

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD082322\  
 Data File : VD074202.D  
 Acq On : 24 Aug 2022 01:02  
 Operator : VA/SY  
 Sample : N4260-01  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SASP2-T-4-(0-5)

Quant Time: Aug 24 06:25:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D082322S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 23 13:12:17 2022  
 Response via : Initial Calibration

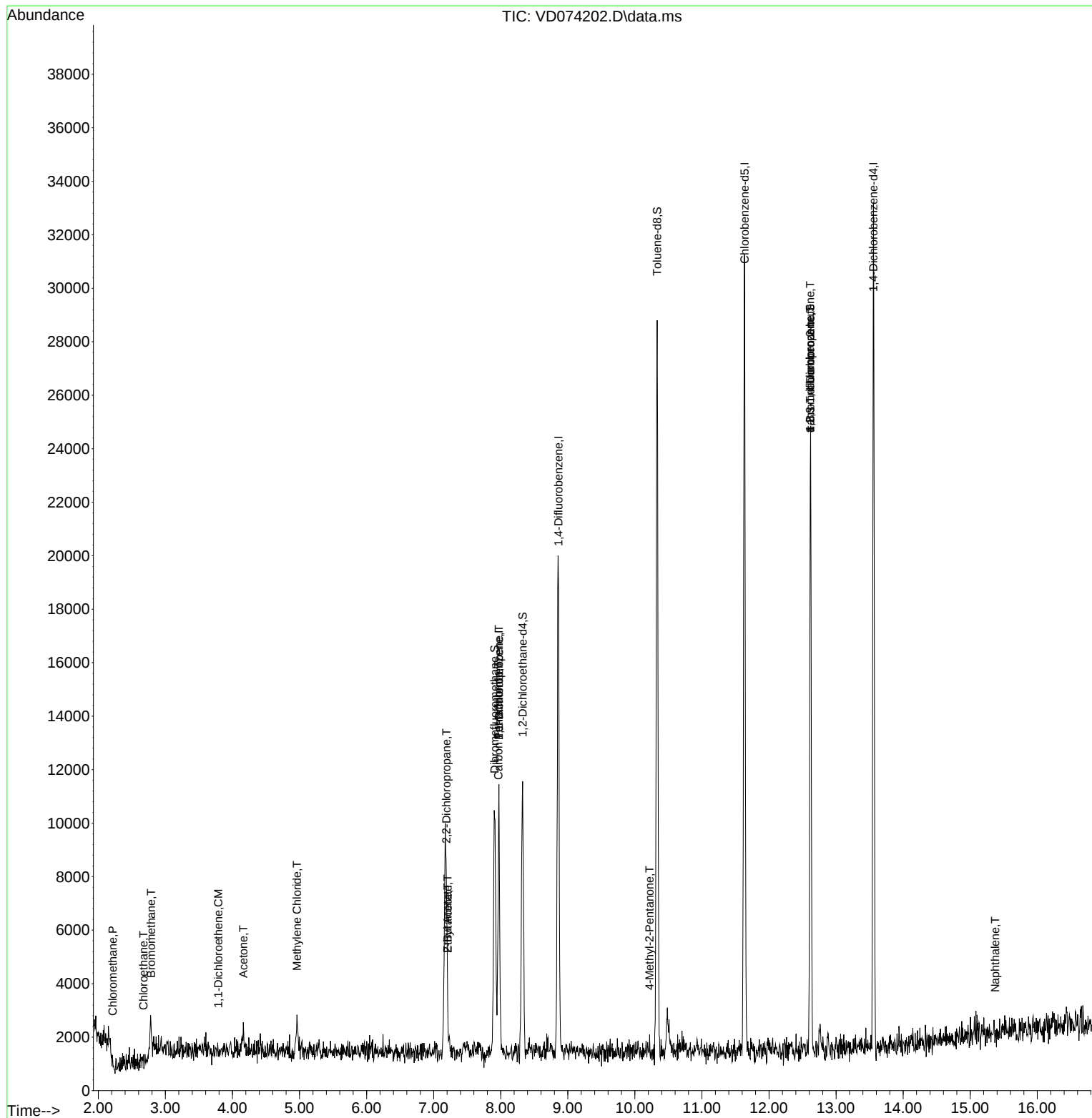
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 6316     | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 16180    | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 17954    | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.555 | 152   | 8153     | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 8044     | 124.636  | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 249.280%# |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 6943     | 64.153   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 128.300%  |          |
| 50) Toluene-d8                | 10.332 | 98    | 19103    | 54.844   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | = 109.680%  |          |
| 62) 4-Bromofluorobenzene      | 12.614 | 95    | 8077     | 58.698   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | = 117.400%  |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          |             | Qvalue   |
| 3) Chloromethane              | 2.215  | 50    | 136      | 3.601    | ug/l #      | 40       |
| 5) Bromomethane               | 2.785  | 94    | 733      | 28.631   | ug/l        | 87       |
| 6) Chloroethane               | 2.674  | 64    | 66       | 2.565    | ug/l #      | 42       |
| 12) 1,1-Dichloroethene        | 3.791  | 96    | 81       | 1.300    | ug/l #      | 1        |
| 16) Acetone                   | 4.162  | 43    | 1434     | 116.623  | ug/l #      | 65       |
| 20) Methylene Chloride        | 4.962  | 84    | 799      | 4.974    | ug/l #      | 55       |
| 25) 2-Butanone                | 7.209  | 43    | 110      | 5.779    | ug/l #      | 52       |
| 26) 2,2-Dichloropropane       | 7.191  | 77    | 305      | 2.566    | ug/l #      | 54       |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 503      | 3.075    | ug/l #      | 43       |
| 37) Ethyl Acetate             | 7.209  | 43    | 110      | 1.706    | ug/l #      | 1        |
| 38) Carbon Tetrachloride      | 7.967  | 117   | 737      | 4.194    | ug/l #      | 13       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43    | 71       | 1.095    | ug/l #      | 39       |
| 76) 1,2,3-Trichloropropane    | 12.614 | 75    | 3872     | 48.638   | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.614 | 75    | 3872     | 125.081  | ug/l #      | 7        |
| 95) Naphthalene               | 15.373 | 128   | 124      | 3.807    | ug/l #      | 70       |
| -----                         |        |       |          |          |             |          |

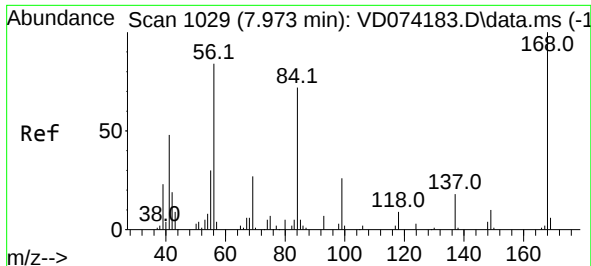
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD082322\  
Data File : VD074202.D  
Acq On : 24 Aug 2022 01:02  
Operator : VA/SY  
Sample : N4260-01  
Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
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MSVOA\_D  
ClientSampleId :  
SASP2-T-4-(0-5)

Quant Time: Aug 24 06:25:12 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D082322S.M  
Quant Title : SW846 8260  
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Response via : Initial Calibration

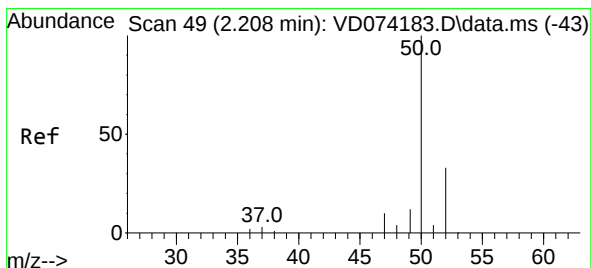
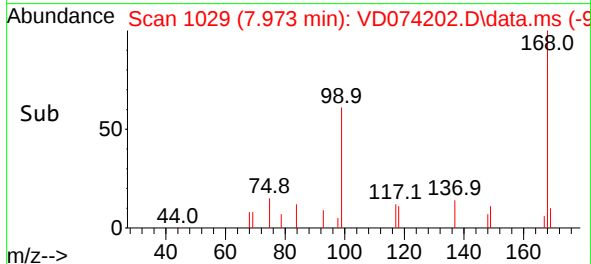
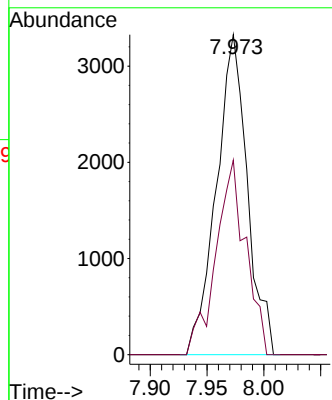
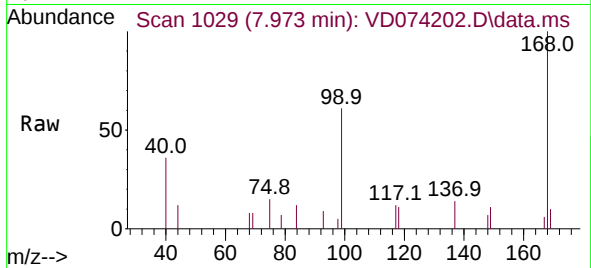




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

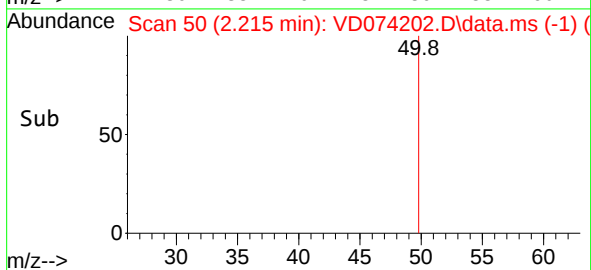
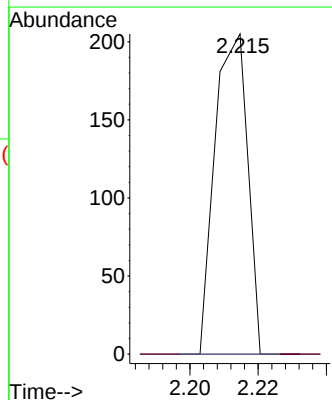
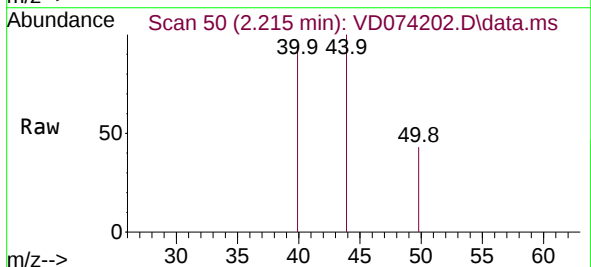
Instrument :  
MSVOA\_D  
ClientSampleId :  
SASP2-T-4-(0-5)

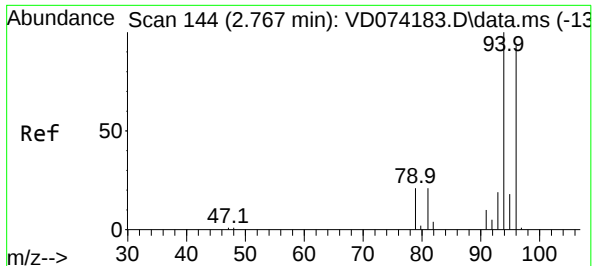
Tgt Ion:168 Resp: 6316  
Ion Ratio Lower Upper  
168 100  
99 60.8 49.8 74.6



#3  
Chloromethane  
Concen: 3.601 ug/l  
RT: 2.215 min Scan# 50  
Delta R.T. 0.007 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

Tgt Ion: 50 Resp: 136  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.4 41.0#





#5

Bromomethane

Concen: 28.631 ug/l

RT: 2.785 min Scan# 14

Delta R.T. 0.018 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

Instrument :

MSVOA\_D

ClientSampleId :

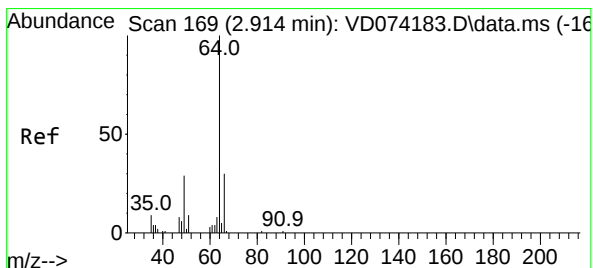
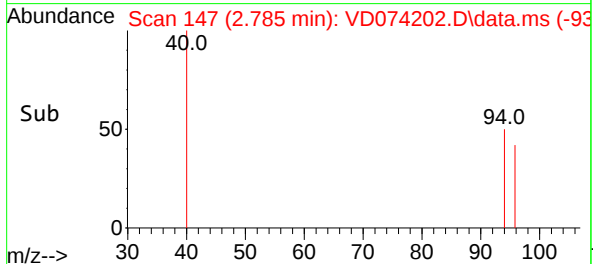
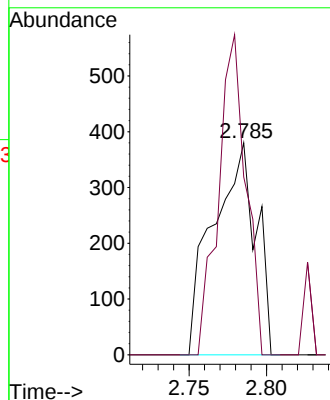
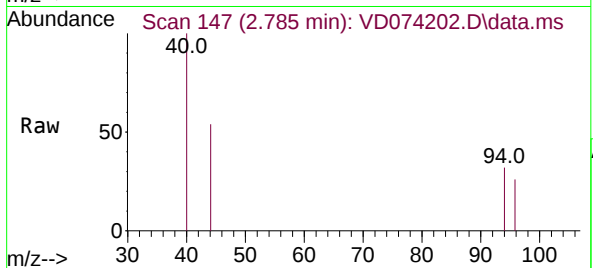
SASP2-T-4-(0-5)

Tgt Ion: 94 Resp: 733

Ion Ratio Lower Upper

94 100

96 83.9 77.6 116.4



#6

Chloroethane

Concen: 2.565 ug/l

RT: 2.674 min Scan# 128

Delta R.T. -0.240 min

Lab File: VD074202.D

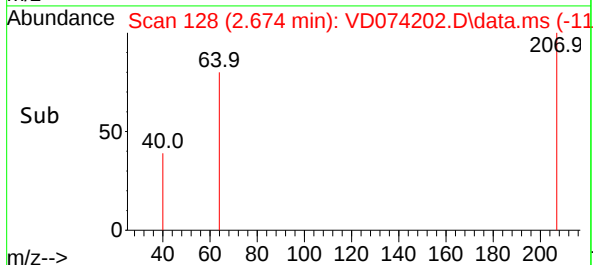
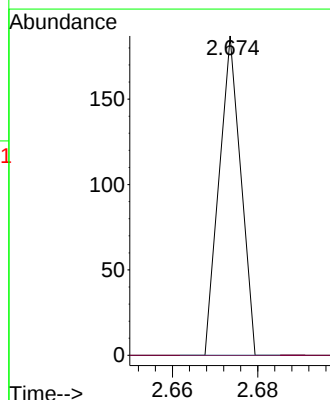
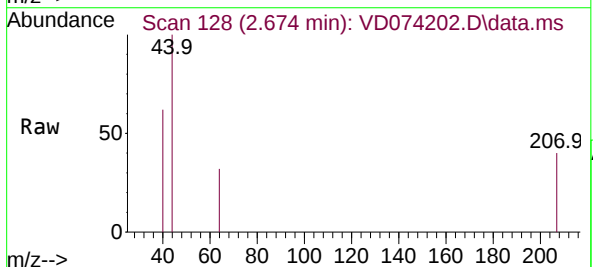
Acq: 24 Aug 2022 01:02

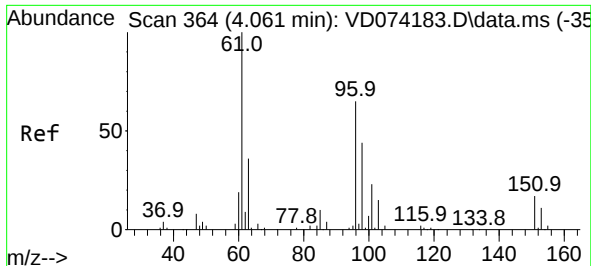
Tgt Ion: 64 Resp: 66

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#





#12

1,1-Dichloroethene

Concen: 1.300 ug/l

RT: 3.791 min Scan# 31

Delta R.T. -0.270 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

Instrument :

MSVOA\_D

ClientSampleId :

SASP2-T-4-(0-5)

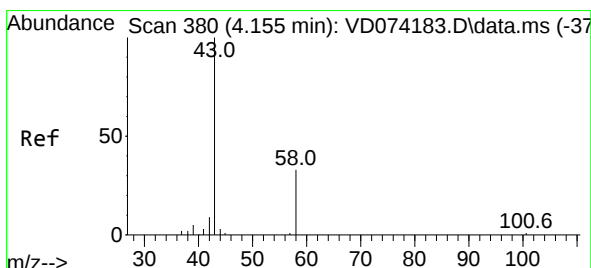
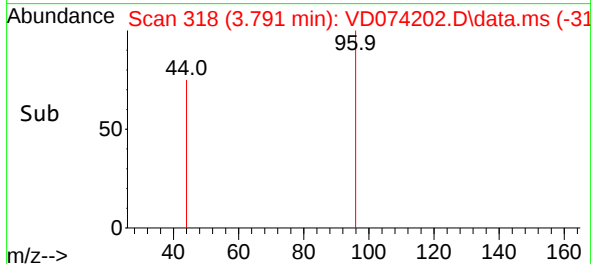
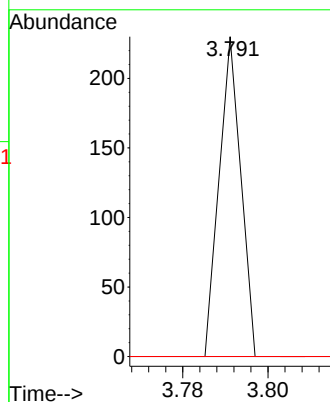
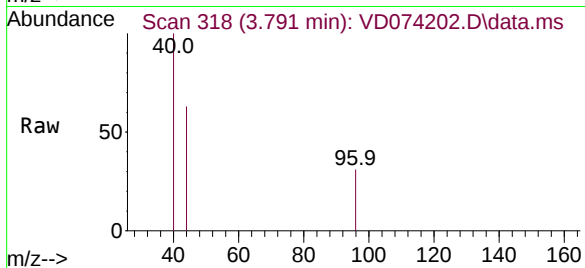
Tgt Ion: 96 Resp: 81

Ion Ratio Lower Upper

96 100

61 0.0 138.5 207.7#

98 0.0 48.6 73.0#



#16

Acetone

Concen: 116.623 ug/l

RT: 4.162 min Scan# 381

Delta R.T. 0.007 min

Lab File: VD074202.D

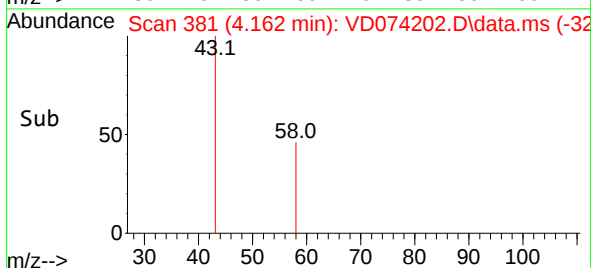
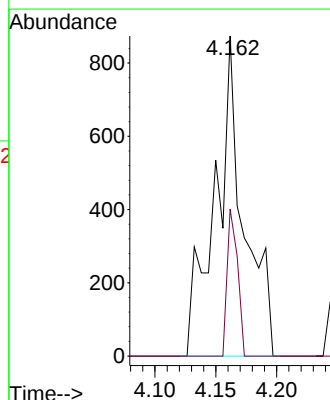
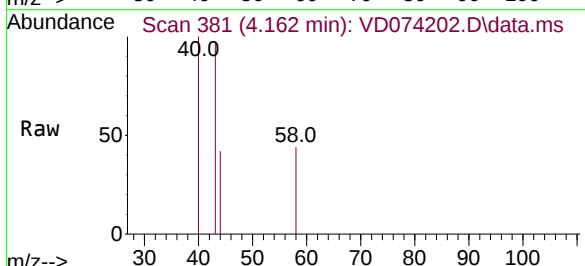
Acq: 24 Aug 2022 01:02

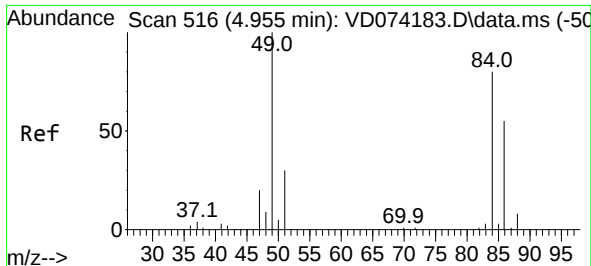
Tgt Ion: 43 Resp: 1434

Ion Ratio Lower Upper

43 100

58 45.9 22.1 33.1#

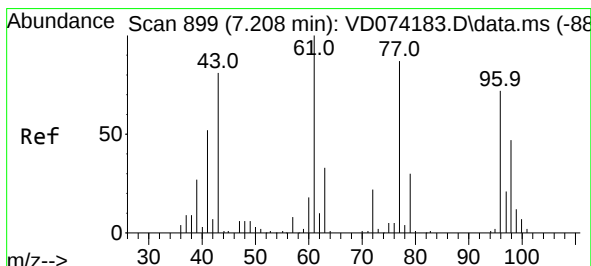
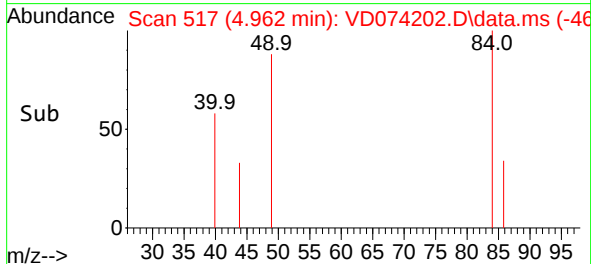
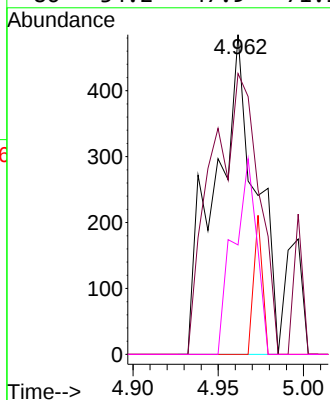
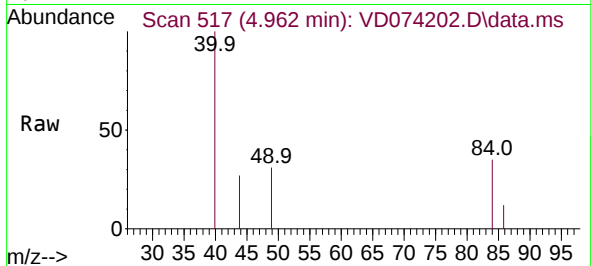




#20  
Methylene Chloride  
Concen: 4.974 ug/l  
RT: 4.962 min Scan# 516  
Delta R.T. 0.007 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

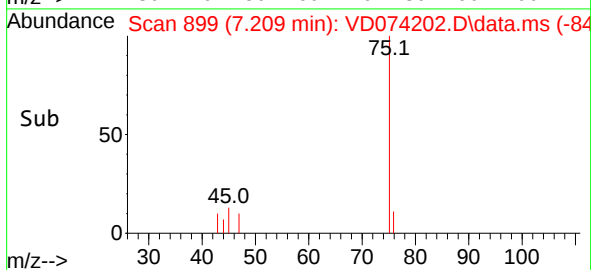
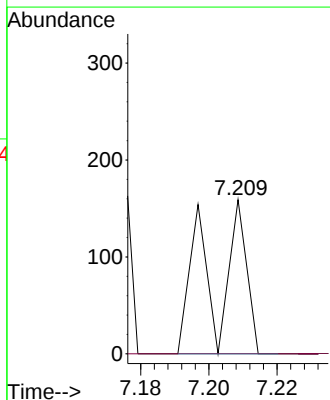
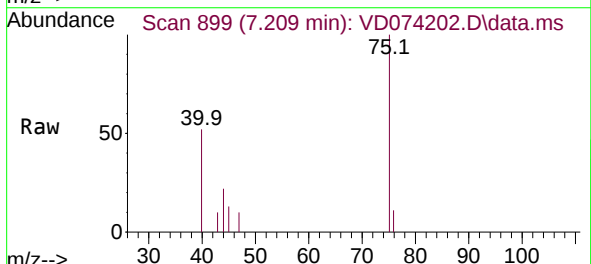
Instrument :  
MSVOA\_D  
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SASP2-T-4-(0-5)

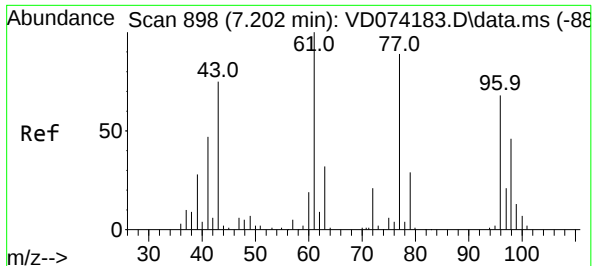
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 799    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 87.8  | 112.8 | 169.2# |
| 51       | 0.0   | 32.6  | 48.8#  |
| 86       | 34.2  | 47.9  | 71.9#  |



#25  
2-Butanone  
Concen: 5.779 ug/l  
RT: 7.209 min Scan# 899  
Delta R.T. 0.001 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 110   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 18.6  | 27.8# |





#26

2,2-Dichloropropane

Concen: 2.566 ug/l

RT: 7.191 min Scan# 89

Delta R.T. -0.011 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

Instrument :

MSVOA\_D

ClientSampleId :

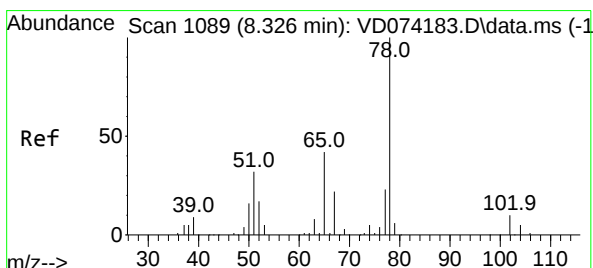
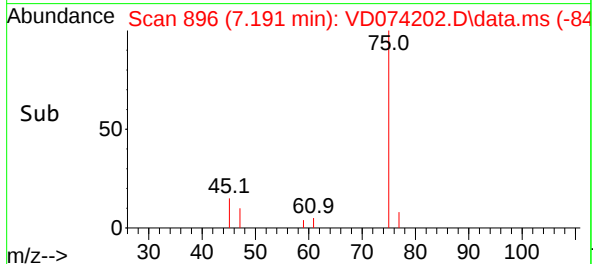
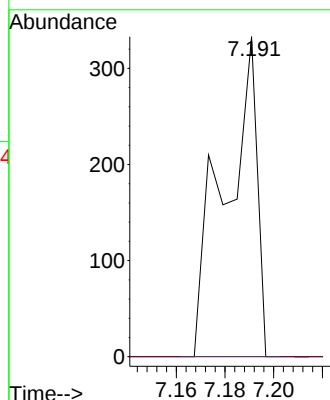
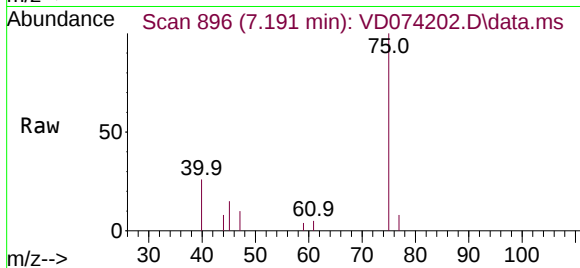
SASP2-T-4-(0-5)

Tgt Ion: 77 Resp: 305

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



#33

1,2-Dichloroethane-d4

Concen: 124.636 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD074202.D

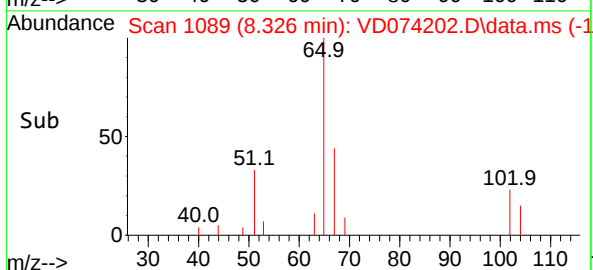
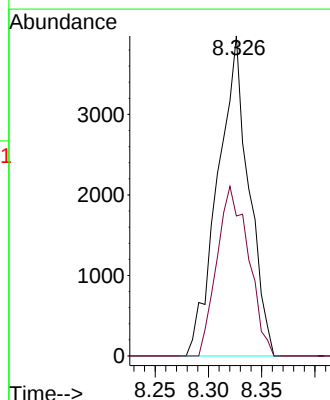
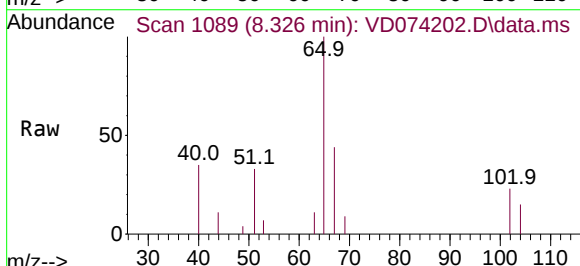
Acq: 24 Aug 2022 01:02

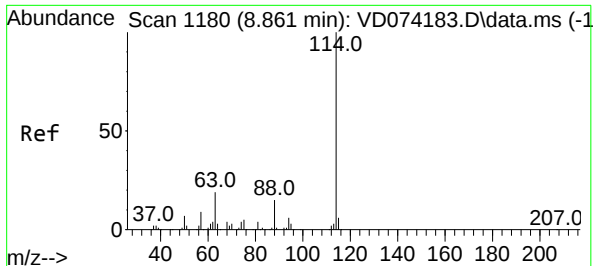
Tgt Ion: 65 Resp: 8044

Ion Ratio Lower Upper

65 100

67 54.0 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

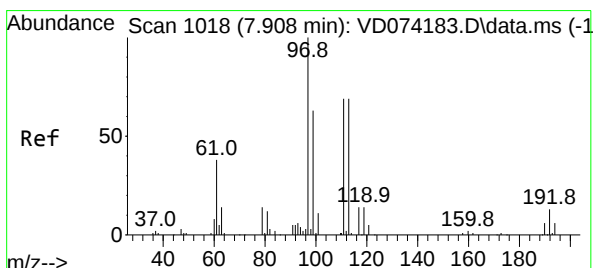
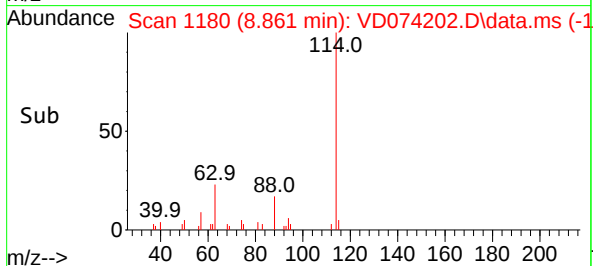
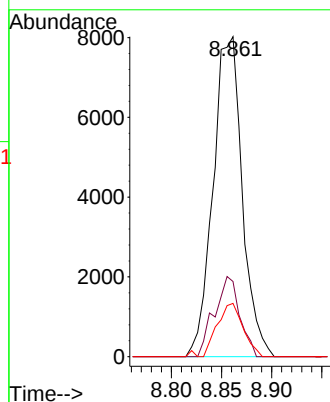
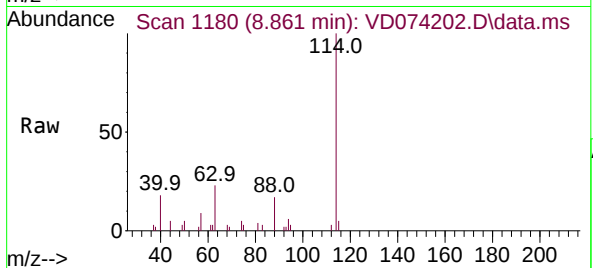
Instrument :

MSVOA\_D

ClientSampleId :

SASP2-T-4-(0-5)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 16180 |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 23.5  | 0.0   | 46.6  |
| 88       | 16.6  | 0.0   | 33.2  |



#35

Dibromofluoromethane

Concen: 64.153 ug/l

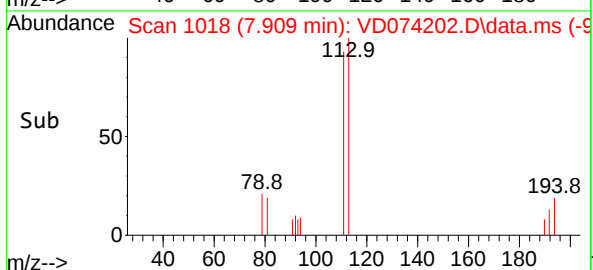
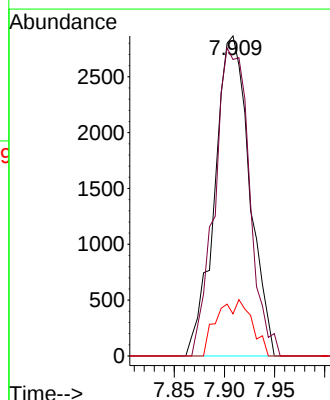
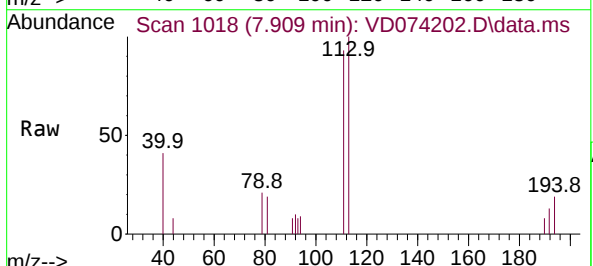
RT: 7.909 min Scan# 1018

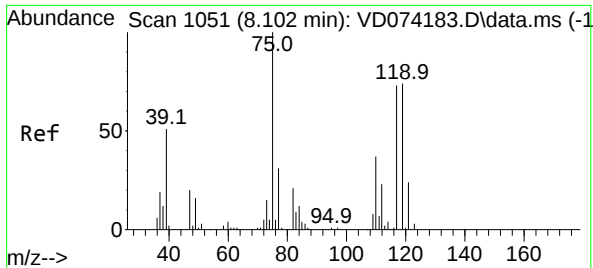
Delta R.T. 0.001 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 6943  |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 95.5  | 83.8  | 125.6 |
| 192      | 9.4   | 14.6  | 21.8  |





#36

1,1-Dichloropropene

Concen: 3.075 ug/l

RT: 7.973 min Scan# 1

Delta R.T. -0.129 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

Instrument :

MSVOA\_D

ClientSampleId :

SASP2-T-4-(0-5)

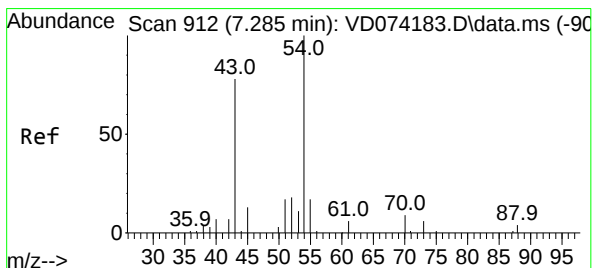
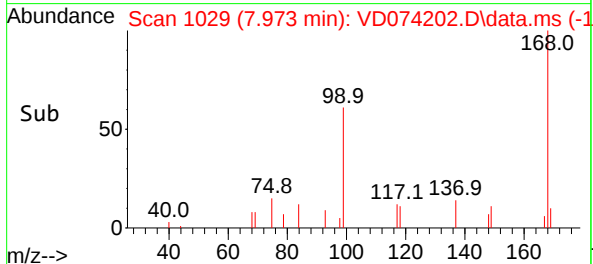
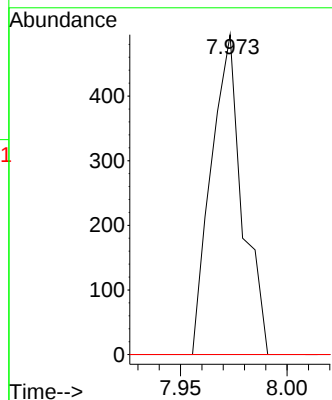
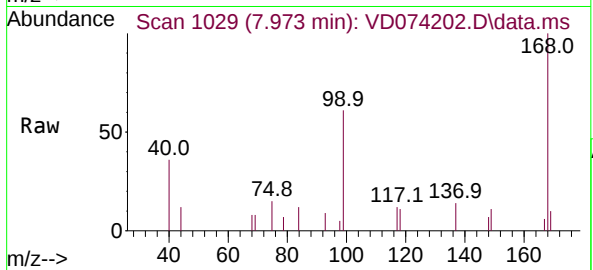
Tgt Ion: 75 Resp: 503

Ion Ratio Lower Upper

75 100

110 0.0 16.4 49.1#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 1.706 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.076 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

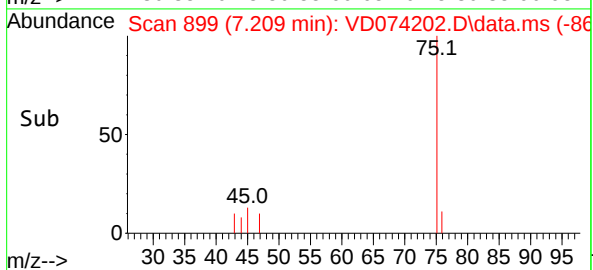
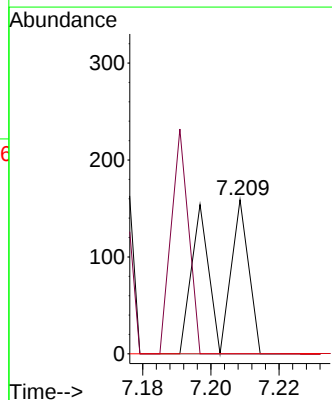
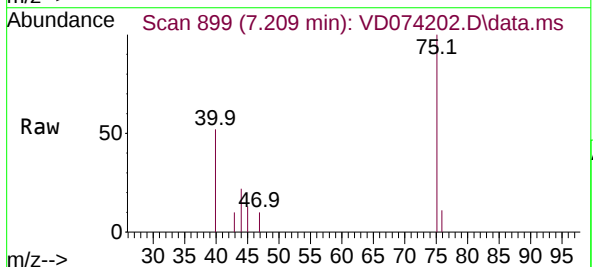
Tgt Ion: 43 Resp: 110

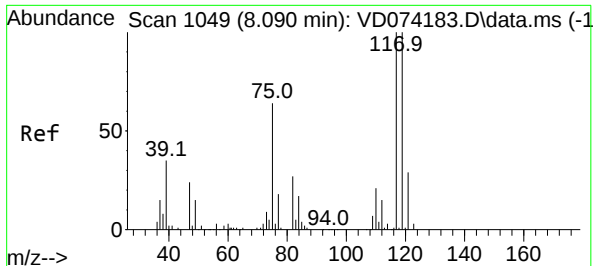
Ion Ratio Lower Upper

43 100

61 74.5 9.8 14.8#

70 0.0 6.9 10.3#

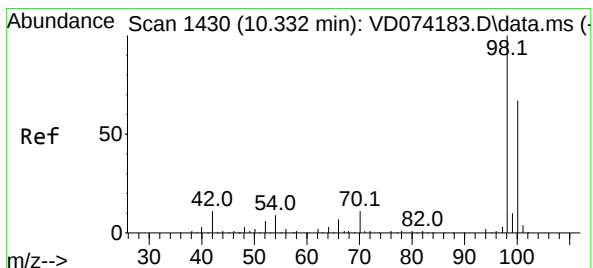
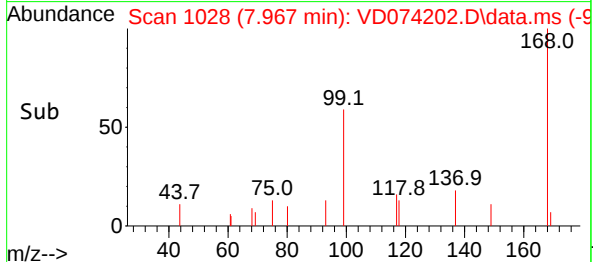
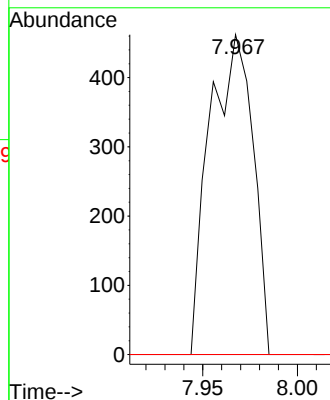
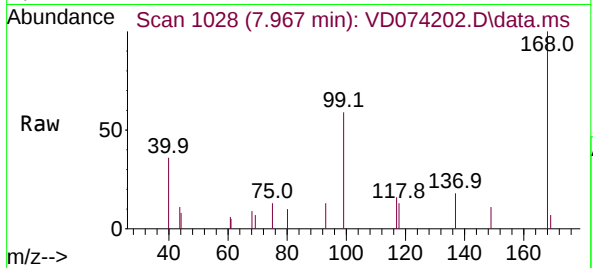




#38  
Carbon Tetrachloride  
Concen: 4.194 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.123 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

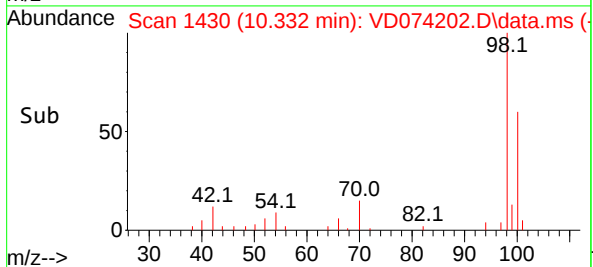
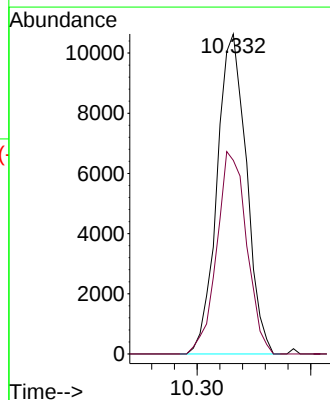
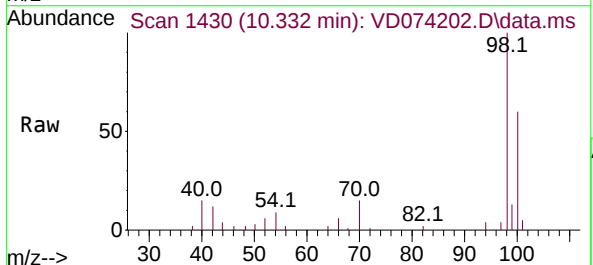
Instrument :  
MSVOA\_D  
ClientSampleId :  
SASP2-T-4-(0-5)

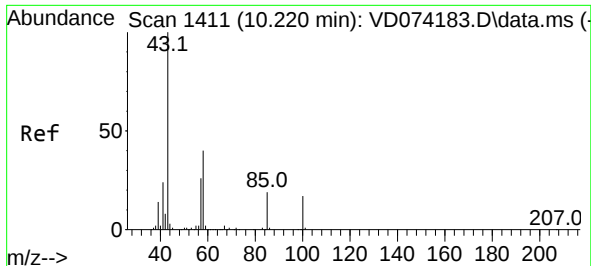
Tgt Ion:117 Resp: 737  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 54.844 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

Tgt Ion: 98 Resp: 19103  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.4 78.6

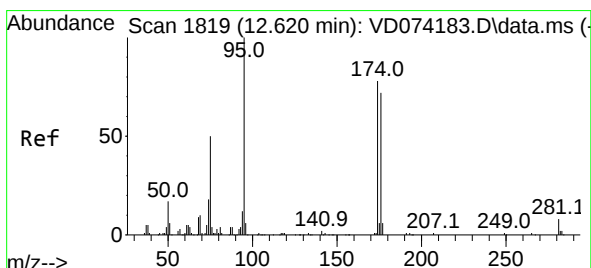
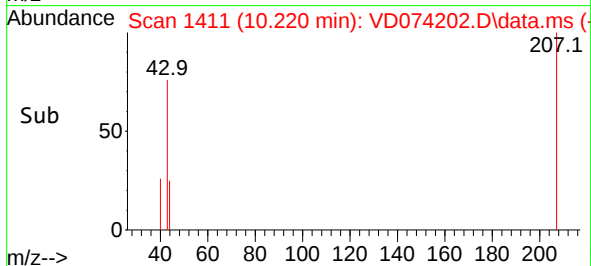
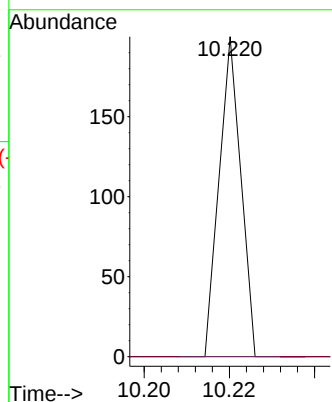
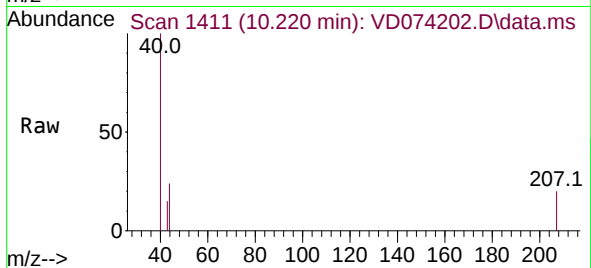




#51  
4-Methyl-2-Pentanone  
Concen: 1.095 ug/l  
RT: 10.220 min Scan# 1411  
Delta R.T. 0.000 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

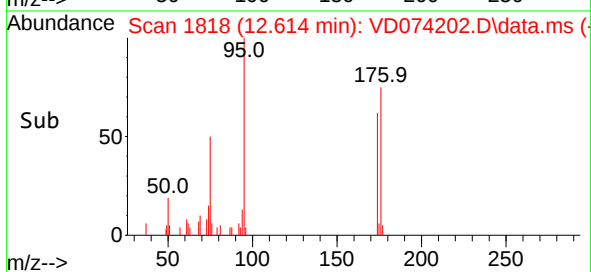
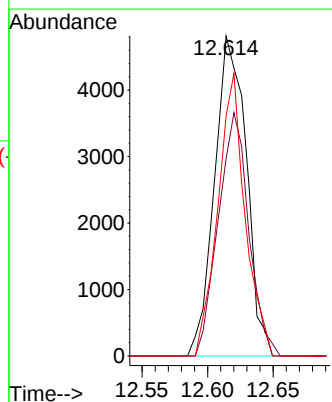
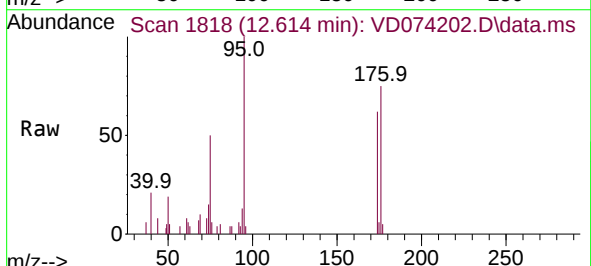
Instrument :  
MSVOA\_D  
ClientSampleId :  
SASP2-T-4-(0-5)

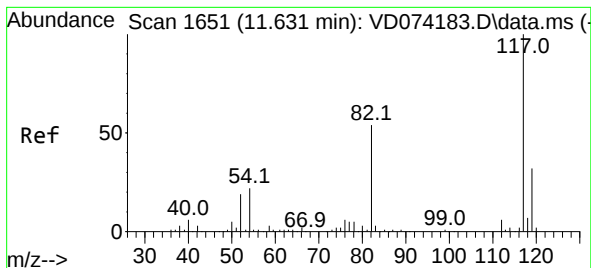
Tgt Ion: 43 Resp: 71  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#



#62  
4-Bromofluorobenzene  
Concen: 58.698 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. -0.006 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

Tgt Ion: 95 Resp: 8077  
Ion Ratio Lower Upper  
95 100  
174 72.9 0.0 152.8  
176 76.1 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.638 min Scan# 1

Delta R.T. 0.007 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

Instrument :

MSVOA\_D

ClientSampleId :

SASP2-T-4-(0-5)

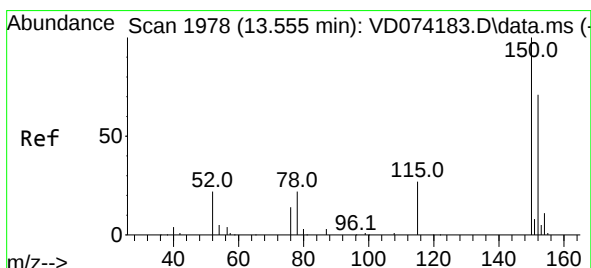
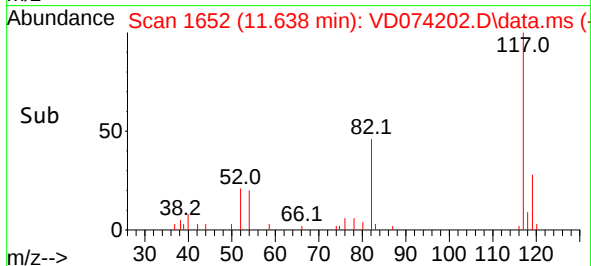
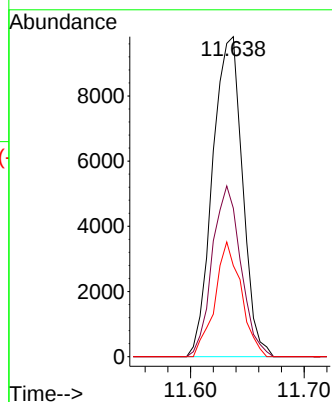
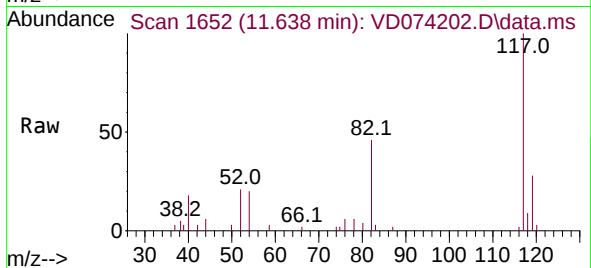
Tgt Ion:117 Resp: 17954

Ion Ratio Lower Upper

117 100

82 46.4 45.3 67.9

119 28.4 26.6 40.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.555 min Scan# 1978

Delta R.T. 0.000 min

Lab File: VD074202.D

Acq: 24 Aug 2022 01:02

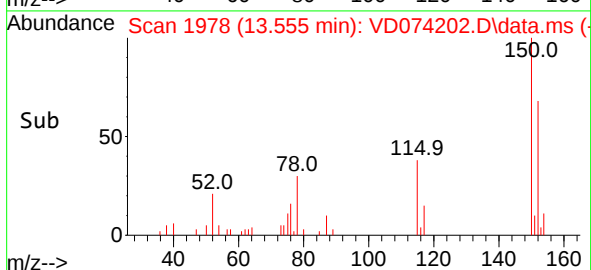
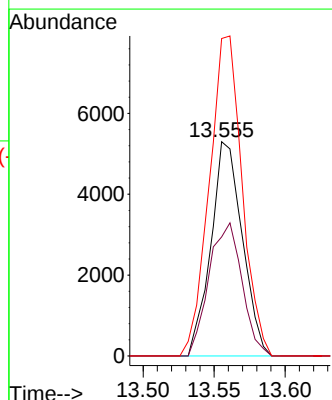
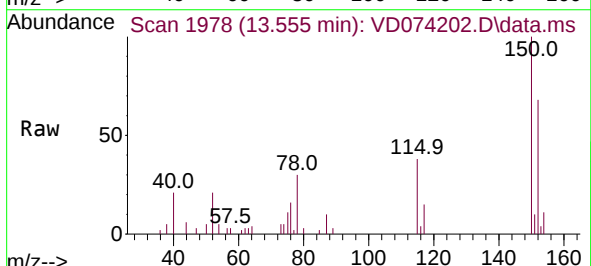
Tgt Ion:152 Resp: 8153

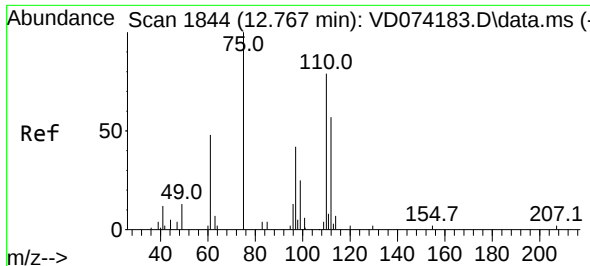
Ion Ratio Lower Upper

152 100

115 65.2 31.3 93.8

150 155.6 0.0 348.6

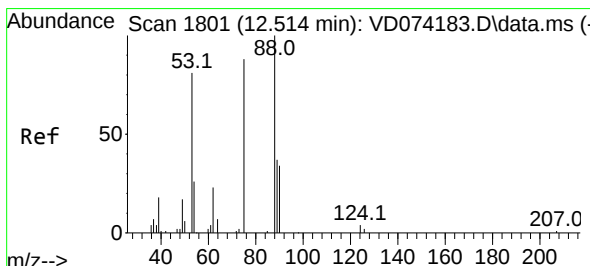
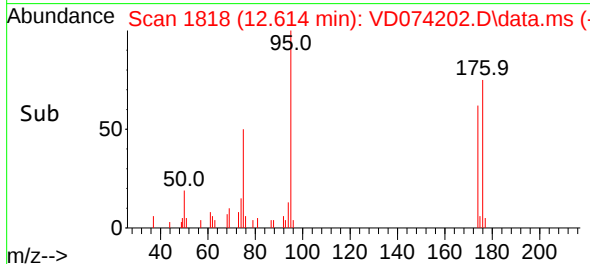
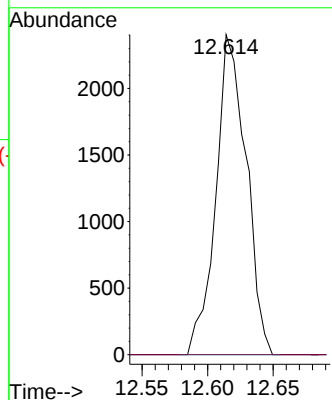
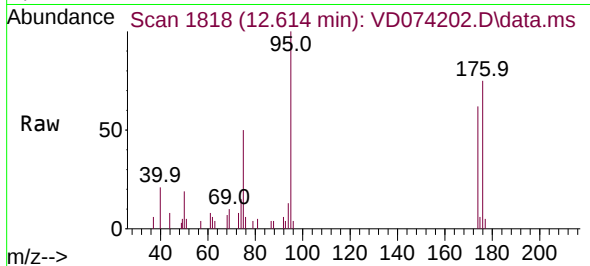




#76  
1,2,3-Trichloropropane  
Concen: 48.638 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. -0.153 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

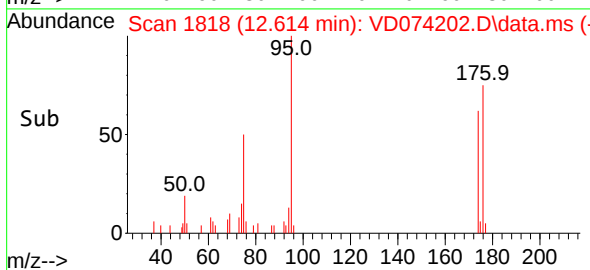
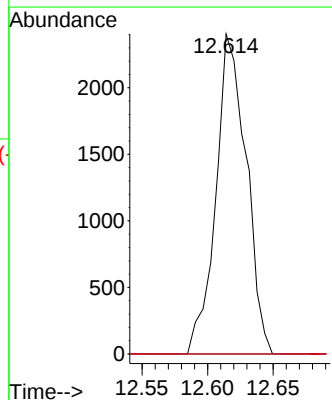
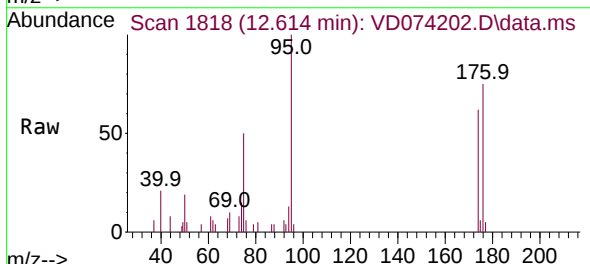
Instrument :  
MSVOA\_D  
ClientSampleId :  
SASP2-T-4-(0-5)

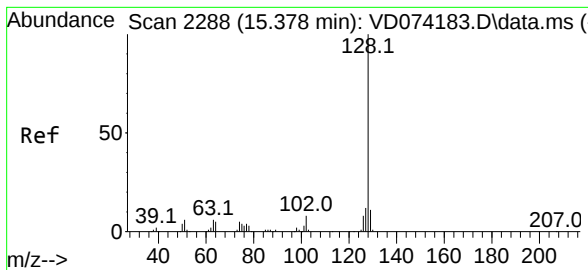
Tgt Ion: 75 Resp: 3872  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 125.081 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. 0.100 min  
Lab File: VD074202.D  
Acq: 24 Aug 2022 01:02

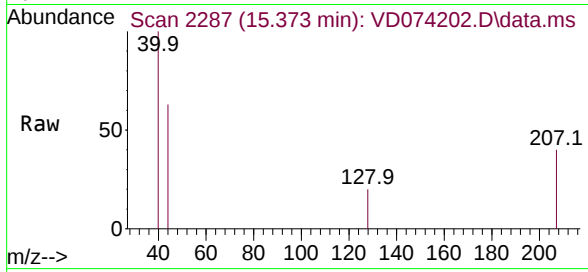
Tgt Ion: 75 Resp: 3872  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 33.9 50.9#





#95  
 Naphthalene  
 Concen: 3.807 ug/l  
 RT: 15.373 min Scan# 21  
 Delta R.T. -0.005 min  
 Lab File: VD074202.D  
 Acq: 24 Aug 2022 01:02

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SASP2-T-4-(0-5)



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 124   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.4   | 12.6# |

