

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042723\  
 Data File : VN077490.D  
 Acq On : 27 Apr 2023 11:59  
 Operator : JC\MD  
 Sample : 02520-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EB-01-042623

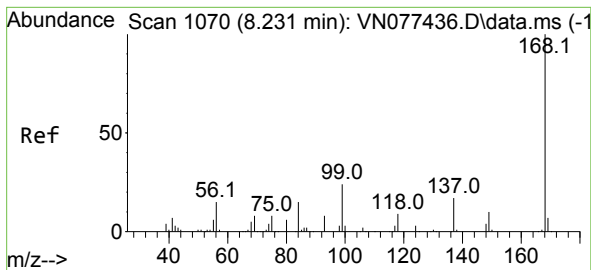
Quant Time: Apr 28 03:23:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.231          | 168  | 581715              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107          | 114  | 1099623             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.872         | 117  | 969937              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 337663              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.584          | 65   | 389098              | 51.260 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 102.520% |        |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 336149              | 50.861 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.720% |        |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 1323014             | 52.230 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 104.460% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 405293              | 48.904 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 97.800%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.131          | 85   | 217                 | 0.338  | ug/l # | 43       |
| 3) Chloromethane              | 2.378          | 50   | 1692                | 0.290  | ug/l # | 80       |
| 10) Methyl Iodide             | 4.613          | 142  | 1896                | 0.232  | ug/l # | 57       |
| 11) Tert butyl alcohol        | 5.543          | 59   | 392                 | 0.322  | ug/l # | 72       |
| 13) Acrolein                  | 4.196          | 56   | 415                 | 0.342  | ug/l # | 2        |
| 16) Acetone                   | 4.449          | 43   | 13220               | 5.474  | ug/l # | 86       |
| 20) Methylene Chloride        | 5.284          | 84   | 7493                | 0.978  | ug/l # | 69       |
| 25) 2-Butanone                | 7.507          | 43   | 3073                | 0.897  | ug/l # | 37       |
| 29) Tetrahydrofuran           | 7.854          | 42   | 760                 | 0.354  | ug/l # | 86       |
| 31) Cyclohexane               | 8.237          | 56   | 13013               | 1.210  | ug/l # | 25       |
| 36) 1,1-Dichloropropene       | 8.231          | 75   | 51264               | 5.369  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.231          | 117  | 65183               | 6.187  | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.448         | 43   | 2800                | 0.380  | ug/l # | 83       |
| 59) 2-Hexanone                | 11.219         | 43   | 1752                | 0.327  | ug/l   | 71       |
| 71) Bromoform                 | 12.848         | 173  | 1439                | 0.295  | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.854         | 75   | 218732              | 27.857 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854         | 75   | 218732              | 78.700 | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 15.371         | 180  | 947                 | 1.183  | ug/l # | 89       |
| 95) Naphthalene               | 15.589         | 128  | 4922                | 1.682  | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene    | 15.760         | 180  | 703                 | 0.787  | ug/l # | 83       |
| -----                         |                |      |                     |        |        |          |

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

Quant Time: Apr 28 03:23:58 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 25 02:50:59 2023  
Response via : Initial Calibration

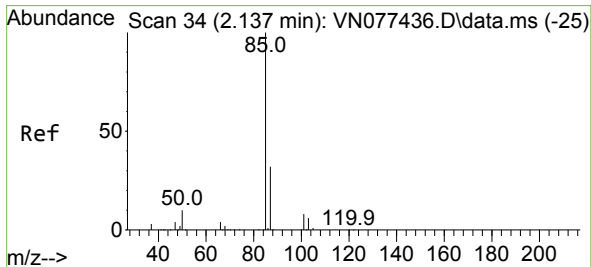
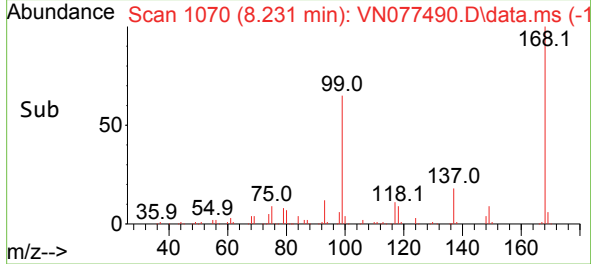
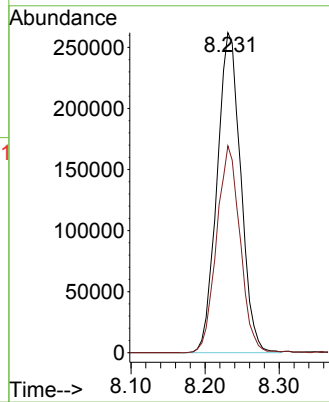
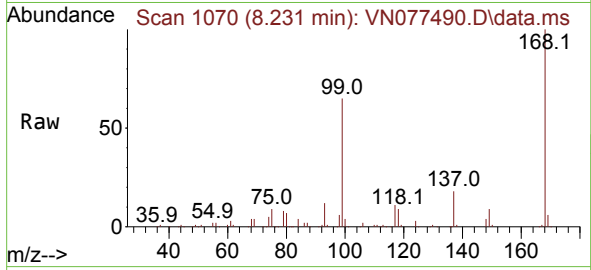




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

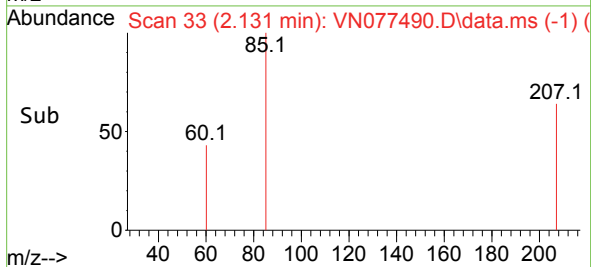
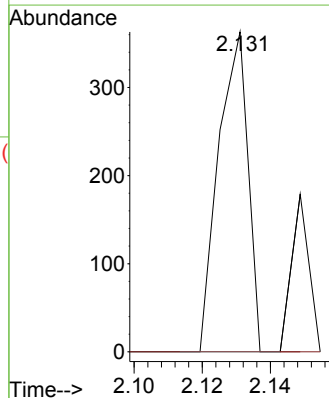
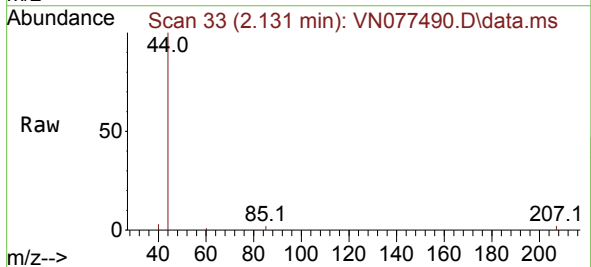
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

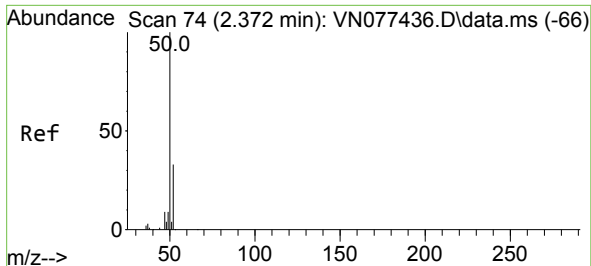
Tgt Ion:168 Resp: 581715  
Ion Ratio Lower Upper  
168 100  
99 64.7 53.0 79.6



#2  
Dichlorodifluoromethane  
Concen: 0.338 ug/l  
RT: 2.131 min Scan# 33  
Delta R.T. -0.006 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 85 Resp: 217  
Ion Ratio Lower Upper  
85 100  
87 0.0 15.8 47.4#

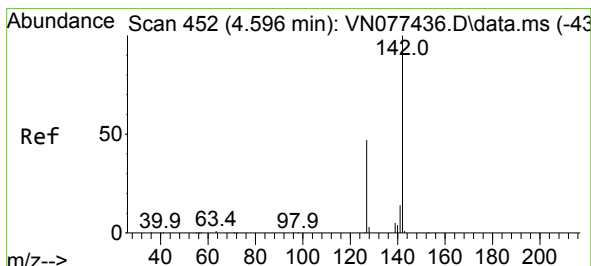
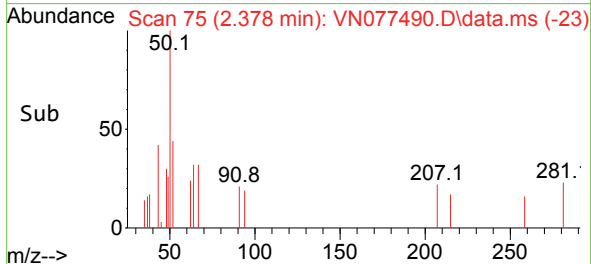
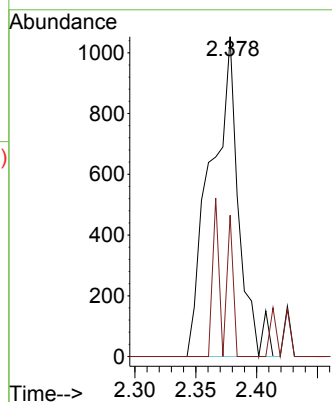
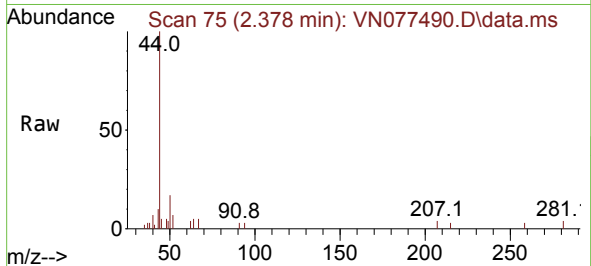




#3  
Chloromethane  
Concen: 0.290 ug/l  
RT: 2.378 min Scan# 74  
Delta R.T. 0.006 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

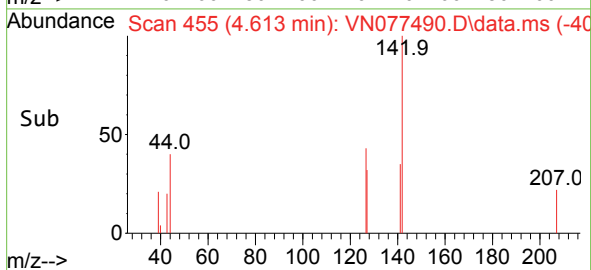
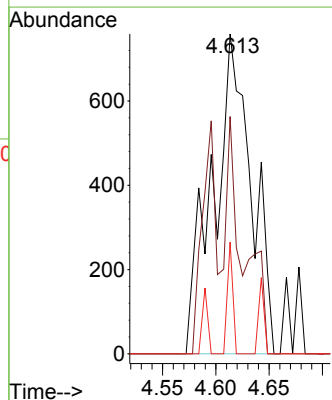
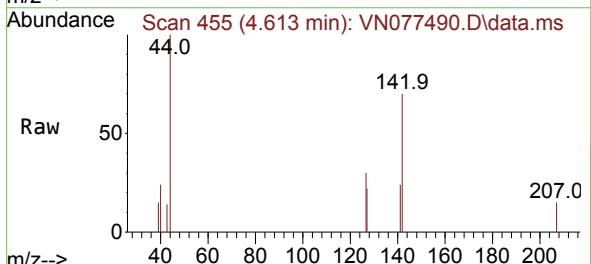
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

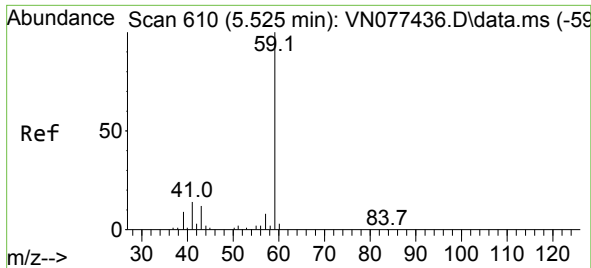
Tgt Ion: 50 Resp: 1692  
Ion Ratio Lower Upper  
50 100  
52 44.2 26.5 39.7#



#10  
Methyl Iodide  
Concen: 0.232 ug/l  
RT: 4.613 min Scan# 455  
Delta R.T. 0.018 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 142 Resp: 1896  
Ion Ratio Lower Upper  
142 100  
127 74.2 37.6 56.4#  
141 34.9 11.4 17.0#

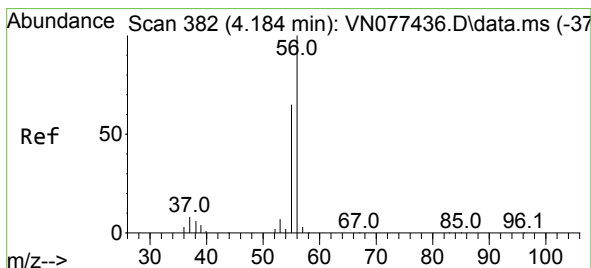
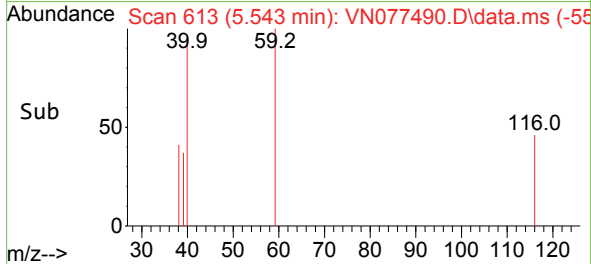
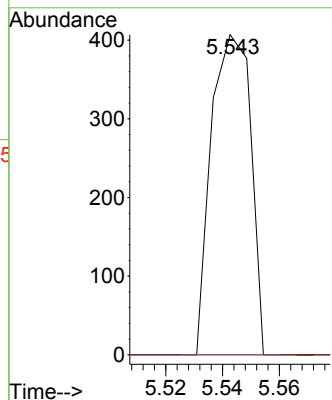
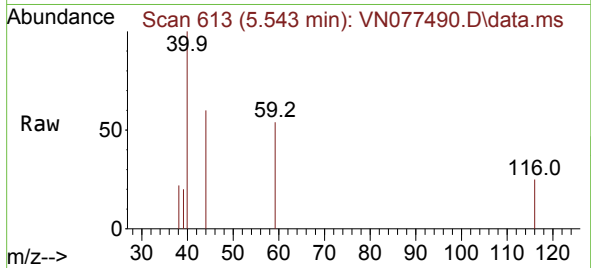




#11  
Tert butyl alcohol  
Concen: 0.322 ug/l  
RT: 5.543 min Scan# 611  
Delta R.T. 0.018 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

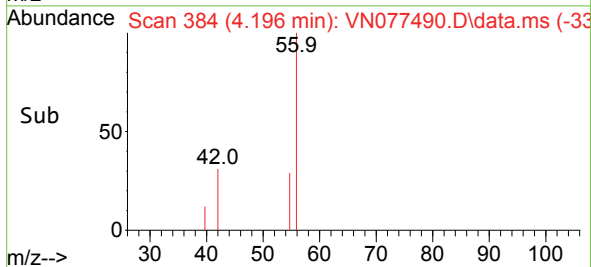
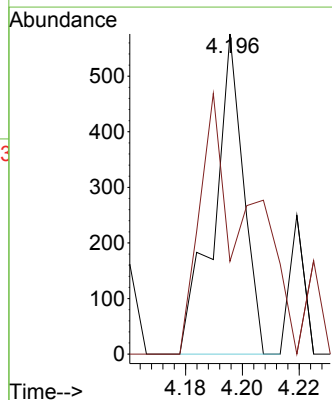
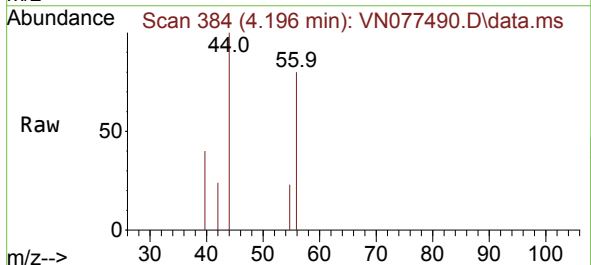
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

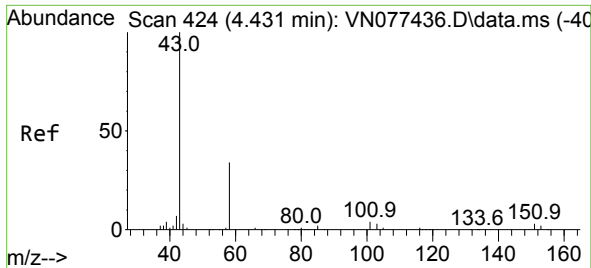
Tgt Ion: 59 Resp: 392  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#13  
Acrolein  
Concen: 0.342 ug/l  
RT: 4.196 min Scan# 384  
Delta R.T. 0.012 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 56 Resp: 415  
Ion Ratio Lower Upper  
56 100  
55 147.2 54.5 81.7#

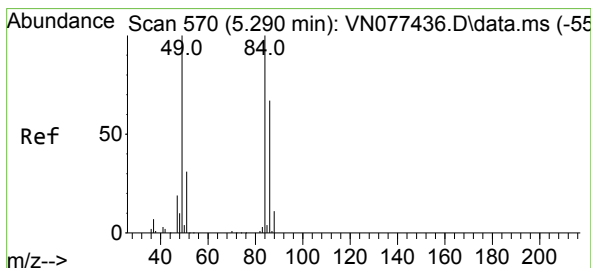
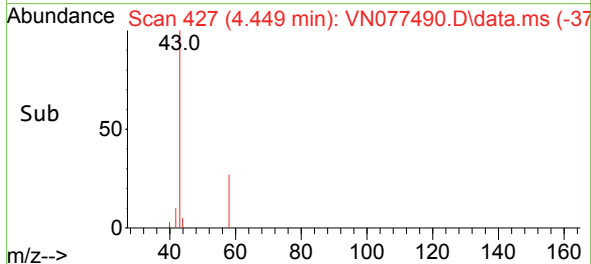
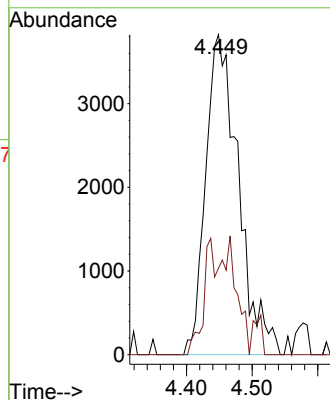
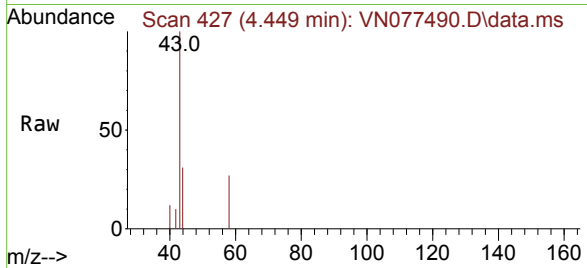




#16  
Acetone  
Concen: 5.474 ug/l  
RT: 4.449 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

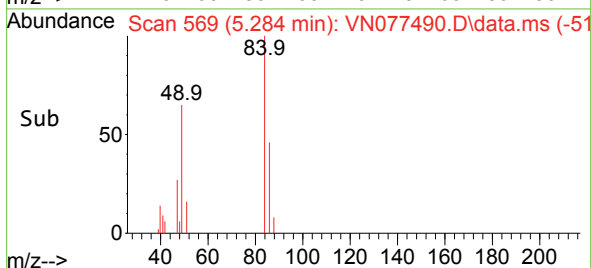
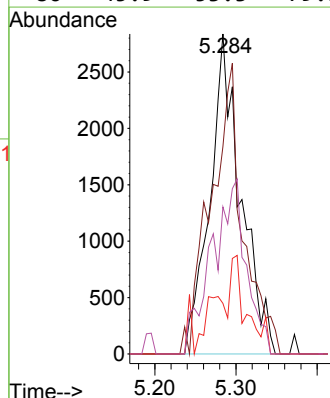
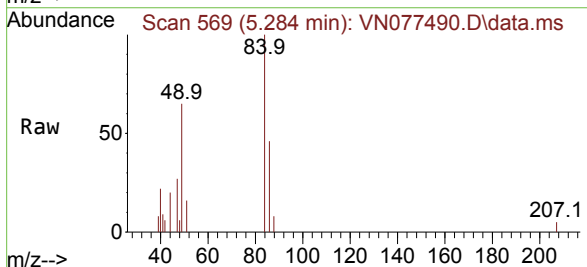
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

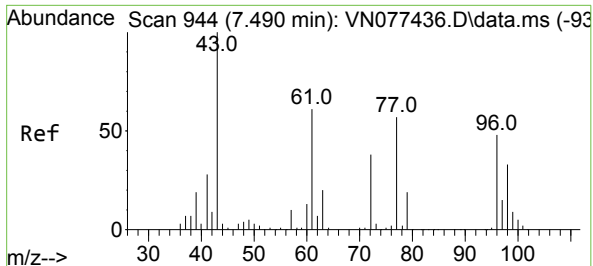
Tgt Ion: 43 Resp: 13220  
Ion Ratio Lower Upper  
43 100  
58 27.0 28.0 42.0#



#20  
Methylene Chloride  
Concen: 0.978 ug/l  
RT: 5.284 min Scan# 569  
Delta R.T. -0.006 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 84 Resp: 7493  
Ion Ratio Lower Upper  
84 100  
49 64.8 79.7 119.5#  
51 15.8 25.2 37.8#  
86 45.9 53.3 79.9#

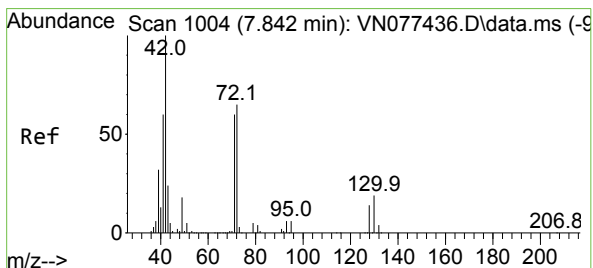
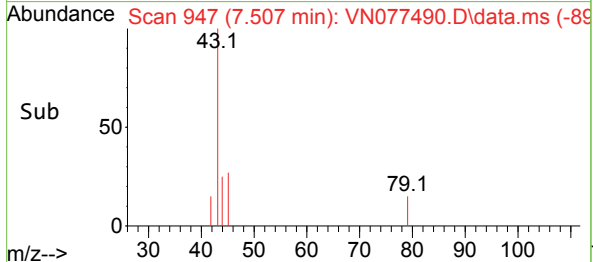
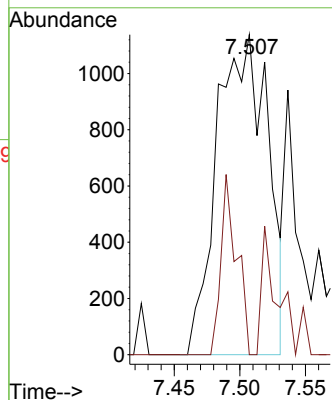
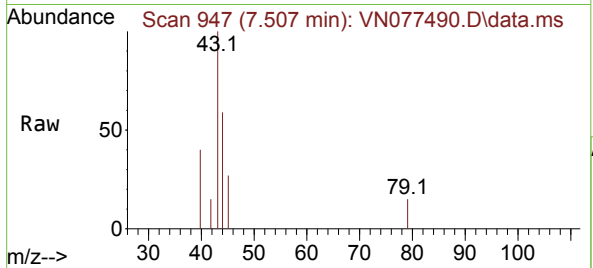




#25  
2-Butanone  
Concen: 0.897 ug/l  
RT: 7.507 min Scan# 944  
Delta R.T. 0.018 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

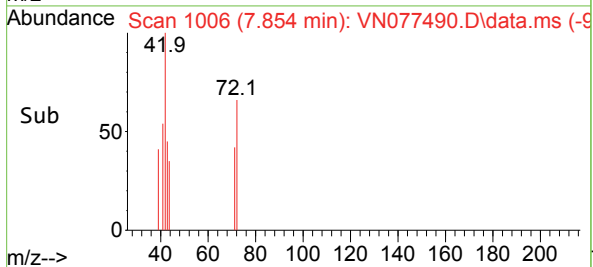
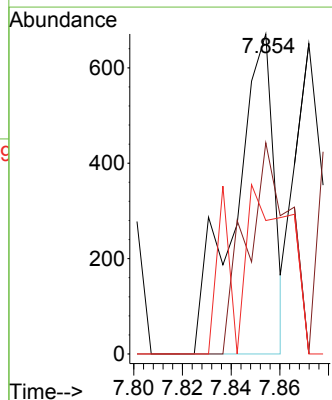
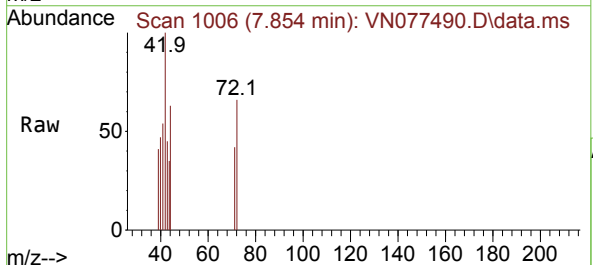
Instrument :  
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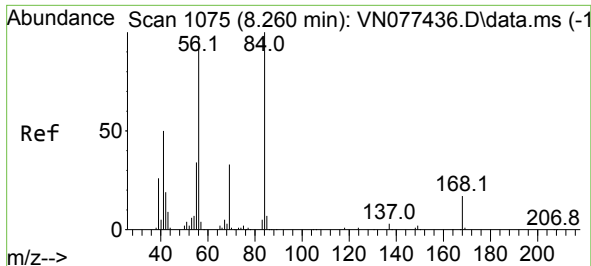
Tgt Ion: 43 Resp: 3073  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



#29  
Tetrahydrofuran  
Concen: 0.354 ug/l  
RT: 7.854 min Scan# 1006  
Delta R.T. 0.012 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 42 Resp: 760  
Ion Ratio Lower Upper  
42 100  
72 70.3 49.8 74.6  
71 72.8 47.4 71.2#

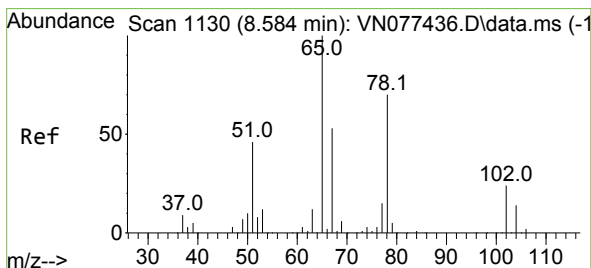
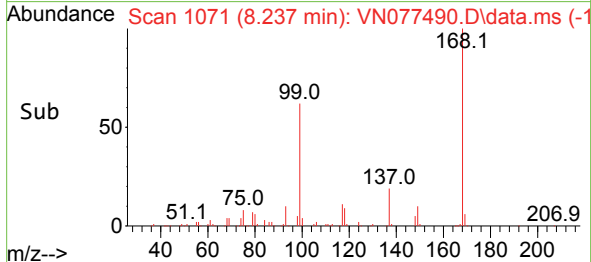
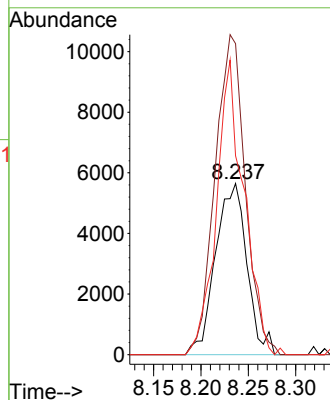
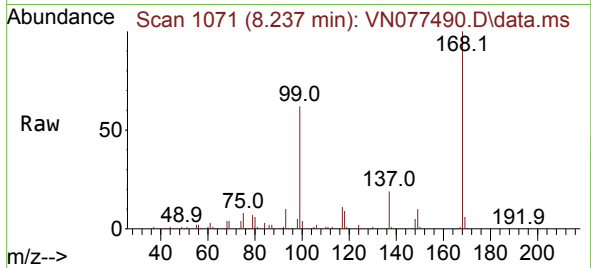




#31  
Cyclohexane  
Concen: 1.210 ug/l  
RT: 8.237 min Scan# 1071  
Delta R.T. -0.024 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

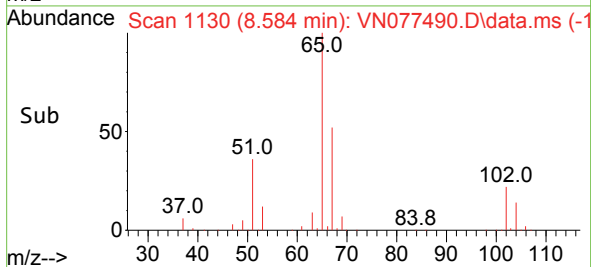
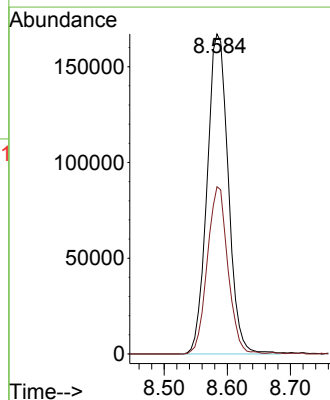
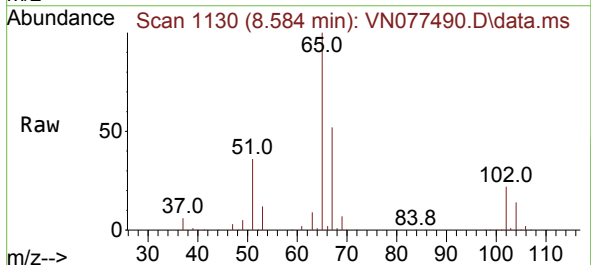
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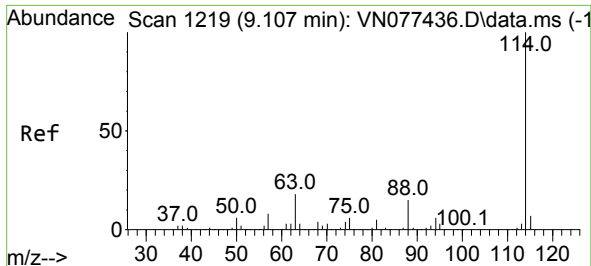
Tgt Ion: 56 Resp: 13013  
Ion Ratio Lower Upper  
56 100  
69 181.7 26.8 40.2#  
84 116.2 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 51.260 ug/l  
RT: 8.584 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 65 Resp: 389098  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077490.D

Acq: 27 Apr 2023 11:59

Instrument :

MSVOA\_N

ClientSampleId :

EB-01-042623

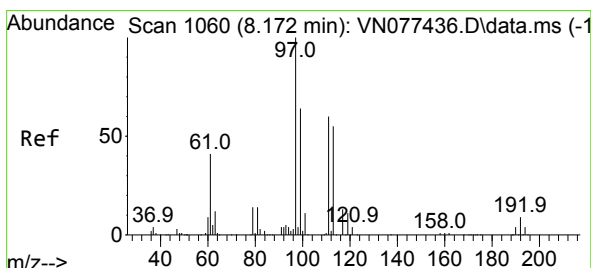
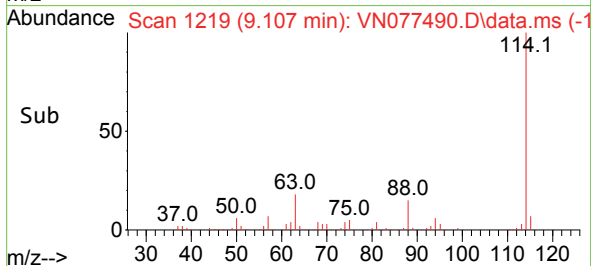
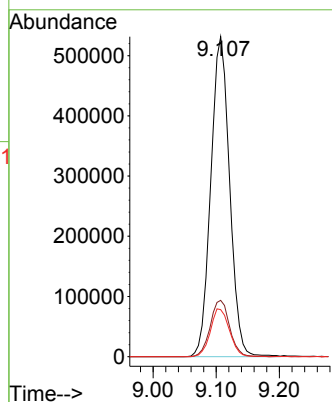
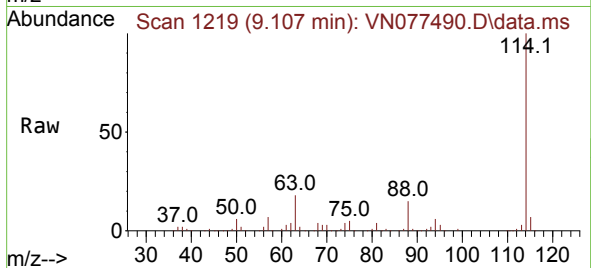
Tgt Ion:114 Resp: 1099623

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.4

88 14.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.861 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077490.D

Acq: 27 Apr 2023 11:59

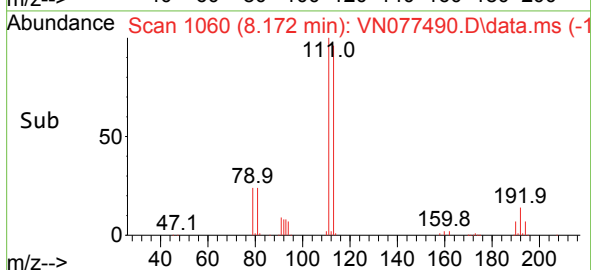
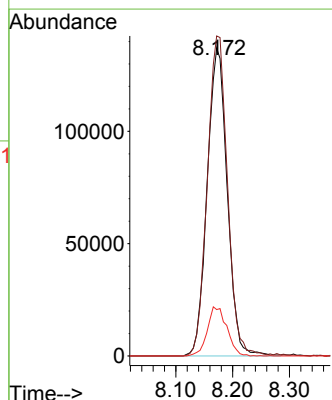
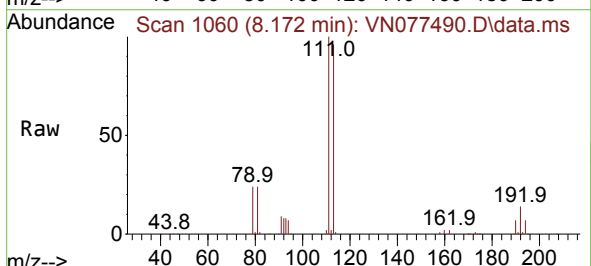
Tgt Ion:113 Resp: 336149

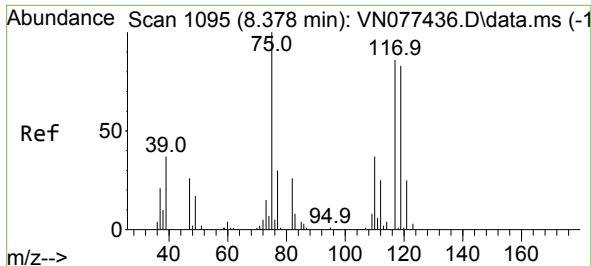
Ion Ratio Lower Upper

113 100

111 104.1 82.6 123.8

192 15.5 12.7 19.1

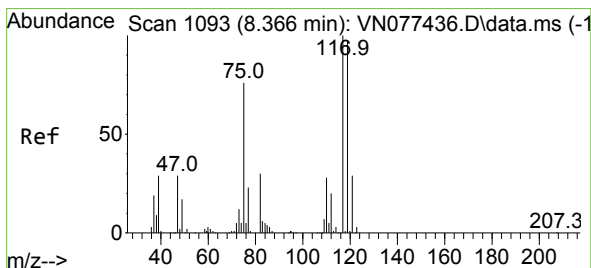
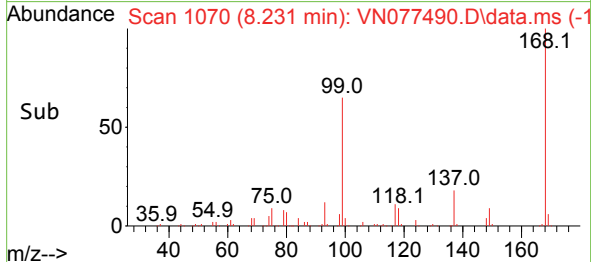
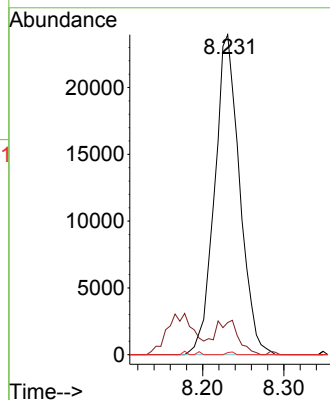
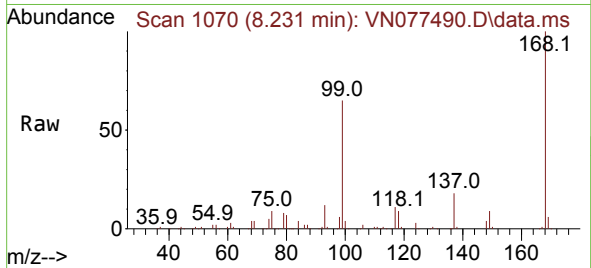




#36  
1,1-Dichloropropene  
Concen: 5.369 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.147 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

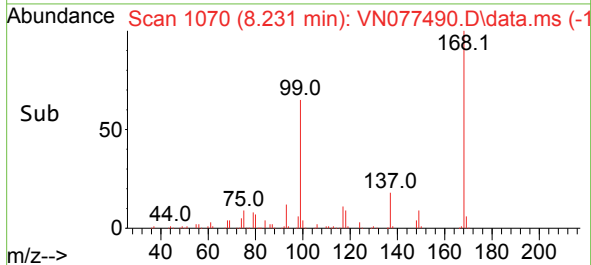
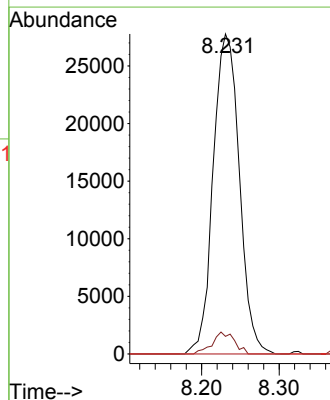
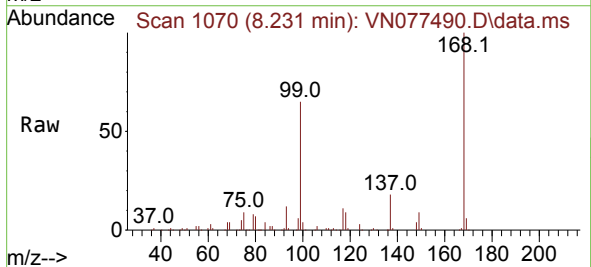
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

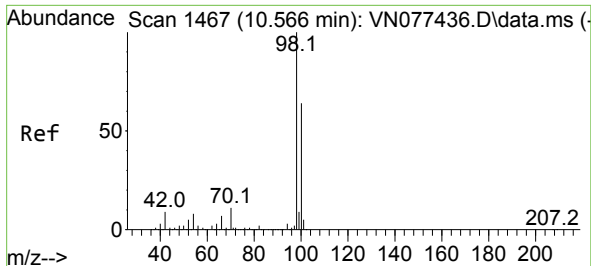
Tgt Ion: 75 Resp: 51264  
Ion Ratio Lower Upper  
75 100  
110 10.4 19.1 57.3#  
77 0.2 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 6.187 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.135 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 117 Resp: 65183  
Ion Ratio Lower Upper  
117 100  
119 5.5 77.3 115.9#  
121 0.0 23.3 34.9#

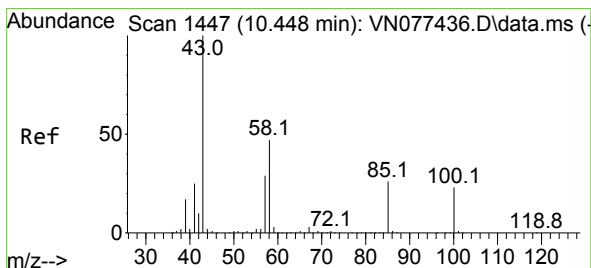
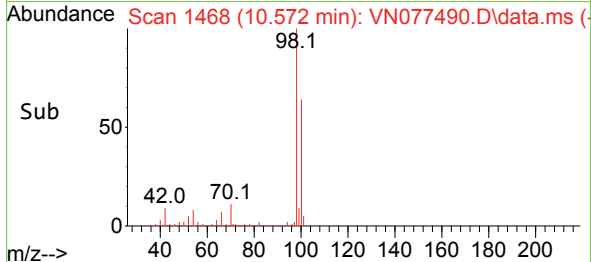
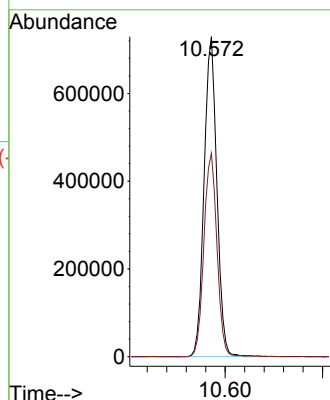
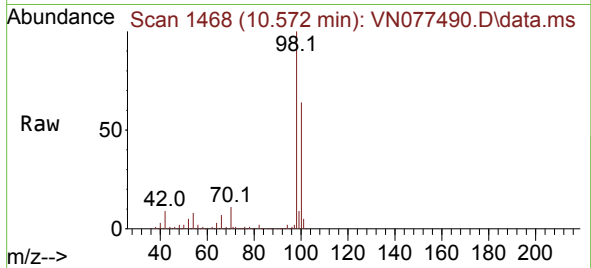




#50  
Toluene-d8  
Concen: 52.230 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.006 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

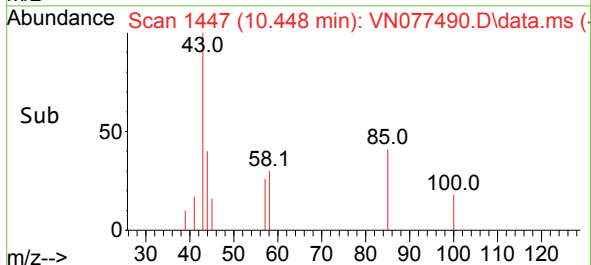
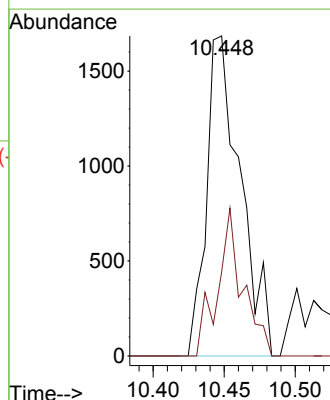
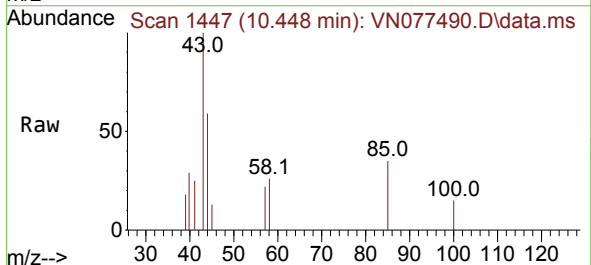
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

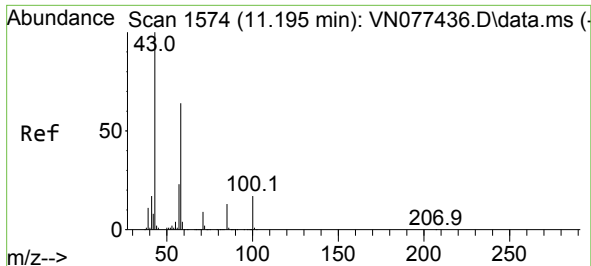
Tgt Ion: 98 Resp: 1323014  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.380 ug/l  
RT: 10.448 min Scan# 1447  
Delta R.T. 0.000 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 43 Resp: 2800  
Ion Ratio Lower Upper  
43 100  
58 34.4 36.6 54.8#

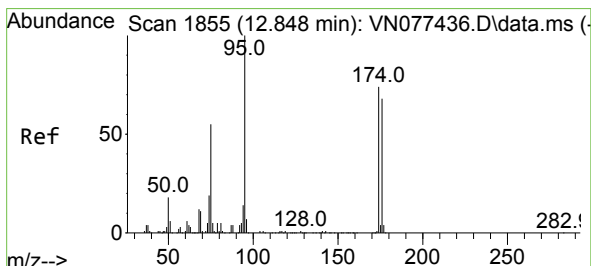
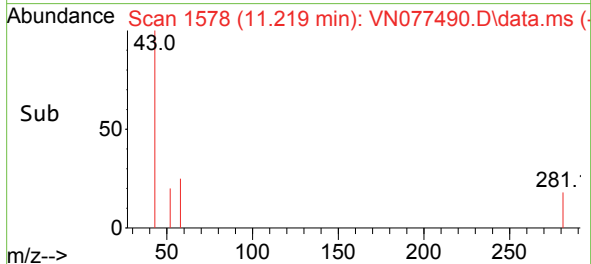
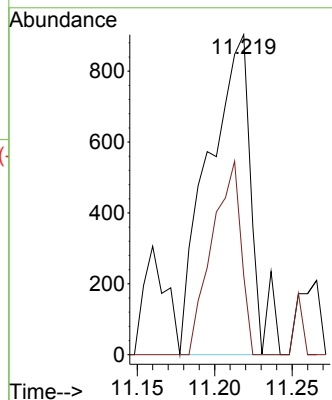
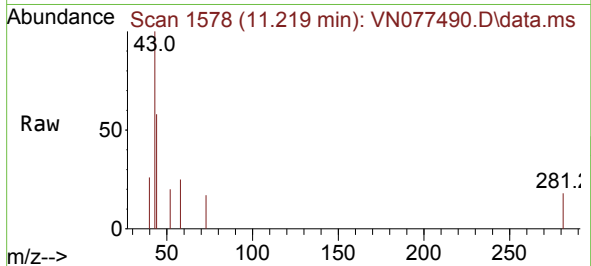




#59  
2-Hexanone  
Concen: 0.327 ug/l  
RT: 11.219 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

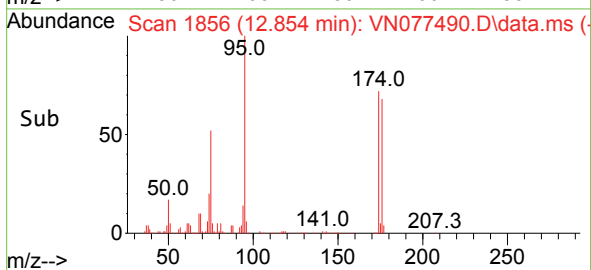
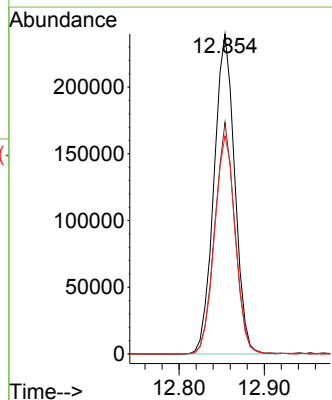
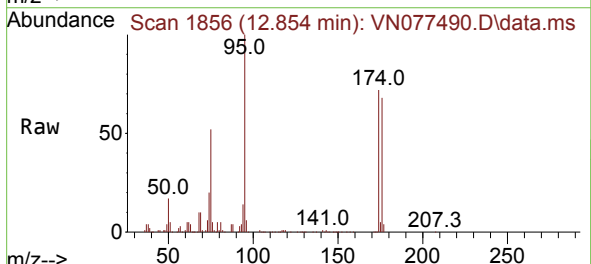
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

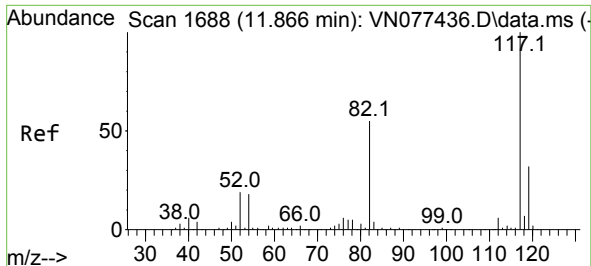
Tgt Ion: 43 Resp: 1752  
Ion Ratio Lower Upper  
43 100  
58 40.6 31.7 95.1



#62  
4-Bromofluorobenzene  
Concen: 48.904 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 95 Resp: 405293  
Ion Ratio Lower Upper  
95 100  
174 69.8 0.0 143.8  
176 68.3 0.0 135.8

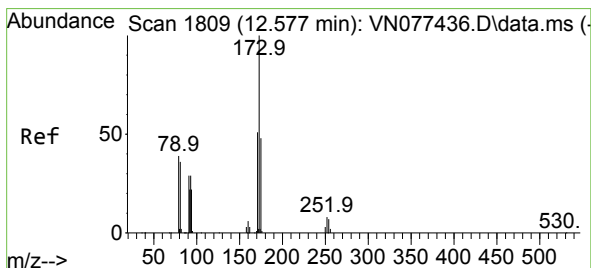
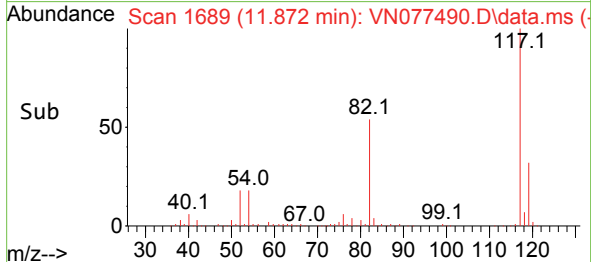
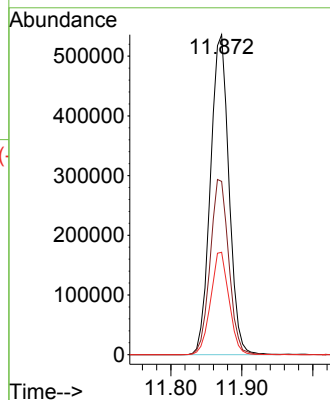
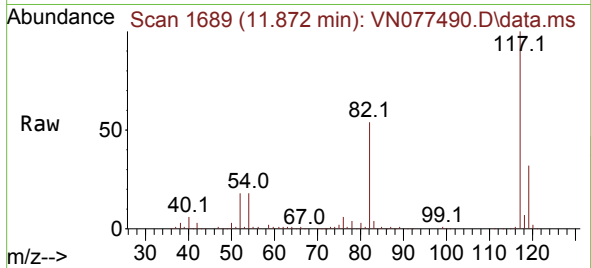




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

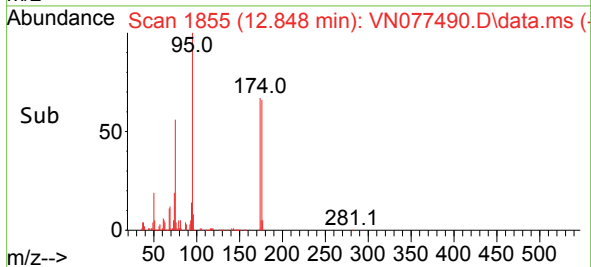
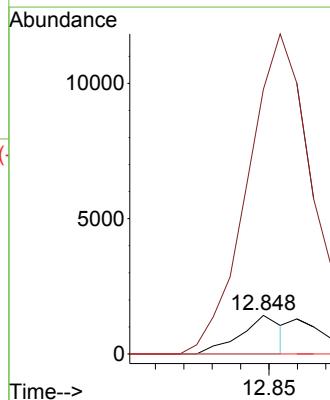
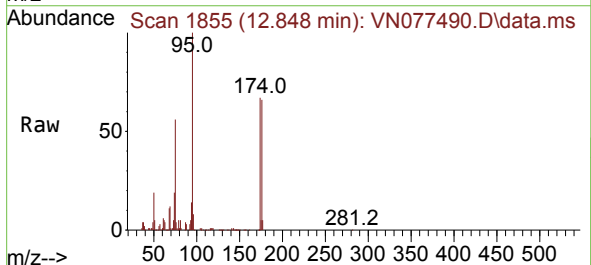
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

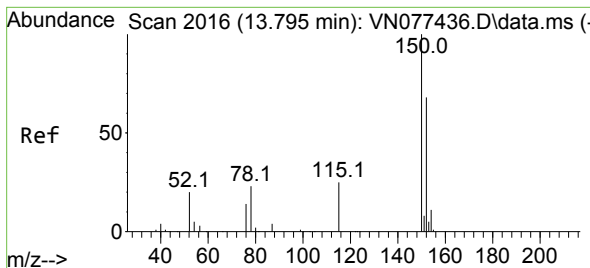
Tgt Ion:117 Resp: 969937  
Ion Ratio Lower Upper  
117 100  
82 54.2 44.0 66.0  
119 32.0 25.6 38.4



#71  
Bromoform  
Concen: 0.295 ug/l  
RT: 12.848 min Scan# 1855  
Delta R.T. 0.271 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion:173 Resp: 1439  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077490.D

Acq: 27 Apr 2023 11:59

Instrument :

MSVOA\_N

ClientSampleId :

EB-01-042623

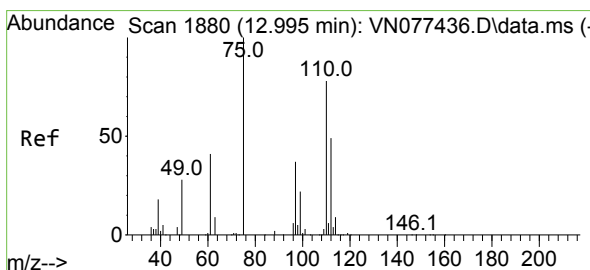
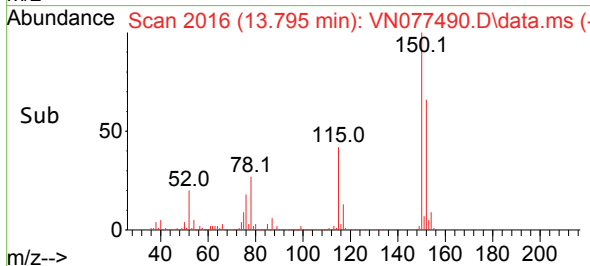
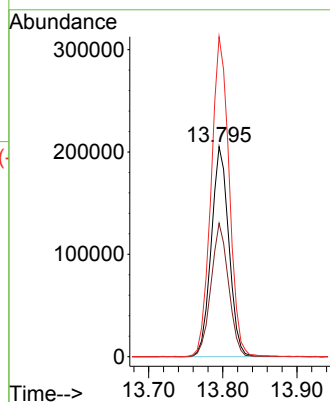
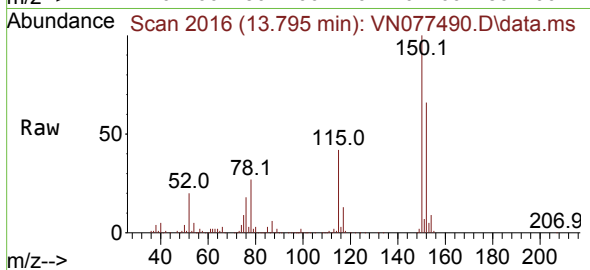
Tgt Ion:152 Resp: 337663

Ion Ratio Lower Upper

152 100

115 63.5 32.3 96.8

150 156.9 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 27.857 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077490.D

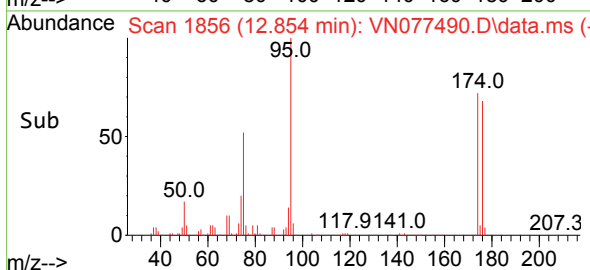
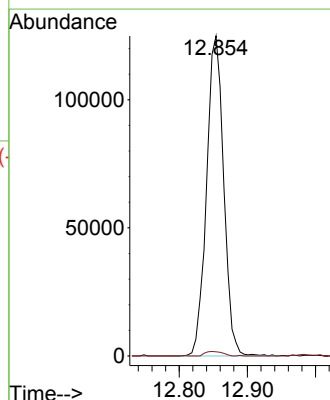
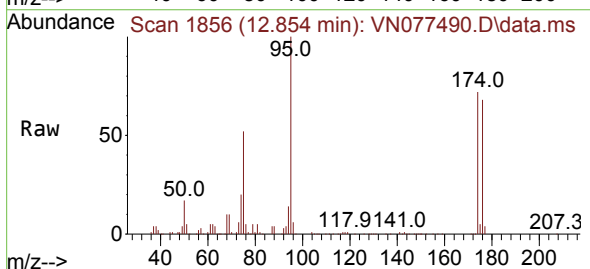
Acq: 27 Apr 2023 11:59

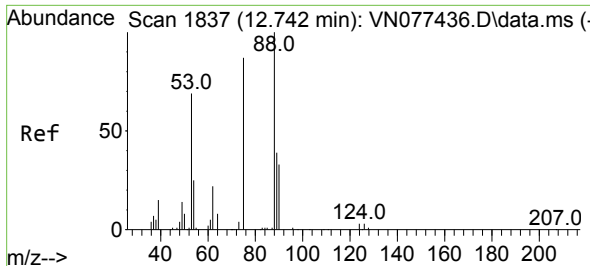
Tgt Ion: 75 Resp: 218732

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#

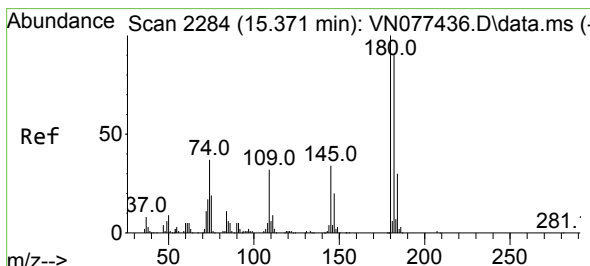
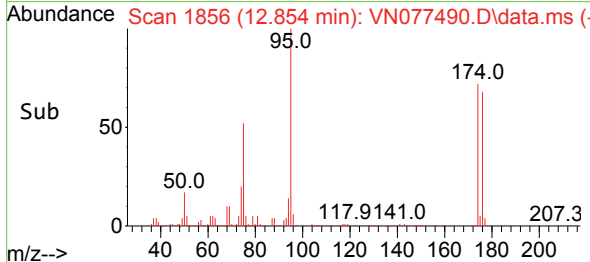
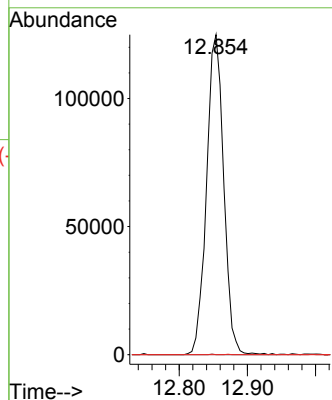
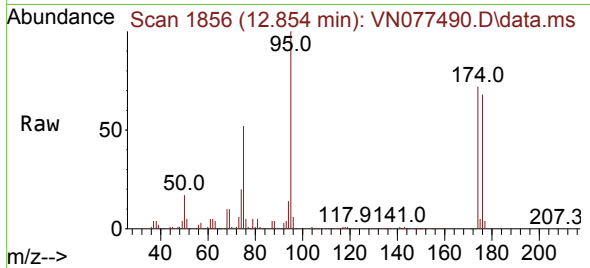




#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.700 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.112 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

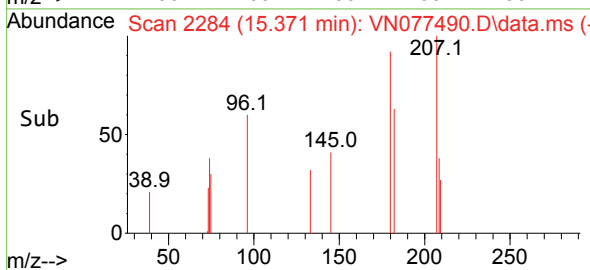
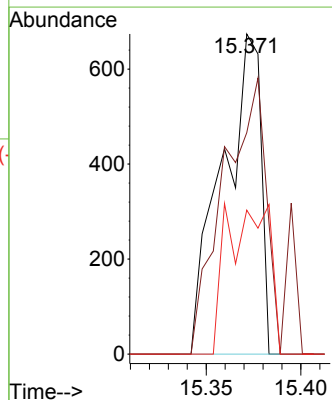
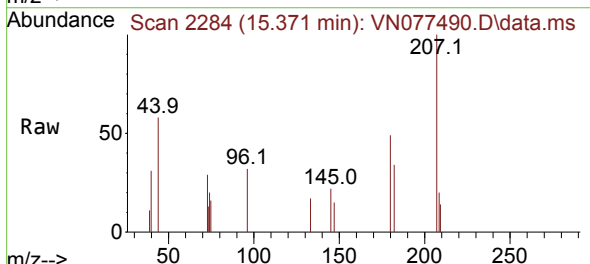
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB-01-042623

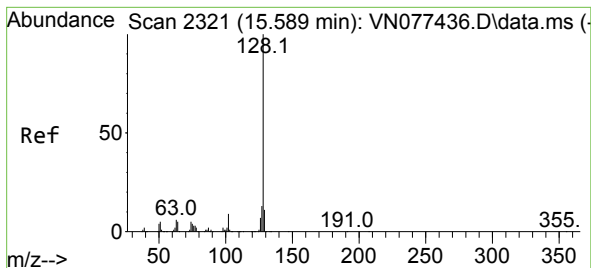
Tgt Ion: 75 Resp: 218732  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.183 ug/l  
RT: 15.371 min Scan# 2284  
Delta R.T. 0.000 min  
Lab File: VN077490.D  
Acq: 27 Apr 2023 11:59

Tgt Ion: 180 Resp: 947  
Ion Ratio Lower Upper  
180 100  
182 95.4 46.1 138.2  
145 51.8 16.6 49.8#





#95

Naphthalene

Concen: 1.682 ug/l

RT: 15.589 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN077490.D

Acq: 27 Apr 2023 11:59

Instrument :

MSVOA\_N

ClientSampleId :

EB-01-042623

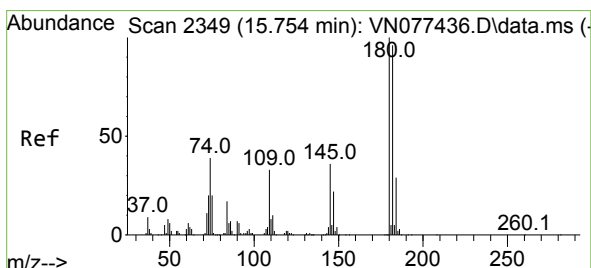
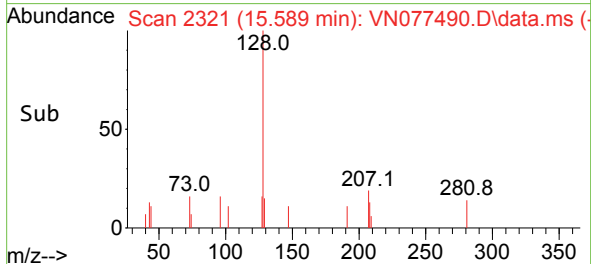
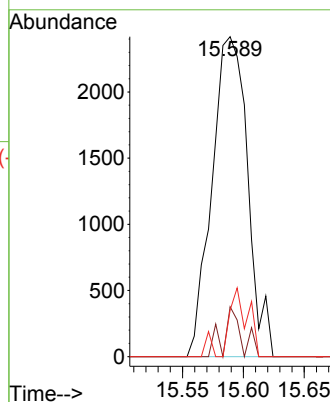
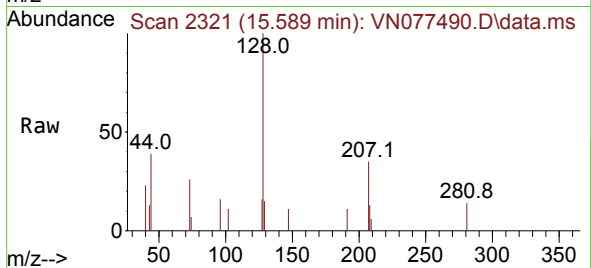
Tgt Ion:128 Resp: 4922

Ion Ratio Lower Upper

128 100

127 8.0 10.0 15.0#

129 10.8 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.787 ug/l

RT: 15.760 min Scan# 2350

Delta R.T. 0.006 min

Lab File: VN077490.D

Acq: 27 Apr 2023 11:59

Tgt Ion:180 Resp: 703

Ion Ratio Lower Upper

180 100

182 87.1 46.2 138.6

145 8.7 17.5 52.6#

