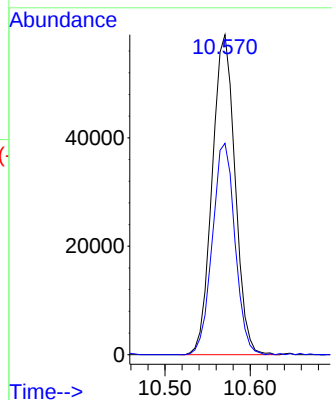
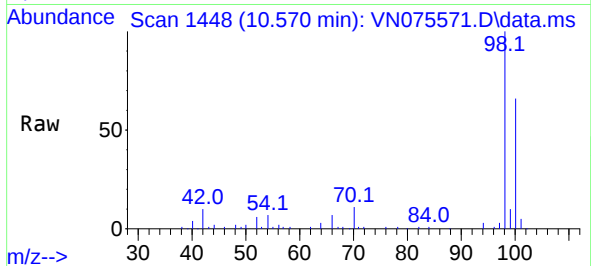




#50  
Toluene-d8  
Concen: 47.177 ug/l  
RT: 10.570 min Scan# 1412  
Delta R.T. 0.005 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

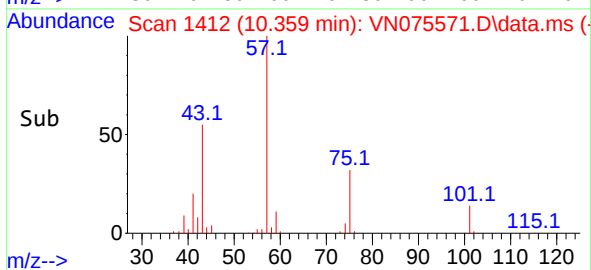
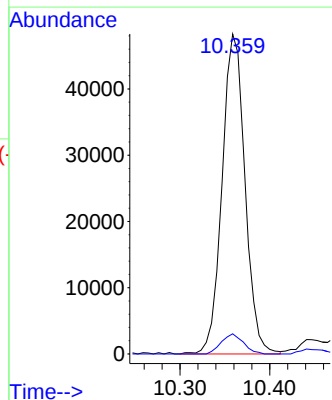
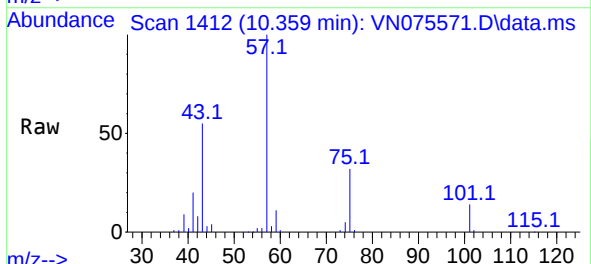
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

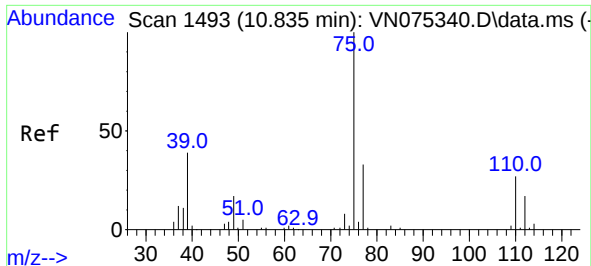
Tgt Ion: 98 Resp: 110096  
Ion Ratio Lower Upper  
98 100  
100 65.4 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 41.144 ug/l  
RT: 10.359 min Scan# 1412  
Delta R.T. -0.088 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 43 Resp: 85581  
Ion Ratio Lower Upper  
43 100  
58 6.1 33.6 50.4#

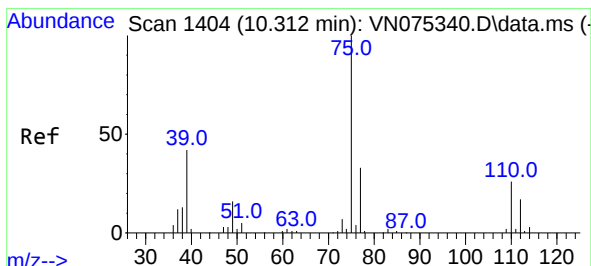
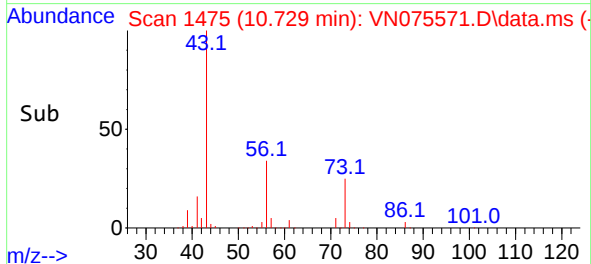
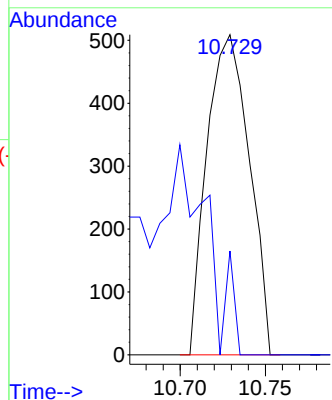
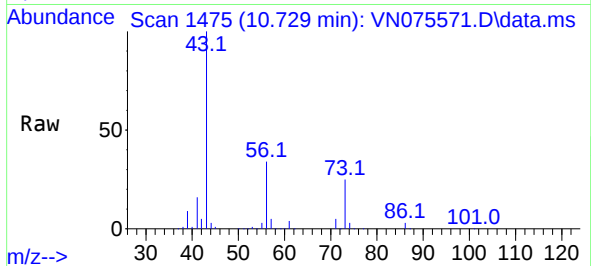




#53  
 t-1,3-Dichloropropene  
 Concen: 0.364 ug/l  
 RT: 10.729 min Scan# 1412  
 Delta R.T. -0.106 min  
 Lab File: VN075571.D  
 Acq: 05 Dec 2022 20:06

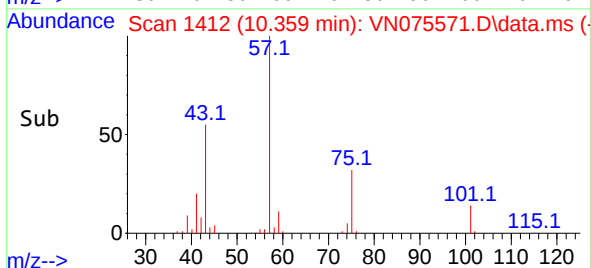
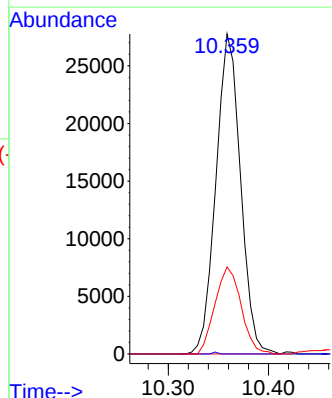
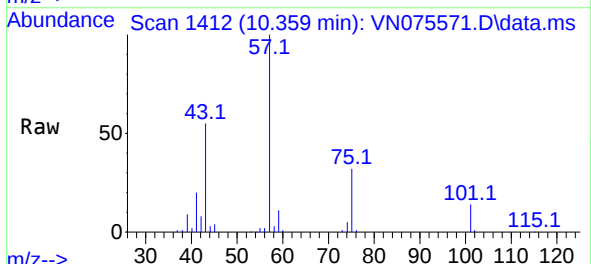
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB149407ZHE#04

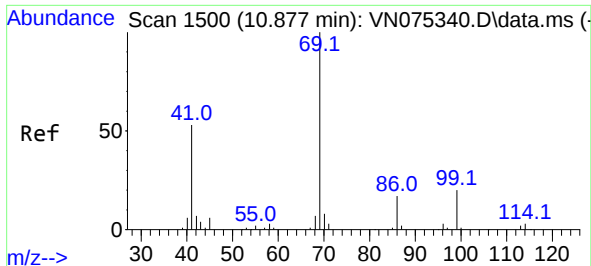
Tgt Ion: 75 Resp: 882  
 Ion Ratio Lower Upper  
 75 100  
 77 32.4 25.4 38.2



#54  
 cis-1,3-Dichloropropene  
 Concen: 17.928 ug/l  
 RT: 10.359 min Scan# 1412  
 Delta R.T. 0.047 min  
 Lab File: VN075571.D  
 Acq: 05 Dec 2022 20:06

Tgt Ion: 75 Resp: 47206  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 23.7 35.5#  
 39 27.2 35.8 53.6#

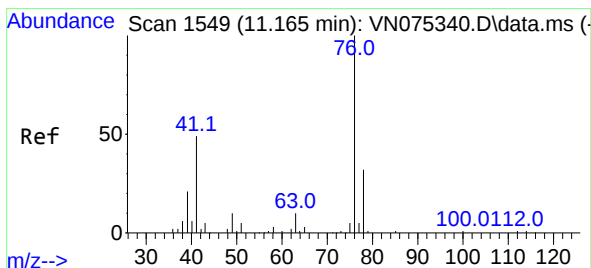
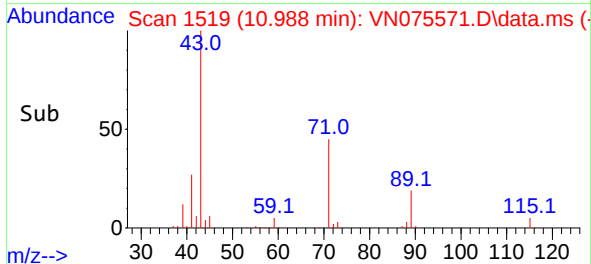
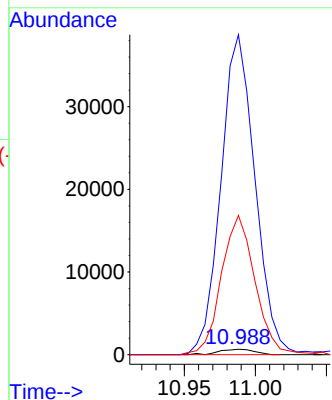
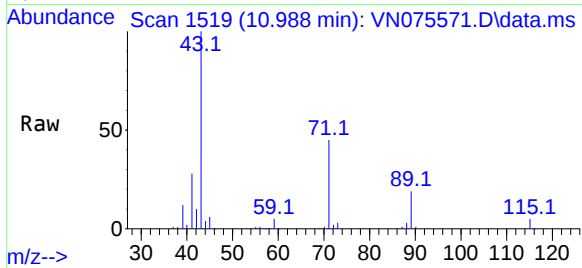




#56  
Ethyl methacrylate  
Concen: 0.464 ug/l  
RT: 10.988 min Scan# 1138  
Delta R.T. 0.111 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

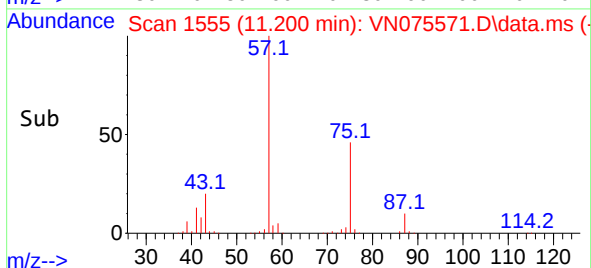
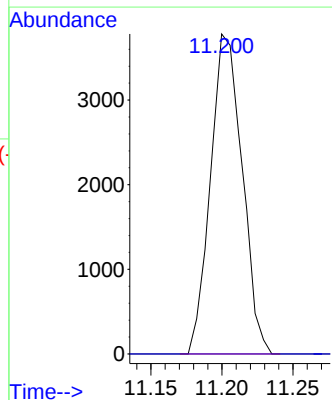
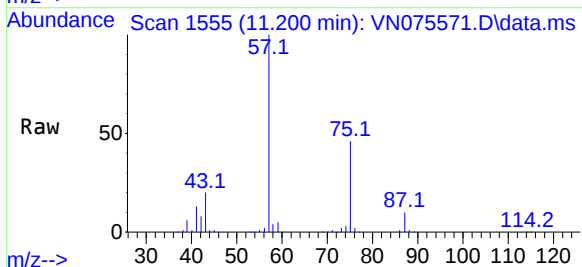
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ClientSampleId :  
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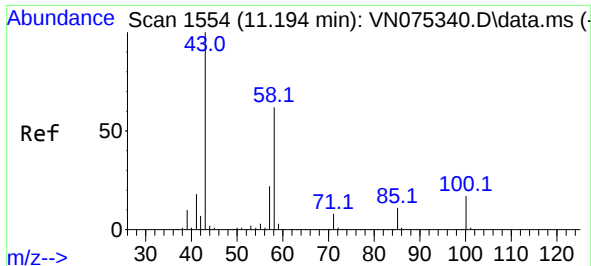
Tgt Ion: 69 Resp: 1138  
Ion Ratio Lower Upper  
69 100  
41 5691.8 45.6 68.4#  
39 2440.9 28.5 42.7#



#57  
1,3-Dichloropropane  
Concen: 1.979 ug/l  
RT: 11.200 min Scan# 1555  
Delta R.T. 0.035 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 76 Resp: 5859  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

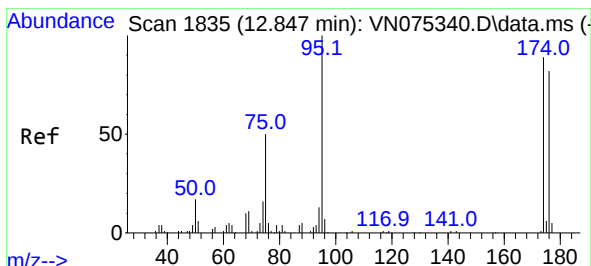
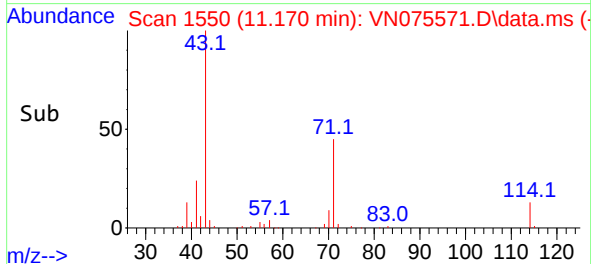
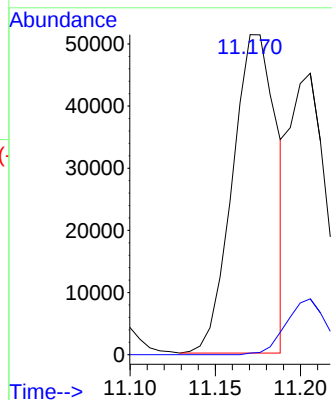
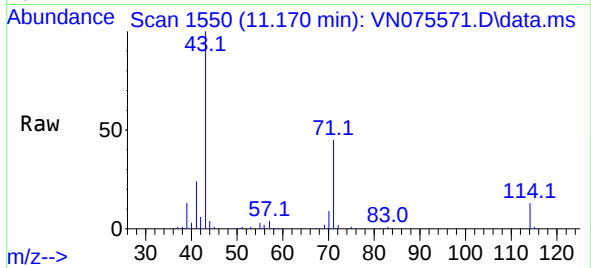




#59  
2-Hexanone  
Concen: 58.866 ug/l  
RT: 11.170 min Scan# 1150  
Delta R.T. -0.024 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

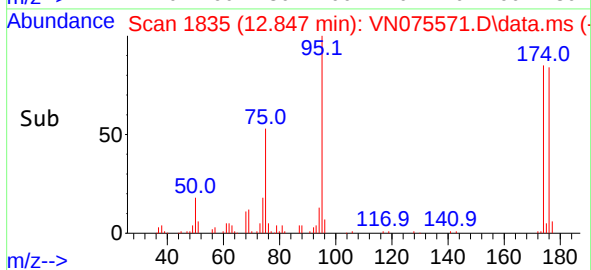
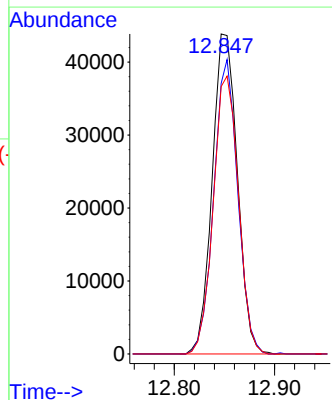
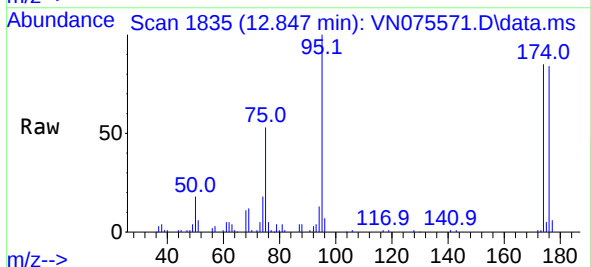
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ClientSampleId :  
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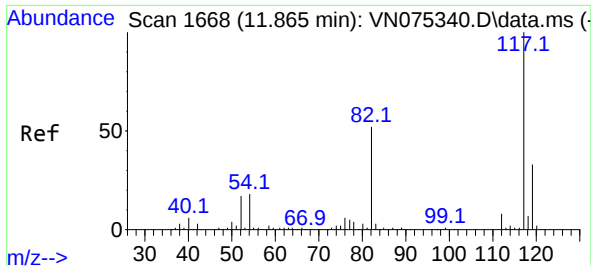
Tgt Ion: 43 Resp: 91943  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 44.337 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.000 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion: 95 Resp: 76370  
Ion Ratio Lower Upper  
95 100  
174 87.6 0.0 147.4  
176 86.6 0.0 142.2

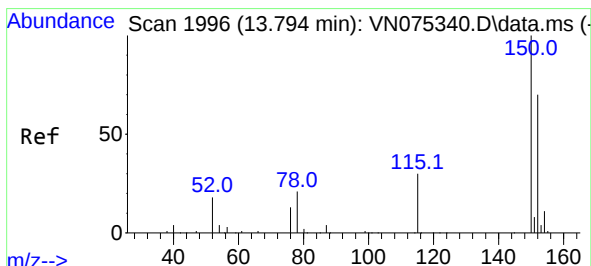
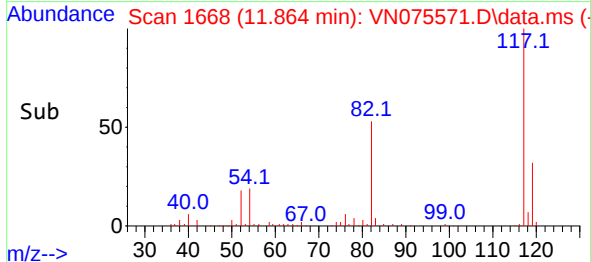
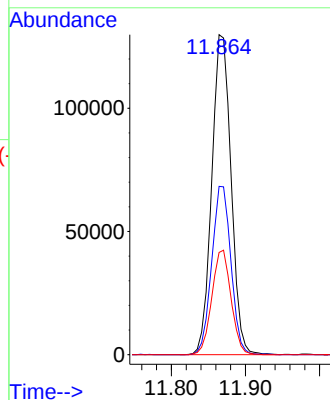
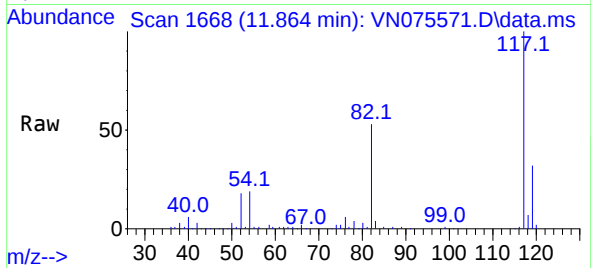




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.864 min Scan# 117  
Delta R.T. -0.001 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

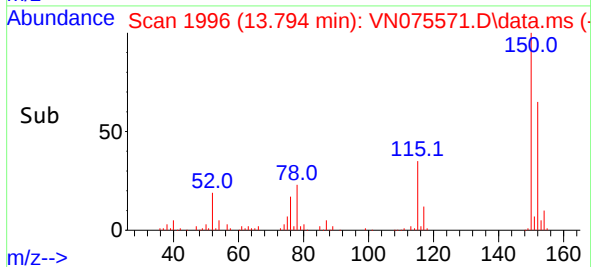
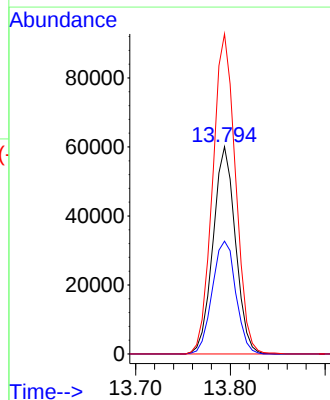
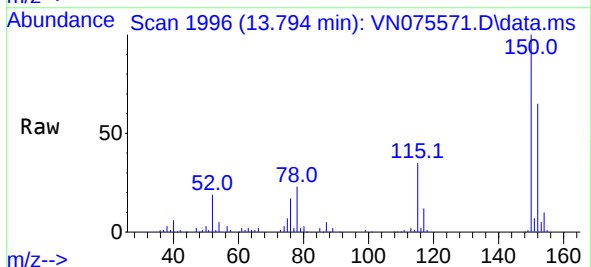
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

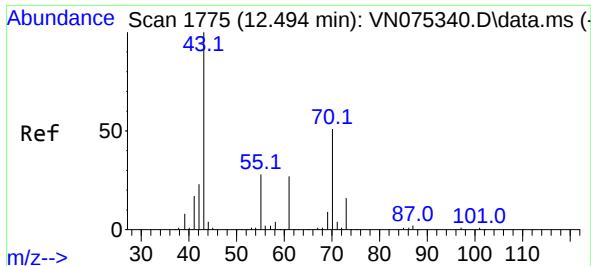
Tgt Ion:117 Resp: 234930  
Ion Ratio Lower Upper  
117 100  
82 52.6 43.1 64.7  
119 31.9 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Tgt Ion:152 Resp: 98752  
Ion Ratio Lower Upper  
152 100  
115 57.2 30.2 90.6  
150 157.5 0.0 348.4

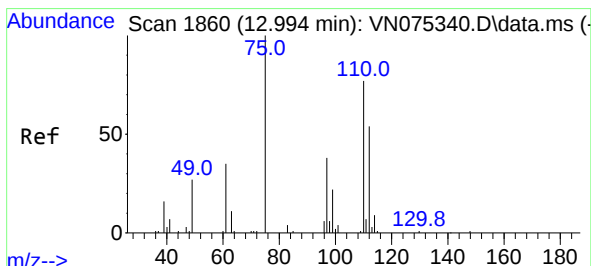
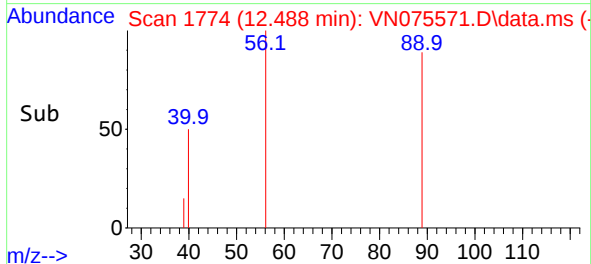
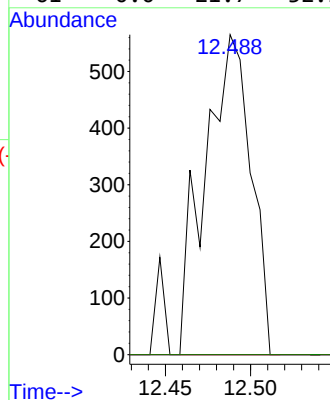
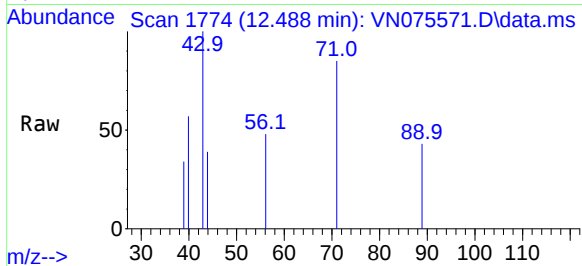




#74  
N-amy1 acetate  
Concen: 0.481 ug/l  
RT: 12.488 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

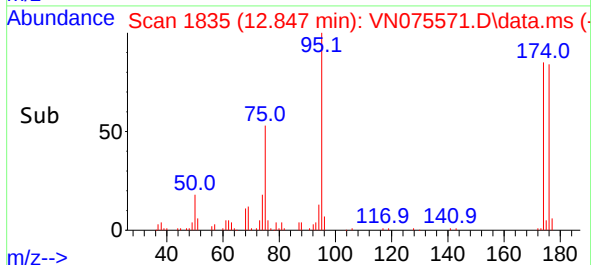
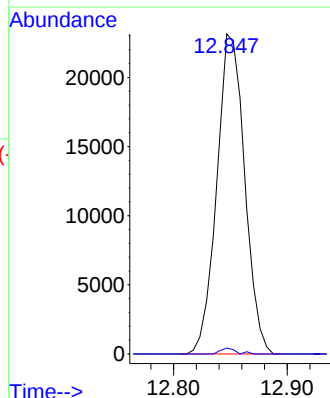
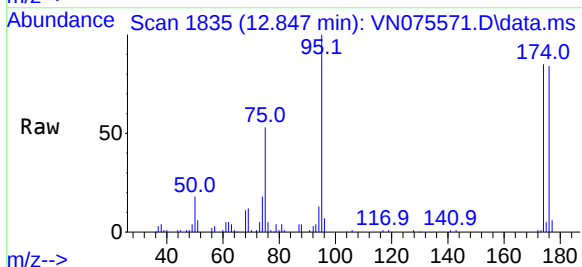
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04

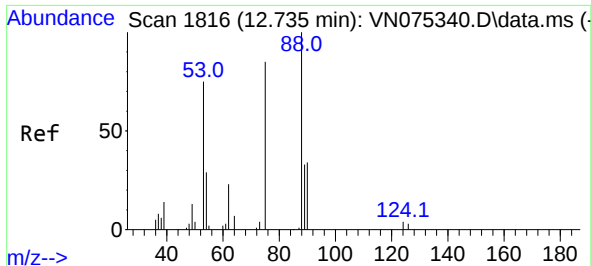
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 1067        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 70          | 0.0   | 39.8 59.8#  |
| 55          | 0.0   | 19.9 29.9#  |
| 61          | 0.0   | 21.7 32.5#  |



#76  
1,2,3-Trichloropropane  
Concen: 21.138 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.147 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

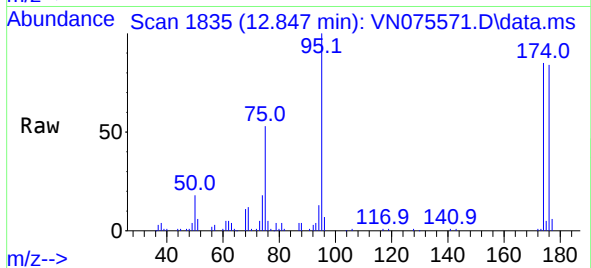
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 39467       |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 77          | 1.0   | 75.6 226.8# |





#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.542 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN075571.D  
Acq: 05 Dec 2022 20:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB149407ZHE#04



Tgt Ion: 75 Resp: 39467  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#

