

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081222\  
 Data File : VY009998.D  
 Acq On : 12 Aug 2022 19:59  
 Operator : KP/MD  
 Sample : N4191-06  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RO-211

Quant Time: Aug 13 02:58:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081222S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 13 02:54:57 2022  
 Response via : Initial Calibration

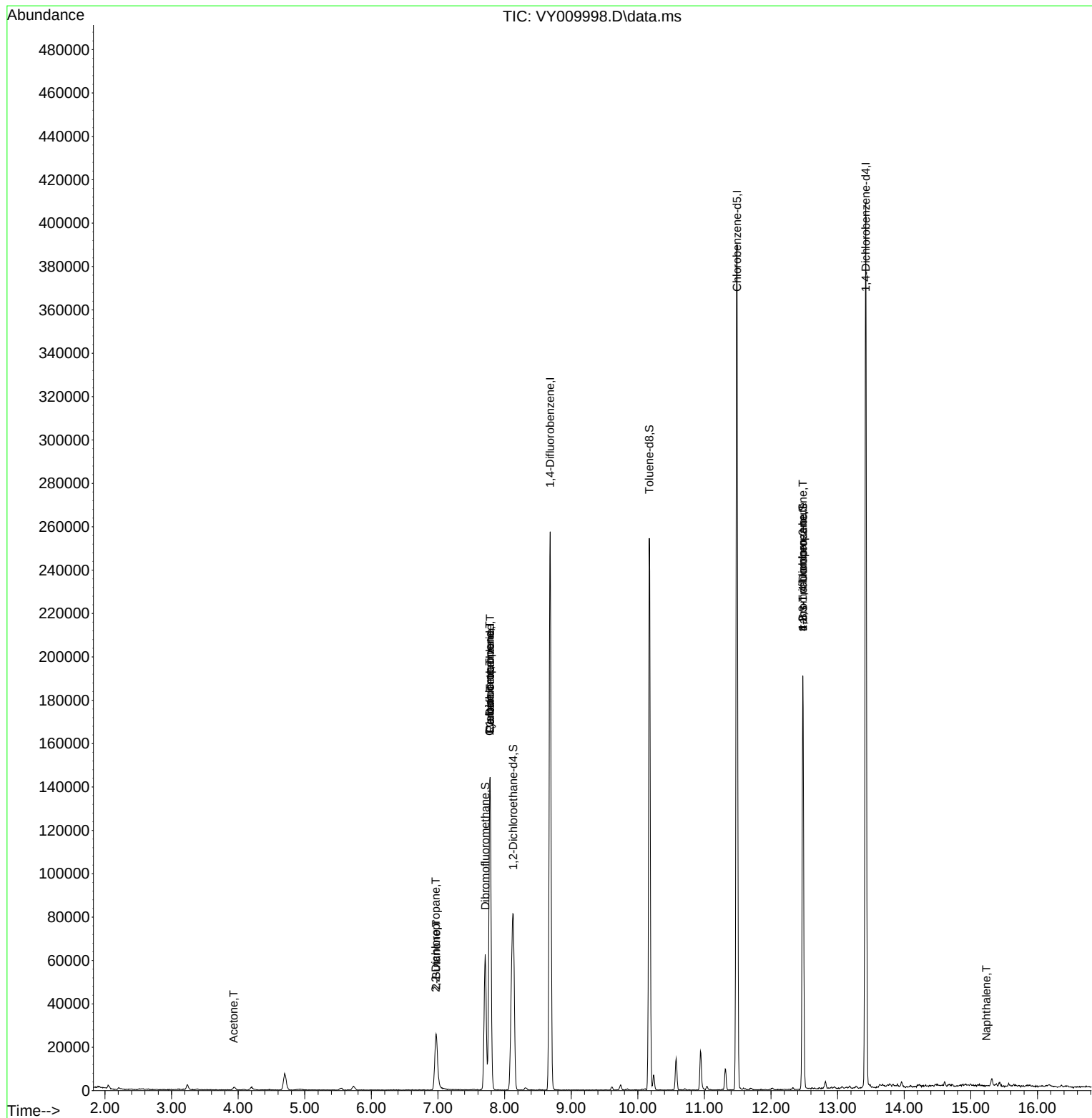
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 112378     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 225548     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 227319     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 105738     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.130          | 65   | 44322      | 38.880    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 77.760%   |        |          |
| 35) Dibromofluoromethane      | 7.709          | 113  | 45382      | 32.875    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 65.740%   |        |          |
| 50) Toluene-d8                | 10.172         | 98   | 167808     | 31.725    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 63.460%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 61581      | 31.776    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 63.560%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 2.643          | 94   | 120        | Below Cal |        | 84       |
| 11) Tert butyl alcohol        | 4.923          | 59   | 355        | Below Cal | #      | 78       |
| 16) Acetone                   | 3.930          | 43   | 2344       | 8.561     | ug/l # | 87       |
| 18) Methyl Acetate            | 4.478          | 43   | 457        | Below Cal | #      | 52       |
| 20) Methylene Chloride        | 4.698          | 84   | 5967       | Below Cal |        | 90       |
| 25) 2-Butanone                | 6.972          | 43   | 1372       | 3.229     | ug/l   | 95       |
| 26) 2,2-Dichloropropane       | 6.966          | 77   | 2066       | 1.074     | ug/l # | 52       |
| 31) Cyclohexane               | 7.776          | 56   | 2269       | 1.112     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.776          | 75   | 9166       | 4.459     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 11475      | 5.594     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 28853      | 23.613    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 28853      | 51.331    | ug/l # | 13       |
| 95) Naphthalene               | 15.232         | 128  | 377        | 3.155     | ug/l # | 76       |
| -----                         |                |      |            |           |        |          |

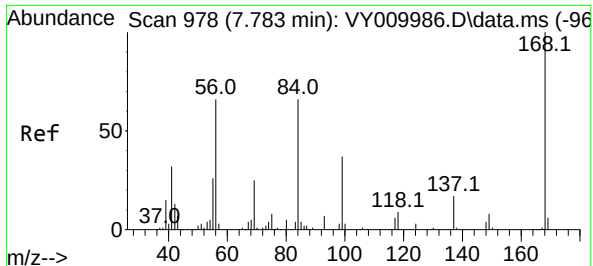
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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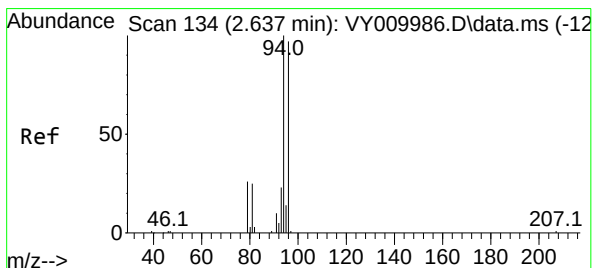
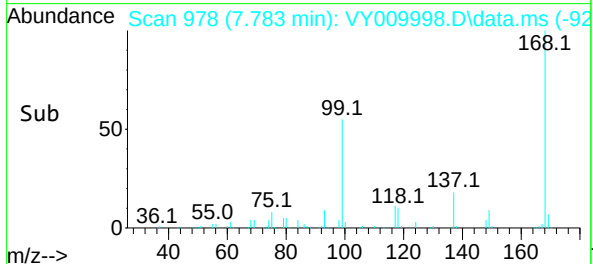
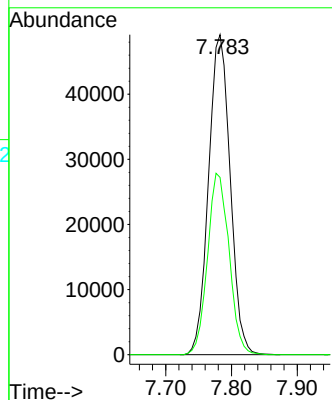
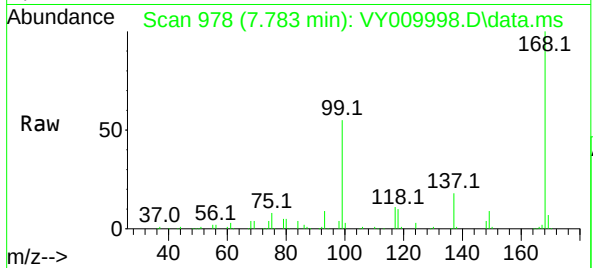




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

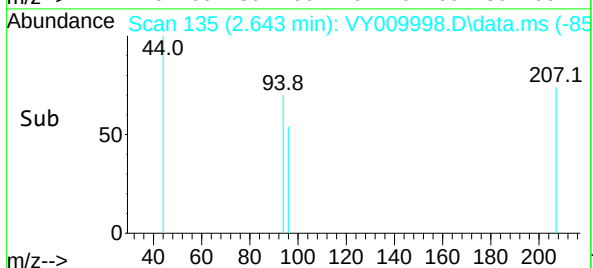
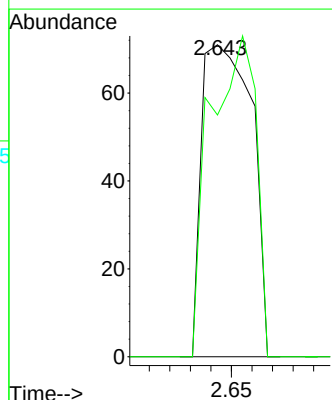
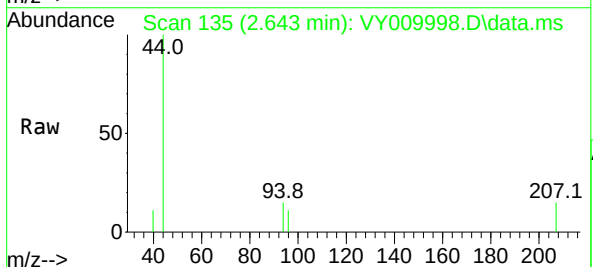
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RO-211

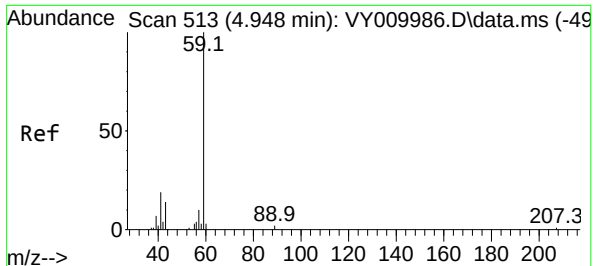
Tgt Ion:168 Resp: 112378  
Ion Ratio Lower Upper  
168 100  
99 55.4 42.1 63.1



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.643 min Scan# 135  
Delta R.T. 0.006 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

Tgt Ion: 94 Resp: 120  
Ion Ratio Lower Upper  
94 100  
96 77.5 74.6 111.8





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.923 min Scan# 509

Delta R.T. -0.025 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Instrument :

MSVOA\_Y

ClientSampleId :

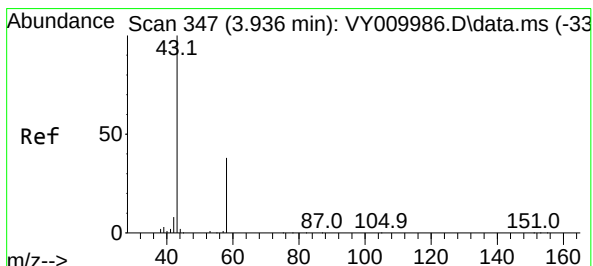
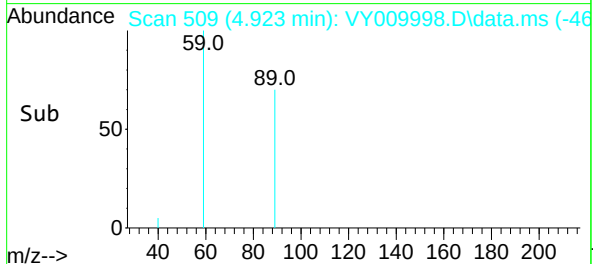
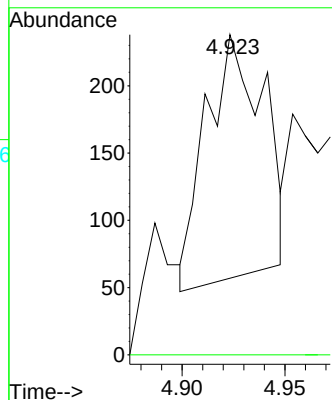
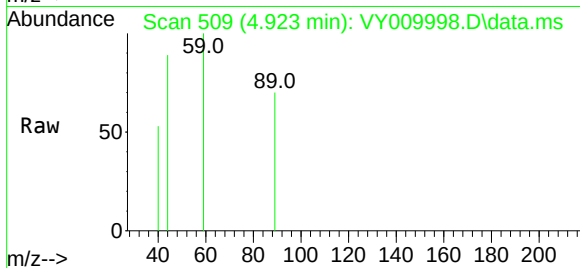
RO-211

Tgt Ion: 59 Resp: 355

Ion Ratio Lower Upper

59 100

57 0.0 6.3 9.5#



#16

Acetone

Concen: 8.561 ug/l

RT: 3.930 min Scan# 346

Delta R.T. -0.006 min

Lab File: VY009998.D

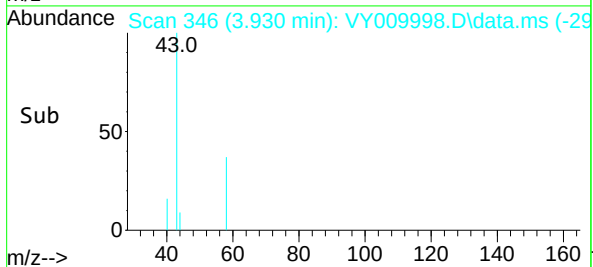
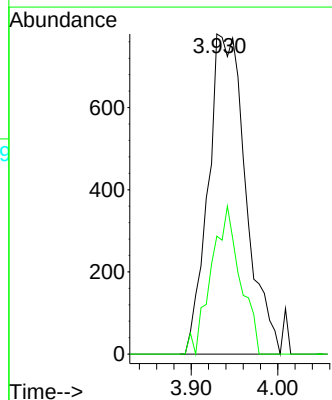
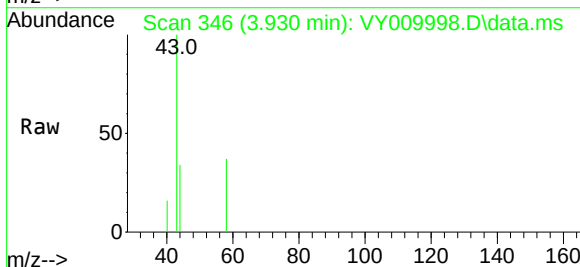
Acq: 12 Aug 2022 19:59

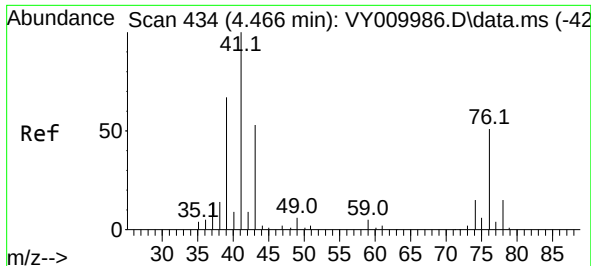
Tgt Ion: 43 Resp: 2344

Ion Ratio Lower Upper

43 100

58 36.8 24.0 36.0#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.478 min Scan# 41

Delta R.T. 0.012 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Instrument :

MSVOA\_Y

ClientSampleId :

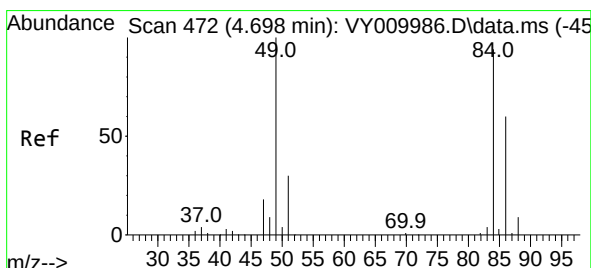
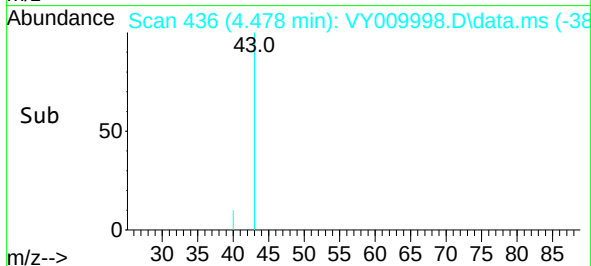
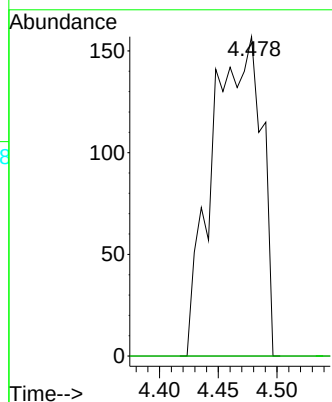
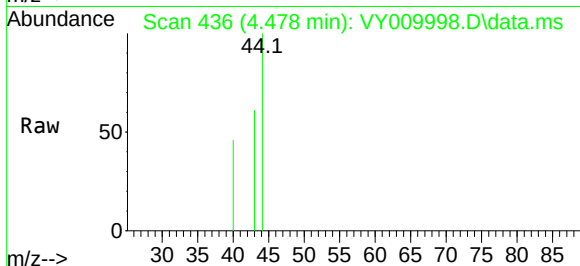
RO-211

Tgt Ion: 43 Resp: 457

Ion Ratio Lower Upper

43 100

74 0.0 18.8 28.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.698 min Scan# 472

Delta R.T. -0.000 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Tgt Ion: 84 Resp: 5967

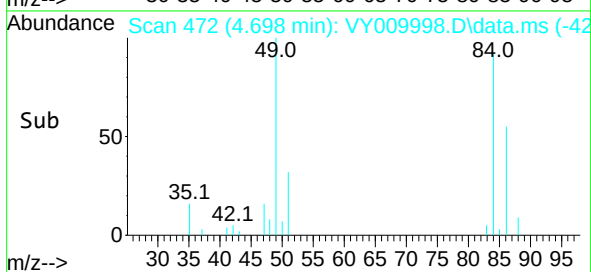
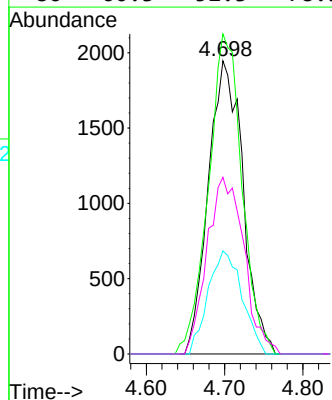
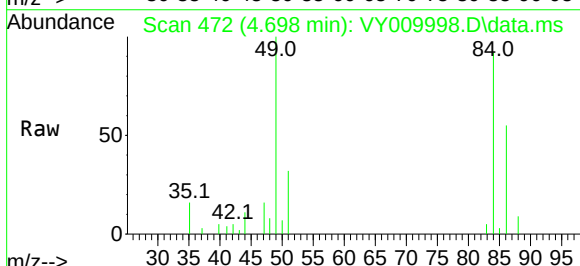
Ion Ratio Lower Upper

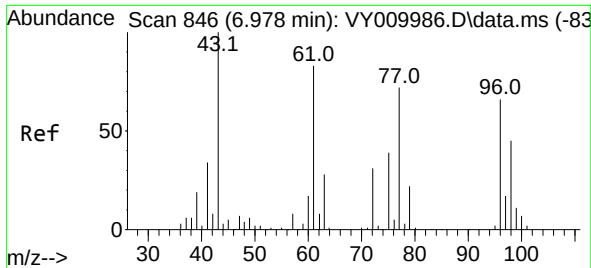
84 100

49 109.2 98.2 147.4

51 35.1 33.4 50.0

86 60.3 52.3 78.5





#25

2-Butanone

Concen: 3.229 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Instrument :

MSVOA\_Y

ClientSampleId :

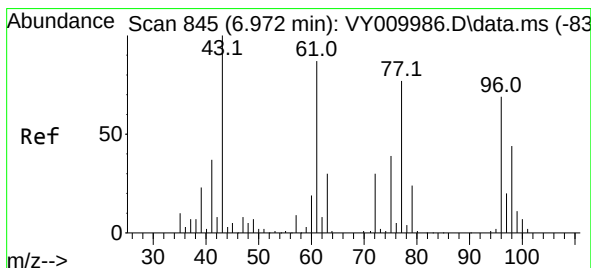
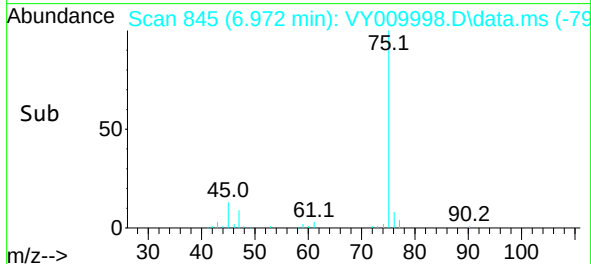
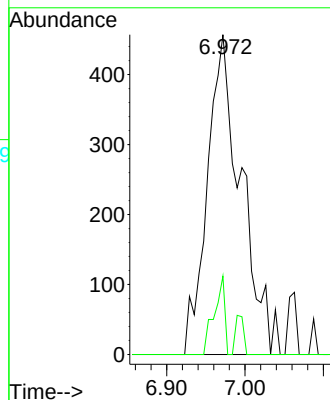
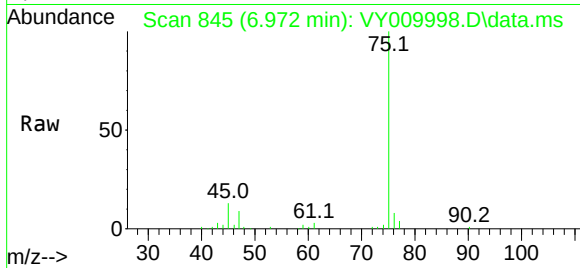
RO-211

Tgt Ion: 43 Resp: 1372

Ion Ratio Lower Upper

43 100

72 24.5 21.5 32.3



#26

2,2-Dichloropropane

Concen: 1.074 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.006 min

Lab File: VY009998.D

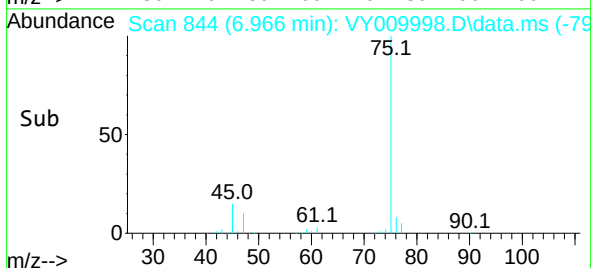
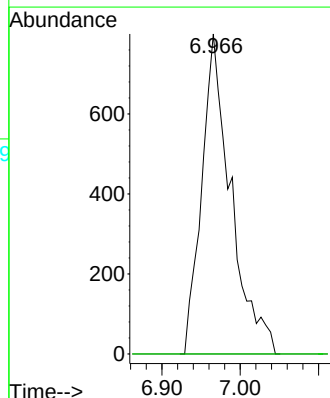
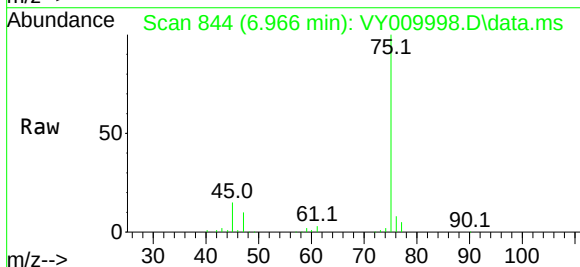
Acq: 12 Aug 2022 19:59

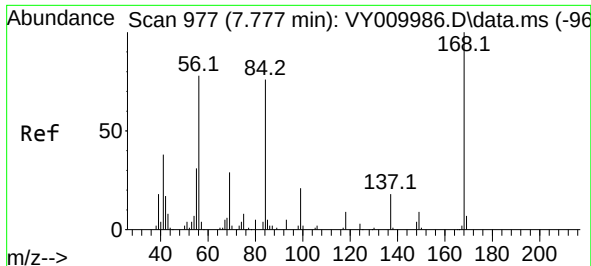
Tgt Ion: 77 Resp: 2066

Ion Ratio Lower Upper

77 100

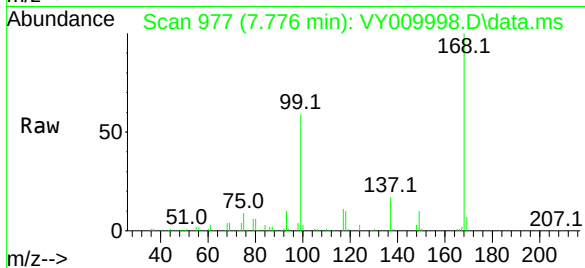
97 0.0 11.7 35.0#



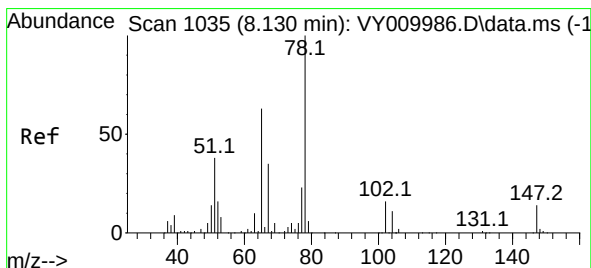
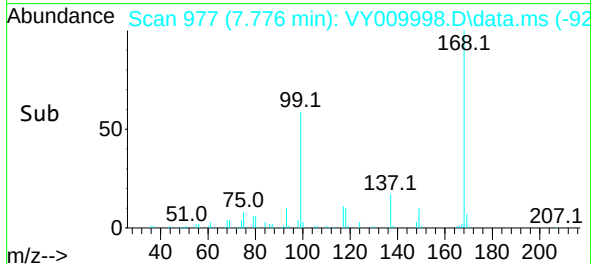
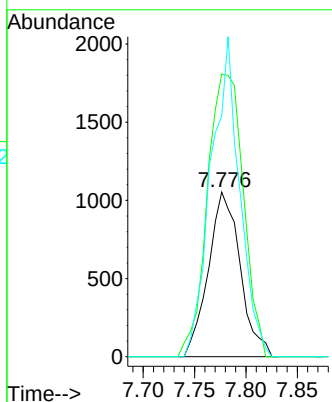


#31  
Cyclohexane  
Concen: 1.112 ug/l  
RT: 7.776 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RO-211

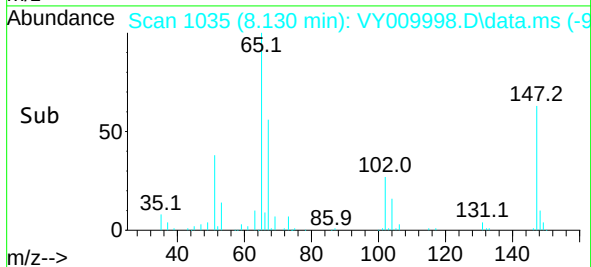
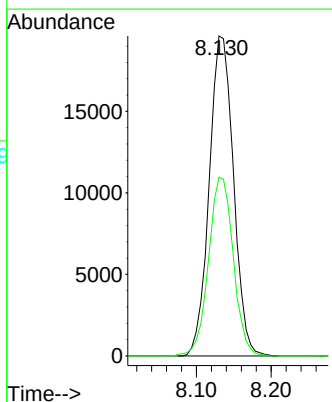
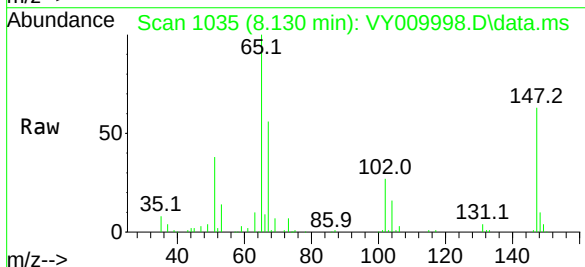


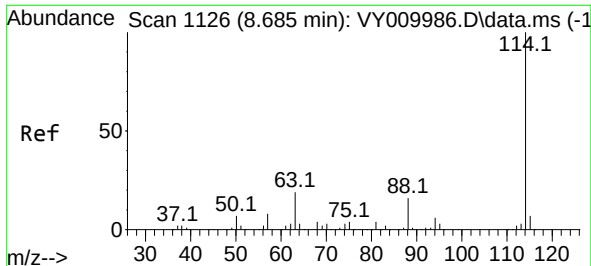
Tgt Ion: 56 Resp: 2269  
Ion Ratio Lower Upper  
56 100  
69 171.8 26.0 39.0#  
84 146.2 69.5 104.3#



#33  
1,2-Dichloroethane-d4  
Concen: 38.880 ug/l  
RT: 8.130 min Scan# 1035  
Delta R.T. -0.000 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

Tgt Ion: 65 Resp: 44322  
Ion Ratio Lower Upper  
65 100  
67 57.0 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Instrument :

MSVOA\_Y

ClientSampleId :

RO-211

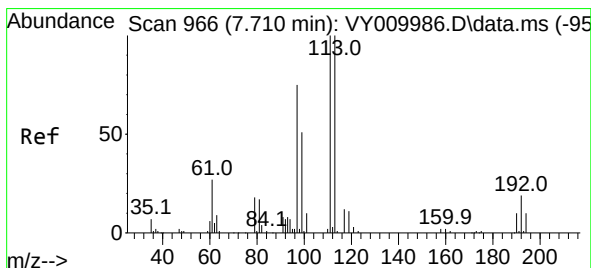
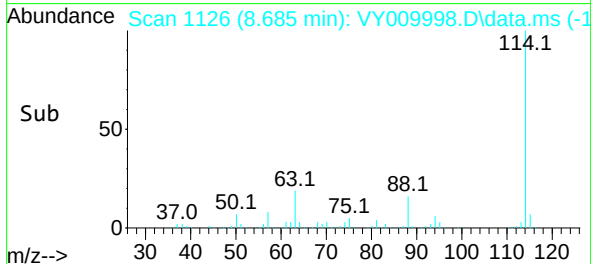
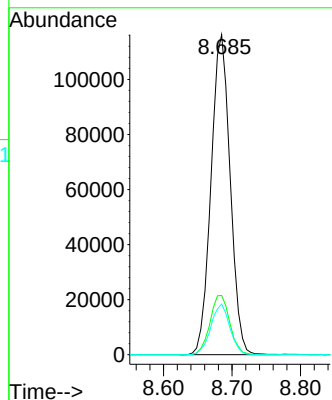
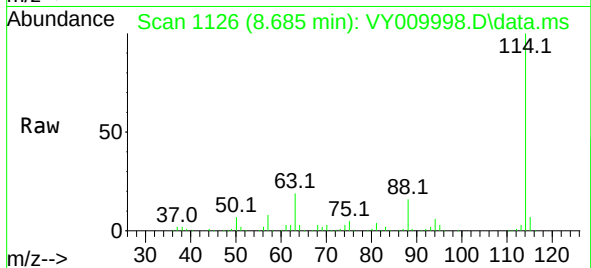
Tgt Ion:114 Resp: 225548

Ion Ratio Lower Upper

114 100

63 18.5 0.0 38.0

88 15.8 0.0 30.0



#35

Dibromofluoromethane

Concen: 32.875 ug/l

RT: 7.709 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

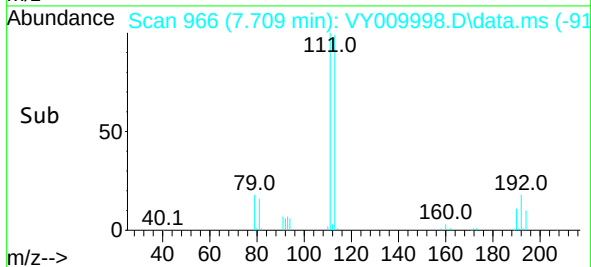
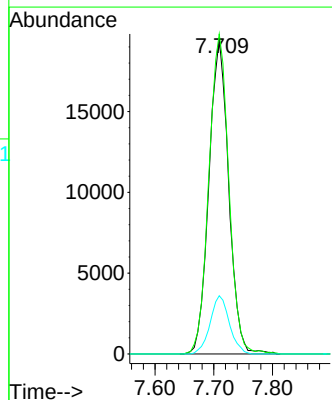
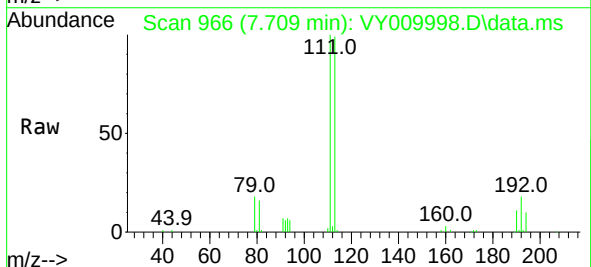
Tgt Ion:113 Resp: 45382

Ion Ratio Lower Upper

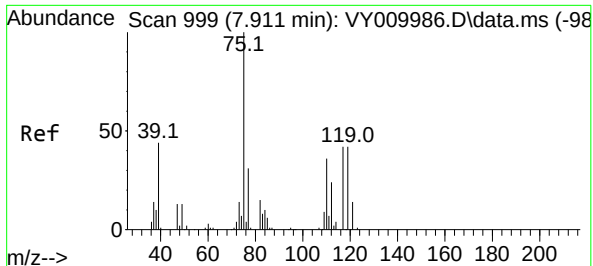
113 100

111 102.9 80.6 120.8

192 18.1 16.2 24.4







#36

1,1-Dichloropropene

Concen: 4.459 ug/l

RT: 7.776 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Instrument :

MSVOA\_Y

ClientSampleId :

RO-211

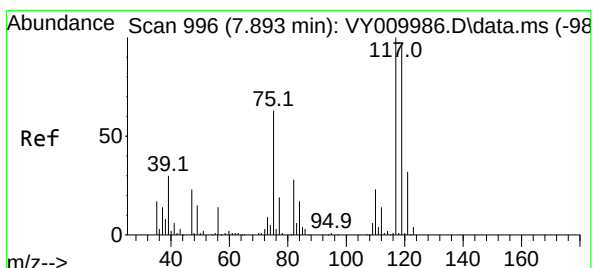
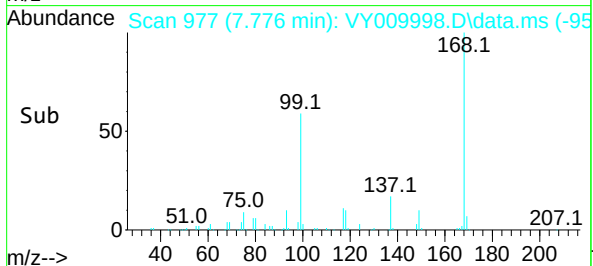
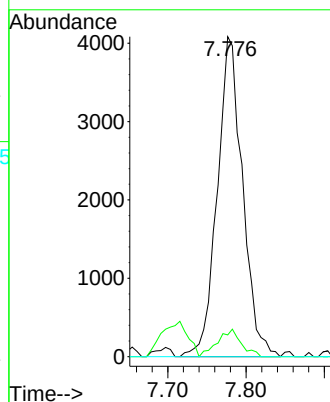
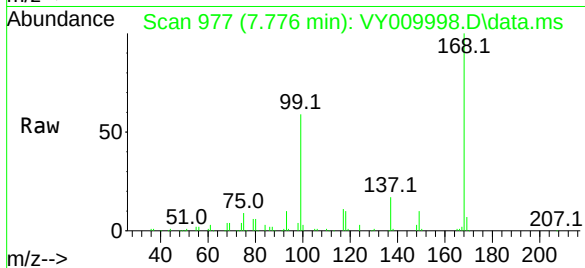
Tgt Ion: 75 Resp: 9166

Ion Ratio Lower Upper

75 100

110 8.0 18.6 56.0#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.594 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.110 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

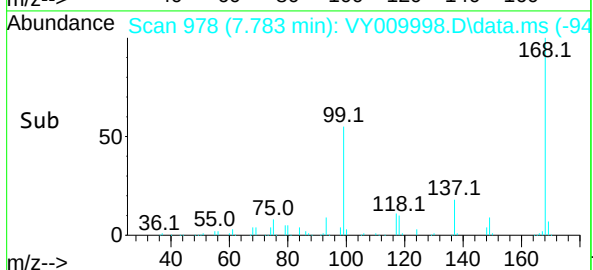
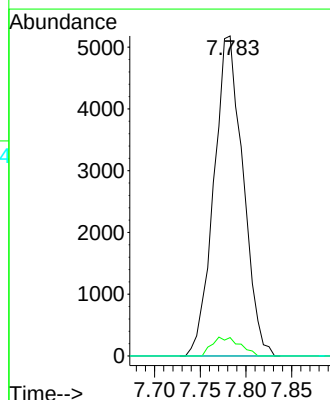
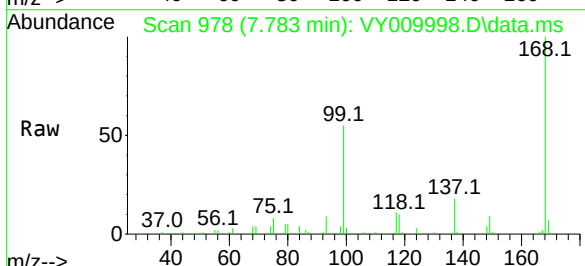
Tgt Ion: 117 Resp: 11475

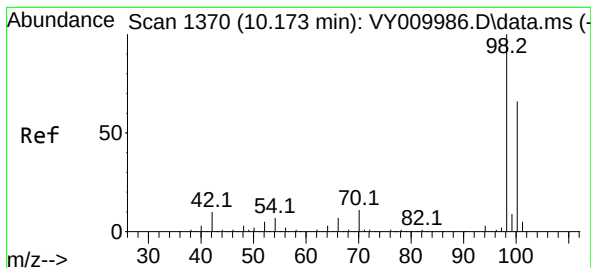
Ion Ratio Lower Upper

117 100

119 5.8 75.9 113.9#

121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 31.725 ug/l

RT: 10.172 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

Instrument :

MSVOA\_Y

ClientSampleId :

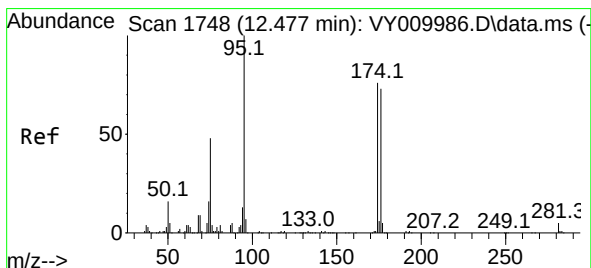
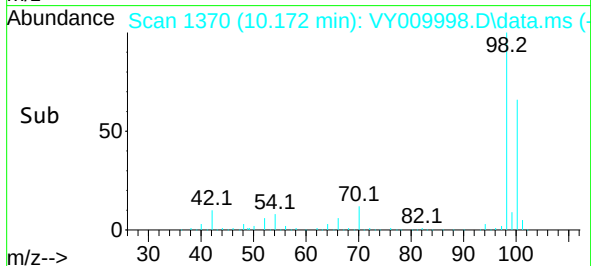
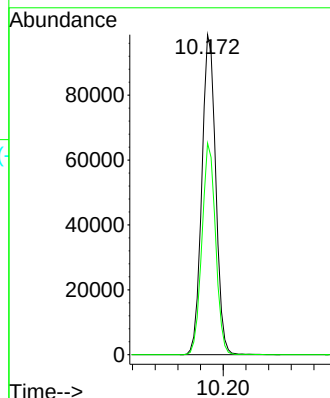
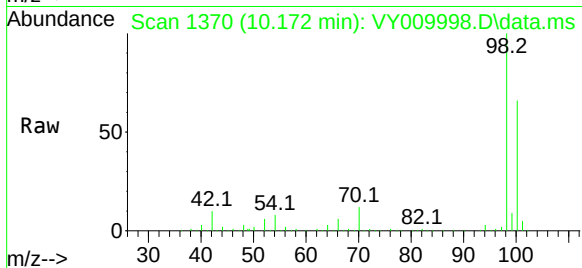
RO-211

Tgt Ion: 98 Resp: 167808

Ion Ratio Lower Upper

98 100

100 65.0 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 31.776 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.000 min

Lab File: VY009998.D

Acq: 12 Aug 2022 19:59

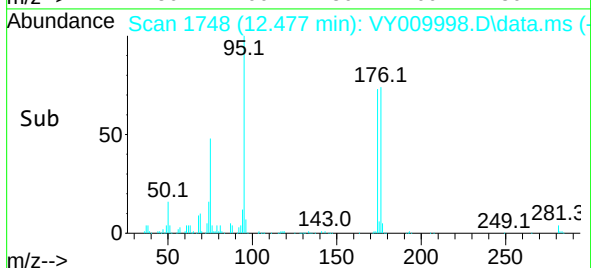
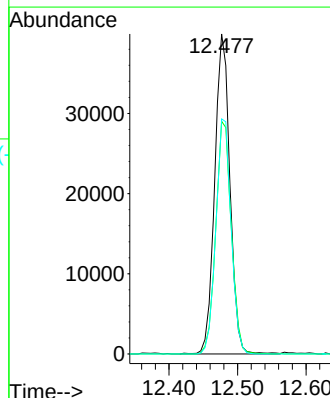
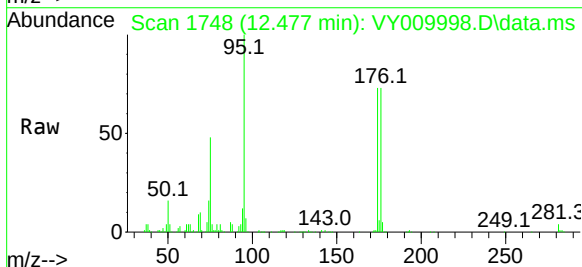
Tgt Ion: 95 Resp: 61581

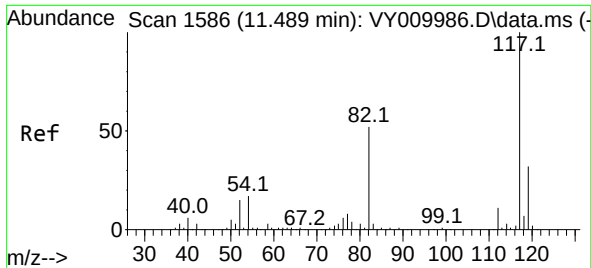
Ion Ratio Lower Upper

95 100

174 74.0 0.0 173.8

176 73.3 0.0 167.0

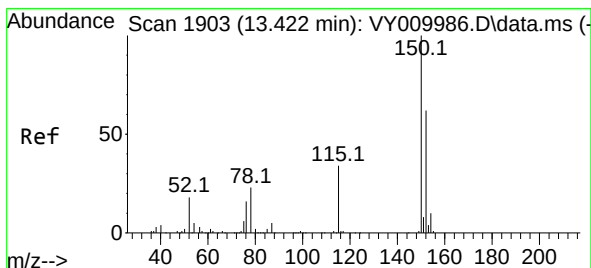
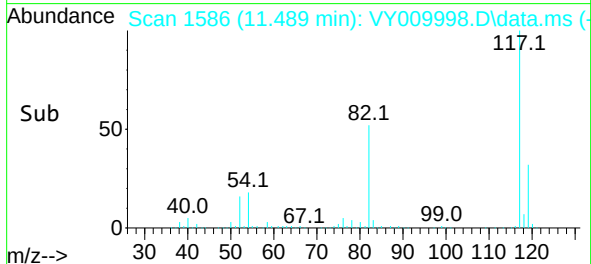
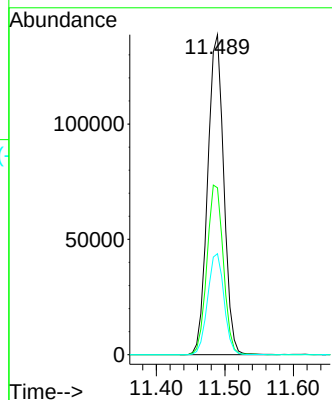
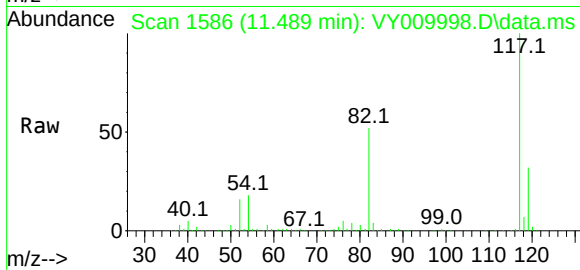




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

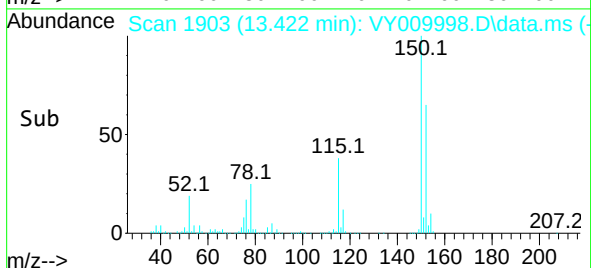
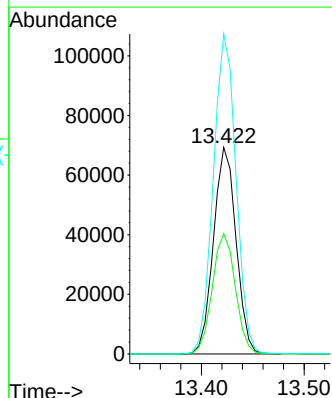
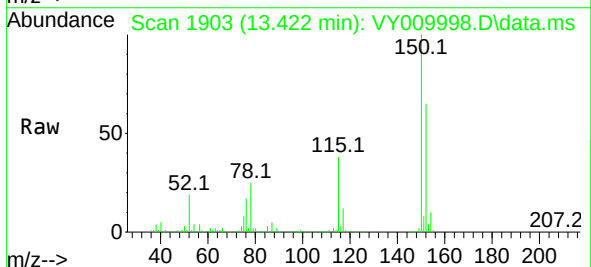
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RO-211

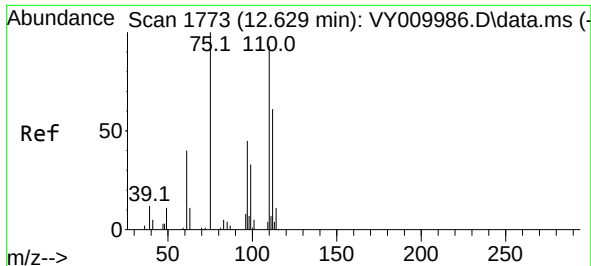
Tgt Ion:117 Resp: 227319  
Ion Ratio Lower Upper  
117 100  
82 52.1 41.8 62.6  
119 31.5 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.000 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

Tgt Ion:152 Resp: 105738  
Ion Ratio Lower Upper  
152 100  
115 59.3 28.6 85.9  
150 155.6 0.0 349.8

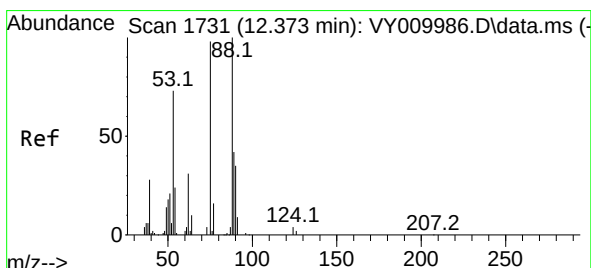
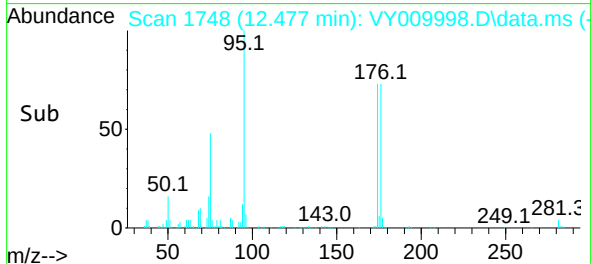
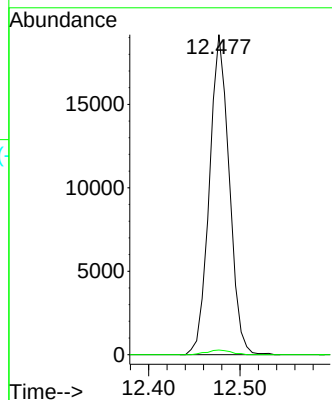
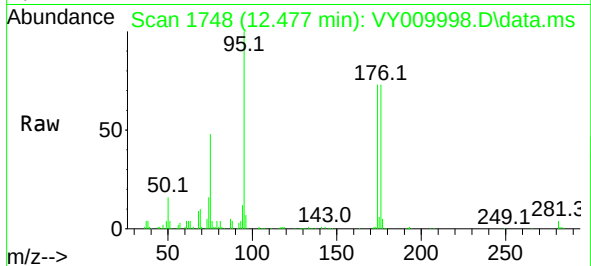




#76  
1,2,3-Trichloropropane  
Concen: 23.613 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

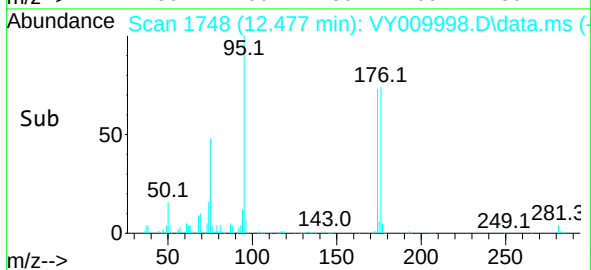
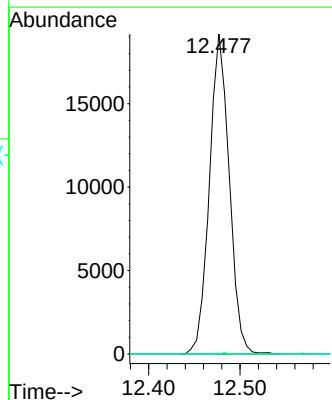
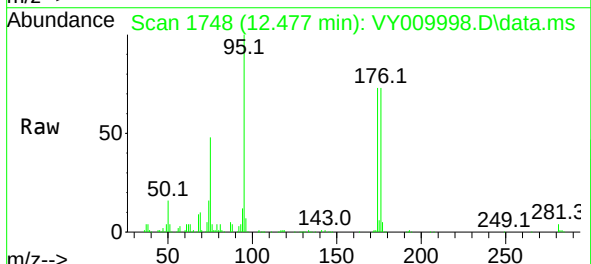
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RO-211

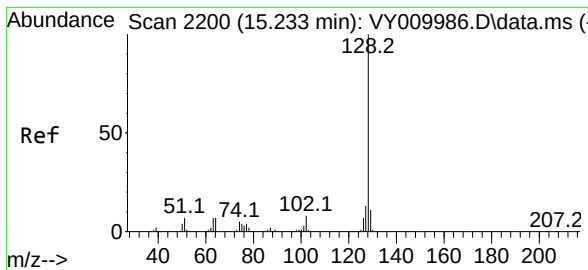
Tgt Ion: 75 Resp: 28853  
Ion Ratio Lower Upper  
75 100  
77 1.8 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 51.331 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.103 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

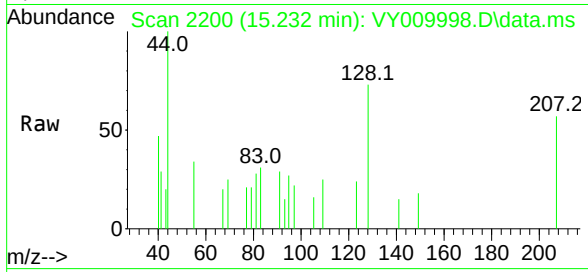
Tgt Ion: 75 Resp: 28853  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.4 107.2#  
89 0.1 38.1 57.1#





#95  
Naphthalene  
Concen: 3.155 ug/l  
RT: 15.232 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: VY009998.D  
Acq: 12 Aug 2022 19:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RO-211



Tgt Ion:128 Resp: 377  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 6.1 8.8 13.2#

