

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090322\  
 Data File : VN074335.D  
 Acq On : 03 Sep 2022 22:37  
 Operator : JC\MD  
 Sample : N4381-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-9

Quant Time: Sep 05 05:42:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090222W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 03 04:35:33 2022  
 Response via : Initial Calibration

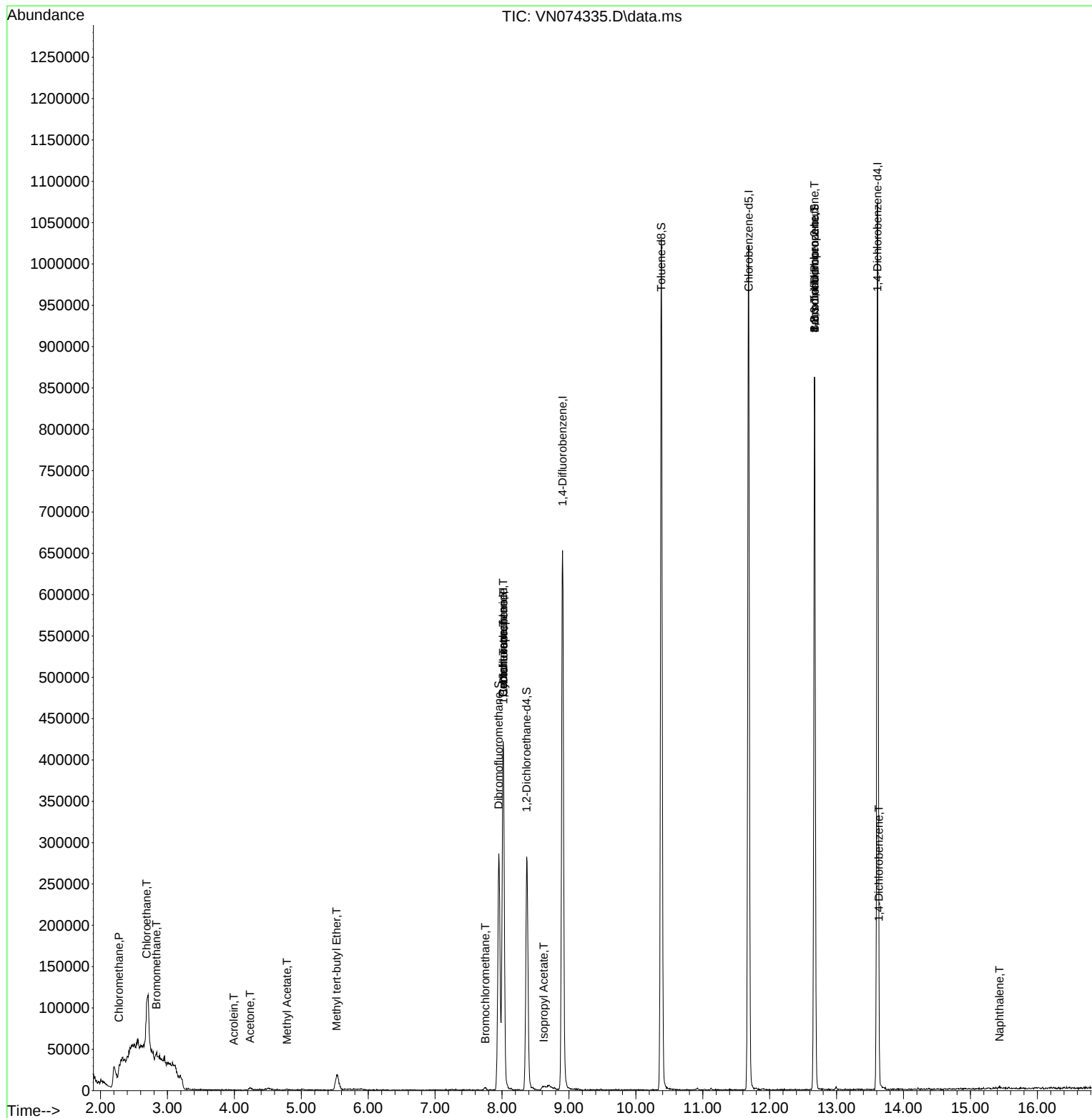
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.016          | 168  | 312917     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904          | 114  | 582035     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686         | 117  | 564509     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.610         | 152  | 271168     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 225647     | 46.260    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 92.520%   |        |          |
| 35) Dibromofluoromethane      | 7.951          | 113  | 200767     | 52.055    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 104.100%  |        |          |
| 50) Toluene-d8                | 10.381         | 98   | 682021     | 44.845    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 89.700%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.669         | 95   | 251300     | 45.433    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 90.860%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.275          | 50   | 2104       | 0.492     | ug/l   | 97       |
| 5) Bromomethane               | 2.834          | 94   | 2614       | 0.489     | ug/l   | 90       |
| 6) Chloroethane               | 2.687          | 64   | 75330      | 12.024    | ug/l # | 46       |
| 13) Acrolein                  | 3.993          | 56   | 228        | 0.383     | ug/l   | 84       |
| 16) Acetone                   | 4.234          | 43   | 4784       | 2.347     | ug/l # | 84       |
| 18) Methyl Acetate            | 4.787          | 43   | 2041       | 0.333     | ug/l # | 69       |
| 19) Methyl tert-butyl Ether   | 5.528          | 73   | 28885      | 2.366     | ug/l # | 86       |
| 20) Methylene Chloride        | 5.004          | 84   | 440        | Below Cal | #      | 50       |
| 28) Bromochloromethane        | 7.751          | 49   | 55         | 0.271     | ug/l # | 8        |
| 31) Cyclohexane               | 8.016          | 56   | 9160       | 1.406     | ug/l # | 53       |
| 36) 1,1-Dichloropropene       | 8.022          | 75   | 27341      | 4.995     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.016          | 117  | 34098      | 6.166     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.622          | 43   | 3661       | 0.352     | ug/l # | 53       |
| 71) Bromoform                 | 12.669         | 173  | 2539       | 0.765     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.669         | 75   | 150750     | 19.629    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.669         | 75   | 150750     | 63.720    | ug/l # | 10       |
| 88) 1,4-Dichlorobenzene       | 13.633         | 146  | 519        | 0.219     | ug/l # | 1        |
| 95) Naphthalene               | 15.433         | 128  | 2308       | 0.879     | ug/l # | 73       |
| -----                         |                |      |            |           |        |          |

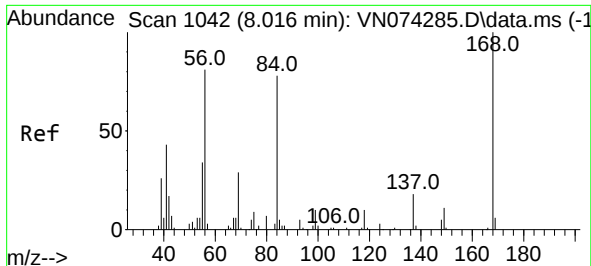
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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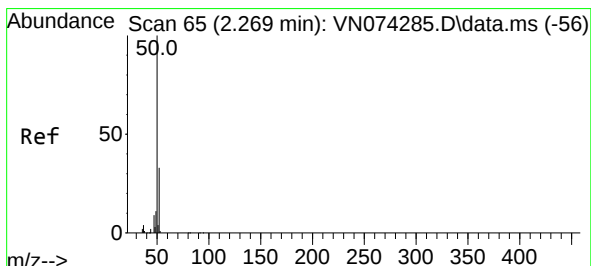
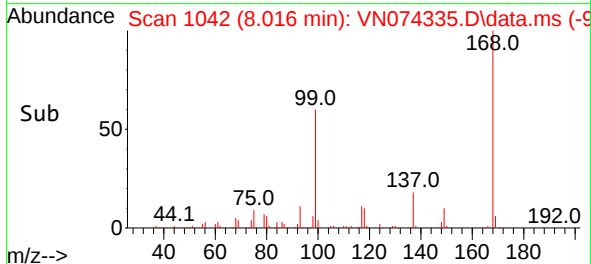
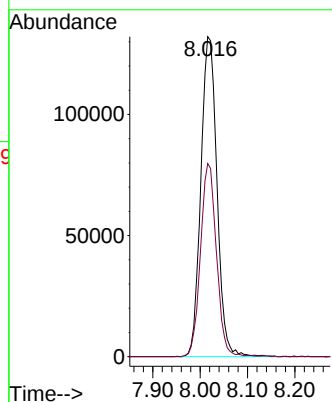
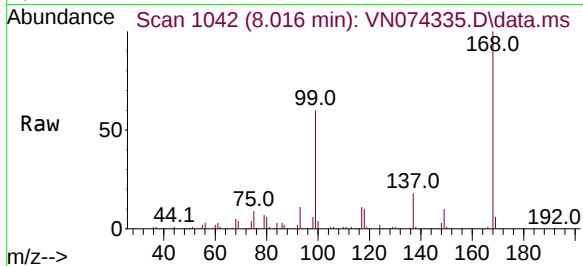




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

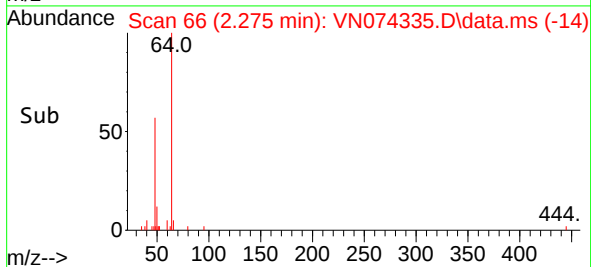
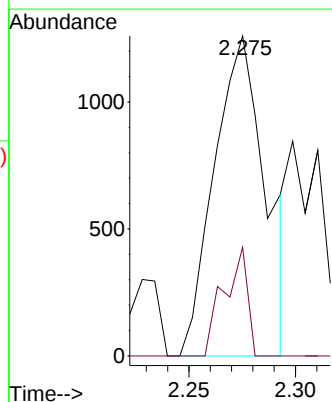
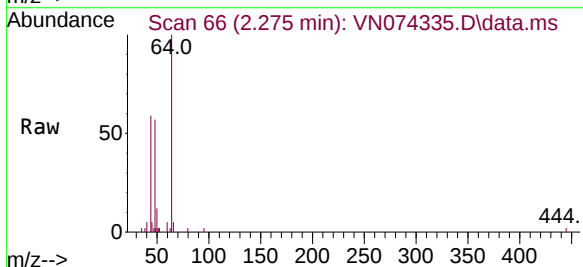
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-9

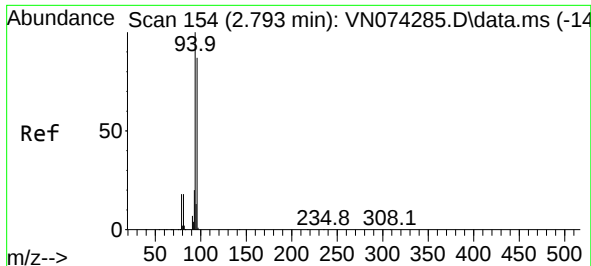
Tgt Ion:168 Resp: 312917  
Ion Ratio Lower Upper  
168 100  
99 60.3 42.3 63.5



#3  
Chloromethane  
Concen: 0.492 ug/l  
RT: 2.275 min Scan# 66  
Delta R.T. 0.006 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 50 Resp: 2104  
Ion Ratio Lower Upper  
50 100  
52 34.0 25.7 38.5

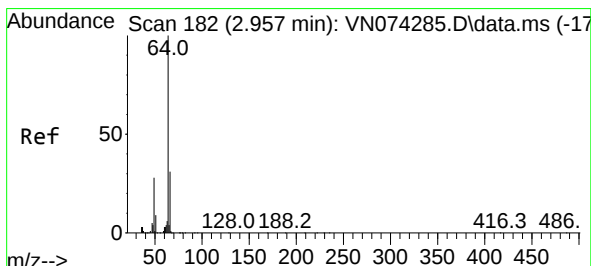
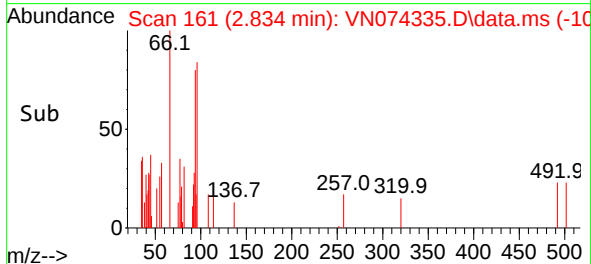
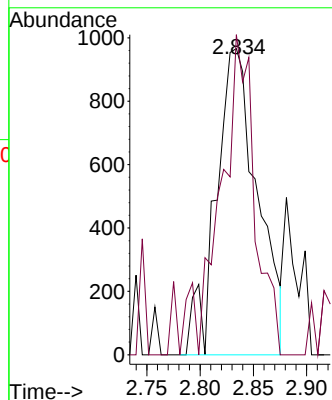
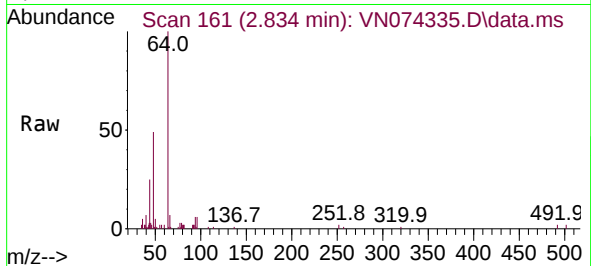




#5  
Bromomethane  
Concen: 0.489 ug/l  
RT: 2.834 min Scan# 11  
Delta R.T. 0.053 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

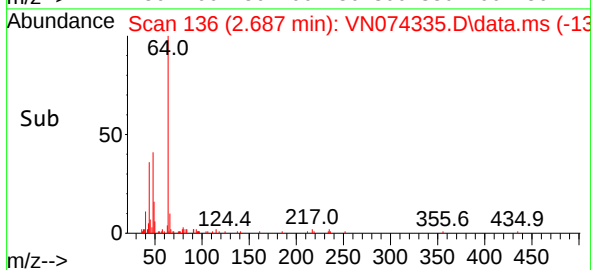
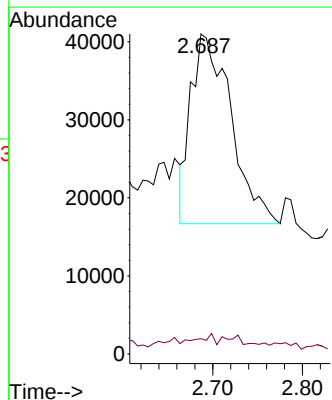
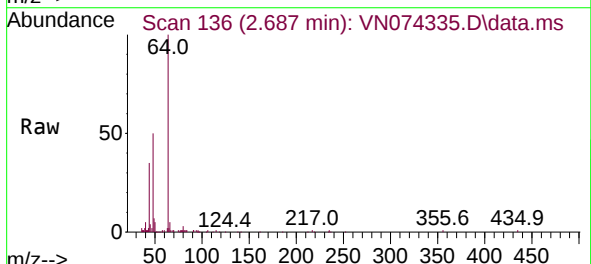
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-9

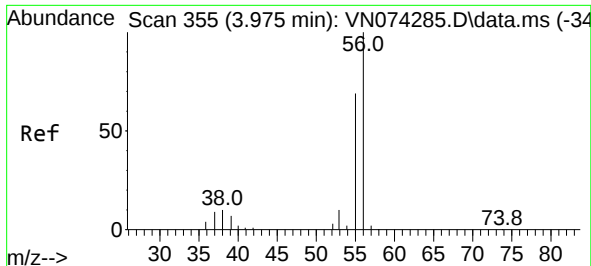
Tgt Ion: 94 Resp: 2614  
Ion Ratio Lower Upper  
94 100  
96 104.6 76.0 114.0



#6  
Chloroethane  
Concen: 12.024 ug/l  
RT: 2.687 min Scan# 136  
Delta R.T. -0.264 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 64 Resp: 75330  
Ion Ratio Lower Upper  
64 100  
66 2.6 26.2 39.4#





#13

Acrolein

Concen: 0.383 ug/l

RT: 3.993 min Scan# 358

Delta R.T. 0.018 min

Lab File: VN074335.D

Acq: 03 Sep 2022 22:37

Instrument :

MSVOA\_N

ClientSampleId :

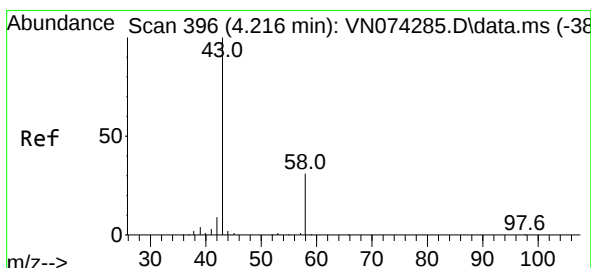
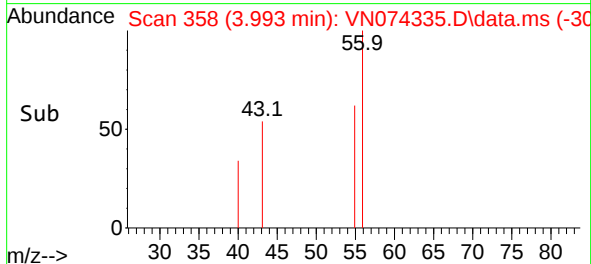
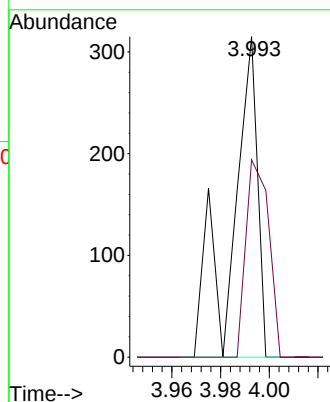
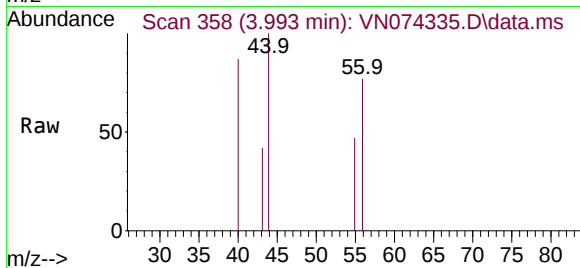
MW-9

Tgt Ion: 56 Resp: 228

Ion Ratio Lower Upper

56 100

55 55.3 54.8 82.2



#16

Acetone

Concen: 2.347 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.012 min

Lab File: VN074335.D

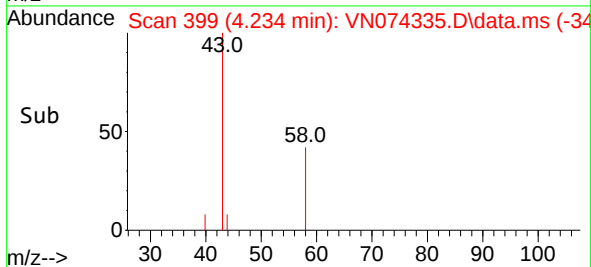
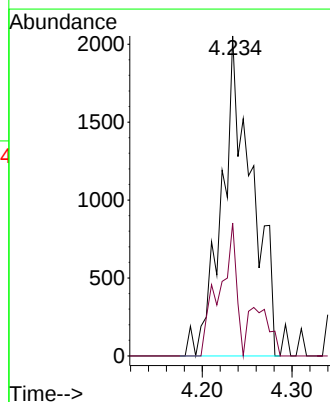
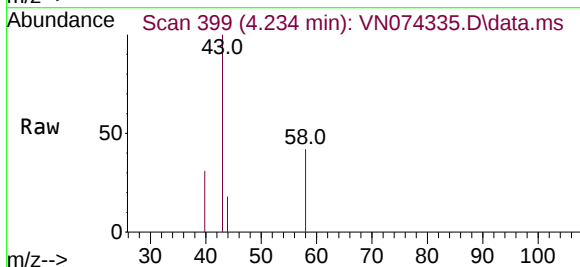
Acq: 03 Sep 2022 22:37

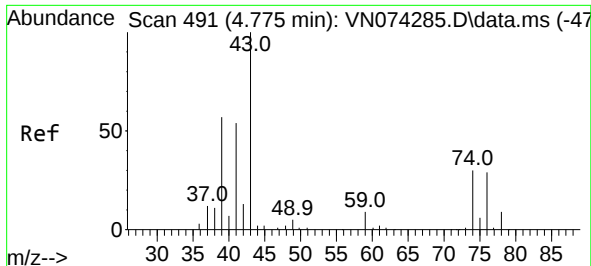
Tgt Ion: 43 Resp: 4784

Ion Ratio Lower Upper

43 100

58 41.5 26.0 39.0#

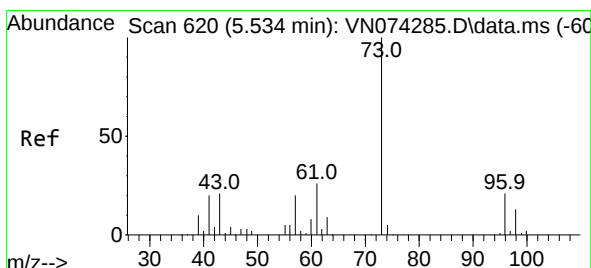
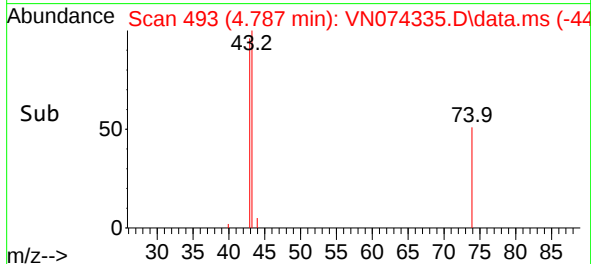
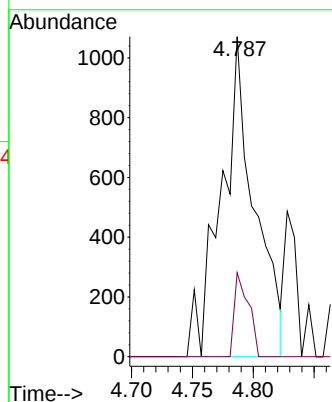
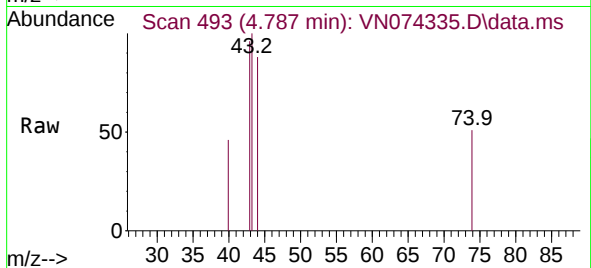




#18  
Methyl Acetate  
Concen: 0.333 ug/l  
RT: 4.787 min Scan# 491  
Delta R.T. 0.012 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

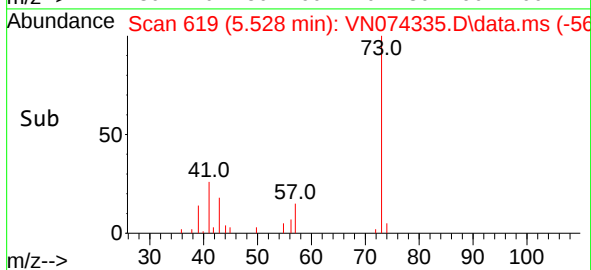
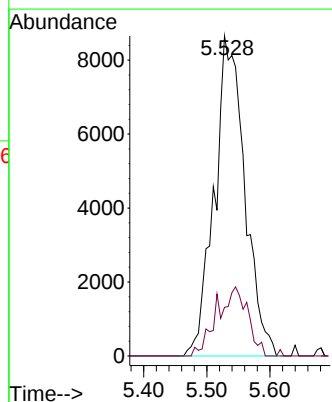
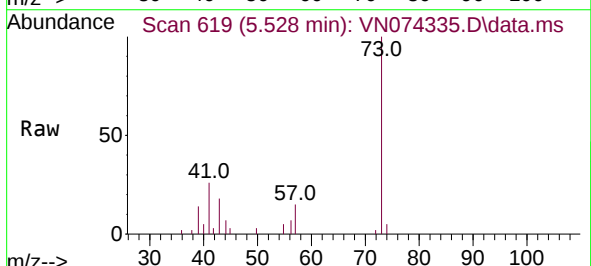
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MSVOA\_N  
ClientSampleId :  
MW-9

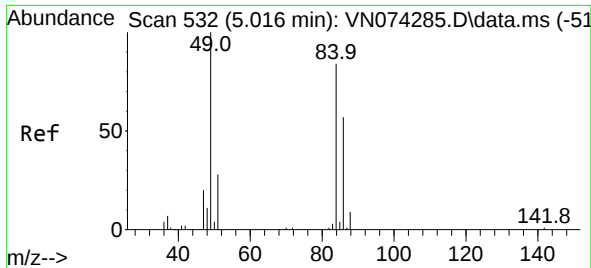
Tgt Ion: 43 Resp: 2041  
Ion Ratio Lower Upper  
43 100  
74 11.1 21.6 32.4#



#19  
Methyl tert-butyl Ether  
Concen: 2.366 ug/l  
RT: 5.528 min Scan# 619  
Delta R.T. -0.006 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 73 Resp: 28885  
Ion Ratio Lower Upper  
73 100  
57 15.2 17.6 26.4#



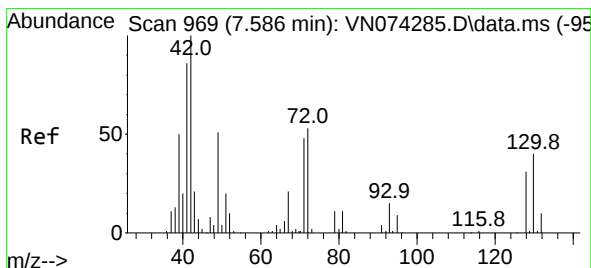
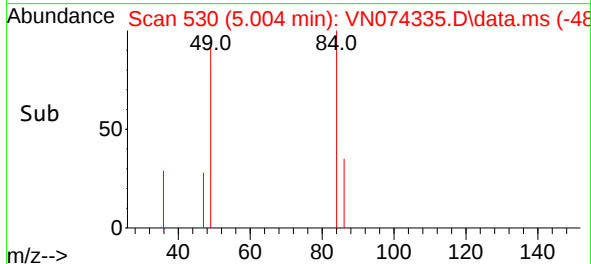
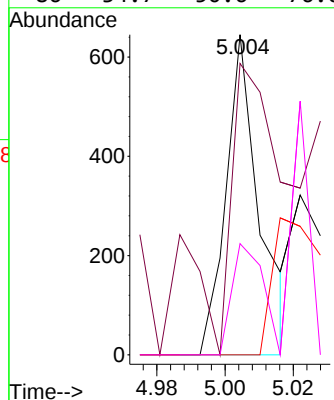
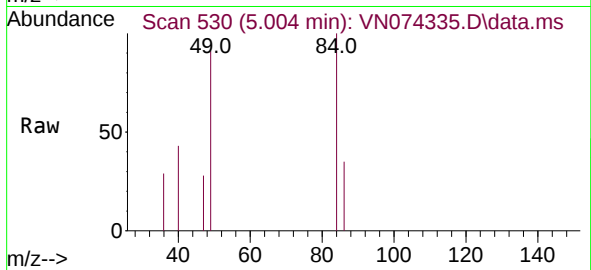


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.004 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-9

Tgt Ion: 84 Resp: 440

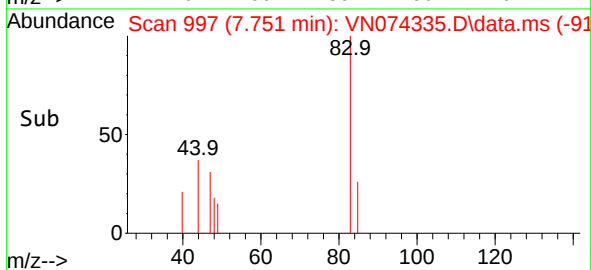
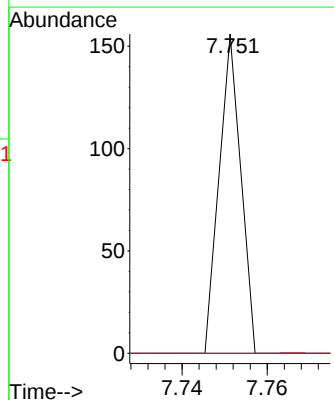
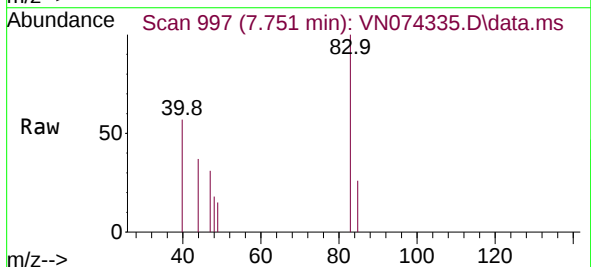
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 53.5  | 88.3  | 132.5# |
| 51  | 0.0   | 28.2  | 42.2#  |
| 86  | 34.7  | 50.6  | 76.0#  |

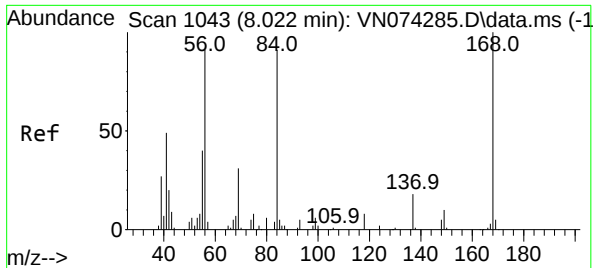


#28  
Bromochloromethane  
Concen: 0.271 ug/l  
RT: 7.751 min Scan# 997  
Delta R.T. 0.165 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 49 Resp: 55

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 49  | 100   |       |        |
| 129 | 0.0   | 0.0   | 4.6    |
| 130 | 0.0   | 69.7  | 104.5# |

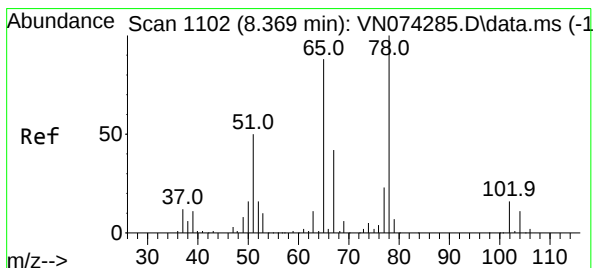
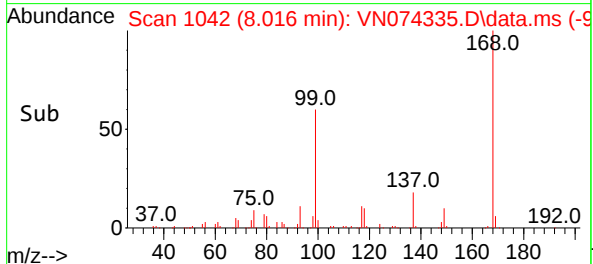
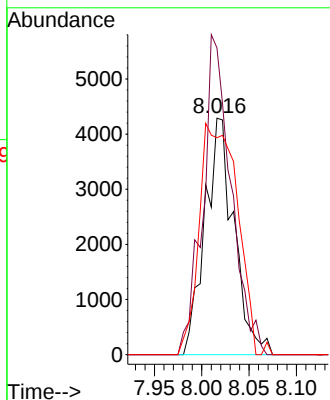
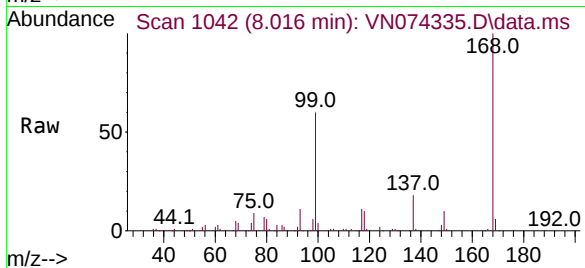




#31  
Cyclohexane  
Concen: 1.406 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

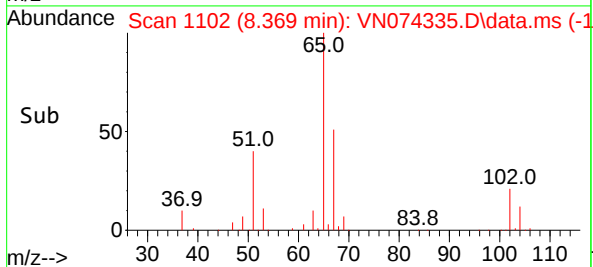
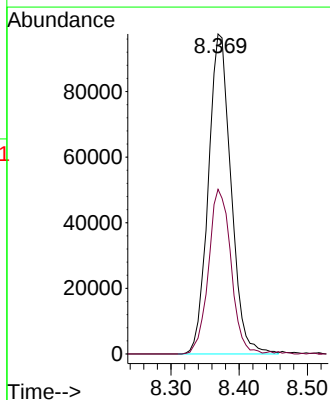
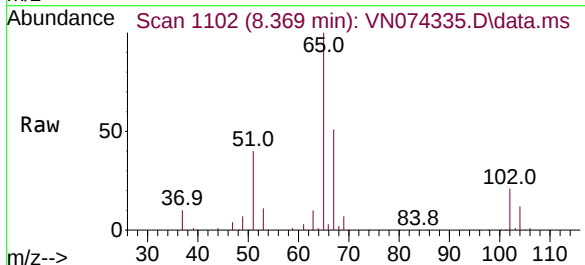
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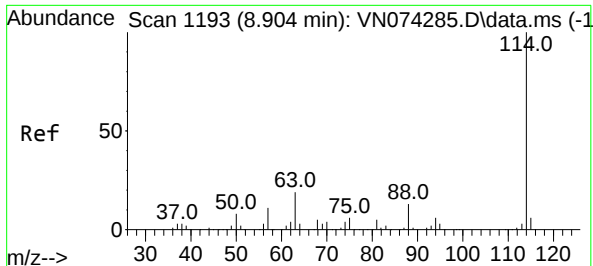
Tgt Ion: 56 Resp: 9160  
Ion Ratio Lower Upper  
56 100  
69 129.8 27.8 41.8#  
84 91.7 76.9 115.3



#33  
1,2-Dichloroethane-d4  
Concen: 46.260 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 65 Resp: 225647  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074335.D

Acq: 03 Sep 2022 22:37

Instrument :

MSVOA\_N

ClientSampleId :

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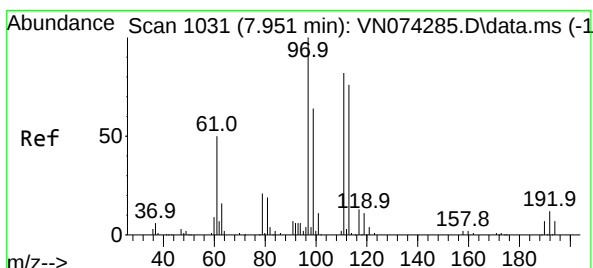
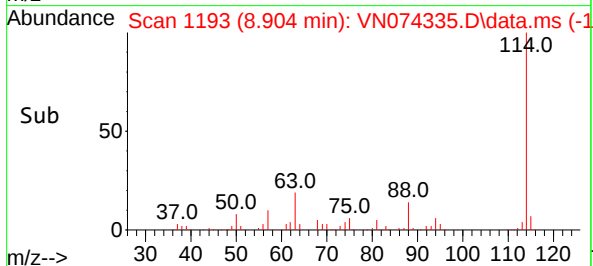
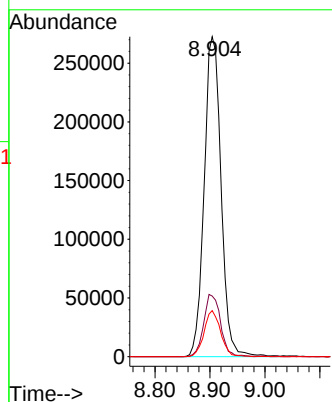
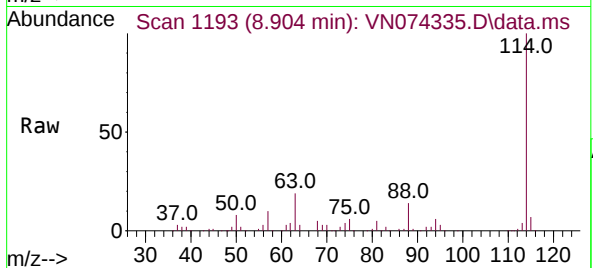
Tgt Ion:114 Resp: 582035

Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.0

88 14.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.055 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074335.D

Acq: 03 Sep 2022 22:37

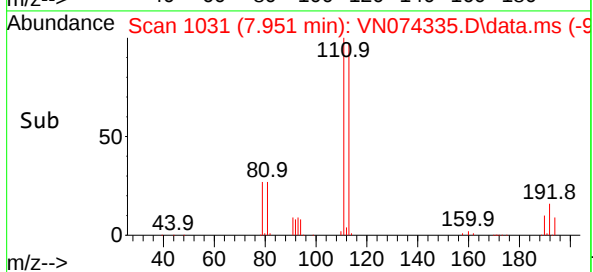
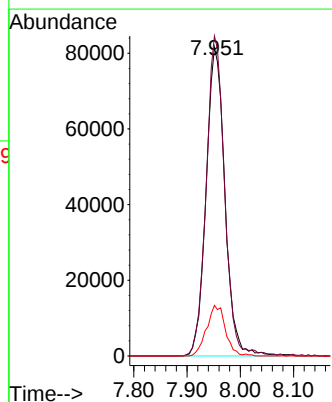
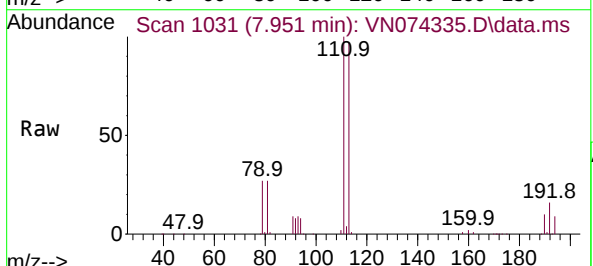
Tgt Ion:113 Resp: 200767

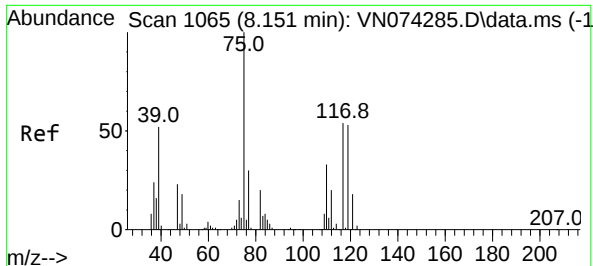
Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

192 16.2 17.0 25.6#





#36

1,1-Dichloropropene

Concen: 4.995 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.135 min

Lab File: VN074335.D

Acq: 03 Sep 2022 22:37

Instrument :

MSVOA\_N

ClientSampleId :

MW-9

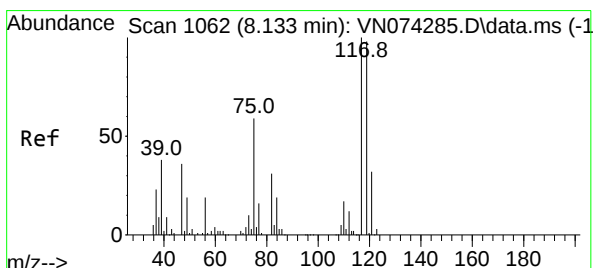
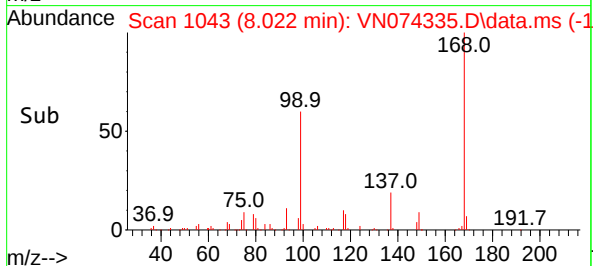
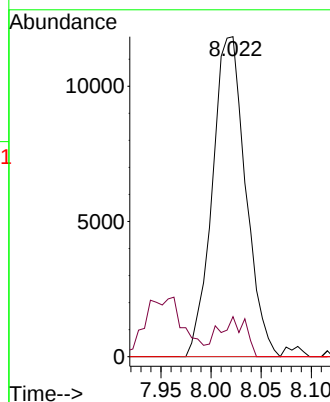
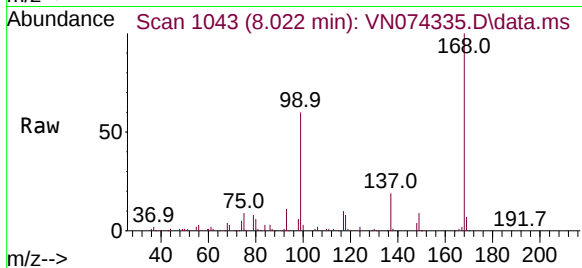
Tgt Ion: 75 Resp: 27341

Ion Ratio Lower Upper

75 100

110 10.1 18.3 54.8#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.166 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.117 min

Lab File: VN074335.D

Acq: 03 Sep 2022 22:37

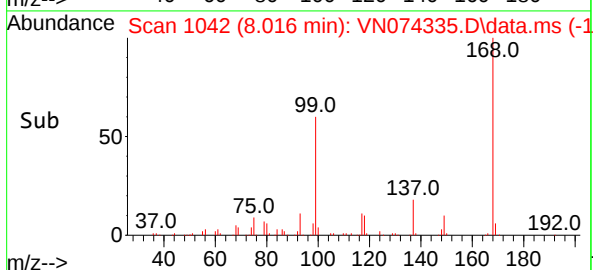
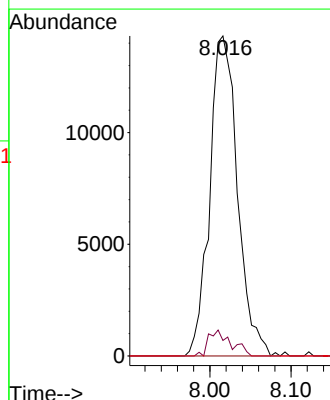
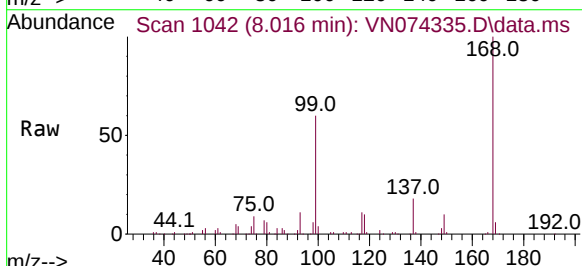
Tgt Ion: 117 Resp: 34098

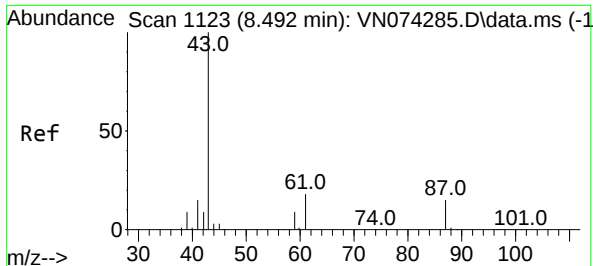
Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 0.352 ug/l

RT: 8.622 min Scan# 1123

Delta R.T. 0.130 min

Lab File: VN074335.D

Acq: 03 Sep 2022 22:37

Instrument :

MSVOA\_N

ClientSampleId :

MW-9

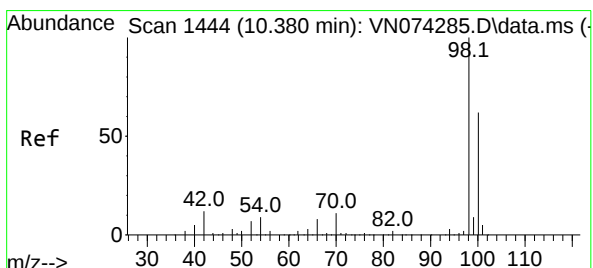
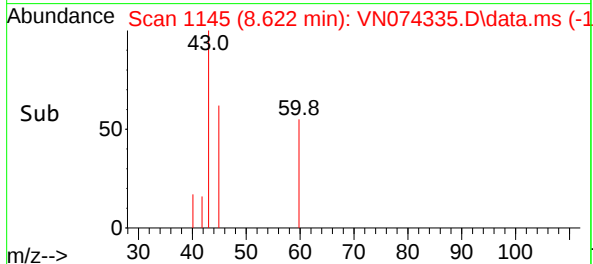
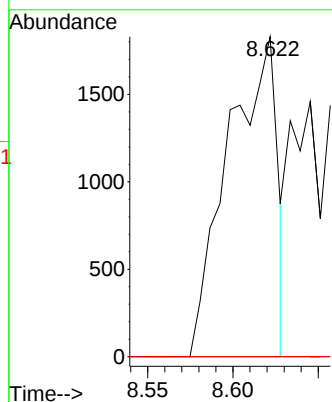
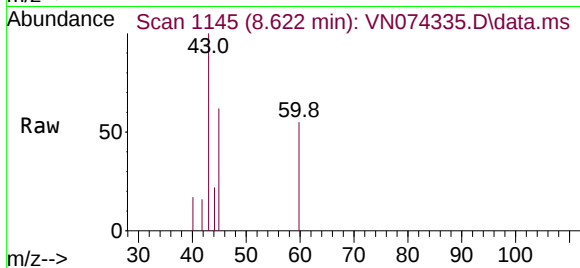
Tgt Ion: 43 Resp: 3661

Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#



#50

Toluene-d8

Concen: 44.845 ug/l

RT: 10.381 min Scan# 1444

Delta R.T. 0.001 min

Lab File: VN074335.D

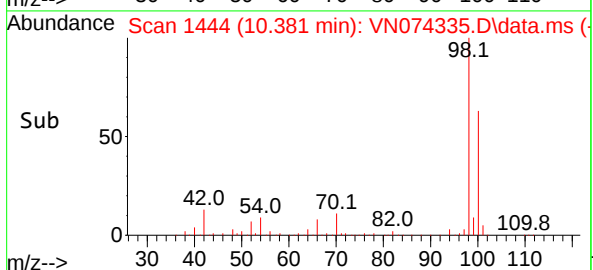
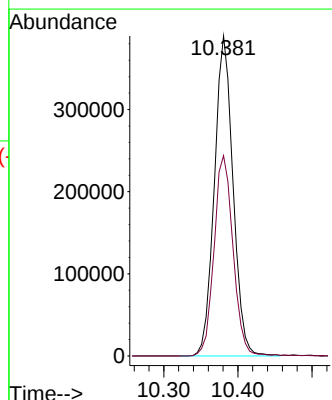
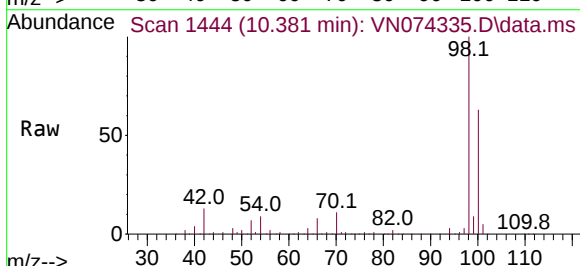
Acq: 03 Sep 2022 22:37

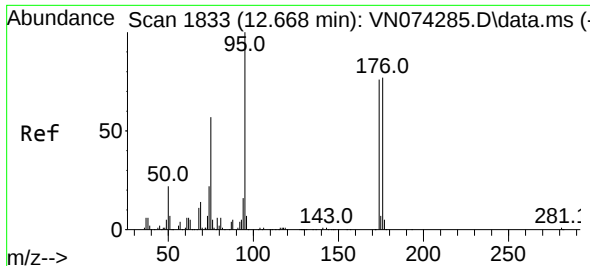
Tgt Ion: 98 Resp: 682021

Ion Ratio Lower Upper

98 100

100 63.9 52.6 78.8

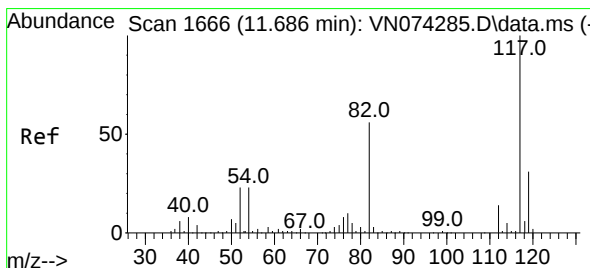
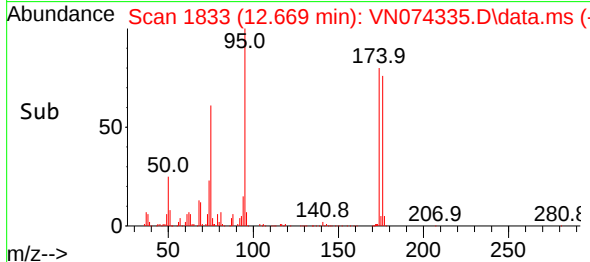
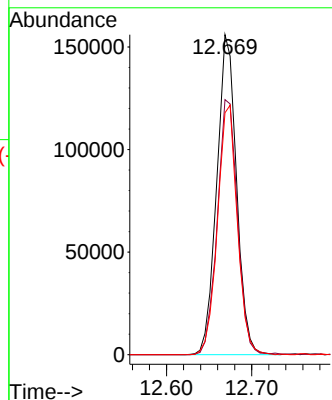
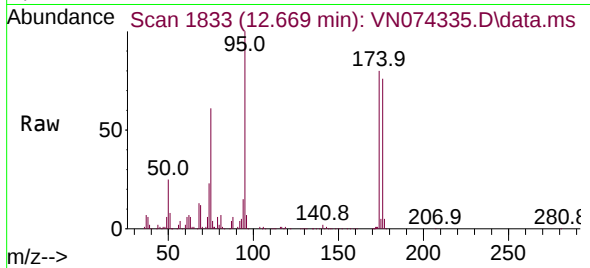




#62  
4-Bromofluorobenzene  
Concen: 45.433 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.000 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

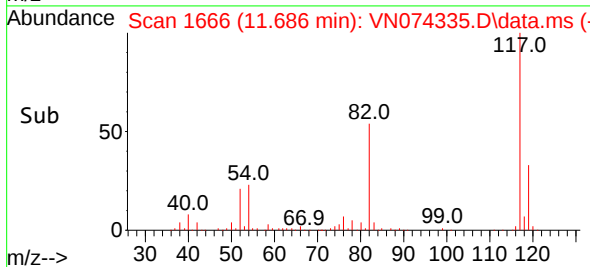
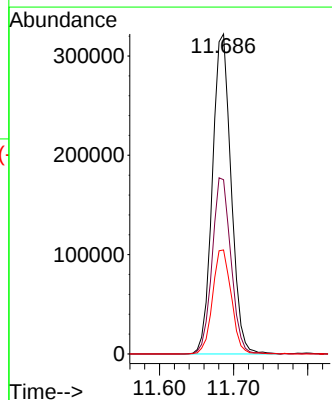
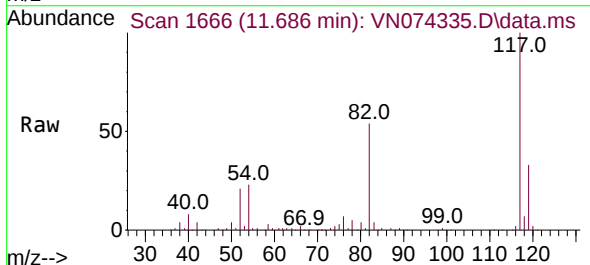
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-9

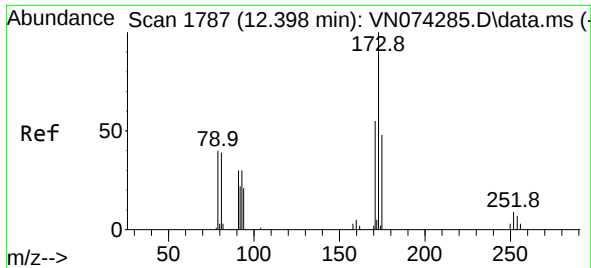
Tgt Ion: 95 Resp: 251300  
Ion Ratio Lower Upper  
95 100  
174 81.6 0.0 167.6  
176 78.1 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 117 Resp: 564509  
Ion Ratio Lower Upper  
117 100  
82 54.4 44.2 66.2  
119 32.5 25.4 38.0

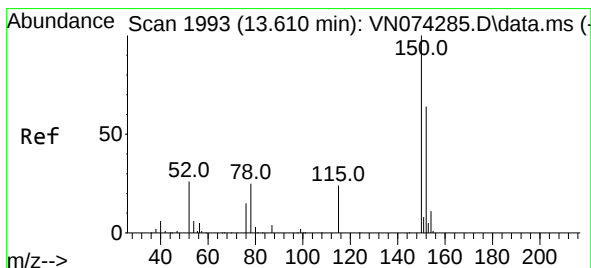
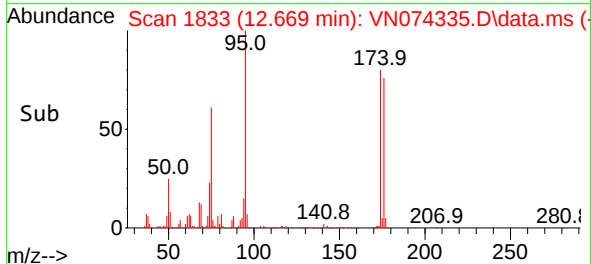
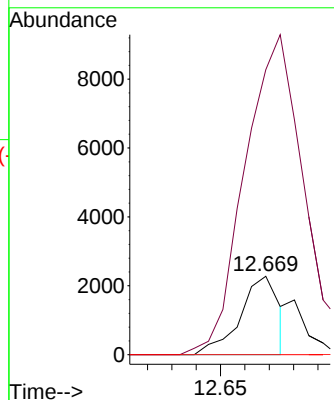
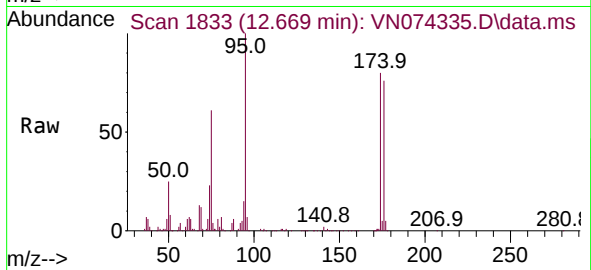




#71  
Bromoform  
Concen: 0.765 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.271 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

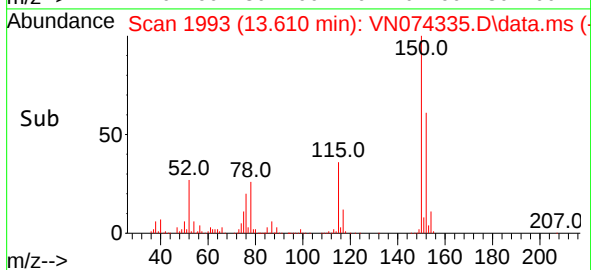
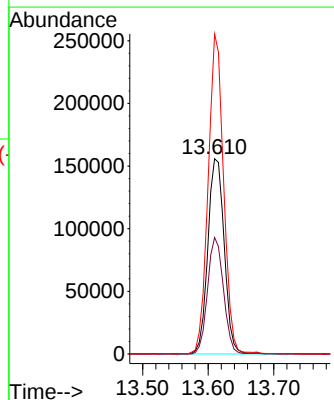
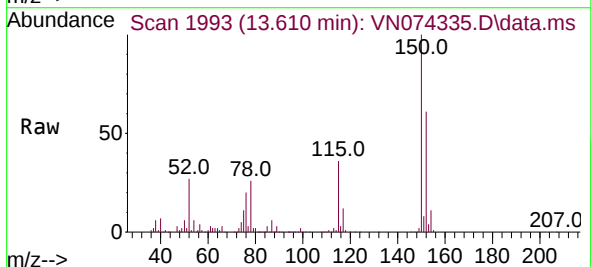
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-9

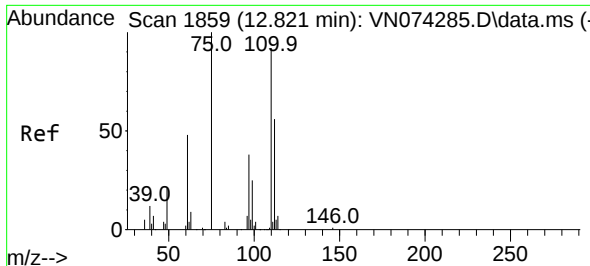
Tgt Ion:173 Resp: 2539  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.6#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.610 min Scan# 1993  
Delta R.T. -0.000 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion:152 Resp: 271168  
Ion Ratio Lower Upper  
152 100  
115 57.8 28.9 86.7  
150 154.6 0.0 356.2

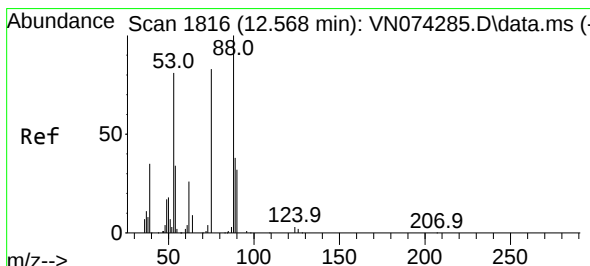
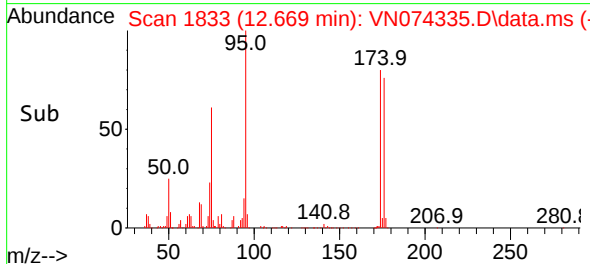
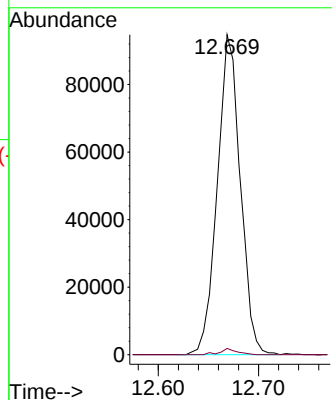
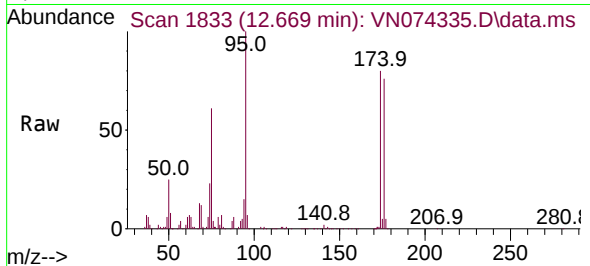




#76  
1,2,3-Trichloropropane  
Concen: 19.629 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.152 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

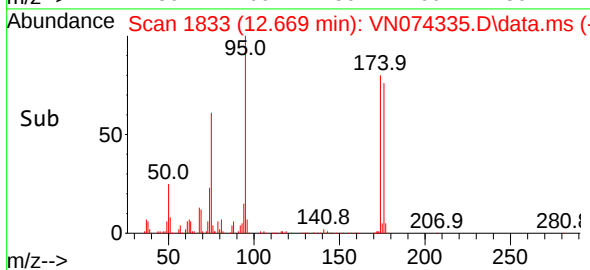
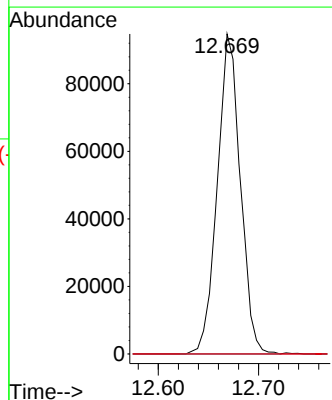
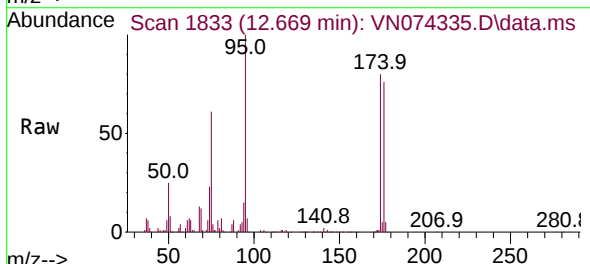
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-9

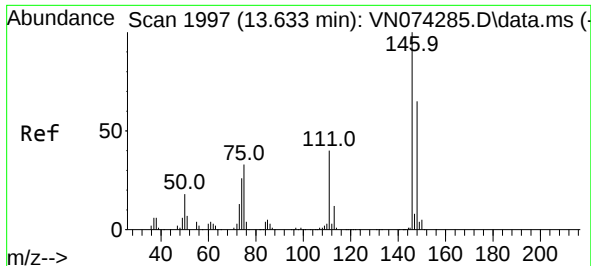
Tgt Ion: 75 Resp: 150750  
Ion Ratio Lower Upper  
75 100  
77 1.4 98.5 295.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.720 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.106 min  
Lab File: VN074335.D  
Acq: 03 Sep 2022 22:37

Tgt Ion: 75 Resp: 150750  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 37.2 55.8#

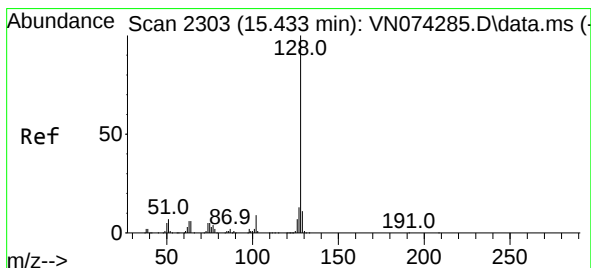
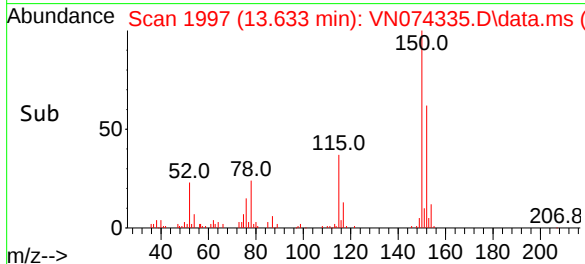
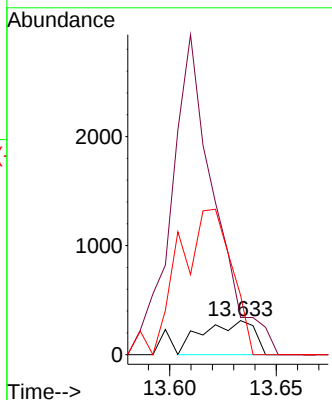
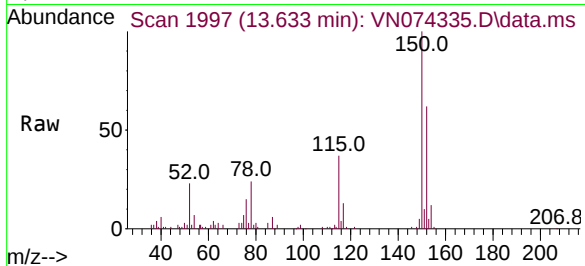




#88  
 1,4-Dichlorobenzene  
 Concen: 0.219 ug/l  
 RT: 13.633 min Scan# 1997  
 Delta R.T. 0.000 min  
 Lab File: VN074335.D  
 Acq: 03 Sep 2022 22:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-9

Tgt Ion:146 Resp: 519  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 19.1 57.1#  
 148 449.3 31.4 94.3#



#95  
 Naphthalene  
 Concen: 0.879 ug/l  
 RT: 15.433 min Scan# 2303  
 Delta R.T. 0.000 min  
 Lab File: VN074335.D  
 Acq: 03 Sep 2022 22:37

Tgt Ion:128 Resp: 2308  
 Ion Ratio Lower Upper  
 128 100  
 127 0.0 10.3 15.5#  
 129 3.1 8.6 13.0#

